

ADMINISTRATION REPORT

OF THE

MUNICIPAL COMMISSIONER

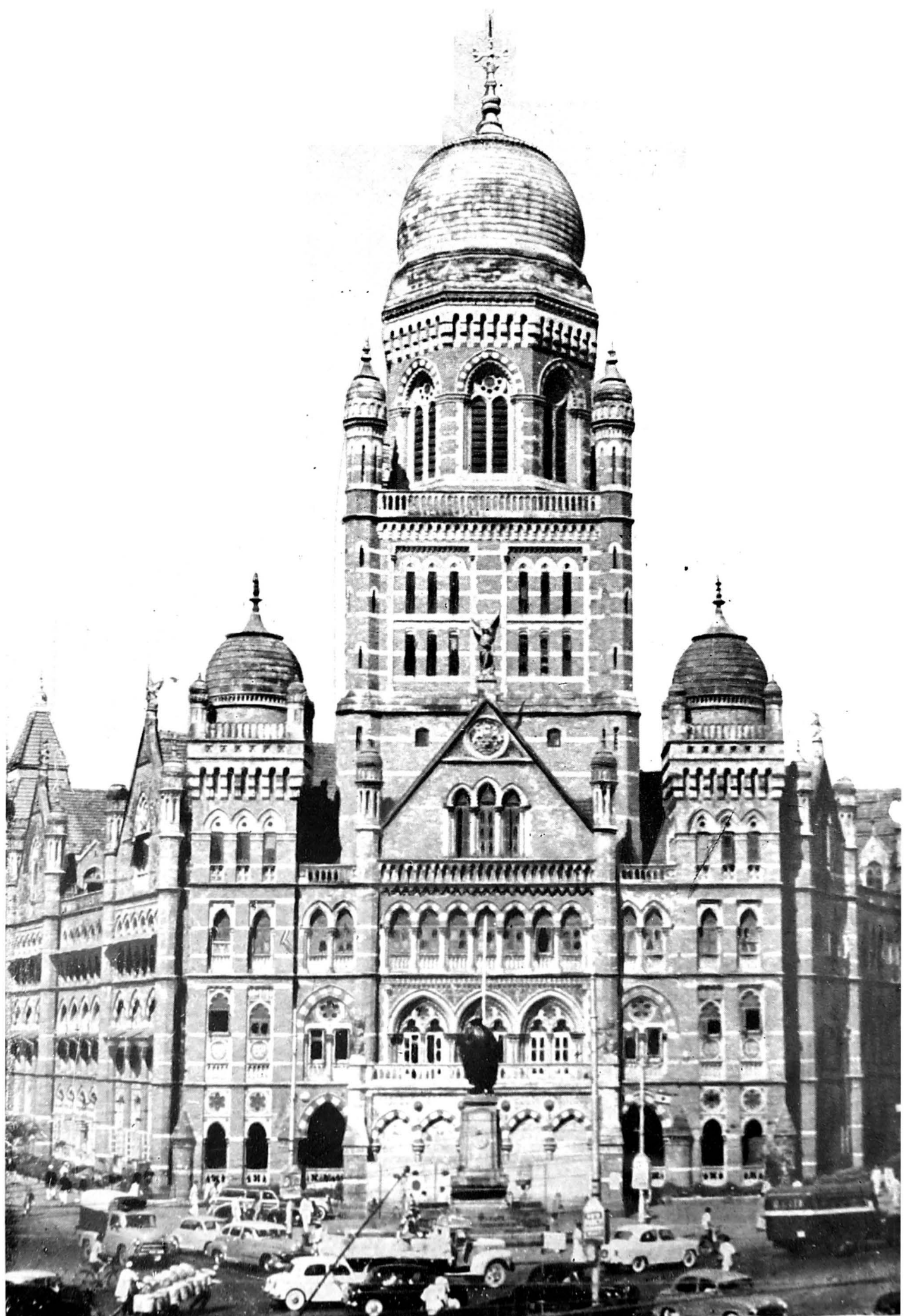
FOR

GREATER BOMBAY

For the Year 1972-73

CITY, SUBURBS AND EXTENDED SUBURBS

BOMBAY
PRINTED AT THE MUNICIPAL PRINTING PRESS
1973



MUNICIPAL HEAD OFFICES



ADMINISTRATION REPORT

OF THE

MUNICIPAL COMMISSIONER

FOR

GREATER BOMBAY

For the Year 1972-73

CITY, SUBURBS AND EXTENDED SUBURBS

BOMBAY
PRINTED AT THE MUNICIPAL PRINTING PRESS
1973

CONTENTS

	PAGE
STANDING COMMITTEE'S REVIEW OF THE REPORT...	i-xxii
COMMISSIONER'S REPORT	i
Accompaniments	
1. GENERAL	1-6
Report of the Chief Complaints Officer	6
Report of the Manager, Birla Kreedha Kendra	6
Report of the Executive Engineer (Vigilance)	6
2. FINANCIAL :—	
Report of the Chief Accountant, with Appendices	7-76
3. REVENUE :—	
Report of the Assessor and Collector	77-88
4. ELECTIONS :—	
Report of the Dy. Assessor and Collector (Octroi)	89-91
5. PUBLIC WORKS :—	
Report of the Dy. Project Engineer—Water Supply	93-104
6. REPORT OF THE CITY ENGINEER	105-185
7. WARD OFFICER (ESTATES)	187-199
8. WATER WORKS :—	
Report of the Hydraulic Engineer	201-235
9. FIRE BRIGADE :—	
Report of the Chief Officer	237-245
10. GARDENS :—	
Report of the Superintendent	247-250
11. VICTORIA AND ALBERT MUSEUMS :—	
Report of the Curator	251
12. MUNICIPAL FREE READING ROOMS & LIBRARIES	253
13. CENTRAL STORES :—	
Report of the Controllor of Stores	255-259
14. LICENCES, SHOPS AND ESTABLISHMENTS :—	
Report of the Superintendent	261-268
15. CHIEF INSPECTOR, SHOPS & ESTABLISHMENTS	269-271
16. WARD OFFICER (MARKETS) :—	273-279
17. PRINTING PRESS :—	
Report of the O. S. D. (Press)	281-284
18. SETH G. S. M. COLLEGE AND K. E. M. HOSPITAL :—	
Report of the Dean	285-321
19. SETH A. J. B. MUNICIPAL E. N. T. HOSPITAL :—	
Report of the Asstt. Medical Officer	323-325
20. BAI YAMUNABAI L. NAIR CHARITABLE HOSPITAL AND TOPIWALA NATIONAL MEDICAL COLLEGE	327-370
21. NAIR HOSPITAL DENTAL COLLEGE	371-374
22. L. T. MUNICIPAL GENERAL HOSPITAL, SION, AND ANNAPURNABAI DESHMUKH HOSPITAL FOR WOMEN	375-389
23. GROUP OF T. B. HOSPITALS, SEWRI :—	
Report of the Medical Superintendent	391-393
24. LEGAL :—	
REPORT OF THE SOLICITOR TO CORPORATION	395-396
25. EDUCATION :—	
Report of the Education Officer	397-408
26. LABOUR :—	
Report of the Labour Officer	409-412
27. Public Relations Officer	413-414
28. Municipal Swimming Pools	415
29. Report of the Administrative Officer (Enquiries)	417-419
30. Report of the Editor, the Bombay Civic Journal	421
31. Report of the Organizer and Methods Officer	423
32. Report of the Productivity Cell	425
33. Report of the Bombay Municipal Security Force	427-429
34. PUBLIC HEALTH :—	
Report of the Executive Health Officer	431-470

**REVIEW OF THE STANDING COMMITTEE OF THE ADMINISTRATION
REPORT OF THE MUNICIPAL COMMISSIONER FOR
GREATER BOMBAY FOR THE YEAR 1972-73.**

The Administration Report submitted by the Municipal Commissioner, gives in detail the working of the various Municipal Departments, for the year 1972-73.

CORPORATION

2 Shri R. K. Ganatra was elected Mayor of Bombay for the year under report and he continued to hold that office throughout the year. Shri H. J. Correa was the Chairman of the Standing Committee, Shri H. R. Bhugra was the Chairman of the Improvements Committee, Smt. Deviben S. Dalal was the Chairman of the Education Committee and they continued to hold their respective offices throughout the year.

The Corporation accorded Civic Address to the Prime Minister, Smt. Indira Gandhi and Civic Receptions to (i) the Maharashtra State Kabaddi Mahila Sangh, (ii) The delegates from Los Angeles Bombay Sister City Relationship and (iii) Shri V. Shantaram.

COMMISSIONER

3. Dr. M. N. Desai, from 1-4-1972 to 18-4-1972 and Shri M. W. Desai, from 19-4-1972 to 31-3-1973 held the post of the Municipal Commissioner during the year under report as Shri M. N. Desai was repatriated to Government Service from 19-4-1972.

Complaints Section

This Section deals with the complaints concerning Municipal Services received in the Central Control Room at Babula Tank Cross Lane, Bombay 9, about repairs to buildings, water supply, drainage, sanitation, etc. Complaints were referred to the departments concerned, systematically followed up and the complainants were contacted, if required, in order to see that their grievances were redressed within a reasonable time. The total number of complaints registered and followed up by the Central Control Room during the year under report was 12,691. The Standing Committee finds that the Administration has not effected economy in the establishment cost by substituting Complaints Officers by complaint clerks though those views were expressed by them in their review of the previous report.

Birla Kreed Kendra

This multi purpose recreational centre was reserved by the public for various cultural activities.

Documentary films and demonstrations of the electric toy trains, etc., were shown free of charge to the visitors to the Children's Hall on the first floor on all days between 4 p.m. and 7 p.m. except Sundays and Public Holidays. The Chowpatty Foreshore was kept under the supervision of the Manager for maintenance of sanitation. An amount of Rs. 1,10,000 was collected by way of revenue.

Special Technical Unit

The Executive Engineer (Vigilance) is in charge of the Special Technical Unit attached to the Municipal Commissioner's Office. This Unit supervises the construction works in progress and exercises control over construction jobs for quality control and investigates various complaints of serious nature connected with Engineering Branch received from the public, etc. The Unit also functions as a co-ordinating agency of the work of different Branches of Engineering Department, etc. This Unit inspected 455, 109 and 135 works in respect of building construction, road construction and drainage construction, respectively. The special Technical Unit also carries out sample checking of some of the final bills of the Municipal Construction Works. It also checks a few building proposals after the building occupation certificates are or building completion certificates are issued to parties to verify that the disposal is in order.

FINANCIAL

4. The financial transactions have resulted in a deficit of Rs. 42.40 lakhs at the end of the year instead of an anticipated surplus of Rs. 1,16.08 lakhs. This was due to the fact that the actual Income decreased by Rs. 8,83.48 lakhs over the revised estimate of income and in spite of the fact that the expenditure was also less by about Rs. 5,95.88 lakhs over the Budgeted Estimates and Revised Estimates of Expenditure, respectively.

Variation in Income and Expenditure

5. In preparing the Budget Estimates for the year under report, an Opening Cash Balance of Rs. 176.52 lakhs was estimated. On the final closing of the accounts for the previous year, the actual Opening Balance for the year under report amounted to Rs. 3,48.97 lakhs. The total income budgeted for was Rs. 70,15.89 lakhs, while the actual realizations amounted to Rs. 60,28.74 lakhs. On the expenditure side, the amount budgeted for was Rs. 68,99.81 lakhs whereas the actuals of expenditure were Rs. 64,52.69 lakhs.

Loan Funds

6. The Opening Balance on 1st April 1972 on account of Loan Funds excluding the Trust Fund was Rs. 1,61.64 lakhs for the City, that for the Suburbs on account of Loan Funds and Trust Funds was Rs. 2,49.06 lakhs and Rs. 46.77 lakhs on account of Loan Funds for the Extended Suburbs. Loans aggregating to Rs. 9,68,17,376 lakhs for the City, Rs. 265 lakhs each for the Suburbs and Extended Suburbs, respectively, were raised during the year.

The total Loan Funds available for expenditure during the year were Rs. 11,29.82 lakhs for the City; the total Loan Funds and Trust Funds available for expenditure were Rs. 5,14.06 lakhs for the Suburbs and the total loan funds available for expenditure were Rs. 3,11.77 lakhs for the Extended Suburbs.

The total expenditure amounted to Rs. 896.92 lakhs for the City, Rs. 2,43.68 lakhs for the Suburbs and Rs. 1,88.93 lakhs for the Extended Suburbs on Capital Works as against the budgeted figure of Rs. 18,57.64 lakhs for the City, Rs. 782.05 lakhs for the Suburbs and Rs. 3,37.71 lakhs for the Extended Suburbs.

Sinking Funds

7. The Book Value of investments of the Sinking Funds at the close of the year amounted to Rs. 27,99,80 lakhs for the City, Rs. 664.26 lakhs for the Suburbs and Rs. 244.71 lakhs for the Extended Suburbs, made up of the book value of securities and the amounts in cash with the State Bank of India. Valuing the Municipal and Improvements Trust Debentures at par, the Market Value of the Sinking Fund Investments held on 31st March 1973, came to Rs. 27,62.69 lakhs for the City, Rs. 6,61.92 lakhs for the Suburbs and Rs. 2,44.93 lakhs for the Extended Suburbs. The total amount of Sinking Fund thus inclusive of the interest accrued and cash with the Bank came to Rs. 27,93.98 lakhs for the City, Rs. 6,71.60 lakhs for Suburbs and Rs. 2,48.01 lakhs for the Extended Suburbs, the excess in the Sinking Fund Account being Rs. 2,00.18 lakhs for the City, Rs. 75.63 lakhs for the Suburbs and Rs. 18.19 lakhs for the Extended Suburbs, respectively.

Improvement Schemes Account, General Account, Income and Expenditure

8. The total income for the year amounted to Rs. 5,36.43 lakhs against Rs. 3.43 lakhs for the previous year, showing a net increase of Rs. 1,93.43 lakhs. The increase were in respect of (1) Rent and other proceeds of properties, Rs. 17.12 lakhs; (2) Contribution from Municipal Corporation Rs. 19.07 lakhs; (3) Interest and profit on investment Rs. 1.20 lakhs and (4) under Grant assistance from Govt. of India for environmental Improvement of slums Rs. 1,56.2 lakhs counterbalanced, by decrease of Rs. 15,610 under Miscellaneous Receipts.

The total expenditure for the year, viz., Rs. 393.010 lakhs as against Rs. 2,97.90 lakhs for the previous year, showing an increase of Rs. 95.20 lakhs on that of the previous year. This is made up of increase of Rs. 95.33 lakhs under maintenance of properties and streets counterbalanced by decrease of Rs. 12,297 under Debt Charges.

The surplus of Rs. 143.34 lakhs in General Account is transferred to Capital Account.

Loan Account

The loan liability for the City at the beginning of the year was Rs. 14,40.06 lakhs. The repayment of loan to Government during the year under report was Rs. 13.40 lakhs on the basis of equated payment and Rs. 25 lakhs were paid to debenture holders. The outstanding liability on loan account at the close of the year stood at Rs. 14.02 lakhs.

CAPITAL ACCOUNT

The year began with an Opening Balance of Rs. 1,22.87 lakhs. In the course of the year, receipts on account of Sale Proceeds of Lands and Buildings amounted to Rs. 6.38 lakhs. The total funds thus available were Rs. 129.25 lakhs. The total expenditure incurred amounted to Rs. 48.91 lakhs. The surplus in General Account for the year which amounted to Rs. 143.34 lakhs, was transferred to the Capital Account. The unspent balance at the close of the year was Rs. 2,23.68 lakhs.

The actual expenditure during the year on schemes amounted to Rs. 48.91 lakhs as against the Revised Estimates of Rs. 1,46.65 lakhs including Rs. 19.48 lakhs on account of the cost of Management and Establishment.

Sinking Fund in Improvement Schemes Account

The amount of Sinking Fund on 31st March 1973 was Rs. 784.45 lakhs of which Rs. 7,84.45 lakhs represent the book value of the securities and Rs. 35 lakhs in cash with the State Bank of India. Valuing the Municipal and Trust debentures at par, the market value of Sinking Fund Investments at the end of the year under review amounted to Rs. 7,61.80 lakhs. This together with interest accrued upto 31st March 1973, viz., Rs. 1.07 lakhs and cash with the State Bank of India brought the total amount of Sinking Fund to Rs. 7,62.81 lakhs against Rs. 5,82.90 lakhs, the amount to which the Sinking Fund should have accumulated at the close of the year. The excess in the fund thus amounted to Rs. 1,79.91 lakhs.

The Gross Capital Liabilities of the Improvement Schemes stood at Rs. 14,49.25 lakhs at the close of the year under review and the assets at Rs. 33,36.97 lakhs including the book value of funds comprised in Schedules 'W' and 'X', resulting in a Surplus of Rs. 18,87.75 lakhs.

General Account, Slum Clearance—City and Suburbs

The total income during the year under Slum Clearance, City Section amounted to Rs. 21.44 lakhs against Rs. 16.41 lakhs in the previous year showing a net increase of Rs. 5.03 lakhs. This is made up of increase of Rs. 5.39 lakhs under Rent and other proceeds of properties counterbalanced by decrease of Rs. 36,138 under Interest and Profit on Investments.

The expenditure on this account during the year amounted to Rs. 32.94 lakhs comprising of Rs. 13.84 lakhs on Maintenance of Properties and Streets and Rs. 19.11 lakhs on Debt Charges resulting in a deficit of Rs. 11.51 lakhs at the close of the year which was made good from the Capital Account.

The total income during the year under Slum Clearance Suburban Section, amounted to Rs. 9.75 lakhs as against Rs. 11.58 lakhs in the previous year showing a net decrease of Rs. 1.83 lakhs. This is made up of decrease of Rs. 0.23 lakhs under Rent and other Proceeds of Properties and Rs. 1.11 lakhs under Miscellaneous Receipts, and Rs. 0.49 lakhs under Interest and Profit on Investments.

The expenditure during the year on this account amounted to Rs. 25.88 lakhs showing a net decrease of Rs. 0.59 lakhs made up of decrease of Rs. 0.59 lakhs under Maintenance of Properties and Streets and decrease of Rs. 0.15 lakhs under Debt Charges. The net deficit of Rs. 16.13 lakhs was transferred to Capital Account.

Capital Account, Slum Clearance—City

The Opening Balance under Capital Account, Slum Clearance City, on 1st April 1972 was Rs. 5.22 lakhs. An amount of Rs. 50.00 lakhs was received from public as loan and an amount of Rs. 1.62 lakhs was received from the Government. Thus the total funds available for expenditure amounted to Rs. 46.40 lakhs, against which the expenditure incurred during the year amounted to Rs. 19.70 lakhs. The deficit in the General Account amounting to Rs. 11.51 lakhs was transferred to Capital Account. The unspent balance at the close of the year stood at Rs. 15.19 lakhs.

Capital Account, Slum Clearance—Suburbs

The Opening Balance under Capital Account, Slum Clearance, Suburbs on 1st April 1972 was Rs. 13.50 lakhs. An amount of Rs. 2.98 lakhs was received as Sale Proceeds of Lands and Buildings. The total funds available for expenditure thus amounted to Rs. 16.47 lakhs against which expenditure incurred during the year amounted to Rs. 0.92 lakhs and deficit in the General Account amounting to Rs. 16.13 lakhs was transferred to the Capital Account. The deficit of Rs. 0.58 lakhs was met by taking advance from surplus moneys under Revenue Budget 'A', Division I.

Education Fund

9. The actual income for the year amounted to Rs. 10,06.81 lakhs resulting in a decrease of Rs. 58.50 lakhs in the Budget Estimates and of Rs. 30.48 lakhs in the Revised Estimates. The rate of Education Cess was continued at 2½ per cent. of rateable value on buildings and lands, the rateable value of each of which was not less than Rs. 300 per annum and 2 per cent. of the rateable value on buildings and lands, the rateable value of each of which was less than Rs. 300 per annum but not less than Rs. 75 per annum.

The total expenditure for the year amounted to Rs. 10,41.54 lakhs against the Budget Estimates of Rs. 10,77.18 lakhs.

The Opening Balance on account of Loan Funds excluding Trust Funds on 1st April 1972 was Nil. A new loan of Rs. 50 lakhs was proposed for 1972-73 but actually a loan of Rs. 182.50 lakhs was raised during the year. The total loan funds thus available amounted to Rs. 1,76.03 lakhs against which expenditure booked on loan funds amounted to 1,39.06 lakhs. The closing balance at the end of the year in Loan Funds amounted to Rs. 0.37 lakhs.

The percentage of actual expenditure on Loan Works to the Loan Funds available works out to 79.

Taxation, Demand, Collection and Outstanding

10. During the year under report, the rates of taxation in the City, Suburbs and Extended Suburbs remained the same as in the previous year. The rates of taxation thus stood as follows:—

General Tax (including Fire Tax) at $24\frac{3}{4}$ per cent., Water Tax at $4\frac{1}{2}$ per cent. and Halalkhore Tax at $3\frac{1}{2}$ per cent. Rates charged for the supply of water by meter measurement ranged between Rs. 2 and Rs. 10 per 10,000 litres according to the users in areas of City, Suburbs and Extended Suburbs of properties.

On the Assessment Register at the close of the year, there were 87,608, 83,295 and 44,527 properties in the City, Suburbs and Extended Suburbs, respectively. 3,080 properties in the City, 3,650 in the Suburbs and 1,606 in the Extended Suburbs were newly assessed to General Tax, while 3,389 properties in the City, 2,027 in the Suburbs and 1,125 in the Extended Suburbs were exempted from the General Tax during the year under report.

The total number of properties in the City, Suburbs and Extended Suburbs accounted for as newly assessed, demolished and enlarged during the year was 8,336, 900 and 5,366, respectively.

The rateable value of all properties on 31st March 1973 was Rs. 56,72,80,355, in the City ; Rs. 26,10,42,002 in the Suburbs and Rs. 11,19,33,153 in the Extended Suburbs as against Rs. 52,41,38,944, Rs. 22,95,35,082 and Rs. 9,75,72,292 in the preceding year.

The total number of bills in respect of Property Taxes and Wheel Tax issued during the year was 1,53,671 and 3,38,364, respectively, for the City, 1,66,456 and 81,342 for the Suburbs and 89,783 and 21,802 for the Extended Suburbs. The total number of bills for water charges by meter measurement issued during the year by the Hydraulic Engineer was 44,482 for the City, 1,26,015 for the Suburbs and 47,989 for the Extended Suburbs. As regards property taxes, out of the net demand of Rs. 27,83,09,864 an amount of Rs. 21,36,49,011 was collected leaving the amount of Rs. 6,46,60,853 as outstanding, percentage of outstanding, to net demand comes to 23.24 for the City ; the figures for Suburbs for net demand and collection stood at Rs. 18,22,52,033 and Rs. 9,79,25,576 leaving the balance of Rs. 8,43,26,457 as outstanding and percentage of outstanding to net demand comes to 46.25 . The net demand and collection in the Extended Suburbs stood at Rs. 7,24,40,092 and Rs. 3,58,45,628 leaving the balance at Rs. 3,65,94,464 and percentage of outstanding to net demand comes to 50.52.

In the case of Wheel Tax in the City, the net demand was for Rs. 2,87,55,335 and the amount collected was Rs. 92,69,008 thus leaving an amount of Rs. 1,94,86,327 as outstanding, the percentage of outstanding to net demand comes to 67.77 . As regards Suburbs and Extended Suburbs, the net demand was Rs. 91,60,131 and Rs. 18,59,819, the collection at Rs. 17,38,311 and Rs. 4,53,180 thus leaving an amount of Rs. 74,21,820 and Rs. 14,06,639 as outstanding, respectively and the percentage of outstanding to net demand comes to 81.01 and 75.63, respectively.

The Standing Committee is distressed to see the high percentages of arrears of property taxes and octroi and they are of the emphatic opinion that a more vigorous drive for the recovery ought to be undertaken.

The Urban Immoveable Property Tax

This tax was abolished from 1st April 1963. The arrears of the tax as on 1st April 1972 were Rs. 1,65,067, Rs. 3,59,144 and Rs. 2,11,632 for the City, Suburbs and Extended Suburbs, respectively. Out of this amount, sums of Rs. 26,591, Rs. 25,871 and Rs. 27,780 were collected during the year.

Theatre Tax

11. There were in all 51 Class I and 17 Class II Cinema Theatres in the City 19 Class I and 9 Class II Cinema Theatres in the Suburbs and 11 Class I and 4 Class II Cinema Theatres in the Extended Suburbs.

The total income derived by way of Theatre Tax during the year under report was Rs. 8,73,270.56 in the City, Rs. 3,38,557.93 in the Suburbs and Rs. 1,85,626.20 in the Extended Suburbs.

OCTROI

12. The rate of Octroi during the year under report continued to be the same as in the previous year. The gross collection from Octroi during the year under report amounted to Rs. 21,94 lakhs as against Rs. 20,88 lakhs in the preceding year. The amount refunded during the year under review was Rs. 235 lakhs as against Rs. 300 lakhs in the previous year. Octroi gave a net revenue of about Rs. 19.59 lakhs as against Rs. 17.88 lakhs in the previous year. The total number of claims for refund was 90,752 as against 84,710 in the previous years.

Fees for stamping sugar bags, tea cases, etc., amounted to Rs. 6.51 lakhs as against Rs. 2.18 lakhs in the preceding year.

The Standing Committee is of the view that Octroi Schedule should be enlarged and made broadbased to cover a number of other items. The Standing Committee also feels that with vigilant efforts revenue from this source can be increased further.

Elections

13. The work of delimitation of the area of Greater Bombay into 140 Electoral Wards for Municipal General Elections was done by the State Government. After inviting objections and suggestions in respect of 140 delimited wards published in the Government Gazette and considering the objections and suggestions received, final 140 Municipal Electoral Wards were published in the Gazette, dated 12th December 1972.

The poll for Municipal General Election for electing 140 Councillors was held on 9th March 1973.

WATER SUPPLY PROJECTS DEPARTMENT

14. In accordance with the final Report of Messrs. Binnie and Partners (India) Ltd., on Bombay's Water Supply and Sewerage Projects in May 1972, the World Bank Appraisal Mission spent about a month in June-July 1972 appraising the project report. The Corporation agreed to adopt a number of measures like amending the Municipal Act, introducing new tariff rates, establishing a Water Supply and Sewerage Department and making Standing Committee the only Committee of the Corporation responsible for all the activities of the Water Supply and Sewerage Department excepting Land Acquisition and implemented many of these commitments during the year. The final negotiations with the World Bank were carried out in Washington by a Municipal delegation led by Shri M. W. Desai, Municipal Commissioner.

VAITARNA-CUM-TANSA SCHEME

The various works under this Scheme have been completed since long and only correspondence for transfer of Government lands and forest lands was in progress during the year under report.

MASTER PLAN FOR THE DISTRIBUTION OF WATER SUPPLY

The work on the Powai High Level Reservoir is nearing completion.

The Standing Committee desire that all the Reservoirs should be completed and commissioned expeditiously in order to ensure equitable distribution of water supply and avoid hardships to citizens receiving supply at odd hours at present.

Dahisar River Project Scheme.—As it was found that this project would not be commensurate with the cost incurred thereon a decision was taken to postpone the project.

Upper Vaitarna Scheme.—The work of preparing formation from Bel-Nalla to Bhandup was divided into 3 Sections and entrusted to 3 contractors. The works were started in 1965 but due to delay in getting possession of the land required for making formation, etc., all the 3 works were delayed. The Hindustan Construction Co. Ltd. started the work in November 1968 and completed the work of laying the main in 1972.

BHATSAI SCHEME

For completion of the scheme a centralised Planning and Design Office headed by a Deputy Project Engineer was established and a report of the works undertaken by the Department during the year has been submitted.

ULHAS RIVER SCHEME

The Award in respect of 3 cases for acquisition of land was declared and other cases were pending for award.

Planning Section, Public Works

15. During the year, the Building, Roads and Drainage Construction Sections which worked on functional basis for the whole of Greater Bombay were decentralized into 3 Zones.

The Architectural Planning Branch for the City, Suburbs and Extended Suburbs prepared in all 103 contract Plans, 17 Cloth Tracings, 33 Block Estimates and 72 Detailed Estimates in connection with different building works (including housing in Greater Bombay) costing Rs. 2,13,49,477.90 in the City and Rs. 3,79,26,719.92 in Suburbs and Extended Suburbs.

Civil Defence Cell

A Civil Defence Cell was created on 7th June 1971 to ensure future planning and execution of Capital Works as per civil and strategic requirements of the present and future. This cell was entrusted with the work of vigilance with effect from 1st June 1972 in mechanical and electrical Branches of the Department during the peace time. Training programme in Civil Defence Basic course was arranged for Municipal Staff. In addition to this a camp for famine affected persons migrated to Bombay from various parts of Maharashtra State was erected near Agra Road (Municipal Camps) and basic amenities such as bamboo matting huts to each family, water supply, street lighting, medical and school, ration shop were provided to persons residing in the camp.

Municipal Properties

16. The total number of buildings and other properties both Municipal and ex-Trust maintained by the Maintenance Branch during the year, was 4,389 as against 2,586, in the previous year. The amount spent on buildings in the City, Suburbs and Extended Suburbs for such works was Rs. 2,79,75,298. The work of upkeep and maintenance of buildings including school buildings was carried out either by departmental agency or by the Petty Works Contractors.

Construction

During the year under report works amounting to Rs. 99.18 lakhs were completed. Works amounting to Rs. 58.60 lakhs were in progress.

During the year under report the works ancillary to the main factory units viz. live stock Markets etc. of the Abattoir at Deonar were completed.

Private Buildings

17. During the year, 3,993 applications were received for the construction of new buildings or additions and alterations to the existing ones in the City area. The total number of new buildings constructed by private enterprise during the year was 1,229, out of which 494 buildings were constructed by Co-operative Societies, 43 by employers for their employees. If proper encouragement and guidance is given, the Standing Committee is confident that the Co-operative Housing will be of great help in solving the baffling housing problem. The Standing Committee is also of the view that if incentive is given in the form of concession in taxes, it would serve as an impetus for building activities.

In the case of dilapidated houses in the City, the issue of notices and launching of prosecutions continued as before. 6,546 notices were issued for repairs and/or removal of unsafe buildings. In deserving cases, where the owners resorted to delaying tactics or to refuse to comply with Municipal requisitions, authorisations, under Section 499 of the Act, were given to tenants to carry out repairs works and to recover reasonable expenses incurred by them from the rents. In 117 cases such authorities were given during the year as against 252 in the previous year and 1,618 tenants took advantage of it against say 5,595 during the last year.

In 156 cases, departmental action had to be taken to pull down unsafe portions of buildings in the interest of public safety, as the owners failed to comply with the Municipal Requisitions and an expenditure of Rs. 3,63,485 was incurred therefor.

During the year 107 buildings or portions thereof collapsed in the City. The total number of persons injured were 72 and those killed were 7. The estimated damage to property was Rs. 5,55,140.

Slum Clearance, Housing and Land Acquisition

18. The various works under the Slum Clearance Schemes during the year were in progress.

Clearance of Municipal Slums.—By the end of the year, 24 slums were cleared and redeveloped. Clearance and redevelopment of 3 slums in stages was in progress.

Tenements under the Government of India's Subsidised Slum Clearance Scheme.—Under the scheme, 6,098 tenements were sanctioned. Out of these 80 tenements were completed during the year, bringing the total number of tenements completed upto 31st March 1973 to 5,190. Construction of 290 tenements was in progress during the year under review.

Financial Assistance from Government under subsidised Slum Clearance Scheme.—The Corporation have not received any loan or subsidy from the Government during the year under report. The Corporation has thus so far received Rs. 12,63,48,806 by way of loan and Rs. 1,51,03,418 by way of subsidy upto 31st March 1972.

Drainage and Sewerage

19. *Dadar Purification Works.*—The working of the Sewage Purification Works was satisfactory throughout the year. The plant pumped 11,517 M. litres of sewage during the year under report. Activated sludge plant turned out the affluent of the best quality by aerating the primary treated Sewage in 24 aeration cones. Three Return Activated sludge pumps recirculated the sludge smoothly.

Love Grove Pumping Station and Purification Works

Pumping Station No. 1 pumped out 49,241.68 m. litres of sewage water directly to Sea. Pumping Station No. 2 discharged 1,11,480.50 m. litres of sewage water during the year.

Dharavi Purification Works

The sludge gas was supplied fairly continuously in fair season to all the consumers during the year under report. The performances of the plant was satisfactory. The revenue from the sludge gas produced thereat was Rs. 25,134.

Pumping and Compressor Stations and Ejectors

All the sewage pumping and compressor stations worked satisfactorily during the year. Sewage from the sewerage system of the City was pumped through all pumping stations.

The works of cleansing pipe sewers, storm water drains and open drains were attended to.

Transport

20. During the year 363 motor vehicles were in commission in the City and 263 vehicles in the Suburbs and Extended Suburbs.

Since the transport fleet for the removal of refuse was not sufficient to cope up with the daily output of refuse, extra vehicles from private agency had to be requisitioned for the removal of refuse. The average collection of refuse in the City worked out to 1,593 tons per day.

Repairs & Maintenance of Roads & Footpaths

21. The total length of roads in the City, Suburbs and Extended Suburbs at the end of the year was 482.03 K.M. and 571.07 K.M., respectively.

The work of maintenance of roads and footpaths was generally satisfactory throughout the year.

The number of street lights maintained in the City was 20,699 and 18,995 in the Suburbs and Extended Suburbs at an expenditure of Rs. 1,04,456, Rs. 66,06,264 for Suburbs and Extended Suburbs, respectively.

The lighting of 309 roads was improved with MV lamps under the 'All-in-Hire Scheme,' 229 new street lights were provided and 16 roads were improved with Tungston filament lamps. 32 new street lights were provided in 9 hutment colonies. The Standing Committee is of the view that better maintenance of internal lanes and bye lanes needs greater attention of the Administration.

The statues of (i) Sir Phirozeshah Mehta at Bori Bunder (ii) Shri Vithalbhai Patel at Chowpatty (iii) Lokmanya Tilak at Chowpatty, (iv) Dr. Babasaheb Ambedkar at Band Stand on Mayo Road, (v) Hutatama Smarak at Hutatma Chowk ; (vi) Swami Vivekanand at Gateway of India and (vii) Senapati Bapat at Shivaji Park as also the Hutatma Smarak at Flora Fountain were flood lit with electric lights throughout the year.

Removal of Town Refuse

22. As in the past a major portion of the City refuse was transported to Deonar and also to Dharavi for disposal.

The total number of wagons sent to Deonar during the year under report was 10858 as against 9942 during the preceding year.

As the Municipal fleet was found inadequate in City and Suburbs 68,472 and 17,828 vehicles shifts hired from the contractors were utilized for transporting about 69 per cent. and 39 per cent. respectively, of the refuse.

Town Planning Schemes

23. Within the limits of the City, there are 4 Town Planning Schemes, viz., Town Planning Schemes for the Bombay City No. I (Mandvi and Elphinstone Estate); Town Planning Scheme, Bombay City No. II (Mahim area) ; Town Planning Scheme, Bombay City No. II (Mahim area) ; and Town Planning Scheme, Bombay City No. IV (Mahim area). Out of the four Schemes the last one had been declared for variation and the Draft Scheme (I variation) has been sanctioned by the Government on 27th October 1972 and the Arbitrat or to the Scheme viz. appointed on 17th January 1973. Schemes at Nos. 2 and 3 have been declared for first variation.

There are 25 Town Planning Schemes in the Suburbs out of which 24 have been finalised and are in force. There are only 4 Schemes at present in the Extended Suburbs out of which one Scheme viz., Town Planning Scheme, Malad No. 1 (I variation) has been sanctioned by the Government and has come into force.

Conservancy

24. All roads, footpaths and house gullies were cleaned daily in the morning as well as in the afternoon. The total refuse collected and removed by engaging stationary as well as mobile traction was 5,81,523 tons in the City, 2,27,569 tons in the Suburbs and the Extended Suburbs.

9881 actions were taken in Suburbs and Extended Suburbs under the Municipal Act and the Bombay City Police Act during the year for committing nuisance by throwing refuse in the streets or public places or fouling roads by urinating , etc.

There were in all 666 privy seats in the City. The work of removal of night-soil was attended to regularly by 7 cesspool lorries. 158 basket privy seats in the City were either demolished or converted.

The number of basket privies existing in Suburbs and Extended Suburbs was 5,915, as against 6,428 during the previous year and 513 basket privies were either demolished or converted during the year. In addition there were 3,194 cesspools.

Control of Stray Dogs.—47,856 stray dogs in the City and 35,584 stray dogs in the Suburbs were caught. 7,850 & 5,305 pet dogs were licensed in City and Suburbs, respectively.

In addition to the above , the Conservancy branch also rendered special conservancy and halalkhore services to various circuses, exhibitions, fairs, etc., in City and Suburbs, realising thereby Rs. 4.0 lacs and 1.06 lacs, respectively and also collected a sum amounting to Rs. 2.65 lacs for cleaning of Government Foreshore.

Asphalt Plant and Crushers

The Municipal Hot Mix Asphalt Plant at Worli was in operation throughout the year except during the monsoon from 1st July 1972 to 31st September 1972. The number of boxes turned out by the main plant and pegson plants were 1,10,43,000 kgs. and 2,27,5010 kgs. approximately.

The Crushers at Worli worked satisfactorily during the year. The total output was 3,534 brass as against 3,570 brass in the previous year.

ESTATES AND LAND MANAGEMENT

25. The undeveloped land at present with the Corporation is approximately 494 acres which covers the land at Dharavi, Scheme 56. There were no changes in the layout of ex-Trust Estates. 2 plots in Municipal Schemes have been disposed of in the year 1972-73.

The total number of plots disposed of upto the end of 1972-73 was 4,351 with an area of 52,94,244.19 sq. metres and valued at Rs. 13,94,60,193.50.

The amount received by way of commutation of ground rent and premium, etc., during the year was Rs. 1,60,762 as against Rs. 2,23,931 in the preceding year.

The collection on account of rents from the permanent chawls during the year amounted to Rs. 32,20,458. The revenue actually collected on account of rents in respect of S. P. Sheds came to Rs. 22,34,912. The figures in respect of slum clearance tenements and acquired premises stood at Rs. 24,81,528 and Rs. 13,82,845, respectively.

The recoveries of the rent in the Squatters' Colonies at Mankhurd and Jogeshwari were Rs. 2,27,244 and Rs. 1,71,410 against the demand including the arrears of Rs. 14,85,484 and Rs. 6,29,345, respectively and at Palton Road Dormitory amounted to Rs. 48,524, during the year.

During the year under review, the demand and recovery of taxes aggregated to Rs. 48,906 and Rs. 60,774 respectively. The arrears due for collection at the close of the year stood at Rs. 3,74,120.

The Standing Committee re-iterate their earlier desire that the Corporation should maintain their properties in good condition. It is also necessary to check unauthorized works on vacant land tenancies in order to ensure proper use of the land. The ground rent in respect of vacant land tenancies as well as rent from the Squatters' Colonies are required to be recovered in time as a number of proposals are received to write off these debts.

WATER SUPPLY

26. The Tansa, Vaitarna, Vehar, Tulsi and Ulhas were the principal sources of the City's water supply.

The average daily supply to Greater Bombay during the year under report was about 1,065.89 mega litres as against 1,163.73 mega litres in the previous year. During the year, the quantity of water supplied to Greater Bombay was 3,89,052.00 mega litres as against 4,25,956.45 mega litres in the preceding year. Supply to the Thana Municipality, etc., was 7,775.00 mega litres as against 8,629.57 mega litres in the previous year. The total quantity of water supplied to bodies outside the limits of Greater Bombay was 17,309.00 mega litres as against 18,170.74 mega litres in the preceding year. Of the total supply to Greater Bombay, a quantity of 2,42,257.40 mega litres was for domestic purposes as against 2,67,105.89 mega litres in the previous year. The average daily supply for all purposes per head in Greater Bombay was 143.94 litres, while that for domestic purposes only worked out to 107.26 litres. Percentage of total supply for domestic and other purposes worked out at 63.34 and 36.66 respectively.

The water from Powai Lake was used for non-potable purposes, viz., Irrigation and Aarey Colony Stables owing to its rather inferior quality.

About 1,49,730 MI(32,937 mg) of water was transferred from storage at Upper Vaitarna lake and therefore, it has helped to minimise the shortage of water due to scanty rainfall during 1972 monsoon.

The total number of water connections was 1,05,160 in the City and new connections given were, respectively, 2,724, 2,035 and 909 in the City, Suburbs and Extended Suburbs. 426 metered stand pipes were given during the year. The total number of stand-pipes in the City, Suburbs and the Extended Suburbs was 4155 out of which 500 were in City, 2,865 in Suburbs and 790 in the Extended Suburbs.

The number of complaints about short supply, etc., was 32,205, 12,065 and 2,941 in the City, Suburbs and the Extended Suburbs.

140, 161 and 138 new properties were metered in the City, Suburbs and the Extended Suburbs, respectively, during the year. The total revenue derived from water supply by meter measurement was Rs. 5,22,86,908 for the City as against Rs. 4,94,75,893 during the previous year. The total revenue collected from the Suburbs from supply of water by meter measurement was about Rs. 3,15,86,96. The figure for the Extended Suburbs for this item was Rs. 1,00,82,556.

In order to give interim relief to the consumers whose pumps had gone out of order 15 numbers of pumping sets (1 to 5 H.P.) were maintained and given on hire for short duration 2 numbers of plastic tanks each of 49,987 litres (11,000 gallons) capacity were also offered on hire to public.

The Standing Committee feel that effective steps are required to be taken to ensure equitable distribution of water till execution of augmentation schemes is completed.

FIRE BRIGADE DEPARTMENT

27. During the year, the total number of Fire Stations was 14, viz., 11 in the City proper and 3 in the Suburbs as in the previous year.

The Fire Brigade received during the year 4,055 calls (for City, Suburbs and Extended Suburbs) as against 3,857 calls during the preceding year. Out of these 2,261 calls were for actual fires as against 2,114 calls during the preceding year. 606 calls were false alarms of which as many as 367 were due to malicious interference with street alarms as against 275 in the preceding year. 1,188 calls as against 1,227 in the preceding year were for special services, such as house collapses, rescue works, etc.

The City was served by 213 fire alarm posts (including 28 private ones).

There were 21 serious fires during the year. The estimated total loss to property damaged by the fire was about Rs. 2,29,06,469 as against Rs. 2,46,47,953 during the previous year and the total value of the property involved was worth Rs. 304.14 crores, as against Rs. 146.13 crores in the preceding year.

During the year 42 persons lost their lives due to burns of which 23 were males and 19 were women.

211 persons received minor injuries and 69 persons lost their lives in 327 incidents of house collapses during the year.

The approximate quantity of water used in extinguishing fires was 2,89,70,110 litres out of which 1,75,57,200 litres were drawn from Municipal mains and the rest from the sea, wells, ponds, etc.

The total number of calls for Ambulance Service within the limits of Greater Bombay received during the year was 4,719 of which 1,034 were for accidents, 400 for maternity cases and 3,279 for hire cases.

First-Aid was rendered by the Ambulance staff on 131 occasions as against 195 occasions in the previous year.

The annual maintenance cost of the Fire Brigade Department including the ambulance service but excluding the Supervision Charges and Provident Fund, Pension and Proportion of General Supervision and Revenue and Debit Charges, etc., was Rs. 29,36,375.

PUBLIC GARDENS

28. During the year under report, the Department maintained 291 sites for public recreation, including 141 Gardens 20 Fountains, 8 Band Stands, 28 Traffic Island gardens, 14 Statues and 4 Box Hedges in the City Suburbs and the Extended Suburbs.

Botanical Specimens were supplied to the colleges and institutions free of charge and facilities were given to the batches of students from various colleges, schools and institutions for study in the garden.

The Standing Committee feels that gardens and open spaces, being the lungs of the City, be maintained properly and development of sites reserved in the Development Plan for such purposes should be undertaken, as early as possible. At the same time, the Executive should see that efforts are made to ensure improvement in the maintenance of existing gardens and recreation places.

VICTORIA AND ALBERT MUSEUM

The total number of visitors during the year was 8,50,040 as against 7,62,214 in the preceding year.

29. The Corporation under their Resolution No. 2761, dated the 30th March 1973, have approved the proposal to rename the Museum as "Dr. Bha'u Daji Lad Museum".

The amount realised by the levy of admission fee was Rs. 22,708 as against Rs. 21,053 in the preceding year. The total expenditure on the maintenance of the Museum, during the year was Rs. 74,311.00 as against Rs. 59,636.00 during the preceding year.

MUNICIPAL FREE READING ROOMS AND LIBRARIES

30. As per Corporation Resolution No. 2256, dated the 18th March 1971, 20 Municipal Free Reading Rooms and Libraries out of 26 in Greater Bombay were managed by the Mumbai Marathi Grantha Sangrahalaya. The total number of new books purchased in Libraries in the City and Suburbs was 219 and 163, respectively, during the year under review and the number of visitors to the Reading Rooms and Libraries in the respective areas was 79,626, and 14,836 as against 74,336 in the City and 15,336 in the Suburbs, during the preceding year which indicate rise in number in the City and fall in the Suburbs. The income from the Libraries and Reading Rooms in the City and Suburbs stood at Rs. 10,931 and Rs. 1,614, respectively.

CENTRAL STORES

31. The work done by this Department includes invitation of tenders, award of contracts, placing of purchase orders, etc.

Tenders were invited for the purchase of stores, during the year under report, in 437 cases as against 348 in the previous year and the number of contracts entered into for the various scheduled articles was 390 as against 371 in the preceding year.

2,078 orders for the purchase of stores against 2975 in the preceding year were placed with contractors and other dealers. Against these purchases and stock on hand, about 31,327 indents from the consuming Departments were complied with and 3854 Sales Memos were preferred for materials supplied to Municipal Contractors against Department's authorizations.

Scrap and obsolete articles amounting to Rs. 14,980.75 were also disposed of by sale during the year under report. At the close of the year, the department had, on hand, stores of the value Rs. 1.08 lacs against Rs. 71.93 lacs in the preceding year.

For the maintenance of the Central Stores, total expenditure of about Rs. 6.47 lakhs was incurred and an amount of Rs. 71,954 lakhs was realised by the sale of tender forms, remittance, legal charges, forfeiture of the tender deposits etc., during the year under report. Scrap and obsolete articles fetched an amount of approximately Rs. 15,000.

During the year under report 4258 Bills were received. The Standing Committee feel that along with the number of Bills received, the number of Bills settled and those remaining unsettled should also be universally shown in the report in future.

LICENCE DEPARTMENT

32. During the year, the amount collected by way of licence fees, permit fees and transfer fees was Rs. 6,66,864 lakhs.

From the permits issued for exhibiting sky signs, advertisements, etc., the total revenue realised was Rs. 14.14 lakhs in the City, Rs. 3.12 lakhs in the Suburbs and Rs. 0.52 lakhs in the Extended Suburbs, the corresponding figures for the last year being Rs. 18.72 lakhs in the City, Rs. 3.13 lakhs in the Suburbs and Rs. 0.48 lakhs in the Extended Suburbs.

The Department instituted 2,859 cases in the City, 1,306 cases in the Suburbs and 371 cases in the Extended Suburbs for offences under Sections 328A, 328B, 394 and 313(1) of the Bombay Municipal Corporation Act. The total amount of fines inflicted was Rs. 1,57,615 in the City, Rs. 80,870 in the Suburbs and Rs. 30,760 in the Extended Suburbs.

The number of squatters' and hawkers' licences issued were 68,605 in the City, 12,736 in the Suburbs and 513 in the Extended Suburbs. The amount realised therefrom was Rs. 17,11,415 for the City, Rs. 4,79,168, for the Suburbs and Rs. 1,58,439 for the Extended Suburbs, respectively.

Since December 1970, no new licences are being issued. A Committee appointed by the State Government for examining the issue of new licences was dissolved and the whole issue is now under consideration of the Committee appointed by the Corporation.

During the year under report, 2,010 auction sales of the articles seized by the encroachment removal staff but not redeemed by the parties were held and amount of Rs. 32,450 was realised as against Rs. 56,531 last year.

With a view to co-ordinate the encroachment removal work, the Asstt. Superintendent of Licences has been put up in overall charge of encroachment Section since December 1972.

The number of unauthorised hawkers and squatters have been found to be increasing at every nook and corner of the City, particularly on the footpaths, making it a hindrance to the pedestrians every day. Even after the introduction of Mobile Courts recently both in the City and Suburbs to bring to book such unauthorised hawkers and squatters and thus reduce the nuisance as far as possible, the nuisance has not abated. The Committee, therefore, feels that the nuisance would increase, unless the efforts to minimise this nuisance are maximised in right earnest.

SHOPS AND ESTABLISHMENTS

33. The total number of establishments under the various categories including Theatres, etc., on 31st March 1973 was 1,02,188 in the City, 29,247 in the Suburbs and 15,563 in the Extended Suburbs as against 97,688 in the City, 26,832 in the Suburbs and 14,028 in the Extended Suburbs in the last year.

During the year under report, 1,105, 285 and 115 complaints, respectively, pertaining to City, Suburbs and Extended Suburbs, were received in addition to complaints pending from the preceding year out of which 1,159, 281 and 97 were investigated leaving 35, 13, and 19 complaints pending at the close of the year.

At the beginning of the year 3,625, 1,258 and 146 prosecutions were pending while 4,912, 1,555 and 756 new prosecutions were instituted during the year. Of these prosecutions, 4,225, 1,468 and 11 resulted in convictions, 11 and 6 in acquittals and 300, 60 and 105 were withdrawn. The number of cases pending at the end of the year was 4,001, 1,279 and 142. The total amount of fines realised was Rs. 1,72,595, Rs. 50,200 and Rs. 22,915 as against Rs. 2,12,107, Rs. 62,250 and Rs. 19,635 in the previous year.

The total expenditure incurred in the administration of the Shops and Establishments Act and the Payment of Wages Act, 1936, during the year under report was Rs. 6,80,366, Rs. 1,88,993 and Rs. 97,413 for the City, Suburbs and Extended Suburbs (exclusive of Provident Fund, Leave Contributions and Supervision Charges) against which a grant-in-aid of Rs. 3,07,234 was received from Government for the year 1972-73 for meeting part of the expenditure incurred during the year 1971-72. The total income by way of Registration fees, etc., for the year amounted to Rs. 50,73,44.17, Rs. 1,23,353.51 and Rs. 67,851.19 for the City, Suburbs and Extended Suburbs, respectively. Thus the total income including Government grant was Rs. 7,29,680.17 for the City, Rs. 1,87,562.51 for the Suburbs and Rs. 88,540.19 for the Extended Suburbs.

210 complaints pertaining to the Payment of Wages Act in the City, 40 for the Suburbs and 14 for the Extended Suburbs were received. 4 complaints in respect of City and 3 complaints in respect of Suburbs and 1 in respect of the Extended Suburbs were pending disposal at the close of the year under report.

The Standing Committee regrets to note that even after the creation of special mobile courts to deal with the unauthorised encroachments stalls and hawkers from the roads and footpaths, the Executive has not been successful in removing such hindrances in accordance with the provisions of the Bombay Municipal Corporation Act and is, therefore, of the considered opinion that frequent actions should be taken with the help of the Mobile Courts against the unauthorised hawkers occupying road spaces on all important roads and near the Markets, to minimise the hindrances created by them for the smooth flow of traffic both vehicular and pedestrian in the interest of public.

MARKETS AND SLAUGHTER HOUSES

34. The total income of the Department for the City, Suburbs and Extended Suburbs during the year was Rs. 100.69 lakhs as against Rs. 98.42 lakhs in the previous year showing an increase of Rs. 2.27 lakhs.

During the year there were 66 Municipal and 20 private markets. The number of outside meat shops was 204 in the City, 279 in Suburbs and 112 in extended Suburbs. The licence fees realised from private markets and outside meat shops were Rs. 93,818 and Rs. 11,350, respectively, in the City. The work of collecting scale fees at the Mahatma Jyotiba Phule Market continued to be carried out departmentally and the revenue collected therefrom amounted to Rs. 16,56,912 as against Rs. 16,12,016 during the previous year.

Surprise raids to detect the smuggling of animals and also the import and sale of contraband meat and unauthorised slaughter as also insanitation and congestion in markets were carried out during the year. During the year 43,261 kgs. of contraband meat was seized and destroyed. The fine imposed amounted to Rs. 52,713.

The total number of animals slaughtered during the year in the City was 15,90,572 as against 14,91,384 during the previous year.

The revenue derived from the source amounted to Rs. 23,43,411 as against Rs. 27,88,266 during the previous year.

All the Units of New Abattoir at Deonar commissioned during the previous year, continued to work throughout the year under review. The total gross revenue collected was Rs. 10.69 lacs.

The Standing Committee feels that more attention should be paid to the cleanliness of our markets and adequate marketing facilities should be made available to the citizens at suitable sites particularly in the suburbs which lack in them.

MUNICIPAL PRINTING PRESS

35. During the year under report 550½ metric tons of paper was purchased. The total number of printing jobs carried out was 8,975 and the number of pages printed was 56,259 as against 10,906 and 46,452, in the preceding year. The total quantity of paper consumed during the year under report was 485½ metric tons as against 417½ metric tons in the previous year.

The transactions of the Press for the year closed with a working surplus of Rs. 3,10,245 on the total turnover of Rs. 41,64,401 as against the surplus of Rs. 59,416 (1970-71) and surplus of Rs. 74,009 (1971-72), on the turnover of Rs. 33.05 lakhs and Rs. 35.64 lakhs, respectively for the previous two years. The labour staff as on 28th February 1973, consisted of 348 workers as against 295 on the 28th February 1971 and 308 on 29th February 1972.

The Press is working in two shifts and the Press labour relations are cordial as their grievances were redressed on the spot wherever practicable.

The Standing Committee regrets to note the inordinate delay in printing of proceedings of the Corporation and its various Committees inspite of assurances given by the Commissioner to supply the printed papers in time to the Members of the Corporation. The Standing Committee are also not happy about the hap-hazard way in which Agendas of the Corporation and the various Committees, are circulated due to non-receipts of various printed Items from the Press, which results in consideration of the Items being postponed. The Standing Committee is of the opinion that strict supervision is necessary for efficient working of the Press and defects in its working should be eliminated. The Committee is of the view that as the work of printing in Marathi has increased, it is necessary to effect extension to the existing premises in order to accommodate the Marathi Section of Printing and the executive should take prompt measures for the same instead of awarding contracts to private Presses for getting the work done.

K. E. M. Hospital

36. The scheduled bed strength of the Hospital during the year was 1,450. Throughout the year, there was constant overcrowding in the Hospital as usual particularly in the Children Wards and the Medical and Surgical Wards for females. The total number of inpatients admitted during the year was 62,477 as against 61,840 during the preceding year. The average number of days each patient was resident was 11.3 days as against 11.1 days in the last year. The average cost per in-patient per day was Rs. 26.64 as against Rs. 24.34 in the previous year.

The total number of new out-patients treated was 3,94,152 as against 3,78,013 in the previous year. The out-patients attendance (New and Old) including oasualty patients during the year came to 7,52,098, bringing the average total attendance to 2,466 per day. 27,239 operations were performed on in patients and 47,371 operation were performed on out patients.

The Dr. Jivraj N. Mehta Pharmaceutical Laboratory attached to the Hospital manufactured many injectables viz., 1,34,627 transfusion bottles 500 ml. (11, different type) 8,115, A. C. D. bottles (80 cc.) vials, 100,50 and 100 m/4 types) 13,820 bottles bulk injections and sterile solutions (six types) 2,740 litres stains and solutions for clinical use (12 types) 513. The Blood Bank worked satisfactorily and during the year 9,770 Blood samples were supplied for transfusion out of Blood samples collected; 3,82 were from voluntary donors and 1,196 from relative donors and 2,659 from professional donors. 1,288 samples were brought from other hospitals. An amount of Rs. 29,301.55 was paid from the Poor Box Charity Fund on payment to the professional donors.

The Family Planning Centre which is aided by the Government of India, performed 357 vasectomy operations and 794 sterilization operations. The total number of cases registered was 3,542 and the total attendance was 9,231.

2481 Food Handlers working in hotels and restaurants in the City were referred to the hospital by H. O.'s Department from 1st January 1972 to 31st December 1972 for examination, of which only 1,496 persons attended. 473 persons did not give their stools, etc., for pathological examination and hence their reports were pending.

The total expenditure incurred during the year for the maintenance of the Hospital including liabilities at the end of the year but exclusive of the cost of extension scheme was Rs. 270.35 lacs approximately as against Rs. 195.52 lacs in the previous year.

Seth G. S. Medical College

37. During the year under report 160 admissions were made. There were 1,153 students on the roll, out of which 460 were female students.

There are three Hostels attached to the Seth G. S. Medical College. Male Students Hostel has 148 rooms accommodation and Ladies Hostel has 36 rooms accommodation and Hostel situated at Naigaum meant for Interns has 56 rooms accommodation. 501 Male students and 140 Female Students have taken advantage of these hostel accommodations during the year.

The different departments of the College and the Hospital, in addition to their normal teaching and departmental works, conducted various researches under the auspices of the Indian Council of Medical Research, Council of Scientific and Industrial Research, K. E. M. Hospital and Seth G. S. Medical College Staff Research Society and through help of some pharmaceutical firms, etc.

The progress of other activities like Library, Museum, Gymkhana etc., was satisfactory. Interns participated in the scarcity relief programme in rural areas of Maharashtra (Shirur, 3 hirwat and Latur)

Seth A. J. B. Municipal E. N. T. Hospital

38. The Hospital has a provision for 104 beds and all the 104 beds were commissioned for the use of in-patients, during the year under report. The total number of patients admitted in the Hospital including those brought over from the previous year during the year was 6,123 out of which 5973 were cured, 47 were unchanged, 21 left against medical advice and 10 died leaving 72 patients under treatment in the Hospital at the close of the year. The daily average attendance of out-patients was 280.32.

In all 5,323 operations were performed on in-patients during the year.

An amount of Rs. 16112.03 was collected in the Poor Box Charity Fund. It is gratifying to note that a gift shop through which medicines and injections are sold to patients at cheaper rates is being run by the Fund.

Bai Yamunabai L. Nair Charitable Hospital

39. The Hospital has an accommodation of 713 beds, fully occupied throughout the year. During the year, daily number of in-patients on an average was 854.69 in the Hospital as against the scheduled bed strength of 713. The total number of patients admitted during the year was 34,855 as against 32,964 during the previous year. The total number of in-patients treated was 34,855. The average cost per day per in-patient was Rs. 25.80 as against Rs. 25.03 during the previous year.

The total number of out-patients treated was 13,07,051 as against 11,09,042 during the previous year and the average number of out-patients attendance per day was 4,285.41 as against 3,624.32 of the previous year.

The Department of Pharmacy during the year also in addition to its nominal Service shared the responsibility by supplying sterile material as well pharmacy manufactured medicines to the famine relief camps set up at different places in the Maharashtra State.

The Bombay Municipal Corporation Dr. Bhajekar Hospital at Khetwadi continued to be under the supervision of the Dean B.Y.L. Nair Charitable Hospital with the scheduled bed strength of 60.

The expenditure incurred on the maintenance of the Hospital including liabilities at the end of the year amounted to Rs. 1,27,94,116.82 including repairs as against Rs. 1,43,17,800.83 for the previous year.

Topiwala National Medical College

40. The College had 627 undergraduate students on the roll at the close of the year, out of whom 157 were lady students. Besides, there were 428 post-graduate students including 155 lady students. 126 students including 42 lady students were registered for Diploma Courses of the College of Physicians and Surgeons of Bombay.

The total expenditure incurred on the maintenance of the College amounted to Rs. 27.94 lacs as against 20.39 lacs during the previous year. The total income by way of tuition fees, miscellaneous, etc., receipts amounted to Rs. 3.27 lacs as against Rs. 3.30 lacs during the last year.

The total number of books added to the Library during the year was 978, out of which 514 were received by way of donations. The Library had at the end of the year 19,016 books as against 18,151 in the previous year.

Research Society (T. N. M. College)

The Research Society is functioning at this institution for the last eight years. 14 Research Projects were sanctioned by the Society during the year under report. The Society sponsors lectures and seminars by prominent clinicians and scientists from India and abroad. A Bi-monthly 'News Letter' is published giving information about departmental activities of an academic nature. A sum of Rs. 6,720 was received from three different Pharmaceutical firms during the year under report for carrying out clinical trials on their products. A grant of Rs. 2,500 was received during the year under report as a grant-in-aid from the Municipal Corporation of Greater Bombay. During the year under report 2 new Members were enrolled as ordinary members.

Nair Hospital Dental College

41. During the year 1972-73, 54 students including 17 girls passed the Final B. D. S. and 7 male and 2 female students passed M. D. S. Examination of the Bombay University from the College. The College has 123 Dental Chairs, 100 Dental Units, 120 Bench Type Engines and 4 Dental X-Ray Units and other equipments to give dental treatment on most modern lines and also to facilitate teaching of dentistry. During the year, 95,861 patients were treated as against 81,874 during the previous year including 21,000 municipal school children. The total expenditure incurred was Rs.16.73 lacs as against Rs. 15.50 lacs in the preceding year and the total revenue was Rs. 184,482.65 as against Rs. 16,7,763.01 during the preceding year.

1195 sets of the upper and lower Artificial Teeth, 631 Partial sets of Teeth, and repairs to 314 sets of Teeth were given free to poor deserving patients from the Poor Box Fund.

Lokmanya Tilak Municipal General Hospital, Sion, and Annapurnabai Deshmukh Hospital for Women and the Lokmanya Tilak Municipal Medical College, Sion

42. The Hospital completed 25 years of its existence during the year under report. The bed accommodation of the Hospital was 524 (464 non-paying, 50 paying, and 10 reserved for B. E. S. & T. Employees). 43,007 patients were admitted for indoor treatment during the year as against 44,656 during the preceding year. The daily average number of in-patients was 838.3 as against 890.4 in the preceding year. The average number of days each patient was resident was 7.1 as against 7.2 during the preceding year.

The total average cost per day per in-patient was Rs. 34.40 as against Rs. 26.79 in the preceding year. The highest number of in-patients attendance on a single day was 994.

The total number of new out-patients was 2,51,191 with a daily average of 824 as against 2,53,010 and 835, respectively, in the preceding year. The highest number of out-patients attendance on a single day was 968 as against 945 in the preceding year.

The Paying Bed Scheme which started from 1st September 1951 worked satisfactorily. The number of patients admitted in the General and Special rooms during the year was 988 as against 1,161 during the preceding year.

Audiology and Speech Therapy Department started from January 1970, gave satisfactory treatment to 1,552 patients as against 1,149 during the preceding year.

The Flying Maternity Squad donated by the Indian Red Cross Society to the Corporation from 11th October 1971, is rendering valuable service to the female patients in difficult labour cases. The Squad attended 63 calls during the year under report.

The approximate total expenditure of the Hospital during the year under report was Rs. 124 lakhs as against Rs. 105 lakhs in the preceding year.

The Lokmanya Tilak Municipal Medical College attached to this Hospital which was started in November 1964 entered into its ninth academic year. The College has a strength of 388 students.

The total expenditure of the College amounted to Rs. 3,80,556 during the year under report as against Rs. 2,74,263 during the previous year. The revenue of the College by way of tuition fees and miscellaneous receipts, etc., amounted to Rs. 1,34,201 as against Rs. 1,34,501 for the previous year.

Group of T. B. Hospitals, Sewri

43. The total number of beds for T. B. patients at the Corporation's disposal was 1,518 viz., Group of T. B. Hospitals, Sewri 830 Isolation Centre attached to the Ramkunwar Daftary T. B. Clinic, Dadar 88, and Sarvodaya Hospital, Ghatkopar, 600 reserved for the Corporation). The total number of patients treated was 7,888 as against 6,801 during the previous year. Of these 5,821 were discharged as improved, 56 were non-Tuberculosis cases, 501 left prematurely against advice 668 died and 873 remained under treatment at the close of the year. Mortality figures revealed high incidence in the age group of 26-30 years. The ratio of death percentage of the total number of patients treated was 9.6 per cent. Major lung operations were performed in 489 cases.

As many as 3,704 patients attended the follow-up examination for check-up after discharge from the Hospitals during the year.

The total expenditure on Group of T. B. Hospitals, Sewri, was Rs. 56,92,392 during the year. The average expenditure per patient per day was Rs. 20.74 as against Rs. 18.95 in the previous year.

The expenditure incurred during the year by the Corporation for treatment, etc., at the Sarvodaya Hospital, Ghatkopar, was Rs. 2,82,18.10 lakhs as against Rs. 15.89 lakhs for the previous year. The expenditure incurred by the Corporation on the 4 T. B. Clinics attached to G. T. B. Hospitals was Rs. 11,86,830. The total expenditure thus incurred by the Corporation on Tuberculosis Services amounted to Rs. 97,01,032.

Poor Box Collection including fees for issue of Medical certificates was Rs. 21,947. This collection is utilised for the benefit of the poor and needy patients and incidental expenses in consequence.

Legal Department

44. During the year under report, the Department continued to attend to contested matters and other legal proceedings in the Supreme Court, the High Court, the City Civil Court, the Small Causes Court and the Police Courts as also to other legal matters. During the year, the Department received 28,716 files as against 27,533 during the preceding year.

The Standing Committee re-iterates its desire that interests of the Corporation should be fully safeguarded in dealing with Court cases, besides taking prompt steps in expediting litigated cases.

Education

45. At the close of the year, there were 5,05,249 pupils in 1973 Schools and 102 classes in Greater Bombay, the number in the City being 2,40,803 pupils in 492 Schools and 44 classes, in the Suburbs 1,88,291 pupils in 338 Schools and 43 classes in the Extended Suburbs 76,155 pupils in 43 Schools and 15 classes. During the year, there was a net decrease of 23,553 pupils in Municipal Schools. The total number of teachers in Greater Bombay at the end of the year was 14,989 including special teachers.

With a view to avoiding over-crowding in classes and to facilitate proper attention to pupils it was laid down that ordinarily a class should not have more than 50 pupils. In schools housed in hired residential buildings, over-crowding on account of inadequate space was an impediment in the way of efficient teaching. Out of 1,075 schools and classes, about 657 schools and classes were required to be run in two sessions and more than two sessions for want of sufficient accommodation. However a programme of construction of new Municipal owned school buildings as required to be restricted during the course of the year under review on account of paucity of funds.

The number of Municipal owned buildings at the beginning of the year in Greater Bombay was 218. 5 schools were built and extension to 3 school buildings was carried out and 26 buildings were under construction during the year under report. The total number of municipal owned school buildings in Greater Bombay at the end of the year was 223. Wherever possible, additional floors were constructed on some Municipal school buildings thereby increasing the number of class-rooms.

632 schools (including classes) were housed in Municipal owned school buildings. 413 schools including classes were housed in rented buildings and 30 schools were housed in rent-free buildings. Due to acute scarcity of accommodation in the City it has become practically impossible to acquire additional accommodation except by way of constructing buildings or extending the existing ones to meet the yearly increase in the number of pupils.

The Standing Committee is, however, of the opinion that in order to minimise congestion of pupils in the Municipal Schools located in the rented premises as also in the class rooms and further to reduce the avoidable expenditure in the rented premises housing Municipal Schools, by way of rents, etc., the sites which have been reserved for schools under the Development Plan and which are in possession be developed by giving them priority and also efforts be made to acquire and to construct more buildings on vacant plots so reserved.

Rahimtulla Currimbhoy Municipal Urdu Teachers' Junior College of Education, Imamwada

During the year under report, there were 137 trainees for D. Ed. Course of 2 years. Out of the 77 trainees sent up for the Second year D. Ed. Examination held in April 1972 all have passed the D. Ed. examination. Thus the result was cent, per cent.

Municipal Urdu Teachers' Junior College of Education, Mahim

During the year under report, there were 47 trainees, in the D. Ed. Course, who appeared for the D. Ed. 1st Year Examination held in April 1973 at the supplementary examination held in October 1971.

The Corporation continued to impart vocational education through 33 vocational Classes in 22 Vocational Schools.

The Educational Guidance Centre opened to help students to receive educational, vocational and developmental Guidance continued to function. The Centre undertook the extra-curricular activities, such as, Guidance, Conference, Career Information Centre at each Ward. Nearing 5000 pupils attended the lectures arranged by the Centre.

About 10,000 Teachers took advantage of the three Teaching Aid Centres at Gilder Tank Building, Hindu Colony, Dadar and Unnatnagar Municipal School Building, Goregaon and prepared various teaching aids on different subjects :

Medical Inspection of School Children

In all 1,35,910 pupils from the Municipal Schools both Primary and Secondary were medically examined out of whom 1,14,714 were found to be suffering from one defect or the other. The defects, such as Scabies, Ringworm, etc., noticed were treated at the Municipal Dispensaries. The Municipal School Children were also treated at the School Clinics attached to K. E. M. Hospital, Nair Hospital, etc., During the year under review 63,757 new and old cases were treated at the Clinics. Screening of suspected cases of T. B. was carried out at the Municipal, T. B. Clinics. Suspected cases of Tuberculosis and Leprosy were directed to Special Clinics for investigation and treatment and were not allowed to attend schools if found infectious. All Municipal Schools have been supplied with emergency outfit (First Aid Medicines).

The total number of Aided Schools in Greater Bombay during the year was 231 out of which 120 were in the City, 70 in the Suburbs and 41 in the Extended Suburbs as against 218 in the previous year. The total number of teachers in Aided Schools was 2,013 (1,741 ordinary and 272 special) imparting education to 72,088 pupils. The number of pupils in Aided Schools in the City, Suburbs and Extended Suburbs increased during the year under review from 67,893.60 to 72,586. The total number of Recognised Schools not receiving Grant-in-Aid was 390 (197 in the City, 133 in the Suburbs and 60 in the Extended Suburbs) with 4,026 teachers imparting education from 1,27,387 to 1,30,204 pupils.

The total expenditure for the year amounted to Rs. 10,41,54,286 which was met from Municipal contribution (Rs. 7,45,35,865), Government Grant, (Rs. 78,80,000), Education Cess (Rs. 1,68,41,105) and miscellaneous receipts (Rs. 14,24,227).

Secondary Schools

During the year under report 22 new secondary schools were opened. During the year there were 1,466 divisions and the teaching staff was 1,178. The total number of pupils attending these schools was 63,585.

The Standing Committee also feels that the quality of Education should be improved by giving frequent visits by the Supervisory Staff.

Research Unit

46. The Research Unit carried out special experiments in selected schools on several Primary Educational problems, such as, "Identification of the gifted children from the Municipal Primary Schools and preparation of the programme for such Children" etc. projects Pre In-service Training Classes for primary teachers to be recruited were conducted during the year and training was given to about 25 teachers of different languages.

The Graded Assignments in Languages and Arithmetic for Std. III have been prepared and are ready for distribution. In service Training Classes for teachers teaching Science were conducted and guidance and orientation was given to about 500 teachers.

Special Classes for Mentally-Retarded Children

The Corporation has started Lions Juhu Centre for mentally retarded children in collaboration with Gujarat Research Society and Lions Juhu. The education is imparted through Marathi, Gujarati, Hindi and English by trained and experienced Staff. The pupils are taught craft work and paper making work also. Special Classes have been started on experimental basis from June 1971 in 'C', F/South, 'R' and 'N' Wards. Teaching aids specially meant for mentally retarded children are provided in these classes the pupils are also medically tested regularly by psychologists. These pupils are not benefitted from attending ordinary Schools, so they are provided more and more benefits. During the year under review arrangement is also made for development of gardening and such other recreational activities in the schools through which the pupils can develop their mental growth.

Extra Curricular Activities

Several functions such as Sharad Utsav, School Anniversaries, Independence Day and Republic Day were celebrated in a number of schools for which special invitations were given to the parents so as to bring them into close contact with Schools. Vacation-Coaching Classes at 21 Centres were conducted and the children were promoted to the next higher standards after successful completion of these Courses. Educational Seminars were also organised, Vacation Libraries were conducted at 74 centres for the benefit of the Children.

School Feeding Programme

Under School Feeding Programme, all children of Municipal Primary Schools in Stds. I to IV were catered with 200 ml. of double-toned pasteurised milk in sealed bottles on every working day except during the month of April when the examinations are being conducted. During the year under review, about 2,00,000 children were getting 15 to 16 gms. of biscuits containing 15 per cent. protein on every alternate school working day. Besides nearly 70,000 children were catered with peanuts (groundnuts and sweet buns). In addition to these under Buns Programme about 70,000 children per day were supplied each with a sweet bun of 50 gms. Sukhadi was also given for 7,000 children of Dharavi on experimental basis for about 20 days only.

LABOUR DEPARTMENT

47. During the year, 27 Recognised Trade Unions represented Municipal employees, with a view to promote cordial relations between the staff and the Administration. The total number of Joint Councils representing labour, Subordinate, Executive and Nursing staff which continued to function was 22, their scope being wide enough to permit discussions on various matters relating to grievances and conditions of service of the staff. A four-stage grievance procedure was continued in all Departments for redressal of the grievances of the employees. Five new Unions were recognised during the year under report, viz. (1) Senior Medical Teachers Association; (2) Brahattar Bombay Mahanagarपालिका Madhyamik Shikshak Sangh (3) Brahan Mumbai Mahapalika Shikshak Sabha, (4) Bombay Municipal Hindi Shikshak Parishad and (5) Graduate Teachers' Association.

The Department dealt with 18,091 complaints (including suburbs) as against 17,683 in the previous year regarding service conditions, recruitments, promotions, transfers, etc. Of these complaints 15,260 were redressed, 7,78 were found not genuine cases and 53 cases were pending at the close of the year.

The recreational, educational, hygienic, cultural and social activities, indoor as well as outdoor, organised by the Welfare Branch of the Department, for the benefit of Municipal workers and their dependents, were continued. The average daily attendance of adults and children at the Welfare Centres was 2,540 and 2,700, respectively, as against 2,515 and 2,640 during the preceding year. A Welfare Centre was opened at Mitha Nagar Colony, Goregaon (West) during the year.

Inter ward and Inter departmental competitions were held during the year under report at Birla Kreedha Kendra from 4th January to 2nd February 1973. 16 Welfare Centres participated in the competitions.

Under the scheme for granting scholarships to the children of Municipal employees 582 applications were received and 178 scholarships were granted to applicants for higher education and 238 for secondary education. The total amount given by way of scholarships to the municipal employees was Rs. 40,980. Likewise of the 22 applications received from medical assistance 181 applications involving an amount of Rs. 17,848 were entertained. The total strength in Scout and Guide Sections was 4,481, as against 4,522 during the preceding year.

Publicity Department

48. The Department participated in various important celebrations, such as, World Health Day, National Cleanliness Day, World Leprosy Day, Social Education Week, etc., and published a Civic Guide-Cum-Diary, 1973, in English, Marathi and Gujarati.

All necessary assistance was extended to the Education Department for holding the Childrens Rally at Vallabhbhai Patel Stadium where Smt. Indira Gandhi, Prime Minister of India was the Chief Guest. Necessary Co-operation was also extended for the activities, campaigns, etc., carried out by the Citizens Committee for Clean Bombay Campaign. Necessary assistance was also given to departments holding various official functions and public meetings connected with civic matters.

MUNICIPAL SWIMMING POOLS

M. G. M. O. Swimming Pool

49. (a) During the year under report, the total reservation hours of the Pool by private parties were 587 which brought a revenue of Rs. 14,220. Facilities to 14 Polio crippled children were given free of charge. As many as 54,159 casual swimmers including labourers and factory workers availed of the facilities of swimming. Fifteen members of the Pool were included in the Maharashtra State Aquatic Association's team for participating in the National Aquatic Championship held at Madras in November 1972. Free Swimming facilities were provided to the blind persons by granting reservation of the Pool for two hours in a week. 50 per cent. concession in fees to the school going children was granted during the year under report.

5,948 members joined the Pool during the year under report and 3,534 beginners were trained during the year. An amount of Rs. 2,57,680 was collected by way of fees as against Rs. 1,98,435 during the previous year. The expenditure during the year was Rs. 1,55,382.

Sardar Vallabhbhai Patel Swimming Pool, Kandivli

(b) 2,533 members joined the pool. 1,504 beginners were trained in swimming. The collection of fees during the year was Rs. 86,259 as against Rs. 80,700 of the previous year and the total expenditure during the year was Rs. 90,546.

Ghatkopar Lions Municipal Swimming Pool, Ghatkopar

(c) 1,665 members joined the Pool. 979 beginners were trained in swimming. One Educational Institution was allowed to have swimming facility at the Pool at concessional rate. The collection of fees during the year was Rs. 1,01,078 and the expenditure Rs. 75,580.

Administrative Officer (Enquiries) Department

50. The Department functions in two Sections viz., (1) Enquiries and (2) Stock Verification.

812 cases of misconduct and breach of rules were dealt with during the year as against 736 cases in the previous year. In 148 cases, punishments varying from dismissal, removal from service to censures and warnings were meted out to 180 employees. In 133 cases enquiries were in progress at the end of the year.

The distribution of relief grants from the Mayor's Fund to the families affected by fires, house collapses and other natural calamities was carried out by the Stock Verification Section in addition to their normal work.

This Section also helped the Enquiries Section in keeping a watch at different places and times for detection of malpractices and investigation work such as scrutiny of voluminous records in specific cases.

The number of inquires pending at the end of the previous year was 94 and the Standing Committee in its review of the report for the year 1971-72 had expressed their concern for the inordinate delay caused in finalizing Departmental Enquiries and it was expected that the said number would be reduced to a bare minimum but the Standing Committee is surprised to find that the number instead of diminishing has increased to 133 during the year under review. The Standing Committee hope that special efforts will be made to improve the situation.

The Bombay Civic Journal

51. The Journal besides publishing articles on matters of civic importance during the year under report, started new series " मुंबईचे ऐतिहासिक दर्शन " written in Marathi by the noted historian Prof. N. R. Phatak. The Standing Committee, however, feel that there is much scope for improvement of the Journal particularly making it more informative useful to the citizens so that it can have wider circulation than at present.

Organisation and Methods Division

52. The Organization and Methods Division works as an Advisory unit of the Municipal Commissioner's Office. The work done by this Department includes *inter-alia* standardization of forms and registers, operation of suggestion scheme, re-arrangement of Municipal Records, examination of office procedures and suggesting improvements therein, etc.

Six Classes were conducted to teach Marathi to Municipal employees, including nursing staff, who do not have Marathi as their mother tongue. (1) One Book वेतन वितरणपरिपत्रक giving English and Marathi versions, side by side, in respect of pay circulars issued by C. A., D. A., (Sub.) and A. A. (E. E.) was printed and circulated to all the Departments. (2) The quantum of marks was increased for answering questions in Marathi at departmental examinations. (3) Circulars were issued in Marathi. (4) Examinees were allowed to answer the paper in General Knowledge entirely in Marathi.

As the very nomenclature of this Department suggests, the main task of this Department is to re-organise the functioning and streamlining the staff pattern in various Departments and Ward Offices to bring about efficiency and uniformity in the Municipal Administration but the report is silent about the steps taken in that behalf. The Standing Committee very much desire that the main work of the Department should not receive a set back

Productivity Cell

53. The Productivity Cell, established in the year 1968, comprising of specially trained personnel, in the fields of 'Industrial Engineering' and 'Management Techniques' is charged with the task of suggesting ways and means of stepping up efficiency by cutting down waste. One Executive Engineer was in-charge of the Cell during the year. The major problems *viz.* immediate need of all the wards with respect to Roads, Drainage and water supply, preparation of phased programme of construction of camps in connection with establishment of drought relief centre at Khaling Khurd, improvement of the procedure for controlling unauthorised construction, incorporating provisions of National Building Code in the building Byelaws, standardisation of labour gangs and work norms for the Ward Engineering Maintenance Section and Study of requirements of artisans tools. etc, were studied during the year.

PERT-CPM training programmes were carried out for the technical staff. Training Programmes in materials management were conducted for Municipal Hospital Staff. Detailed Manuals for Building repairs, Factory and Drainage pertaining to the Engineering Unit of the Ward Office were prepared.

The centralised technical Library, which has been established to have better co-ordinated effort to disseminate literature has been further developed by additions of new technical books and new memberships.

Bombay Municipal Security Force

54. The work done by the Department comprises investigations including conducting departmental inquiries and of detection of the thefts and pilferage cases of Municipal properties in addition to guarding Municipal Buildings & Installations.

In 149 cases, punishments varying from dismissal, removal from service to censures and warnings, imposing fines, withholding increments, demotion, etc., were meted out. In 47 cases enquiries were in progress at the end of the year.

The Bombay Municipal Security Force is in-charge of Industrial Home Guards Unit of the Municipal Employees. It has 109 members enrolled on it. Industrial Unit of Home Guards continued to function well during the year under report.

Public Health

55. *Population Census.*—The mid-year estimated population of Greater Bombay *viz.* 62,92,000 for Greater Bombay for 1972 has been taken as the basis for working out the rates of vital statistics.

During the period from January to December 1972, 12 Municipal Dispensaries 1 Maternity Home and 2 Blood Banks were opened. Diwalibai Mohanlal Mehta (MAA) Hospital, was opened at Sarvodaya Estate, Chembur, Bombay. 2 New Wards, *viz.*—Paediatric Wards at Harilal Bhagwati Municipal General Hospital, Borivli and K. B. Bhabha Hospital, Kurla, were opened. Dental Clinic at Kolsa Mohalla, Bombay-3 also was opened. 20 beds were extended to the Municipal Maternity Home at Station Road, Goregaon (West).

Birth and Birth rate.—The total number of live births recorded in Greater Bombay during the year was 1,67,821 which were 3,528 more than in 1971 and 8,769 above the average of the *quinquennium* 1967-71. The birth rate was 26.7.

Deaths and Death rate.—The total number of deaths registered from all causes during the year was 58,549 in 1972 as against 57,245 in 1971 being 3,527 more than the mean mortality of the preceding 5 years and the death rate was 9.3 against 9.5 in the year 1971. Out of 58,549 deaths, 34,556 deaths were among males and 23,993 among females. The excess of deaths amongst males may be ascribed to the preponderance of males in population. The death rate among males was, however, actually higher than that among females the male death rate being 9.9 per cent. and the female death rate 9.6 per cent. against 9.8 and 9.4 respectively in 1971. Diseases of the respiratory system claimed the highest number of deaths as in the past with a death rate of 1.8 per 1,000 of population. The causes coming next on the list for the year were tuberculosis 1.0 congenital malformation and diseases of early infancy. 1.0 diarrhoea and dysentery 0.6.

Infant Mortality.—Deaths among infants under one year of age numbered 13,445, which were 472 more than in preceding year and 207 more than the annual average of the previous *quinquennium* 1967-71. The infant mortality rate for the year was 80.1 per 1,000 live births as against 79.0 in 1971.

Maternity and Child Welfare.—During the year under report, services were rendered through 20 Municipal Maternity Homes, four Hospitals with Maternity Wards and 35 Maternity and Child Welfare Centres. The number of deliveries conducted in these Homes was 65,935 during the year. The average stay of mothers at the Maternity Homes was 5 days.

Communicable Diseases.—The total number of cases of infectious diseases reported during the year was 31,706 as against 31,749 in the preceding year. Infectious Hepatitis caused 2,610 attacks and 18.9 deaths. There were no cases of small pox and plague and cholera. Enteric Fever caused 899 attacks and 48 deaths. Diphtheria caused 1,253 attacks and 85 deaths. Tuberculosis took a toll of 6,349 lives and the death rate of Tuberculosis was 1.0 per 1,000 of mid-year estimated population.

844 cases of Acute Anterior Poliomyelitis and 88 deaths thereby were reported during the year. 1,62,080 children were immunised against Polio.

Municipal Group of Tuberculosis Hospital at Sewri has an accommodation for 830 inpatients; besides 600 beds are reserved at the Sarvodaya Hospital, Ghatkopar. The advance cases of T. B. were isolated at the Daftary Municipal Isolation Wards at Dadar, which has an accommodation for 88 inpatients.

During the year 6,65,979 persons were inoculated against Cholera.

Dispensaries

56. The number of new cases treated at the 92 dispensaries and 15 mobile dispensaries were 29,08,104 as against 27,10,545 in the year 1971. In addition to the above dispensary work, women and childrens' clinics were conducted by three part-time lady doctors at six Municipal dispensaries for two hours, thrice a week. The number of new cases treated at these dispensaries was 2,003, 1,808 women and 185 children as against 1,628 in 1971. The total attendance was 12,011. These figures include the visit by lady doctors to patients at their homes. At 35 Maternity and Child Welfare Clinics 3,08,349 new cases, 2,16,297 women and 92,052 children were treated. The total attendance was 7,26,316.

Leprosy.—The control of Leprosy in the City was exercised as before through the Acworth Leprosy Hospital, Wadala, with an accommodation of 500 beds. In addition to this the Institution conducts a well equipped out-patients' clinic the entire cost of which is borne by the Corporation. Besides, the Institution is also conducting 9 Clinics (5 in the City and 4 in the Suburbs and Extended Suburbs), maintained by the Greater Bombay Leprosy Control Scheme. The Corporation also bears the cost on account of 48 beds for voluntary patients domiciled in Bombay and 230 beds for the Bombay resident patients. Besides the payment of cost of Domiciliary Services and Rs. 10,000 for rendering Sulphone treatment, the Corporation pays one third of the recurring expenditure of Greater Bombay Leprosy Control Scheme activities as also the entire cost of Capital Works.

The average daily attendance of patients was 280.7 and the total number of new cases treated at the Acworth Leprosy Hospital Clinic was 4,479. The average daily attendance of patients was 395.42 and the total number of new cases treated at the Greater Bombay Leprosy Control Scheme Clinics was 2,675.

School Health Work

57. During the year, out of about 5,42,460 Municipal primary school children, 1,06,177 children were found to be defective. Of 18,911 students studying in 27 secondary schools, 18,639 were medically examined and 11,518 were found defective. 710 cases with minor ailments among the children were treated in the municipal dispensaries, 2,997 children were referred to the honoraries of the out-patients department for expert-opinion. 248 cases of tonsils were operated at the school clinics. 1,135 children suffering from scabies, ringworms, boils, etc. were treated in the schools by the Asstt. Medical Officer (Schools). 23 students were supplied special aid such as calipers bearing aid etc. 430 children were supplied with spectacles free of charge. 184 children were found suffering from Leprosy out of whom 21 children were disallowed from attending Municipal Schools as they were contagious.

53,604 children from Municipal Schools were B. C. G. vaccinated and 2,65,339 children were given T. A. B. inoculation, 80,680 children were given doses of Diphtheria and Tetanus and 1,14,737 children were vaccinated against small pox.

Kasturba Hospital for Infectious Diseases

58. Except Tuberculosis and Leprosy, patients suffering from other infectious diseases are admitted to the Hospital. The total number of patients admitted during the year was 29,188 as against 31,749 in the preceding year. They included 887 cases of Enteric Fever and 1,197 of Diphtheria and 2,401 of Infectious hepatitis.

There were as many as 4,745 cases of Diphtheria out of which 86 proved fatal showing the fatality rate of 7.4 per cent. The cases admitted were from all parts of Greater Bombay, predominantly from Byculla, Parel, Lalbaug, Sewree, Matunga, Mahim, Sion, Bandra and Andheri H and K Wards.

There were no cases of Small-pox during the year.

The total expenditure of the Hospital during the year was Rs. 53,47,907 as against Rs. 48,68,895 in the preceding year.

59. This year also the Municipal Chief Auditor's Report has not been included in the Municipal Commissioner's Administration Report, as required by Section 137 (4) of the Bombay Municipal Corporation Act.

The Standing Committee are of the considered opinion that every effort must be made by the respective Heads of the Departments to comply with the statutory provisions. The Municipal Chief Auditor's Report would have been of much help to the Standing Committee in their scrutiny of the various facts and figures incorporated in the Report of the Municipal Commissioner. The Report, however, will be forwarded to the Corporation separately when received. The Standing Committee is of the view that after submission of the Report by the Municipal Chief Auditor, the Administration should see that the same is printed within three months from its receipt so as to make it available to Councillors earlier.

Acknowledgement

60. In Conclusion, the Standing Committee desire to record their appreciation of the very valuable services rendered by Shri M. W. Desai who held the office of the Municipal Commissioner throughout the year and whose administrative abilities and financial acumen were of real help to the Committee.

Municipal Corporation Office

Bombay 10th July, 1974.

V. M. PARVATKAR,
Chairman,
Standing Committee

**ADMINISTRATION REPORT
OF THE MUNICIPAL COMMISSIONER
FOR GREATER BOMBAY
FOR THE YEAR 1972-73**

**Herewith a detailed report of the Municipal
Administration of Greater Bombay as required under
Section 124 of the Bombay Municipal Corporation Act.**

**M. W. DESAI,
*Municipal Commissioner
for Greater Bombay.***

GENERAL

CORPORATION, STANDING COMMITTEE, IMPROVEMENTS COMMITTEE AND THE EDUCATION COMMITTEE.

CORPORATION.

Shri R. K. Ganatra, who was elected Mayor at the First Meeting of the Corporation, held on 3rd April 1972, held that Office throughout the year.

2. One hundred and thirty nine Meetings of the Corporation including eight Special Meetings, three Adjourned Special Meetings, one hundred and one meetings of the Special Committees and nine meetings of the Consultative Committees were held during the year.

3. The Corporation accorded Civic Address to Prime Minister, Smt. Indira Gandhi and Civic Receptions to (i) Maharashtra State Kabaddi Mahila Sangh, (ii) The Delegates from Los Angeles-Bombay Sister City Relationship and (iii) Shri V. Shantaram.

STANDING COMMITTEE.

4. Shri H. J. Correa was elected Chairman of the Standing Committee at their Meeting held on 26th April 1972 and held that Office throughout the year.

5. No change took place in the personnel of the Standing Committee during the year.

6. Smt. Deviben S. Dalal was an ex-Officio Member of the Standing Committee on her appointment as the Chairman of the Education Committee with effect from 5th April 1972.

7. One hundred and twelve Meetings including Adjourned Meetings and fifteen Special Meetings including Adjourned Special Meetings were held during the year.

8. No meetings of the Sub-Committees were held during the year.

IMPROVEMENTS COMMITTEE.

9. Shri H. R. Bhugra was elected Chairman of the Improvements Committee at their Meeting held on 15th April 1972, and held that Office throughout the year.

10. No change took place in the personnel of the Improvements Committee during the year.

11. Forty regular Meetings including Adjourned Meetings and two Special Meetings including Adjourned Special Meeting were held during the year. No meeting of the Sub-Committees were held during the year.

EDUCATION COMMITTEE.

12. Smt. Deviben S. Dalal was elected Chairman of the Education Committee at their Meeting held on 5th April 1972 and held that Office throughout the year.

13. No change took place in the personnel of the Education Committee during the year.

14. Sixteen regular Meetings including Adjourned Meetings were held during the year and six Special Meetings including Adjourned Special Meeting were held during the year.

15. (a)(i) Shri P. C. Pandya, M.A., LL.B., M.P.A. (U.S.A.) continued to hold the office of the Municipal Secretary during the year except during the periods from 21-10-72 to 17-2-73 and from 1-3-73 onwards.

(ii) Shri A. J. Avasare, M.A., LL.B., was appointed as Ag. Municipal Secretary during the periods from 21st October 1972 to 17th February 1973 and from 1st March 1973 onwards.

(b) No circumstances arose in this department in which it was necessary to invoke the provisions of the Municipal Servants' Act, 1890.

(c) There was no separate Award or Adjudication during the year 1972-73, so far as this Department is concerned.

LIST OF MEMBERS OF THE CORPORATION WHO HELD OFFICE ON 31ST MARCH 1973.

SHRI RAVJI K. GANATRA, Mayor.

SHRI H. J. CORREA, B.A., LL.B., *Chairman, Standing Committee.*

SHRI H. R. BHUGRA, B.Com., *Chairman, Improvements Committee.*

SMT. DEVIBEN S. DALAL, B.Sc., *Chairman, Education Committee.*

SHRI T. E. KACHWALLA, LL.B., *Chairman, B. E. S. & T. Committee.*

ACHARYA, SHRI S. N.	KULKARNI, DR. R. N.
ALVARES, DR. (SMT.) LILA P., B.A., Dip. S.S.A., Ph. D.	MAHADIK, SHRI V. S., B.A. (Hons.), L.S.G.D.
ANKLESHWARIA, SHRI R. C., B.Sc., B.T., S.T.C./M.Ed.	MAHAJAN, SHRI D. R.
ANSARI, SHRI N. M.	MANTRI, SHRI L. S., B.Com., LL.B.
ANSARI, SHRI P. M.	MATLIA, SHRI S. N.
BAKHALE, SHRI P. P.	MEHTA, SMT. JAYAWANTIBEN N.
BEDI, SHRI M. H.	MEHTA, SHRI KISAN G., B.A. (Hons.), LL.B.
BHAGWAT, SHRI P. B.	MEHTA, SHRI N. D.
BHATT, SHRI HARSHADRAY M.	MEHTA, SHRI RUSI M.
BHOSALE, SHRI D. M. B.A. (Hons.)	MEMON, DR. A.U.
BHOSLE, SHRI V. R.	MORE, SHRI T. S.
BODHE, SHRI N. R.	NAGVEKAR, SHRI V. B.
BOMAN-BEHRAM, SHRI B. K., M.A., LL.B.	NAGVEKAR, SHRI Y. S.
CHAVAN, SHRI G. S.	NAJMI, SHRI A. N., B.A. (Hons.), LL.B., Advocate, High Court.
CHAVAN, SHRI R. N.	NALAVDE, SHRI D. S.
CHHABRIA, SHRI K. P., G.C.D.	NAVALKAR, SHRI P. S., B.A.
CHIKHALE, SHRI H. M.	NIKLANKAR, SHRI P. D.
CHIMBULKAR, SHRI R. K.	PADWAL, SHRI H. P.
CHOGLE, SHRI H. W.	PAI, DR. P. S.
DADIA, SHRI U. D.	PANCHAL, SHRI V. M.
DALAL, SHRI N. C., B.Sc., L.T.C.	PANDYA, SMT. LILYBEN A., B.Sc., (Lond.)
DANAVATE, SMT. PRAMILA M., M.A., G.D. (Art.)	PARAB, SHRI B. A.
DANDEKAR, SHRI S. L., B.A. (Hons.), LL.B.	PARAB, SHRI V. G.
DARWATKAR, SHRI B. S.	PAREKH, SHRI J. G.
D'CRUZ, SHRI C. R.	PAREKH, SMT. TARABEN D.
DEODA, SHRI M. S.	PARVATKAR, SHRI V. M.
DEODHAR, SHRI D. S.	PATEL, SMT. INDUMATI T., B.A.
DESAI, SHRI C. B.	PATEL, DR. S. G., M.B., B.S.
DESHPANDE, DR. SUDHAKAR H., M.B., B.S., D.O.R.L. (Bom.), P.C.G.P. (India.)	PATIL, SHRI A. W.
DHABUWALA, DR. B. M.	PATIL, SHRI D. B.
DHARAP, SHRI V. C., B.A., LL.B.	PATIL, SHRI RAMAKANT P.
D'SOUZA, DR. J. LEON, M.B., B.S.	PATKAR, SMT. GEETA D., B.A., LL.B.
DUBE, SHRI RAMESHKUMAR M.	PUJARI, SHRI L. P.
DUTIA, SHRI G. B.	RAGINWAR, SHRI R. W., Master Mariner.
FERNANDES, DR. SIMON.	RAJDA, SHRI RATANSINH G., B.A., LL.B.
GAIKWAD, SHRI SUMANT S., B.A.	RAMASWAMY, SHRI A. V. T.
GANDHI, SHRI I. P.	RANGNEKAR, SMT. AHILYA P., B.Sc.
GANDHI, SHRI M. M.	SALVI, SHRI D. J.
GAONKAR, SHRI V. G.	SALVI, SHRI D. N.
GAVANDE, SHRI R. M., B.A. (Hons.), LL.B.	SALVI, SHRI R. N.
CAWDE, SHRI B. R.	SATAM, SHRI A. G.
GHOKSHE, SHRI G. D., B.A. LL.B.	SAWANT, SHRI M. M.
GOKHALE, SHRI S. S., B.Sc., B.Ed.	SAWANT, SHRI N. V.
CORE, SMT. MRINAL K.	SHAH, SMT. KANTABAI C.
GUPTA, DR. H. S., M.B., B.S., L.M. (Dub.)	SHELAR, SHRI B. S.
HALDANKAR, SHRI M. S., B.A., B.Ed.	SHETE, SHRI B. H.
INDULKAR, SHRI P. M.	SHINGRE, SHRI D. S.
JAMSANDEKAR, SHRI H. D.	SHROFF, SHRI B. N.
JANI, SHRI S. M., Sahitya Ratna.	SINGH, SHRI D. N.
JILANI, SHRI K. G.	SINGHANIA, SHRI J. Y., M.A., LL.B., Advocate.
JOSHI, SHRI J. K.	SOLANKI, SHRI T. G.
JOSHI, SHRI M. G., M.A., LL.B.	TAWADE, SHRI N. S.
JOSHI, SHRI S. G., B.Sc.	TAWADE, SHRI V. R.
KADAM, SHRI P. R.	TENDOLKAR, SHRI T. S., B.A. (Hons.), LL.B.
KAJRIYA, SHRI J. G.	THAKKAR, SHRI P. V.
KAMALA RAMAN, SMT. B.Sc.	TIKEKAR, SHRI V. M., B.A., LL.B.
KARA, SHRI H. M.	TORNE, SHRI S. G., M.A., LL.B.
KARIRA, SHRI T. K.	TRIPATHI, SHRI RAMMANOHAR V., M.A.
KAVTHE, SHRI M. N.	TRIVEDI, SHRI H. N.
KHAIRE, SHRI R. A.	VAIRAGI, SHRI M. T.
KHANDWANI, SHRI M. A.	VARDE, SHRI S. S. M.A.
KHANOLKAR, SHRI M. S.	VARE, SHRI V. R.
KHARUDE, DR. D. H., Ayurved Bhishak.	VISHWANATHAN, SHRI D.
KHEDEKAR, SHRI D. G.	WANDREKAR, SHRI V. G., M.A.
KOHLI, SHRI SOHANSINGH J.	ZAKARIA, SHRI A. B., M.A.
KOPARDE, SHRI E. R., B.A.	ZUTE, SHRI B. D.
KORDE, SMT. SNEHALATA V.	

LIST OF THE MEMBERS OF THE STANDING COMMITTEE WHO HELD OFFICE ON 31ST MARCH 1973.

SHRI H. J. CORREA (Chairman).

SHRI M. H. BEDI.	SHRI L. S. MANTRI.
SHRI D. M. BHOSALE.	SHRI V. B. NAGVEKAR.
SHRI V. R. BHOSALE.	SHRI R. P. PATIL.
SMT. DEVIBEN S. DALAL.	SHRI V. M. PARVATKAR.
SHRI V. G. DHARAP.	SHRI R. G. RAJDA.
SHRI S. S. GAIKWAD.	SHRI B. N. SHROFF.
SHRI M. A. KHANDWANI.	SHRI S. S. VARDE.
SHRI V. S. MAHADIK.	SHRI V. G. WANDREKAR.

**LIST OF THE MEMBERS OF THE IMPROVEMENTS COMMITTEE WHO HELD OFFICE
ON 31ST MARCH 1973.**

SHRI H. R. BHUGRA (*Chairman*).

SHRI R. K. CHIMBULKAR.
SHRI H. W. CHOGLA.
SHRI S. L. DANDEKAR.
SHRI R. M. DUBE.
SHRI T. S. MORE.
SHRI V. S. NAGVEKAR.
SHRI A. M. NAJMI.
SHRI D. S. NALAVADE.

SHRI P. D. NIKLANKAR.
SHRI VADILAL M. PANCHAL.
SHRI A. W. PATIL.
SHRI R. W. RAGINWAR.
SHRI D. N. SINGH.
SHRI N. S. TAWDE.
SHRI V. M. TIKEKAR.

**LIST OF THE MEMBERS OF THE EDUCATION COMMITTEE WHO HELD OFFICE
ON 31ST MARCH 1973.**

SMT. DEVIBEN S. DALAL (*Chairman*).

SHRI S. N. ACHARYA.
SHRI R. C. ANKLESHWARIA.
SHRI M. S. DEODA.
SMT. PRATIBHA P. EKBOTE.
SHRI S. S. GOKHALE.
SHRI D. R. MAHAJAN.
SMT. V. M. NADKARNI.
SHRI G. V. NERLEKAR.

DR. P. S. PAI.
SMT. TARABEN D. PAREKH.
SMT. INDUMATI T. PATEL.
SHRI D. N. SALVI.
SHRI J. Y. SINGHANIA.
SHRI M. T. VAIRAGI.
SMT. DHAIRYABALA P. VORA.

MUNICIPAL OFFICERS

Municipal Commissioner's Office

The designations and names of the Officers holding the post of M. C. and also Statutory posts together with the period for which the posts were held by each of them are given below.

Designation.	Name of the Officer.	Period		Remarks.
		From	To	
Municipal Commissioner	Dr. M. N. Desai, B.A., Ph.D., I.A.S.	1-4-72	18-4-72	Repatriated to Government Service from 19-4-1972.
	Shri M. W. Desai, B.A., I.A.S.	19-4-72	31-3-73	
Dy. Municipal Commissioner (Personnel)	Shri R. G. Gulgule, B. Com.	1-4-72	31-3-73	
Dy. Municipal Commissioner (Improvements)	Shri C. Soares, B.E. (Civil)	1-4-72	20-10-72	On refused leave to be enjoyed after superannuation as E. L. for 110 days from 21-10-72 to 7-2-73 and half pay leave from 8-2-73 to 17-2-73.
	Shri P. C. Pandya, M.A., LL.B., B.T.M.P.A. (U.S.A.)	21-10-72	17-2-73	Appointed to the post of D.M.C.(I) during the leave period of Shri Soares from 21-10-72 to 17-2-73. In addition also deputised to work as D.M.C.(Z-III) during the leave period of Shri Prabhavalkar from 10-11-72 to 9-12-72.
		1-3-73	31-3-73	In the additional post of D.M.C. deputised to work as D.M.C.(IV). Deputised to work as Dy. M.C.(Z-II) from 15-3-73.
Dy. Municipal Commissioner (Zone-II)	Shri V. C. Vaidya, M.A., LL.B.,	1-4-72	31-3-73	From 15-3-73 deputised to work as D.M.C.(IV).
Dy. Municipal Commissioner (Zone-III)	Shri B. H. Prabhavalkar, M.A.	1-4-72	9-11-72	On leave from 10-11-72 to 9-12-72.
	Dr. (Smt.) M. R. Shah B.A. (Hons) M.Ed., Ph.D. (Bombay) Ph.D. (London).	10-11-72	9-12-72	Appointed during leave period of Shri Prabhavalkar deputised to work as Dy. M. C. (E).
	Shri B. H. Prabhavalkar, M.A.	10-12-72	31-3-73	
Dy. Municipal Commissioner (Special Engg.)	Shri V. D. Desai, B.E.(Civil), M.E.(P.H.), Calcutta with 1st Class, AMIE (India).	1-4-72	31-3-73	
Dy. Municipal Commissioner (Zone-I)	Shri S. R. Rane, B.E. (Mech. & Elec.), Completed the post graduate course Mat-taurgu possesses competence certificate of P.W.D. (Bombay).	29-8-72	31-3-73	Appointed in the post rendered vacant due to superannuation of Shri Sastry. Deputised to work as Dy. M. C. (Z-1) from 29-8-72.

Municipal Chief Auditor

The post of Municipal Chief Auditor was held by Shri R. G. Godbole, B.Com., F.C.A., F.C.I.S., A.M.B.I.M. throughout the year.

OTHER HEADS OF DEPARTMENTS (CITY)

Serial No.	Designation.	Name of the Officer.	Period		Remarks.
			from	To	
1	City Engineer	... Shri G. N. Naganna, B.E. (Civil).	1-4-72	20-7-72	
		Shri J. R. Patwardhan, B.E. (Civil). M.E.(P.H.)A.M.I.E.	21-7-72	31-3-73	
2	Chief Accountant	... Shri V. C. Parikh, B.Com., C.A., I.I.B.	Throughout the year.		
3	Hydraulic Engineer	... Shri K. D. Mulekar, B.E.(Civil), M.E.(P.H.)F.I.E.	Throughout the year.		
4	Executive Health Officer	Dr. D. V. Parulekar, M.B.B.S., D.P.H., M.P.H.(U.S.A.)	Throughout the year.		
5	Dean, K. E. M. Hospital & G. S. Medical College.	Dr. T. H. Rindani, M.D., D.Sc., F.A.Sc., F.A.M.S.	1-4-72	24-9-72	
		Dr. C. K. Deshpande, M.D.	25-9-72	31-3-73	
6	Dean, B. Y. L. Nair Ch. Hospital & T. N. M. College.	Dr. C. K. Deshpande, M.B.,B.S., M.D.(Path)	1-4-72	24-9-72	
		Dr. M. S. Kekre, M.B.B.S., M.Sc. (Medicine).	25-9-72	31-3-73	
7	Dean, Nair Hospital Dental College.	Dr. M. S. N. Ginwala, L.D.Sc., D.D.S., M.Sc., F.I.A.O.S., F.A.M.S., J.P.	Throughout the year.		
8	Chief Fire Officer	... Shri S. Fredilis,	1-4-72	8-11-72	
		Shri A. S. Kulkarni,	9-11-72	31-3-73	
9	Dean, L. T. M. M. G. Hospital & L. T. M. M. College.	Dr. M. S. Kekre, B.Sc., M.B.B.S., M.Sc. (Med.)	1-4-72	24-9-72	
		Dr. V. N. Panse, M.D.	25-9-72	31-3-73	
10	Medical Superintendent, G. T. B. Hospital.	Dr. S. A. Shah, M.D., D.M.R.E., D.P.H., T.D.D., F.C.C.P.	Throughout the year.		
11	Assessor & Collector	... Shri R. G. Rele, B.Sc., L.S.G.D.	Throughout the year.		
12	Education Officer	... Dr. (Smt.) Madhuri R. Shah, B.A. (Hon.) M.Ed. Ph.D.(Bombay,) Ph.D.(London)	1-4-72 and 10-12-72	9-11-72 31-3-73	
		(Smt.) Pushpa Desai, B.A., B.T., M.Ed.	10-11-72	9-12-72	
13	Solicitor to Corporation	Shri A. M. Desai, M.A., LL.B.,	Throughout the year.		
14	Project Engineer	... Shri T. M. Kandawalla, B.E.(Civil), F.I.E. (India)	Throughout the year.		
15	Controller of Stores	... Shri K. S. Pesina, B.E. (Civil)	Throughout the year.		
16	Superintendent of Markets & Slaughter Houses.	Vacant.	Throughout the year.		
16a	General Manager, Deonar Abattoir.	... Dr. D. M. Bailur, B.sc. (Vet.) M.R.C.U.S.(London)	Throughout the year.		

Serial No.	Designation.	Name of the Officer.	Period		Remarks.
			from	To	
16b	Ward Officer (Markets)	Shri A. N. Sabnis, B.E.(Civil) M.E.(P.H.)A.M.I.E. (India).	1-4-72	30-11-72	
		Shri G. Gomes,, M.I.C.(India), A.M.I.E.(India), A.M.I.E.T.(London), L.S.G.D.	1-12-72	31-3-73	
17	Administrative Officer, (Enquiries)	...	Shri C. K. Patel, M.A., LL.B., looked after the office of A.O.(E) throughout the year.		
18	Security Officer	... Shri B. R. Sawant.	Throughout the year.		
	Ward Officer (Estates) ...	Shri K. U. Mehta, B.A.(Hons.) Kovid.	1-4-72	30-11-72	
		Shri S. N. Phadke, B.A., LL.B., Hindi Prabhod & passed advocate Exam.	1-12-72	31-3-73	
	Labour Officer	... Shri G. S. Saudagar, B.A. (Hons.) LL.B., Dip. L.W.	Throughout the year.		
21	Public Relation Officer	... Shri K. T. Pandit, M.A.	Throughout the year.		
22	Dy. A. & C. (Octroi)	Shri P. R. Karkhanis Shri S. S. Murkute B.Com. LL.B., L.S.G.D.	1-4-72 13-1-73	12-1-73 31-3-73	
23	Superintendent of Licence	Shri C. K. Patel M.A. LL.B.	Throughout the year.		
24	Superintendent of Gardens	Shri J. C. Garkhel B.Sc. (Hons.) Agri.	Throughout the year.		
25	Research Officer	... Dr. V. Y. Pendarkar B.Sc. (Hons.) M.Ed. Ph. D.	Throughout the year.		
26	Officer on Special Duty (M.M.P.)	... Shri A. G. Hemmadi.	Throughout the year.		
27	Asstt. Medical Officer, E. N. T. Hospital.	Dr. (Miss) S. R. Mudbhatal M.B.B.S., D.G.O. (Bombay).	Throughout the year.		
28	Organisation & Methods Officer.	Dr. S. D. Parchure, M.A., Ph.D.	1-4-72 & 1-8-72	30-6-72 31-3-73	Shri D. T. Chaubal, B.Sc., P.A. to M.C. looked after the office of O. & M. O. from 1-7-72 to 31-7-72.
29	Curator of Victoria & Albert Museum & Chief Librarian.	Vacant.	Shri V. N. Barve, B.A.(Hons.) L.S.G.D., H.c. looked after the duties of these offices throughout the year.		
30	Manager, Mahatma Gandhi Memorial O. Swimming Pool.	Shri S. N. Pinge, L.S.G.D.	Throughout the year.		
31	Manager, Raja Baladevdas Birla Kreed Kendra.	Shri S. G. Gawankar, B.A., L.S.G.D., L.G.S., P.H.L.	3-5-72	31-3-73	Shri P. V. More, B.A., G.C.D., Office Superintendent 'D' Ward looked after the duties of this office from 1-4-72 to 2-5-72.

(SUBURBS AND EXTENDED SUBURBS)

1	Deputy Executive Health Officer. (Subs.)	Dr. M. K. Vaidya, M.B.B.S., D.P.H.	Throughout the year.		
2	Dy. Accountant (Subs.)	Shri V. N. Pandit, B.A. (Hons.) Rashtra Bhasha Praveen 1st Class.	1-4-72	9-1-73	
		Shri A. B. Maduskar, B.Com.	10-1-73	21-2-73	
		Shri M. N. Kulkarni, B.A. (Hons.) B.Sc. 1st Class with Distinction.	22-2-73	31-3-73	
3	Dy. Assessor & Collector (Subs.)	Shri S. S. Murkute, B.Com., L.S.G.D. LL.B., Shri G. P. Parulekar, B.Sc. (Hons.) M.A. 1st LL.B., L.S.G.D.	1-4-72 13-1-73	12-1-73 31-3-73	
4	A. S. M. (Eastern Subs.)	Shri M. L. Naik, S.I.E. L.S.G.D.	Throughout the year.		
5	A. S. M. (Western Subs.)	Shri N. V. Prabhu, S.I.E., L.S.G.D.	Throughout the year.		

COMPLAINTS SECTION AND CENTRAL CONTROL ROOM.

The Complaints Section dealt with all the complaints concerning Municipal Services received in the Central Control Room, at Babula Tank Cross Lane, Bombay-9. Complaints were referred to the departments concerned in all the wards. were followed up systematically and the complainants were contacted, if required, to see that their grievances were redressed within a reasonable time. The total number of complaints registered and followed up by the Central Control Room, during the year under report is 12,691.

The Central Control Room remains open on all the days including Sundays and Holidays. It receives complaints from the members of the public on telephone No. 332211. It is working in close co-operation with the Fire Brigade, Water Supply Control Room and sees that in case of the house collapses and such other emergencies, the Municipal Officers and staff appear on the scene without any delay. Co-ordination between the heads of the departments is also brought about on such occasions.

The required information on the civic matters is also furnished to the members of the public, inquiring on telephone No. 332211.

P. N. SAMANT,
Complaints Officer,
Central Control Room.

RAJA DR. BALDEV DAS BIRLA KREEDA KENDRA

This multipurpose recreational centre was reserved by the public for various cultural activities. Elementary films and demonstration of the electric toy trains were shown free of charge to the visitors to the Children's Hall on the first floor on all days between 4 p. m. and 7 p. m. except Sundays and Holidays. The Chowpatty Foreshore was kept under the supervision of the Manager for maintenance of sanitation. During the period under report the amount of Rs. 1,10,000 was collected by way of revenue.

APPENDIX 'A'

Children's Halls on the first floor

Section	Approximate attendance of children visitors during the year 1972-73.
Film Section Toy Trains and Bal Bhavan Section.	1,12,000

APPENDIX 'B'

Section	No. of days reserved by the public
Hall and outside space	266
	Approx. No. of visitors, 4,00,000

S. G. GAVANKAR,
Manager,
Birla Kreeda Kendra.

SPECIAL TECHNICAL UNIT

The Special Technical Unit under the Executive Engineer (Vigilance), is a branch of the Municipal Commissioner's Establishment. The Executive Engineer (Vigilance) is assisted by three A. Es. (Vigilance) two S. Es. (Vigilance), One Junior Stenographer and one Clerk. The post of the 3rd A. E. has been created on temporary basis and he has been assigned the work of keeping a strict vigil over the several works executed under the various W. Os. by the P. W. Cs. in view of bitter criticism about the unsatisfactory execution of the works at the ward level. This unit keeps watch over all the technical matters, renders guidance to the technical staff, scrutinises technical staff proposals, pays surprise visits to various Municipal works under construction and Municipal maintenance jobs and also petty works contracts under execution. The unit also investigates complaints against the staff of the Engineering branch and examines the technical matters referred to by the Municipal Commissioner and the Heads of the Departments and also investigates into the other complaints received from the public in the office of the Executive Engineer (Vigilance). Further, this unit also functions as a coordinating agency for different units of the Engineering sections and assists the administration in the matters requiring policy revision and implementation thereafter. The unit keeps a watch on the results obtained at the Municipal Testing Laboratory where concrete cubes and building materials etc. used on the Municipal works are sent for testing. Whenever considered necessary this unit carries out hammer tests and load tests on construction works.

The Special Technical Unit also carries out sample checking of some of the final bills of the Municipal Construction works. It also checks a few building proposals after the building occupation certificates or building completion certificates are issued to parties to verify that the disposal is in order.

Some of the details of work done by the unit during the year 1972-73, are as follows: -

(1) Number of visits paid on Municipal Works:—	
(a) Building Construction Works	455
(b) Road Construction Works	109
(c) Drainage Construction Works	125
(d) P. W. C. Works	308
(2) Number of final bills checked	49
(3) Miscellaneous visits	561
(4) Cases referred to by M. C., D. M. C., C. E. etc. investigated and examined	676
(5) Amounts recovered from the civic contractors by way of detection of excess payments, substandard work penalties imposed, rebate recoveries for incomplete work etc. pointed out at the time of checking the works in progress and while checking the final bills	Rs. 5500

R. M. GOKHALE,
E. E. (V)

FINANCIAL

Report from the Chief Accountant of the General Municipal Administration, the Improvement Scheme and the Education Fund for the year 1972-73.

GENERAL MUNICIPAL ADMINISTRATION

The following statement summarises the transactions for the year pertaining to Revenue and the Actuals for the preceding years:—

	1972-73			
	Budget Estimates	Revised Estimates	Actuals	Actuals for 1971-72
	Rs.	Rs.	Rs.	Rs.
Opening Balance ...	1,76,52,000	3,48,96,368	3,48,96,368	4,36,94,945
Income ...	70,15,88,715	69,12,22,505	60,28,74,492	58,30,76,817
Expenditure ...	68,99,80,731	70,48,57,673	64,52,69,315	58,75,30,865
Balance ...	1,16,07,984 (Surplus)	1,36,35,168 (Deficit)	4,23,94,823 (Deficit)	44,54,048 (Deficit)
Balance ...	2,92,59,984	2,12,61,200	— 74,98,455	3,92,40,897
<i>Add: Recoupment of advances made from the Surplus Cash Balance for Capital Stores...</i>	...	...	+ 32,99,729	95,264
Total	2,92,59,984	2,12,61,200	— 41,98,726	3,93,36,161
Decrease in Reservation for Advances ...	...	— 66,28,200	+ 93,06,207	— 44,39,793
Closing Balance ...	2,92,59,984	1,46,33,000	51,07,481	3,48,96,368

2. The details of reservation of Advances etc.

Increases:—

	Rs.	Rs.
In Capital Stores ...	54,64,183	
In Reserve Stores ...	10,71,823	
In Contribution towards Improvement Scheme ...	21,10,440	
In advances to Public including Co-operative for Housing purpose	26,78,459	
		<u>1,13,24,905</u>

Decreases:—

	Rs.	Rs.
In Advances Miscellaneous Advances ...	44,35,819	
In Renewed Grant for Expenditure in 1973-74	1,61,95,229	2,06,31,112
In Plant & Machinery	64	
Net Decrease	...	<u>93,06,207</u>

3. The net unhypothecated Surplus Cash Balance on 31st March 1973 was as under:—

	Rs.	Rs.
Capital Stores ...	54,64,183	
Reserve Stores and Line Suspense Account ...	1,07,62,021	
Advance for Plant & Machinery ...	23,87,844	
Miscellaneous Advance ...	4,03,04,411	
Advance to Co-operative Societies for housing ...	1,64,08,882	
Minimum required by law ...	1,00,000	
Surplus Cash Balance ...	50,07,481	
	<u>8,04,33,822</u>	
		<u>8,04,33,822</u>

4. The Opening and Closing Reserve Stores (including Capital Stores) Balance for the year 1972-73 compared below:—

	Opening Balance	Closing Balance	Increase Decrease
	Rs.	Rs.	Rs.
Serviceable Stores			
Reserve Stores ...	92,86,608	1,03,39,829	10,53,221
Reserve Stores (Foras Road Depot) ...	4,05,048	4,23,650	18,602
Line Suspense Account ...	Cr. 1,458	Cr. 1,458	...
Capital Stores ...	1,66,46,816	2,21,09,228	54,62,412
Capital Stores (Foras Road Depot.) ...	74,648	76,419	1,771

5. The loan liabilities at the beginning and at the end of the year were as under:—

	Outstanding debts on 1st April 1972	Loans raised during the year	Repayment during the year	Outstanding debts on 31st March 1973
	Rs.	Rs.	Rs.	Rs.
Div. I ...	88,01,68,810	9,63,17,376	2,02,52,887	95,67,33,299
Div. II ...	20,84,50,000	2,65,00,000	78,00,000	22,71,50,000
Div. III ...	9,92,50,000	2,65,00,000	22,00,000	12,35,50,000
	1,18,78,68,810	14,98,17,376	3,02,52,887	1,30,74,33,299

	(1)	Rs. 6,16,00,000	Being the loan amount towards Rs. 560 lacs plus 10 per cent issued at Rs. 99.75 with a currency of 12 years at 6 per cent interest per annum raised by public subscription out of Rs. 1,600 lacs loan sanctioned under Corporation Resolution No. 1518 dated the 6th October 1972 and C. R. No. LON/3272-2900-72/B2 dated 18th Nov. 1972. The provision of Sinking Fund is sanctioned on 20 year's basis improving at 5½ per cent.
Div. I	...	2,86,00,000	
Div. II	...	1,65,00,000	
Div. III	...	1,65,00,000	
	(2)	Rs. 8,00,00,000	Being the loan amount towards Rs. 800 lacs issued at par with a currency of 25 years at 6 per cent interest per annum raised by Internal Funds. Loan sanctioned under C. R. No. 1518 of 5-10-1972 and C. R. No. 2630 of 23-3-1973 and G. R. No. LON/3272/2529-72/B2 dated 31st October 1972 and C. R. No. LON/3273/753.73/B2 dated 27th March 1973. The provision of Sinking Fund is sanctioned on 25 years basis improving at 5½ per cent.
Div. I	...	2,00,00,000	
Div. II	...	4,00,00,000	
Div. III	...	1,00,00,000	
Div. I	(3)	82,17,376	Being advances from Special Funds for purchase of Plant and Machinery repayable by annual equated instalments in five years at 6 per cent interest per annum.
Total	...	14,98,17,376	

The repayment during the year were as under:—

Div. I	(1)	30,53,753	Repaid to Government on the basis of equated payment from Revenue in respect of Advances taken from them.
Div. I	(2)	1,37,50,000	Repaid to Debenture holders out of Sinking Fund Investment.
Div. I	(3)	34,49,134	Repaid to different Special Funds out of Revenue on the basis of equated payments.
Div. II	...	78,00,000	Repaid to Debenture holders out of Sinking Fund Investment.
Div. III	...	22,00,000	Do.
Total	...	3,02,52,887	

The position of the Sinking Fund is shown below:—

	Amount of Fund on 1st April 1972	Interest etc. received	Sinking Fund Instalment	Withdrawn for Payment of Loan	Amount of Funds on 31st March 1973
	Rs.	Rs.	Rs.	Rs.	Rs.
Div. I ...	24,90,96,352	1,09,25,139	3,37,09,418	1,37,50,000	27,99,80,909
Div. II ...	6,07,04,912	30,65,925	1,04,55,247	78,00,000	6,64,26,084
Div. III ...	2,06,48,972	10,93,584	49,28,164	22,00,000	2,44,70,720
	33,04,50,236	1,50,84,648	4,90,92,829	2,37,50,000	37,08,77,713

The value of the securities held in the Sinking Fund on the basis of market rates prevailing on 31st March 1973 including accrued interest and cash exceeds the actual amount of the Sinking Fund by Rs. 2,87,51,069 (Div. I Rs. 1,97,17,624, Div. II Rs. 75,62,761 and Div. III Rs. 14,70,684).

REVENUE INCOME

For Divisions I, II and III

6. The estimated income for the year was Rs. 70,15,88,715 and Revised Estimates was Rs. 69,12,22,505 (on the basis of 8 months actuals). The actuals amounted to Rs. 60,28,74,492 resulting in decrease of Rs. 9,87,14,223 on the Budget Estimates and Decrease of Rs. 8,83,43,013 on the Revised Estimates.

OCTROI

7. The gross collections for the year were estimated at Rs. 22,07,05,000 and the refunds and commission charges at Rs. 1,75,00,000 and the net revenue at Rs. 20,32,05,000. The revenue collected and paid into the Municipal Treasury in the year amounted to Rs. 21,94,38,451 and after deducting the amount of Rs. 2,53,95,449 (on account of refunds Rs. 2,35,22,024 and on account of fees for collection Rs. 18,73,425 credited to the separate Revenue Head) the net receipts amounted to Rs. 19,40,43,002 showing an increase of Rs. 1,52,32,898 as compared with the actuals of the previous year (i.e. Rs. 17,88,10,013).

REVENUE EXPENDITURE

For Divisions I, II and III

8. The final sanctioned grants amounted in the aggregate to Rs. 83,76,53,275.

Budget Grants	Rs. 68,99,80,731
Unexpended Grants for previous years renewed for Expenditure	4,16,63,626
Additional Grants	10,60,08,918
Final sanctioned grants	83,76,53,275

The transfers from one Budget Head to another without affecting the total Budget Provisions for the year amounted to Rs. 40,22,666.

Against the final grants for the year aggregating to Rs. 83,76,53,275 as stated above the actuals amounted to Rs. 64,52,69,315 leaving an unexpended balance of Rs. 19,23,83,960 at the close of the year. Of this sum of Rs. 3,00,00,000 is being renewed for expenditure during 1973-74 against Rs. 4,61,95,229 in 1972-73 and the balance of Rs. 16,23,83,960 is being allowed to lapse.

9. The percentage of establishment to the expenditure for 1972-73 and the previous years is as given below:—

Divisions	Percentage to total expenditure during	
	1972-73	1971-72
I	34.13	31.31
II	28.32	30.78
III	27.46	29.81

LOAN WORK EXPENDITURE (CITY)

10. The opening balance on 1st April 1972 on account of loan Funds excluding the Trust Fund was Rs. 1,61,64,465. Loans aggregating to Rs. 9,68,17,376 were raised during the year. Thus the total loan funds available for expenditure during the year were Rs. 11,29,81,841. The total expenditure incurred during the year amounted to Rs. 8,96,92,197 and Rs. 32,99,729 obtained as advance from surplus cash balance for purchase of Capital Stores the year, leaving a balance of Rs. 1,99,89,915 in the Loan Funds at the close of the year.

The following statement compares the expenditure on Capital works with the Budget and Revised Estimates during the last three years:—

Year	Loan Funds			Percentage of actuals to Budget Estimates	Percentage of actuals to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.		
1970-71	16,55,96,750	15,61,32,810	7,88,09,996	48	50
1971-72	16,37,73,500	17,82,05,935	7,82,33,463	47	43
1972-73	18,57,64,100	23,55,54,630	8,96,92,197	48	38

The percentage of actual expenditure to the funds available works out to 82.

SUBURBS

The Opening Balance on the 1st April 1972 on account of Loan and Trust Funds was Rs. 2,49,06,265. Loan aggregating to Rs. 2,65,00,000 was raised during the year. Thus the total loan and Trust Funds available for expenditure during the year were Rs. 5,14,06,265. The total expenditure incurred during the year amount to Rs. 2,43,67,527 leaving a balance of Rs. 2,70,38,738 in the Loan and Trust Fund at the close of the year.

The following statement compares the expenditure on Capital Works with the Budget and Revised Estimates during the last three years:—

Year	Loan and Trust Funds			Percentage of actuals to Budget Estimates	Percentage of actuals to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.		
1970-71	3,89,23,960	4,06,93,607	1,30,97,700	34	32
1971-72	4,10,16,186	4,58,29,746	1,70,73,378	42	37
1972-73	7,82,04,960	6,46,91,376	2,43,67,527	31	38

The percentage of actual expenditure to the funds available works out to 47.

EXTENDED SUBURBS

The opening balance on 1st April 1972 on account of Loan Fund was Rs. 46,77,014. Loan aggregating to Rs. 2,65,00,000 was raised during the year. Thus the total loan Funds available for expenditure during the year were Rs. 3,11,77,014. The total expenditure incurred during the year amounted to Rs. 1,88,93,219 leaving a balance of Rs. 1,22,83,795 in the Loan Fund at the close of the year.

The following statement compares the expenditure on the Capital works with the Budget and Revised Estimates during the last three years:—

Year	Loan Funds			Percentage of actuals to Budget Estimates	Percentage of actuals to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.		
1970-71	1,86,42,300	1,95,38,610	80,39,865	43	41
1971-72	2,57,29,500	2,86,89,150	1,59,52,781	62	56
1972-73	3,37,71,100	3,88,91,850	1,88,93,219	56	49

The percentage of actual expenditure to the Funds available works out to 61.

CONSOLIDATED LOAN WORKS EXPENDITURE

11. The following statement compares the consolidated expenditure on Capital Works for Divisions I, II and III with the Budget and Revised Estimates during the last three years:—

Year	Loan and Trust Funds			Percentage of actuals to Budget Estimates	Percentage of actuals to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.		
1970-71	22,31,63,010	21,63,65,080	9,99,47,561	45	46
1971-72	23,05,19,186	26,27,24,831	11,12,59,622	48	44
1972-73	29,77,40,160	33,91,37,856	13,29,52,943	45	39

The percentage of actual expenditure to the funds available works out to 68.

SINKING FUND (CITY)

12. The book value of investment of the Sinking Fund as on 31st March 1973 amounted to Rs. 27,99,80,909 made up of Rs. 27,99,80,816 being the book value of securities and Rs. 93 in cash with the State Bank of India. Valuing the Municipal and Improvement Trust Debentures at par the market value of the Sinking Fund Investment held on 31st March 1973 comes to Rs. 27,59,68,909. This together with the amount of interest accrued upto 31st March 1973 viz. Rs. 31,29,316 and cash with the State Bank of India Rs. 93 brings the total amount of Sinking Fund to Rs. 27,90,98,318 and more than covers the amount viz. Rs. 25,93,80,694 to which the Sinking Fund should have accumulated upto 31st March 1973. The excess in the Sinking Fund account was thus Rs. 1,97,17,624.

SUBURBS

From Appendix No. 10 it will be seen that the book value of investments of Sinking Fund as on 31st March 1973 amounted to Rs. 6,64,26,084 made up of Rs. 6,64,25,995 being the book value of securities and Rs. 89 in Cash with the State Bank of India, Bandra. Valuing the Municipal Debentures at par the market value of Sinking Fund Investments held on 31st March 1973 comes to Rs. 6,61,91,578 as shown in Appendix No. 17. This together with the amount of interest accrued upto 31st March 1973 viz. Rs. 9,68,595 and Cash with the State Bank of India, Bandra Rs. 89 brings the total amount of Sinking Fund to Rs. 6,71,60,262 and more than covers the amount of Rs. 5,95,97,501 to which the Sinking Fund should have been accumulated upto 31st March 1973. The excess in the Sinking Fund account was thus Rs. 75,62,761.

EXTENDED SUBURBS

From the appendix No. 10 it will be seen that the book value of investment of the Sinking Fund as on 31st March 1973 amounted to Rs. 2,44,70,720 made up of Rs. 2,44,70,700 being the book value of the securities and Rs. 20 in cash with the State Bank of India, Bandra. Valuing the Municipal Debentures at par, the Market value of Sinking Fund investment held on 31st March 1973 comes to Rs. 2,44,93,200 as shown in the Appendix No. 17. This together with the amount of interest accrued upto 31st March 1973 viz. Rs. 3,07,979 and cash with State Bank of India, Bandra Rs. 20 brings the total amount of Sinking Fund to Rs. 2,48,01,199 and more than covers the amount of viz. Rs. 2,33,30,515 to which the Sinking Fund should have been accumulated upto 31st March 1973. The excess in the Sinking Fund investment account was thus Rs. 14,70,684.

INVESTMENT (CITY)

13. The details of aggregate Investments made during the year are as follows:—

	Amount	Average No. of days
	Rs.	Rs.
(1) Fixed Deposits	71,40,00,000	193.24
(2) Call Deposit	9,60,00,000	15.24
(3) Current Account Deposit	43,62,78,425	1.25
Total	1,24,62,78,425	

The interest earned during the year amounted to Rs. 2,29,63,053 as against Rs. 2,02,35,277 during 1971-72 and the details are as follows:—

	Rs.
On Fixed Deposits	2,27,88,322
On Call Deposits	1,60,395
On Current Account Deposits	14,336
Total	2,29,63,053

The average rates of Interest on Fixed Deposits, Call Deposits and Current Account Deposits were 6.03 per cent, 4 per cent and 1 per cent as against 5.74 per cent, 3.62 per cent and 1 per cent for the preceding year respectively.

INVESTMENT (SUBURBS)

The details of aggregate investments made during the year are as follows:—

	Amount	Average No. of days
	Rs.	
(1) Fixed Deposits	4,77,00,000	164.56
(2) Call Deposits	2,04,00,000	21.81
(3) Current Account Deposits	8,78,54,629	3.50
Total	15,59,54,629	

The interest earned during the year amounted to Rs. 13,68,299 as against Rs. 15,64,782 during 1971-72. and the details are as follows:—

	Rs.
(1) On Fixed Deposits	13,11,145
(2) On Call Deposits	48,756
(3) On Current Account Deposits....	8,398
Total	13,68,299

The average rates of interest realised on Fixed, Call and Current Account Deposits were 6.10 per cent, 4 per cent and 1 per cent as against 5.79 per cent, 3.57 per cent and 0.96 per cent of the preceding year.

INVESTMENT (EXTENDED SUBURBS)

The details of aggregate investments made during the year were as follows:—

	Amount	Average No. of days
	Rs.	
(1) Fixed Deposits	2,49,00,000	93.55
(2) Call Deposits	23,00,000	17.30
(3) Current Account Deposits	2,18,41,045	5.26

The interest earned during the year amounted to Rs. 3,89,978 as against Rs. 3,67,053 during 1971-72. and the details are as follows:—

	Rs.
(1) On Fixed Deposits	3,81,520
(2) On Call Deposits	4,362
(3) On Current Account Deposits....	4,096
Total	3,89,978

The average rates of interest realised on Fixed, Call and Current Account Deposits were 5.98 per cent, 4.00 per cent and 1 per cent as against 5.73 per cent, 3.70 per cent and 0.96 per cent of the preceding year.

RESERVE STOCK

14. The Opening Balance and the receipt of General Stores during the year as per books maintained in this office were Rs. 92,86,608 and Rs. 97,19,713 respectively, and the issues amounted to Rs. 86,66,492. The Closing Balance of General Stores was therefore Rs. 1,03,39,829 i. e. more by Rs. 10,53,221 than the Opening Balance.

As against this the outstanding balance on 31st March 1973 according to Controller of Stores amounted to Rs. 22,29,324. The difference of Rs. 81,10,505 is due to adjustment in respect of stores etc., issued by the Controller of Stores to the departments not having been returned by them to this office in time for being adjusted in the Accounts of 1972-73. The Opening Balance and the receipt of General Stores of Foras Road Depot during the year as per this office book were Rs. 4,05,048 and Rs. 2,83,817 respectively and issues amounted to Rs. 2,65,215. The Closing Balance of General Stores, Foras, Road Depot was Rs. 4,23,650 i. e. more by Rs. 18,602 than the Opening Balance. As against this, the outstanding balance on 31st March 1973 according to Departmental books is Rs. 2,77,902.

CAPITAL STORES

15. The Opening Balance of Rs. 1,66,46,816 together with the receipts of Capital Stores during the year viz. Rs. 1,77,28,998 aggregated to Rs. 3,43,75,814. As against this issues during the year aggregated to Rs. 1,22,66,586 thus resulting in increase of Rs. 54,62,412 in the Closing Balance of Capital Stores viz. Rs. 2,21,09,228 compared with Opening Balance. As against this the outstanding balance as on 31st March 1973 according to C. S. to Rs. 85,85,028. The Opening Balance and the Receipts of Capital Stores Foras Road Depot were Rs. 74,643 and Rs. 69,304 respectively and the issues amounted to Rs. 67,533 thus resulting in an increase of Rs. 1,771 in the Closing Balance of Capital Stores Foras Road Depot viz. Rs. 76,419 compared with Opening Balance. As against this the outstanding balance as on 31st March 1973 according to Departmental books is Rs. 66,355.

STREET IMPROVEMENTS (CITY)

16. The provision made in the Revised Loan Works Budget for meeting claims on account of acquisition of set backs was Rs. 50,00,000 the expenditure being Rs. 26,76,813. This leaves a balance of Rs. 23,23,182. After deducting all ascertained time barred claims the undischarged commitments upto 31st March 1973 in regard to set backs already acquired and sanctioned to be acquired the net balance amounts to Rs. 36,37,894.

(SUBURBS)

The provision made in the Revised Loan Works Budget Estimates for meeting the claims on account of acquisition of set backs was Rs. 10,00,000. The expenditure being Rs. 9,70,790. This leaves a balance of Rs. 29,210.

(EXTENDED SUBURBS)

The provision made in the Revised Loan Works Budget for meeting the claims on account of acquisition of set backs was Rs. 18,00,000. The expenditure being Rs. 17,73,411. This leaves a balance of Rs. 26,589.

LEVELLING, METALLING ETC. PRIVATE STREETS

17. The expenditure on the Improvement of Private Streets is financed in the first instance from Plant and Machinery Depreciation Fund pending recovery from the House Owners.

The following statement shows the figures of advance sanctioned expenditure incurred and recoveries made during the last three years:—

Year	Expenditure				Recoveries inclusive of Interest and Supervision Charges
	Actual expenditure of work	Supervision Charges	Interest etc. Advances	Total	
1970-71	Rs.	Rs.	Rs.	Rs.	Rs.
1971-72	...	...	3,383	3,383	...
1972-73	...	...	...	...	...

Balance of supervision charges outstanding as on 31st March 1973 is Rs. 77,062.

IMPROVEMENTS SCHEMES

General Account

18. The total income for the year amounted to Rs. 5,36,43,436 against Rs. 3,42,99,628 for the previous year showing net increase of Rs. 1,93,43,808 viz. increase of (1) Rs. 17,12,314 under Rent and other proceeds of properties, (2) Rs. 19,00,641 under Contribution from Municipal Corporation (3) Rs. 1,20,463 under Interest and profit on investment and (4) Rs. 1,56,26,000 under Grant Assistance from Govt. of India for environmental improvement of Slums counter balanced by decrease of Rs. 15,610 under V-Miscellaneous Receipt.

EXPENDITURE

19. The total expenditure of the year aggregated to Rs. 3,93,09,661 against Rs. 2,97,89,277 for the previous year showing an increase of Rs. 95,20,384. This is made up of increase of (1) Rs. 95,32,681 under Maintenance of Properties and Streets counter balanced by decrease of Rs. 12,297 under Debt. Charges. The expenditure of Rs. 3,93,09,661 comprises of expenditure of Rs. 2,94,73,971 under Maintenance of Properties and streets inclusive of cost of Management and Establishment and Rs. 98,35,690 under Debt. Charges. The surplus of Rs. 1,43,33,775 in the General Account is transferred to Capital Account.

20. The loan liabilities at the beginning of the year stood at Rs. 14,40,06,214. The repayment of loan to Government on the basis of equated payment during the year amounted to Rs. 13,40,109, and Rs. 25,00,000 were paid to debenture holders. The outstanding loan liabilities at the close of the year thus stood at Rs. 14,01,66,105.

CAPITAL ACCOUNT

21. The opening Balance on 1st April 1972 was Rs. 1,22,87,349. During the year under report receipt on account of the Sale proceeds of lands and buildings amounted to Rs. 6,37,864. The total funds available were thus Rs. 1,29,25,213. The total expenditure incurred amounted to Rs. 48,91,262. The surplus in General Account for the year which amounted to Rs. 1,43,33,775 was transferred to the Capital Account. The unspent balance at the close of the year stood at Rs. 2,23,67,725.

EXPENDITURE ON SCHEMES

22. The actual expenditure incurred during the year on schemes amounted to Rs. 43,91,262 as against the Revised Estimates of Rs. 1,46,65,150 including Rs. 19,47,750 on account of Cost of Management and establishment.

SINKING FUND

23. The position of the Sinking Fund is as shown below:—

Amount of Fund on 1st April 1972	Interest etc. realisation	Sinking Fund instalments	Withdrawn for payment	Amount of Fund on 31st March 1973
Rs.	Rs.	Rs.	Rs.	Rs.
7,56,32,315	35,01,866	18,10,729	25,00,000	7,84,44,910

The Sinking Fund as on 31st March 1973 amounts to Rs. 7,84,44,910 of which Rs. 7,84,44,875 represent the book value of the Securities and Rs. 35 in cash with the State Bank of India. Valuing the Bombay Improvement Trust and Municipal Debentures at par the market value of the Sinking Fund Investments held on 31st March 1973 comes to Rs. 7,61,80,029. This together with the amount of interest accrued upto 31st March 1973 viz. Rs. 1,00,718 and cash with State Bank of India viz. Rs. 35 brings together the total amount of Sinking Fund to Rs. 7,62,80,782 against Rs. 5,82,90,181. The amount to which the Sinking Fund should have accumulated upto 31st March 1973. The excess in the Sinking Fund investment account is thus Rs. 1,79,90,601.

24. The gross capital liabilities of the Improvement Schemes stood at Rs. 14,49,24,595 at the close of the year and the assets at Rs. 33,36,96,725 including the book value of the lands comprised in Schedules 'W' and 'X' resulting in a surplus Rs. 18,87,74,130.

SLUM CLEARANCE ACCOUNT

General Account (City and Suburbs)

CITY SECTION

INCOME

25. The total income for the year amounted to Rs. 21,43,561 against Rs. 16,40,534 for the previous year showing a net increase of Rs. 5,03,027. This is made up of increase of Rs. 5,39,165, under Rent and other proceeds of property counterbalanced by decrease of Rs. 26,138 under interest and profit on investment.

EXPENDITURE

The expenditure for the year amounted to Rs. 32,94,967 as against Rs. 25,08,442 for the previous year showing an increase of Rs. 7,86,525. This is made up of increase of (1) Rs. 5,65,515 under maintenance of properties and Streets (2) Rs. 2,21,010 under Debt Charges. The Expenditure of Rs. 32,94,967 comprises of (1) Rs. 13,83,851 under Maintenance and Properties etc. and (2) Rs. 19,11,116 under Debt Charges. Deficit of Rs. 11,51,406 is transferred to Capital Account.

SUBURBAN SECTION

INCOME

The total income for the year amounted to Rs. 9,74,885 against Rs. 11,57,985 for the previous year showing a net increase of Rs. 1,83,100. This is made up of (1) Rs. 23,144 under Rent and other proceeds of properties (2) Rs. 1,11,284 under Miscellaneous receipt and decrease of Rs. 48,672 under Interest and Profit on Investment.

EXPENDITURE

The expenditure for the year amounted to Rs. 25,98,044 as against Rs. 26,47,256 for the previous year showing a net decrease Rs. 59,312. This is made up of Rs. 59,297 under Maintenance of Properties and Streets and decrease of Rs. 15 under Debt Charges. The net deficit of Rs. 16,13,159 is transferred to Capital Account.

SLUM CLEARANCE

CAPITAL ACCOUNT

City Section

26. (1) The Opening Deficit Balance on 1st April 1972 was Rs. 5,22,268. The amount of Rs. 50,00,000 was received from Public as Loan. An amount of Rs. 1,62,487 was received from Government as subsidy. Thus the total funds available for expenditure were Rs. 46,40,219. The total expenditure amounted to Rs. 19,70,240. The deficit in the General Account amounting to Rs. 11,51,406 was transferred to Capital Account. The unspent balance at the close of the year stood at Rs. 15,18,573.

SINKING FUND

26. (2) The position of Sinking Fund is shown below :—

Amount of Fund on 1st April, 1972	Interest Realisation	Sinking Fund Instalment	Withdrawn for payment	Amount of Fund on 31st March 1973
Rs.	Rs.	Rs.	Rs.	Rs.
56,15,286	2,82,919	5,21,977	...	64,20,182

The Sinking Fund on 31st March 1973 amounts to Rs. 64,20,182 of which Rs. 64,20,129 represent the Book Value of Securities and Rs. 53 in cash with the State Bank of India. Valuing the Bombay Improvement Trust and Municipal Debentures at par the Market value of the Sinking Fund investment held on 31st March 1973 comes to Rs. 63,96,988. This together with the amount of interest accrued upto 31st March 1973 viz. Rs. 20,833 and cash with the State Bank of India viz. Rs. 53 brings the total amount of Sinking Fund to Rs. 64,17,874 against Rs. 61,41,075, the amount to which the Sinking Fund should have accumulated upto 31st March 1973. The excess in Sinking Fund Investment Account is thus Rs. 2,76,799.

SLUM CLEARANCE

CAPITAL ACCOUNT

(Suburban Section)

26. (3) The Opening balance on 1st April 1972 was Rs. 13,49,798. In addition to this the sale proceeds of lands and buildings amounted to Rs. 2,97,646. The total funds available for expenditure were Rs. 16,47,444. The total expenditure amounted to Rs. 92,429 and deficit in the general account amounting to Rs. 16,13,159 is transferred to Capital Account. The deficit of Rs. 58,144 was met by taking advance from Surplus moneys under Revenue, Budget 'A' Division I.

26. (4) The position of Sinking Fund is as follows :—

Amount of fund on 1st April 1972	Interest Realisation	Sinking Funds Instalment	Withdrawn for Payment	Amount of fund on 31st March 1973
Rs.	Rs.	Rs.	Rs.	Rs.
27,17,676	1,49,320	4,08,858	...	32,75,854

The Sinking Fund as on 31st March 1973 amounts to Rs. 32,75,854 of which Rs. 32,75,684 represent the Book Value of the Securities and Rs. 170 in cash with the State Bank of India. Valuing the Bombay Municipal and Improvement Trust Debentures at par, the Market Value of the Sinking Fund Investment held on 31st March 1973 comes to Rs. 32,53,460. This together with the amount of interest accrued upto 31st March 1973 viz. Rs. 3,212 and cash with the State Bank of India viz. Rs. 170 brings the total amount of the Sinking Fund to Rs. 32,56,842 against Rs. 31,14,467, the amount to which the Sinking Fund should have accumulated upto 31st March 1973. The excess in the Sinking Fund Investment Account is thus Rs. 1,42,375.

EDUCATION FUND

27. (i) The following summarises the transactions for the year pertaining to Revenue and the Actuals for the preceding year :—

	1972-73			Actuals for 1971-72
	Budget Estimates	Revised Estimates	Actuals	
	Rs.	Rs.	Rs.	Rs.
Opening Balance	...	19,76,000	34,85,444	34,85,444
Income	...	10,65,31,440	10,37,29,185	10,06,81,017
Expenditure	...	10,77,18,387	10,98,76,019	10,41,54,286
		—11,86,947	—61,46,834	—34,73,269
Balance	...	+7,89,053	—26,61,390	+12,175
Increase in Reservation as shown below :	...	...	+34,43,000	+2,40,178
		+7,89,053	+7,81,610	2,52,353
				34,85,444

(ii) Details of reservation of Advances, etc. are—

Increase—	Rs.
Miscellaneous Advances	...
Add—	
Decrease in Renewed Grants	...
Net Decrease	...

(iii) The net unencumbered Surplus Cash Balance on 31st March 1973 was as under:—

Liability		Assets	
	Rs.		Rs.
Miscellaneous Advance ...	33,31,759	Surplus Revenue Fund as per Appendix No. 31.	35,84,112
Minimum required by law ...	20,000		
Surplus Cash Balance ...	2,32,353		
Total ...	35,84,112		35,84,112

(iv) The Loan Liabilities at the beginning and at the end of the year were as under:—

Outstanding Debt on 1st April 1972	Loan raised during the year	Repayment during the year	Outstanding debt on 31st March 1973
Rs.	Rs.	Rs.	Rs.
7,74,50,000	1,82,50,000	38,50,000	9,18,50,000

(v) The position of Sinking Fund is shown below:—

Amount of Fund on 1st April 1972	Interest etc. realised	Sinking Fund instalments	Total	Withdrawal for Payment of Loans	Amount of Fund on 31st March 1973
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
3,85,74,648	20,92,040	43,82,603	4,50,49,291	38,50,000	4,11,99,291

The value of Securities held in Sinking Fund Account on the basis of Market rates prevailing on 31st March 1973 including accrued interest and cash exceeded the actuarial amount of the Sinking Fund by Rs. 45,68,702 which is held in the Sinking Fund Account.

Income

(vi) The estimated income for the year was Rs. 10,65,31,440 and the Revised Estimates was Rs. 10,37,29,185. The actuals amounted to Rs. 10,06,81,017 resulting in decrease of Rs. 58,50,423 on the Budget Estimates and in decrease of Rs. 30,48,168 on the Revised Estimates. The rate of Education Cess was continued at 2½ per cent. of rateable value of Buildings and lands the rateable value of each of which is not less than Rs. 300 per annum and 2 per cent. of the rateable value of buildings and lands, the rateable value of each of which is less than Rs. 300 per annum, but not less than Rs. 75 p.a.

Expenditure

(vii) The final sanctioned Grant amounted in the aggregate to Rs. 11,71,45,375 as follows:—

Budget Grants	Rs. 10,77,18,387
Unexpended Grants for previous years renewed for Expenditure	64,93,890
Additional Grants	29,33,098
Final sanctioned grant	11,71,45,375

The transfers from one Budget Grant to another without affecting the total Budget provision of the year amounted to Rs. 16,800.

(viii) Against the Final Grant of the year aggregating to Rs. 11,71,45,375 as stated above, the actuals amounted to Rs. 10,41,54,286 leaving an unexpended balance of Rs. 1,29,91,089 at the close of the year, of this a sum of Rs. 52,95,398 is being renewed for expenditure during 1973-74 against Rs. 68,34,850 in 1972-73 balance viz. Rs. 76,95,691 being allowed to lapse as savings.

(ix) The percentage of Establishment cost inclusive of expenditure on Dearness Allowance, Provident Fund, and Pension etc., charges to the total expenditure for 1972-73 as compared with the previous year's percentage is given below:—

	Percentage to the total expenditure during	
	1972-73	1971-72
(1) Establishment Supervisory	Rs. 72.84	Rs. 74.50
(2) Labour	7.95	7.70

Loan Funds

(x) The opening balance on 1st April 1972 on account of Loan Funds excluding the Trust Fund was Nil. The amount of new loan proposed in the Budget for 1972-73 was Rs. 50 lacs. A loan of Rs. 182.50 lacs was raised during the year. The total Loan Fund available for expenditure during the year thus amounted to Rs. 1,76,02,850.06 after adjusting amount of Rs. 6,47,149.94 i. e. advance taken from Surplus Cash Balance during 1971-72 for financing Capital Expenditure.

The expenditure incurred on Loan Works during the year amounted to Rs. 1,39,06,256. The closing balance at the end of the year was Rs. 36,96,594.

(xi) The following statement contrasts the expenditure on Capital Works with the Budget and revised estimates during the last three years:—

	LOAN AND TRUST FUND			Percentage of actuals to Budget Estimates	Percentage of actuals to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.		
1970-71 ...	1,26,78,674	63,49,300	25,32,527	20	40
1971-72 ...	1,81,45,000	1,68,89,280	76,11,466	42	45
1972-73 ...	2,47,87,300	2,30,69,200	1,39,06,256	56	60

The percentage of actual expenditure to the funds available works out to 79.

(xii) The book value of investments of Sinking Fund as on 31st March 1973 amounted to Rs. 4,11,99,291 made up of Rs. 4,11,99,029 in Securities and Rs. 262 in cash with the State Bank of India, valuing the Municipal Debentures at par, the market value of the Sinking Fund investment held on 31st March 1973 comes to Rs. 4,10,08,048. This together with the amount of interest accrued upto 31st March 1973, viz. Rs. 6,33,827 and cash with the State Bank of India of Rs. 262 brings the total amount of Sinking Fund to Rs. 4,16,42,137 and more than covers the amount of Rs. 3,70,73,435 to which the sinking fund should have accumulated upto 31st March 1973. The excess in Sinking Fund Account was Rs. 45,68,702.

(xiii) The total amount invested during the year in Call and Fixed Deposit was Rs. 2,25,00,000 and the average rate of interest on all Deposits was Rs. 5.12 per cent. as against 6.05 per cent. in the preceding year. The interest earned during the year amounted to Rs. 8,70,293 as against Rs. 16,55,762 for 1971-72.

V. C. PARIKH,
Chief Accountant.

APPENDICES

MUNICIPAL ACCOUNT

- No. 1.—General Financial Statistics.
 No. 2.—Statement of Surplus Revenue Fund for 1972-73.
 *No. 3.—Statement showing the Income realised during 1972-73 as compared with estimates for the year as also with the actual for the preceding year.
 *No. 4.—Statement showing the expenditure during 1972-73 as compared with the Final sanctioned grants.
 No. 5.—Balance Sheet (Revenue) as at 31st March 1973. City, Suburbs & Extended Suburbs.
 *No. 6.—Statement of Special Funds for 1972-73.
 No. 7.—Balance Sheet (Capital Funds) as at 31st March 1973. City, Suburbs & Extended Suburbs.
 No. 8.—Block Account, Summary, (excluding details). City, Suburbs and Extended Suburbs.
 *No. 9.—Statement showing (1) the total amount of Municipal loans raised (2) the expenditure incurred there against and (3) the invested balance of the loans on 31st March 1973.
 *No. 10.—Statement showing the actual investment on account of the Sinking Fund of different Municipal Loans upto 31st March 1973 compared with the amounts which should have accumulated upto that date on the basis of the fixed instalments and the sums set aside as Sinking Fund as at 31st March 1973.
 No. 11.—Statement showing outstanding loans due by the Municipality, the interest outstanding on 1st April 1972 on the different loans, the amount payable for the year 1972-73, the amount paid by the State Bank of India and in office during that year and the balances outstanding on 31st March 1973. City, Suburbs & Extended Suburbs.
 *No. 12.—Water Works, Income and Expenditure Account.
 *No. 12A.—Water Works Assets and Liabilities.
 *No. 13.—Markets and Slaughter Houses, Income and Expenditure Account for 1972-73.
 *No. 14.—Municipal Printing Press, Income and Expenditure for the year 1972-73.
 *No. 14A.—Statement of Advance of Accounts for 1972-73.
 *No. 14B.—Statement of Advance Accounts out of Special Funds for 1972-73.
 *No. 14C.—Statement of Deposit Accounts for 1972-73.
 *No. 14D.—Statement of Reserve Stores Stock Accounts for 1972-73.
 *No. 14E.—Statement of interest accrued but not paid in respect of the Municipal loans outstanding on 31st March 1973.
 *No. 14E(1)—Since deleted.
 No. 15.—Statement of amounts of receipts and expenditure respectively, credited and debited to the Municipal Fund during the year 1972-73 and the balance at the credit of the fund at the close of the year 1972-73 (i.e., 31st March 1973) City, Suburbs & Extended Suburbs.
 *No. 16.—Comparison of Face, Purchase and Market values at 31st March 1973 of the different securities held in the Special Funds
 *No. 16A.—Comparison of Face, Purchase and Market values at 31st March 1973 of the different securities held in the Sinking Funds.
 *No. 16B.—Statement showing the amount of and the object for which the donations held under Public Monuments Maintenance Fund were received from different parties upto 31st March 1973.
 *No. 16C.—Statement showing the amount of and the object for which the endowments held under Endowments Fund were received from different parties upto 31st March 1973.
 *No. 17.—Since deleted.
 *No. 18.—Statement of the Income of the Bombay Municipality from 1960-61 to the close of the financial year 1972-73.
 *No. 19.—Statement of the Expenditure of the Bombay Municipality from 1960-61 to the close of the financial year 1972-73.
 *No. 20.—Contrasted statement of Income and Expenditure from the year 1960-61 to the financial year 1972-73.

IMPROVEMENT SCHEMES ACCOUNT

- *No. 21.—General Financial Statistics.
 No. 22.—General Account for the year 1972-73.
 No. 22A.—Slum Clearance Account City (General Account).
 No. 22B.—Slum Clearance Account Suburban (General Account).
 *No. 23.—General Account for 1972-73—Details of Income.
 *No. 23A.—General Account Slum Clearance (City) for 1972-73 details of Income.
 *No. 23B.—General Account Slum Clearance (Sub.) for 1972-73 details of Income.
 *No. 24.—General Account for 1972-73—Details of Expenditure.
 *No. 24A.—General Account Slum Clearance (City) for 1972-73 details of Expenditure.
 *No. 24B.—General Account Slum Clearance (City) for 1972-73 details of Expenditure.
 No. 25.—Balance sheet (Capital Account) as at 31st March 1973
 No. 25A.—Balance sheet Slum Clearance City.
 No. 25B.—Balance sheet Slum Clearance Suburbs.
 No. 26.—Block Account showing Capital Expenditure upto 31st March 1973.
 No. 26A.—Block Account showing Capital Expenditure upto 31st March 1973—for Slum Clearance City.
 No. 26B.—Block Account showing Capital Expenditure upto 31st March 1973 for Slum Clearance Suburbs & Extended Suburbs.
 *No. 27.—Statement showing scheduled land as specified in the Schedules W to Z annexed to Act XIII of 1933.
 *No. 28.—Statement showing the actual investments on account of the Sinking Fund of different Improvement Trust 31st March 1973.
 *No. 28A.—Statement showing actual investments on account of Sinking Fund for Slum Clearance upto 31st March 1973 compared with the amounts which should have accumulated upto that date on the basis of the fixed instalments and the sums set aside as Sinking Fund, as at 31st March 1973.
 *No. 28-B.—Slum Clearance (Suburb) Sinking funds as on 31-3-1973.
 No. 29.—Statement showing outstanding loans of the Bombay Improvement Trust due by the Municipality, the interest outstanding on 1st April 1972 on the different loans, the amount payable for the year 1972-73, the amount paid during the year and the balances outstanding on 31st March 1973.
 No. 29A.—Statement showing outstanding loan of the Slum Clearance Scheme (City) Budget 'B' etc.
 *No. 30.—Comparison of Face, Purchase and Market values at 31st March 1973 of the different securities held in the Sinking Fund.
 *No. 30A.—Comparison of Face, Purchase and Market values at 31st March 1973 of the different securities held in the Slum Clearance.
 No. 30B.—Comparison of Face, Purchase and Market values as on 31st March 1973 of the different (vide para 3(ii) held in the chief Fund (vide 32) (ii) Para of the chief Accountant's report.

EDUCATION FUND

- No. 31.—Revenue Account for the year ended 31st March 1973.
 *No. 32.—Statement showing Net Receipts during the year 1972-73 from all sources as contrasted with the original and Revised Budget estimates.
 *No. 33.—Statement showing actuals Expenditure as compared with the final sanctioned grants for 1972-73.
 No. 34.—Revenue Account Balance Sheet as at 31st March 1973.
 No. 35.—Capital Fund Balance Sheet as at 31st March 1973.
 *No. 36.—Block Account showing details of Capital Expenditure upto 31st March 1973.
 No. 37.—Statement showing outstanding loan due by the Municipality, the interest outstanding on 1st April 1972 on different loans, the amount payable for the year 1972-73 the amount paid by the State Bank of India and in office during that year and the balances outstanding on 31st March 1973.
 *No. 38.—Statement showing the actual investment on account of the sinking Fund of different Education Loans upto 31st March 1973 compared with the amounts which should have accumulated upto that date on the basis of the fixed instalment and the sums set aside as Sinking Fund as at 31st March 1973.
 *No. 39.—Statement of Advances for 1972-73.
 *No. 39A.—Statement of Deposit Accounts for 1972-73.
 *No. 39B.—Statement of interest accrued but not paid in respect of the Municipal loans outstanding on 31st March 1973.
 No. 40.—Statement showing the amounts of receipts and Expenditure respectively credited and debited on the Education Fund during the year 1972-73 and the balance at the credit of the fund at the close of the year 1972-73. (i.e. 31st March 1973).
 *No. 41.—Comparison of Face, Purchase and Market value at 31st March 1973 of the different securities held in the Sinking Fund
 *No. 41A.—Statement showing the amount of and object for which the endowments held under the Endowment Fund were received from different parties upto 31st March 1973.

APPENDIX No. 1.

General Financial Statistics.

	1968-69.	1969-70.	1970-71.	1971-72.	1972-73.
<i>General</i>					
1. Area of the Greater Bombay (acres) ...	1,08,787	444.17 sq. Km.	4,35,074 sq. Km.	407.91 sq. Km.	4,37,2258 sq. Km.
2. Population ...	41,52,056	† 41,52,056	* 59,68,546	59,68,546	59,68,546
<i>Rates and Assessments.</i>					
3. Rateable value Rs.	67,99,12,798	69,60,36,203	78,96,00,898	85,06,52,370	93,83,20,352
4. Rateable value per head of population.	Rs. 163-75	Rs. 167-54	Rs. 132-29	Rs. 142-52	Rs. 157-21
5. Properties registered in the Assessment Book	1,92,381	1,99,859	2,06,016	2,02,618	2,07,284
<i>Income.</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
	at 24 per cent.	at 24 per cent.	at 24 per cent.	at 24 per cent.	at 24 per cent.
6. General Tax ...	14,89,18,415	15,12,67,406	16,34,34,990	18,08,54,126	18,22,45,094
7. Income from other sources ...	26,71,00,095	30,86,10,177	35,70,14,534	40,22,22,691	42,06,29,398
Total Income Rs. ...	41,60,18,510	45,98,77,583	52,04,49,524	58,30,76,817	60,28,74,492
8. Incidence of Taxation per head	Rs. 89.13	Rs. 97.20	Rs. 77.73	Rs. 84.76	Rs. 88.88
<i>Loans.</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
9. Debt outstanding ...	98,15,62,981	1,09,51,88,864	1,14,34,04,554	1,18,78,68,810	1,30,74,33,299
10. Redemption and Sinking Funds in hand or invested ...	26,28,50,142	29,10,12,182	31,67,64,227	33,04,50,236	37,08,77,713
11. Net Loan Debt ...	71,87,12,839	80,41,76,682	82,66,40,327	85,74,18,574	93,65,55,586
12. Net Debt per head of population ...	Rs. 173.10	Rs. 193.68	Rs. 138.50	Rs. 143.65	Rs. 156.92
<i>Expenditure</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
13. <i>Water Works—</i>					
Maintenance ...	3,13,69,598	3,95,15,106	3,92,21,606	3,22,44,889	3,39,34,629
Debt Charges ...	4,70,11,902	5,40,37,968	6,32,33,054	6,32,86,340	6,41,91,171
14. Primary Education ...	5,99,73,600	6,04,45,050	6,66,06,669	6,94,34,560	7,45,35,685
15. Medical Relief ...	5,19,71,588	6,34,61,300	8,00,13,329	8,72,01,960	10,69,69,857
16. Other City services ...	16,80,71,010	20,12,58,538	22,32,56,107	27,98,64,410	30,73,85,807
17. Debt Charges—excluding Water Works ...	3,96,09,521	4,37,80,895	5,34,45,485	5,54,98,706	5,82,52,166
Total Expenditure Rs. ...	39,80,07,224	46,24,98,857	52,57,76,250	58,75,30,865	64,52,69,315

† As per census 1961.

* As per census 1971.

APPENDIX No. 2.

Revenue Account for the year ended 31st March 1973

Particulars	Total		Particulars.	Total.	
	Rs.	P.		Rs.	P.
To Revenue Expenditure ...	64,52,69,315.28		By Revenue Receipts ...	60,28,74,491.80	
			By Balance being deficit for the year ...	4,23,94,823.48	
	64,52,69,315.28			64,52,69,315.28	
To Contribution towards Improvement Schemes ... during 1973-74.	Rs.	P.	By Surplus Revenue Fund as at 1st April 1972 ...	Rs.	P.
	2,62,71,200.00		By Deficit for the year ...		4,23,94,823.48
To Revenue Expenditure to be incurred in 1973-74 and provided for as renewed grants ...	3,00,00,000.00				6,63,49,032.43
	5,62,71,200.00		By Contribution towards Improvement Schemes during 1972-73 ...	2,41,60,760.00	
To Balance being Surplus Revenue Fund as at 31st March 1973 as per Appendix No. 5 of Division I	+23,71,15,650.07		By Revenue of previous years reserved for the year 1972-73	4,61,95,229.00	7,03,55,989.00
II	-10,71,27,289.26				
III	-4,95,54,539.38				
	8,04,33,821.43				
	13,67,05,021.43				13,67,05,021.43

Appendix No. 5
(Consolidated)

Revenue Account, Balance Sheet as at 31-3-1973

LIABILITIES	Rs.		Rs.		ASSETS		Rs.	
	P.		P.		P.		P.	
Outstanding liabilities					Deposit in G. P. Notes with S. B. I. Div. I			20,20,000.00
Cash Bill outstanding					Cash at Bank—			
Budget 'A' Div. I ..	2,92,731.47				Div. I Credit	94,06,664.70		
" II ..	82,009.43				Div. II Credit	28,08,359.40		
" III ..	4,93,956.44				Div. III Credit	15,64,330.92		
			8,68,697.34		Cash in Office—			
Cheques payable A/c.					Div. I	2,87,62,155.44		
Budget 'A' Div. I ..	1,22,51,139.37				Div. II	92,12,743.53		
" II ..	25,45,573.22				Div. III	27,12,950.91		
" III ..	8,26,618.72							
			1,56,23,336.31		Advance from Surplus Moneyes Div. I			4,01,87,849.88
Stores purchase outstanding A/c.			14,18,027.17		Municipal Loans - Interest Warrant payable Account			58,144.30
Stock Adjustment A/c.			171,310.58		Budget 'A' Div. I ..	42,248.45		
Outstanding charges for 1971-72 and previous years					" II ..	17,640.12		
Budget 'A' Div. I ..	2,00,00,000.00				" III ..	5,638.50		
" II ..	70,00,000.00		3,00,00,000.00		B.I.T. Loans Interest Warrant payable Account			65,527.07
" III ..	30,00,000.00				Interest on B.I.T. Loans payable Account			8,609.88
Outstanding charges in respect of interest Accrued but not paid					Current Account with State Bank of India for payment of Interest on Suburban Loans			4,698.96
Budget 'A' Div. I ..	1,25,33,817.97				Budget 'A' Div. II ..	1,26,495.05		
" II ..	36,35,834.69				" III ..	82,326.80		
" III ..	17,94,995.85		1,79,64,648.51		Current Account with State Bank of India for repayment payable A/c.			2,08,821.85
Contribution to Budget 'B' 1973-74.					Contribution Receivable from Budget 'E'			10,500.00
Budget 'A' Div. I ..	1,51,79,095.00				Interest Receivable Account			50,80,373.65
" II ..	73,76,890.00				Due for Stores Sold			29,20,000.00
" III ..	37,15,215.00		2,62,71,200.00		Advances Recoverable Account			42,27,100.47
Deposit in Cash and Public Securities from contractors and Private Parties					Budget 'A' Div. I ..	3,84,95,275.31		
Budget 'A' Div. I ..	16,14,48,478.95				" II ..	26,83,597.84		
" II ..	5,81,09,264.31				" III ..	14,17,439.12		
" III ..	2,26,54,860.83		24,22,12,544.09		Capital Stores purchase A/c.			4,25,96,312.27
Amount Transferred from — Div. II and III to I			1,0,388.26		Reserve Stores purchase A/c.			14,02,817.09
					General Stores stock Project			53,495.94
					Capital stores stock Project			28,369.00
					Deposit in Securities from public with State Bank of India			1,47,88,627.03
					Budget 'A' Div. I ..	65,85,075.00		
					" II ..	10,22,140.12		
					" III ..	4,52,150.00		
Total outstanding Liabilities			33,46,31,152.26		In Office.			80,59,365.12
					Budget 'A' Div. I ..	1,98,400.00		
					" II ..	3,69,500.00		
					" III ..	2,96,330.00		
								8,64,230.00
					Investment in Securities fixed Deposit Call & current A/c.			22,52,87,651.63
					Investment of Surplus Moneyes in Public Securities			38,013.14
					Total assets against outstanding liabilities			33,46,31,152.26
					Total C. F....			33,46,31,152.26

Appendix No. 5—Contd.

(Consolidated)

LIABILITIES	Rs.		Rs.		ASSETS	Rs.		Rs.	
	P.		P.			P.		P.	
Total B.O. ...			33,46,31,152.26		Total B.O....			33,46,31,152.26	
Special Fund Account.					Investment of Special Fund in advance for purchase of Plant and Machinery.				
Municipal Fire and Accident Insurance Fund A/c. ...			32,97,725.61		Advance from Plant & Machinery Depreciation Fund for levelling and Matalling etc. ...			15,56,423.70	
Net Premia Fund Account ...			45,69,206.45		Advance from Net Premia Fund for purchase of Plant and Machinery to Municipal Printing Press ...			11,089.60	
Provident Fund Account ...			25,77,98,290.98		Municipal Fire & Accident Insurance Fund ...			26,89,044.43	
Plant and Machinery Depreciation Fund Account ...			33,07,204.17		Plant and Machinery depreciation Fund ...			8,32,260.75	
Hospital Fund Account					Net Premia Fund ...			38,42,878.82	
Budget 'A' Div. I ...	20,14,383.72				K. E. M. Hospital G. S. M. College Research Fund ...			73,396.35	
" II ...	1,41,691.87				Hospital Fund ...			17,87,943.67	
" III ...	94,500.00		22,50,575.59		Land R. A. Fund ...			76,28,243.69	
K. E. M. Hospital G. S. M. College Equipment Fund A/c. ...			1,80,971.04		G. S. M. College K. E. M. Hospital Equipment Fund ...			16,295.32	
G. S. M. College K. E. M. Hospital Research Fund A/c. ...			80,133.43		Motor Vehicles (Third party) Ins. Fund. ...			1,56,973.44	
Fidelity Guarantee Insurance Fund A/c. ...			5,02,013.43		Investment of Special Fund in Securities.				
Motor Vehicles (Third party) Insurance Fund A/c. ...			16,42,157.84		Provident Fund ...			25,77,98,205.56	
Land R. A. Fund Account ...			1,00,95,067.06		Fidelity Guarantee Ins. Fund ...			5,02,00.00	
Pension Fund Account ...			13,79,94,339.60		Motor Vehicles (Third party) Ins. Fund ...			11,78,700.00	
Gratuity Fund Account ...			1,22,34,002.24		Endowment Fund ...			13,38,271.49	
Public Monument Maintenance Fund Account					Pension Fund ...			20,00,000.00	
Budget 'A' Div. I ...	1,22,912.44				Public Monument Maintenance Fund Budget 'A' Div. I ...	1,22,820.44			
" II ...	16,317.94		1,39,230.38		" II ...	16,300.00		1,39,120.44	
Endowment Fund Account ...			13,39,383.64		Hospital Fund Budget 'A' Div. II ...	1,41,600.00			
Water Main Depreciation Fund Account Div. II ...			95,472.78		" III ...	94,500.00		2,36,100.00	
Secondary Schools Committee Gymnasium Fund A/c. Div. II ...			6,330.78		Water Main Depreciation Fund Div. II ...			95,400.80	
Total Special Fund A/c. ...			43,55,32,105.02		Secondary Schools Committee Gymnasium Fund Div. II ...			6,326.40	
Surplus Revenue Fund A/c. Budget 'A' Div. I ...	23,71,15,650.07				Investment of Special Funds in Fixed Deposit and Cash etc.				
Deficit " II ...	10,71,27,289.26				Municipal Fire and Accident Insurance Fund ...			6,08,681.18	
Deficit " III ...	4,95,54,539.38		8,04,33,821.43		Net Premia Fund ...			7,15,238.03	
					Provident Fund ...			85.42	
					Plant & Machinery Depreciation Fund ...			9,18,519.72	
					Hospital Fund Budget 'A' Div. I ...	2,26,440.05			
					" II ...	91.87		2,26,531.92	
Total C.F. ...			85,05,97,078.71		Total Special Fund Ins. C.F. ...			28,43,57,730.73	
					Total C.F., ..			33,46,31,152.26	

APPENDIX No. 7.
(CITY)

Capital Fund Balance Sheet as at 31st March 1973

LIABILITIES.	Rs.		P.		ASSETS.	Rs.		P.	
	Rs.	P.	Rs.	P.		Rs.	P.	Rs.	P.
Loans Outstanding :-					Block Account :-				
Due to Government (Vide details as shown in Appendix No. (11))	2,55,97,762.75				Loan Funds -				
Due to Public-- (Vide details as shown in Appendix No. (11))	91,41,03,500.00				Property and Assets at original cost per Appendix No. 8	Rs. 1,46,49,44,868	P. 74		
Advances from Special Funds-- (Vide details as shown in Appendix No. (11))	1,70,27,035.43				Deduct--Subventions granted for the conversions of privies into water closets, shown below	Rs. 14,67,563	P. 00		
			95,67,33,299	18					
Trust Fund Account--		Rs. P.			Add--Subventions granted for the conversion of privies into water closets	Rs. 22,97,055.00			
Donation from Mr. D. M. Bahadurji		3 69			Deduct--Expenditure written off	Rs. 8,29,492.00	14,67,563	00	1,46,49,44,868 74
Donation from-- The Trustees of the late Justice Badruddin Tysbi Memorial Fund for the construction of Orchard House at Victoria Garden		1,694 50			Trust Fund--				
Donation from-- The Chairman of Trustees of the Lotus Trust for the construction of electric crematorium at Chandanwadi		71 62			Expenditure as per Appendix No. 8			79,96,989	47
Donation from-- Reserve Bank of India for construction of a ward 38/40 beds for accommodating their Sick employees in K. E. M. Hospital		48,417 39			Worn out Water Mains Renewal Fund--				
Donation from-- The Trustees of Shri Anant Nathaji Maharaj Jain Temple towards the cost of construction of a new public convenience,		1 25			Expenditure as per Appendix No. 8			9,64,525	91
Amount received from Government of Bombay for the work of construction of Sub-way near church Gate Station		00 38			Municipal Land and Buildings Fund--				
Amount received from Central Government for Isolation Hospital		1,25,000 00			Land purchased and Buildings erected as per Appendix No. 8			43,03,043	42
Amount received from Messrs. J. J. Kapadia and Co. Ltd. for construction of a new Building for T. N. M. College in Mural Painting for)		65 62	1,75,254.45		Temporary advance to Development Fund			31,77,390	37
Surplus -					Investments -				
CAPITAL ASSETS AT ORIGINAL COST OVER LIABILITIES:-					Sinking Fund -				
Sinking Fund on Loans	27,99,70,908.83				As per Appendix No. 10	(a)		27,99,70,908	83
Contributions from Special Funds	8,03,171.02				Loan and Trust Funds -				
Do. Revenue for Loan Works Establishment	17,869.98				Amount reserved for capital stores			1,67,21,464	74
Do. G. I. P. Railway	3,74,000.00				In fixed deposits	2,01,65,100	00		
Do. Port Trust	1,56,500.00				In cash	69 84		2,01,65,169	84
Do. Government for Schools	5,00,000.00								
Do. Government for widening the Love Grove Bridge	91,234.00								
Do. Worn-out Water Mains Renewal Fund	9,64,525.91								
Do. Land and Buildings Fund	74,80,433.79								
Do. Development Fund	1,34,32,075.48								
Do. Revenue towards Bai Jerbai Wadia Hospital for Children	7,00,000.00								
Do. Trust Fund	79,96,969.47								
Do. Trustees Gokuldas Tejpal Charities	18,123.64								
Grant in aid from Government for widening the Road in Colaba division	12,975.87								
Loan Redemption Fund	Rs. 57,38,25,471.61								
Less-- Assets written off	Rs. 4,50,08,471.91								
	52,88,16,999.70		84,13,35,807.69						
Grand Total			1,79,82,44,361.32					1,79,82,44,361	32

(a) For Face, Purchase and Market Values of Securities held in the Sinking Funds please see Appendix No. 16A--
z The amount represents the balance on account of Trust Funds and Loan Funds.

APPENDIX No. 8.
(CITY)
SUMMARY

	Total Capital Expenditure upto 31st March 1972.	Expenditure During 1972-73.	Capital Expenditure upto 31st March 1973.
		Out of Loan Funds.	
	Rs.	Rs.	Rs.
(1) Loan Funds			
I.—General supervision, Collec- tion of Revenue, etc. ...	1,84,82,644	8,63,809	1,93,46,453
II.—Water Works ...	82,04,66,109	5,58,46,958	87,63,13,067
III.—Education, Primary ...	27,98,012	...	27,98,012
IV.—Free Reading Rooms, libraries and Municipal High Schools ...	1,76,782	1,47,733	3,24,515
V.—Public Health Department ...	1,40,58,838	1,34,842	1,41,93,680
VI.—Medical Relief and Education.	7,38,80,546	36,96,238	7,75,76,784
VII.—Street, Cleansing and Conser- vancy Road Watering and Halalkhore Service ...	6,68,74,350	34,83,942	7,03,58,292
VIII.—Roads, Drains and Sewers ...	19,24,32,469	95,88,011	20,20,20,480
IX.—Mechanical ...	37,11,597	...	37,11,597
X.—Buildings, Land Acquisition and Management ...	8,70,48,936	29,65,138	9,00,14,074
XI.—Fire Brigade ...	33,91,459	9,39,378	43,30,837
XIII.—Gardens and Open Spaces ...	1,17,07,739	2,03,135	1,19,10,874
XIV.—Markets and Slaughter Houses	5,50,28,290	34,07,596	5,84,35,886
XV.—Slum Service ...	50,43,481	32,011	50,75,492
XVI.—Measures for Civil Defence...	1,87,148	...	1,87,148
XVII.—Greater Bombay ...	2,81,069	...	2,81,069
XVIII.—Industrial Estates ...	90,68,955	1,66,029	92,34,984
Discount and other charges on Loans	17,48,765	...	17,48,765
Plant and Machinery ...	1,23,14,617	47,68,243	1,70,82,860
(1) Loan Funds—Total.	1,37,87,01,806	* 8,62,43,063	1,46,49,44,869
(2) Trust Fund			
Works executed ...	79,95,128	1,861	79,96,989
(3) Worn out Water Mains Renewal Fund			
Works executed ...	9,64,526	...	9,64,526
(4) Land and Buildings Fund			
Lands purchased and buildings erected ...	43,03,044	...	43,03,044
Grand Total.	1,39,19,64,504	8,62,44,924	1,47,82,09,428

* This figure shows total expenditure during the year after deduction of Rs. 34,49,134 on account of Assets written off during the year.

Note—Figure as per para 10 is
Less—Figure as per appendix 8 assets written
of during the year which is not deducted
in para 10 of Annual A/c.

Rs. 8,96,92,197
8,62,43,063
34,49,134

APPENDIX No. 8

(Suburbs)

SUMMARY

	Total Capital expenditure upto 31st March 1972.		Expenditure during 1972-73.		Total Capital expenditure upto 31st March 1973.	
	Rs.	P.	Rs.	P.	Rs.	P.
(1) Loan Funds.						
I.—General Supervision, Collection of Revenue, etc. ...	29,06,581.02		5,24,626.60		34,31,207.62	
II.—Water Works ...	3,88,62,200.41		22,33,102.37		4,10,95,302.78	
III.—Education Primary ...	1,24,023.59		...		1,24,023.59	
IV.—Free Reading Rooms, Library etc. ...	67,040.20		...		67,040.20	
V.—Public Health Department ...	8,01,604.92		80,872.13		8,82,477.05	
VI.—Medical Relief and Education ...	1,36,19,182.15		8,53,468.44		1,44,72,650.59	
VII.—Street Cleansing and [Conservancy, etc. ...	5,04,88,578.35		44,39,171.05		5,49,27,749.40	
VIII.—Roads, S. W. Drains] and [Public Lighting ...	10,40,77,782.87		1,26,28,726.93		11,67,06,509.80	
IX.—Mechanical ...	50,501.36		...		50,501.36	
X.—Buildings, Land Acquisition and Management ...	1,34,37,577.51		18,88,775.80		1,53,26,353.31	
XI.—Fire Brigade ...	15,12,699.06		1,000.00		15,13,699.06	
XIII.—Gardens and Open Spaces ...	23,47,504.02		3,38,212.04		26,85,716.06	
XIV.—Markets and Slaughter Houses ...	33,61,985.72		7,24,793.65		40,86,779.37	
XV.—Slum service and Village Amenities ...	39,03,720.95		30,522.27		39,34,243.22	
XVI.—Industrial Estates ...	2,94,809.00		Cr. 2,94,729.00		80.00	
Suspense Account ...	20,85,822.34		1,64,176.01		22,49,998.35	
Plant and Machinery ...	50,36,209.13		7,54,808.85		57,91,017.98	
Discount and other charges on Loans ...	8,23,218.47		Cr. 8,23,218.47		...	
(1) Loan Funds—Total ...	24,38,01,041.07		2,35,44,308.67		26,73,45,349.74	
(2) Trust Fund						
Works Executed ...	3,27,408.00		...		3,27,408.00	
Grand Total ...	24,41,28,449.07		2,35,44,308.67		26,76,72,757.74	

APPENDIX No. 8
(EXTENDED SUBURBS)
SUMMARY

	Total Capital Expenditure upto 31st March 1972.		Expenditure during 1972-73		Total Capital Expenditure upto 31st March 1973.	
	Rs.	P.	Rs.	P.	Rs.	P.
Loan Funds:						
(I.) General Supervision, Collection of Revenue, etc. ...	23,95,837.34		6,59,285.78		30,55,123.12	
(II.) Water Works ...	1,82,19,548.40		17,91,731.06		2,00,11,279.46	
(VI.) Public Health Department ...	8,42,499.33		1,19,809.92		9,62,309.25	
(VI.) Medical Relief and Education ...	57,75,666.06		10,44,398.71		68,20,064.77	
VII.— Street Cleansing and Conservancy etc. ...	2,15,48,688.31		47,49,668.22		2,62,98,356.53	
VIII.— Roads, S. W. Drains and Public Lighting ...	4,53,28,310.27		89,05,753.56		5,42,34,063.83	
IX.— Mechanical ...	17,075.00		...		17,075.00	
X.— Buildings, Land Acquisition and Management ...	24,37,573.20		15,35,235.23		39,72,808.43	
XI.— Fire Brigade ...	1,64,867.15		...		1,64,867.15	
XIII.— Gardens and Open Spaces ...	9,06,643.47		28,810.12		9,35,453.59	
XIV.— Markets and Slaughter Houses ...	14,34,920.73		30,200.00		14,65,120.73	
XV.— Slum Service and Village Amenities ...	11,42,166.81		...		11,42,166.81	
Plant and Machinery ...	3,13,967.51		28,326.49		3,42,294.00	
Discount and other charges on Loans ...	45,222.50		...		45,222.50	
Grand Total ...	10,05,72,986.08		1,88,93,219.09		11,94,66,205.17	

Statement showing Outstanding Loans due by the Municipal Corporation the interest outstanding on Ist
State Bank of India, and in Office during that year

Serial No.	Particulars of Loans.	Rate of Int erest. per Annum	Balance due on 1st April 1972.		Amount raised in 1972-73.		Total.		Amount re-paid in 1972-73	
			Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
Loans raised from Government.										
1	Rs. 100 Lakhs Loan (1953-54) ..	4 1/2%	39,08,044.10		..		39,08,044.10		4,91,053.13	
2	Rs. 100 Lakhs Loan (1953-54) ..	4 1/2%	39,08,044.10		..		39,08,044.10		4,91,053.13	
3	Rs. 100 Lakhs Loan (1954-55) ..	4 1/2%	43,79,078.21		..		43,79,078.21		4,71,034.18	
4	Rs. 100 Lakhs Loan (1954-55) ..	4 1/2%	43,79,078.21		..		43,79,078.21		4,71,034.18	
5	Rs. 100 Lakhs Loan (1955-56) ..	4 1/2%	48,30,909.62		..		48,30,909.62		4,51,831.34	
6	Rs. 100 Lakhs Loan (1955-56) ..	4 1/2%	48,30,909.62		..		48,30,909.62		4,51,831.34	
7	Rs. 50 Lakhs Loan (1955-56) ..	4 1/2%	24,15,452.10		..		24,15,452.10		2,25,915.91	
	Total Loans raised from Government ..		2,86,51,515.96		..		2,86,51,515.96		30,53,753.21	
Loans raised from Public										
1	Rs. 70 Lakhs Loan for reduplication Tansa main and other Auxiliary Works ..	4 %	20,60,000.00		..		20,60,000.00		..	
2	Rs. 75 Lakhs Loan (1947-48) ..	3 1/2%	75,00,000.00		..		75,00,000.00		..	
3	Rs. 1.25 Crores Loan (1949-50) ..	3 1/2%	88,14,500.00		..		88,14,500.00		..	
4	Rs. 1,37,50,000 Loan (1960-61) ..	4 1/2%	1,37,50,000.00		..		1,37,50,000.00		1,37,50,000.00	
5	Rs. 55 Lakhs Loan (1961-62) ..	4 1/2%	55,00,000.00		..		55,00,000.00		..	
6	Rs. 200 Lakhs Loan (1962-63) ..	4 1/2%	2,00,00,000.00		..		2,00,00,000.00		..	
7	Rs. 165 Lakhs Loan (1963-64) ..	4 1/2%	1,65,00,000.00		..		1,65,00,000.00		..	
8	Rs. 220 Lakhs Loan (1964-65) ..	5%	2,20,00,000.00		..		2,20,00,000.00		..	
9	Rs. 250 Lakhs Loan (1965-66) ..	5 1/2%	2,50,00,000.00		..		2,50,00,000.00		..	
10	Rs. 250 Lakhs Loan (1966-67) ..	5 1/2%	2,50,00,000.00		..		2,50,00,000.00		..	
11	Rs. 400 Lakhs Loan (1967-68) ..	6 %	2,90,95,000.00		..		2,90,95,000.00		..	
12	Rs. 200 Lakhs Loan (1967-68) ..	7 %	2,00,00,000.00		..		2,00,00,000.00		..	
13	Rs. 440 Lakhs Loan (1968-69) ..	6 %	4,40,00,000.00		..		4,40,00,000.00		..	
14	Rs. 300 Lakhs Loan (1968-69) ..	7 %	3,00,00,000.00		..		3,00,00,000.00		..	
15	Rs. 550 Lakhs Loan (1969-70) ..	6 %	6,15,98,000.00		..		6,15,98,000.00		..	
16	Rs. 600 Lakhs Loan (1969-70) ..	7 %	6,00,00,000.00		..		6,00,00,000.00		..	
17	Rs. 100 Lakhs Loan (1970-71) ..	6 %	1,15,41,000.00		..		1,15,41,000.00		..	
18	Rs. 370 Lakhs Loan (1971-72) ..	6 %	4,07,00,000.00		..		4,07,00,000.00		..	
19	Rs. 260 Lakhs Loan (1972-73) ..	6 %	..		2,86,00,000.00		2,86,00,000.00		..	
	Total Loans raised from Public		44,30,58,500.00		2,86,00,000.00		47,16,58,500.00		1,37,50,000.00	

No. 11 City

April 1972 on the different Loans, the amount payable for the year 1972-73, the amount paid by the and the balances outstanding on 31st March 1973.

Balance due on 31st March 1973.		Interest outstanding on 1st April 1972		Interest payable in 1972-73.		Total interest due		Deduct—Interest paid by the State Bank of India and in Office.		Outstanding balance on 31st March 1973.	
8		9		10		11		12		13	
Ra.	Pa.	Ra.	Pa.	Ra.	Pa.	Ra.	Pa.	Ra.	Pa.	Ra.	Pa.
34,16,990.97		..		1,66,091.87		1,66,091.87		1,66,091.87		..	
34,16,990.97		..		1,66,091.87		1,66,091.87		1,66,091.87		..	
39,08,044.03				1,86,110.82		1,86,110.82		1,86,110.82		..	
39,08,044.03		..		1,86,110.82		1,86,110.82		1,86,110.82		..	
43,79,078.28		..		2,05,313.66		2,05,313.66		2,05,313.66		..	
43,79,078.28		..		2,05,313.66		2,05,313.66		2,05,313.66		..	
21,89,536.19		..		1,02,656.71		1,02,656.71		1,02,656.71		..	
2,55,97,762.75		..		12,17,689.41		12,17,689.41		12,17,689.41		..	
20,60,000.00		9,992.89		82,402.00		92,394.89		81,330.00		2.00*	11,062.89
75,00,000.00		2,084.26		2,43,757.00		2,45,841.26		2,44,887.42		946.84	700*
88,14,500.00		46,999.71		2,86,472.00		3,33,471.71		2,98,646.97		34,823.74	100*
—		106.25		5,84,379.00		5,84,485.25		3,63,717.23		2,20,768.02*	
55,00,000.00		..		2,33,752.00		2,33,752.00		2,33,750.00		2.00*	
2,00,00,000.00		..		9,50,003.00		9,50,003.00		9,47,506.25		2,493.75*	3.00*
1,65,00,000.00		3,218.78		7,83,754.00		7,86,972.78		7,83,263.07		3,705.71	4.00*
2,20,00,000.00		987.50		11,00,004.00		11,00,991.50		10,73,418.50		27,569.00	4.00*
2,50,00,000.00		3,735.25		14,37,505.00		14,41,240.25		14,28,328.75		12,906.50	5.00*
2,50,00,000.00		1,718.37		14,37,500.00		14,39,218.37		14,37,982.12		1,236.25	
2,90,95,000.00		5,220.00		17,45,700.00		17,50,920.00		17,44,260.00		6,660.00	
2,00,00,000.00		..		14,00,000.00		14,00,000.00		14,00,000.00		..	
4,40,00,000.00		12,645.00		26,40,001.00		26,52,646.00		26,18,940.00		33,705.00	1.00*
3,00,00,000.00		..		21,00,000.00		21,00,000.00		21,00,000.00		..	
6,15,98,000.00		7,245.00		36,95,880.00		37,03,125.00		36,91,815.00		11,310.00	
6,00,00,000.00		..		42,00,000.00		42,00,000.00		42,00,000.00		..	
1,15,41,000.00		12,945.00		6,92,460.00		7,05,405.00		7,03,155.00		2,250.00	
4,07,00,000.00		..		34,20,000.00		34,20,000.00		24,41,250.00		750.00	
2,86,00,000.00		..		19,50,000.00		19,50,000.00		..		9,78,000.00*	19,50,000.00*
45,79,08,500.00		1,06,898.01		2,89,83,569.00		2,90,90,467.01		2,57,92,250.31		1,49,419.68	31,48,797.02*

Appendix

Serial No.	Particulars of Loans and Advances	Rate of Interest per Annum	Balance due on 1st April 1972.		Amount raised in 1972-73.		Total.		Amount re-paid 1972-73.	
			Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
1	Rs. 10 Lakhs Loan for the conversion of Storm Water Reservoir at Clerk Road into Public Park (1920)	5 %	10,00,000	00	..	..	10,00,000	00	..	..
2	Rs. 20 Lakhs Loan (1943-44)	3½%	20,00,000	00	..	..	20,00,000	00	..	..
3	Rs. 22 Lakhs Loan (1944-45)	3½%	22,00,000	00	..	..	22,00,000	00	..	..
4	Rs. 25 Lakhs Loan (1945-46)	3½%	25,00,000	00	..	..	25,00,000	00	..	..
5	Rs. 54 Lakhs Loan (1946-47)	3 %	54,00,000	00	..	..	54,00,000	00	..	..
6	Rs. 61 Lakhs Loan (1948-49)	3 %	61,00,000	00	..	..	61,00,000	00	..	..
7	Rs. 80 Lakhs Loan (1950-51)	3½%	80,00,000	00	..	..	80,00,000	00	..	..
8	Rs. 85 Lakhs Loan (1953-54)	4 %	85,00,000	00	..	..	85,00,000	00	..	..
9	Rs. 50 Lakhs Loan (1953-54)	4 %	50,00,000	00	..	..	50,00,000	00	..	..
10	Rs. 70 Lakhs Loan (1954-55)	4 %	70,00,000	00	..	..	70,00,000	00	..	..
11	Rs. 130 Lakhs Loan (1956-57)	4 %	1,30,00,000	00	..	..	1,30,00,000	00	..	..
12	Rs. 100 Lakhs Loan (1957-58)	4½%	1,00,00,000	00	..	..	1,00,00,000	00	..	..
13	Rs. 100 Lakhs Loan (1958-59)	4½%	1,00,00,000	00	..	..	1,00,00,000	00	..	..
14	Rs. 170 Lakhs Loan (1960-61)	4½%	1,70,00,000	00	..	..	1,70,00,000	00	..	..
15	Rs. 225 Lakhs Loan (1961-62)	4½%	2,25,00,000	00	..	..	2,25,00,000	00	..	..
16	Rs. 150 Lakhs Loan (1962-63)	4½%	1,50,00,000	00	..	..	1,50,00,000	00	..	..
17	Rs. 235 Lakhs Loan (1963-64)	4½%	2,35,00,000	00	..	..	2,35,00,000	00	..	..
18	Rs. 100 Lakhs Loan (1964-65)	4½%	1,00,00,000	00	..	..	1,00,00,000	00	..	..
19	Rs. 300 Lakhs Loan (1965-66)	6 %	3,00,00,000	00	..	..	3,00,00,000	00	..	..
20	Rs. 200 Lakhs Loan (1965-66)	6 %	2,00,00,000	00	..	..	2,00,00,000	00	..	..
21	Rs. 400 Lakhs Loan (1966-67)	6 %	4,00,00,000	00	..	..	4,00,00,000	00	..	..
22	Rs. 250 Lakhs Loan (1966-67)	6 %	2,50,00,000	00	..	..	2,50,00,000	00	..	..
23	Rs. 800 Lakhs Loan (1967-68)	6 %	8,00,00,000	00	..	..	8,00,00,000	00	..	..
24	Rs. 325 Lakhs Loan (1968-69)	6 %	3,25,00,000	00	..	..	3,25,00,000	00	..	..
25	Rs. 200 Lakhs Loan (1972-73)				2,00,00,000	00	2,00,00,000	00		
26	Rs. 400 Lakhs Loan (1972-73)	3½%			4,00,00,000	00	4,00,00,000	00		
	Total Loans raised from Internal		39,62,00,000	00	6,00,00,000	00	45,62,00,000	00		
	Total Loans raised from Public		44,30,58,500	00	2,86,00,000	00	47,16,58,500	00	1,37,50,000	00
	Total from Public and Internal		83,92,58,500	00	8,86,00,000	00	92,78,58,500	00	1,37,50,000	00
	Advances from different Funds for purchase of Plant and Machinery									
1	Advance of Rs. 5,01,261.99 from Net Premia Fund 1967-68	6 %	1,12,261	16	..	..	1,12,261	16	1,12,261	16
2	Advance of Rs. 2,66,800.57 from Municipal Fire & Accident Insurance Fund 1966-67	6 %	59,754	50	..	..	59,754	50	59,754	50
3	Advance of Rs. 1,82,013.60 from Hospital Fund 1967-68	6 %	40,765	21	..	..	40,765	21	40,765	21
4	Advance of Rs. 6,13,315.55 from Plant and Machinery Depreciation Fund 1967-68	6 %	1,37,357	03	..	..	1,37,357	03	1,37,357	03
5	Advance of Rs. 23,941.80 from K. E. M. Hospital Equipment Fund 1967-68	6 %	5,360	66	..	..	5,360	66	5,360	66
6	Advance of Rs. 3,45,378.63 from Land Reclamation and Acquisition Fund 1967-68	6 %	77,349	04	..	..	77,349	04	77,349	04
7	Advance of Rs. 4,47,150.72 from Net Premia Fund 1968-69	6 %	1,94,618	16	..	..	1,94,618	16	94,474	91
	Total Pl. & Mach.		6,27,465	78			6,27,465	78	5,27,322	51

No. 11 City—(Contd.)

Balance due on 31st March 1973.		Interest outstanding on 1st April 1972.		Interest payable in 1972-73.		Total Interest due.		Deduct-Interest paid by the State Bank of India and in Office.		Out standing Balance on 31st March 1973.		
8		9		10		11		12		13		
Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	
10,00,000	00	..	..	50,000	00	50,000	00	50,000	00	..	..
20,00,000	00	..	..	70,000	00	70,000	00	70,000	00	..	..
22,00,000	00	..	..	77,000	00	77,000	00	77,000	00	..	..
25,00,000	00	..	..	87,500	00	87,500	00	87,500	00	..	..
54,00,000	00	..	..	1,62,004	00	1,62,004	00	1,62,000	00	4	00*
61,00,000	00	..	..	1,83,000	00	1,83,000	00	1,83,000	00	..	..
80,00,000	00	..	..	2,60,003	00	2,60,003	00	2,60,000	00	3	00*
85,00,000	00	..	..	3,40,000	00	3,40,000	00	3,40,000	00	..	..
50,00,000	00	..	..	2,00,000	00	2,00,000	00	2,00,000	00	..	..
70,00,000	00	..	..	2,80,000	00	2,80,000	00	2,80,000	00	..	..
1,30,00,000	00	..	..	5,20,000	00	5,20,000	00	5,20,000	00	..	..
1,00,00,000	00	..	..	4,25,000	00	4,25,000	00	4,25,000	00	..	..
1,00,00,000	00	..	..	4,25,000	00	4,25,000	00	4,25,000	00	..	..
1,70,00,000	00	..	..	7,22,502	00	7,22,502	00	7,22,500	00	2	00*
2,25,00,000	00	..	..	9,56,254	00	9,56,254	00	9,56,250	00	4	00*
1,50,00,000	00	..	..	6,75,000	00	6,75,000	00	6,75,000	00	..	..
2,35,00,000	00	..	..	11,16,254	00	11,16,254	00	11,16,250	00	4	00*
1,00,00,000	00	..	..	4,75,002	00	4,75,002	00	4,75,000	00	2	00*
3,00,00,000	00	..	..	18,00,002	00	18,00,002	00	18,00,000	00	2	00*
2,00,00,000	00	..	..	12,00,002	00	12,00,002	00	12,00,000	00	2	00*
4,00,00,000	00	..	..	24,00,002	00	24,00,002	00	24,00,000	00	2	00*
2,50,00,000	00	..	..	15,00,002	00	15,00,002	00	15,00,000	00	2	00*
8,00,00,000	00	..	..	48,00,007	00	48,00,007	00	48,00,000	00	7	00*
3,25,00,000	00	..	..	19,50,003	00	19,50,003	00	19,50,000	00	3	00*
2,00,00,000	00	..	..	..	..	..	..	..	..	..	..
4,00,00,000	00	..	..	19,80,000	00	19,80,000	00	..	..	19,80,000	00*
45,62,00,000	00	..	..	2,26,54,537	00	2,26,54,537	00	2,05,74,500	00	19,80,037	00*
45,79,08,500	00	1,06,898	01	2,89,83,569	00	2,90,90,467	01	2,57,92,250	31	1,49,419	68 31,48,797	02*
91,41,08,500	00	† 1,06,898	01	5,16,38,106	00	5,17,45,004	01	4,64,66,750	31	1,49,419	68** 5,128,834	02*
...	...	...	...	6,735	67	6,735	67	6,735	67	...	...
...	...	...	...	3,585	27	3,585	27	3,585	27	...	...
...	...	...	...	2,445	91	2,445	91	2,445	91	...	...
...	...	...	...	8,241	42	8,241	42	8,241	42	...	...
...	...	...	...	321	64	321	64	321	64	...	...
...	...	...	...	4,640	94	4,640	94	4,640	94	...	...
1,00,143	25	...	...	11,677	09	11,677	09	11,677	09	...	...
1,00,143	25	...	...	37,647	94	37,647	94	37,647	94	...	...

† This is the total figure of Renewed grants under Sst. A'' A' and 'B'' C'.

** This is the total figure of outstanding Balance required for renewal under Sst. 'A'' A1' & 'B'' C' during the year 1972-73.

* To be treated as Saving.

Serial No.	Particulars of Loans	Rate of Interest per Annum.	Balance due on 1st April 1972		Amount raised in 1972-73		Total		Amount repaid in 1972-73	
			Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
1	2	3	4		5		6		7	
	Advances brought forward ...		6,27,465	76	...		6,27,465	76	5,27,322	51
8	Advance of Rs. 1,93,631.14 from Municipal Fire and Accident Insurance Fund 1968-69 ...	6 %	84,277	25	...	84,277	25		40,910	37
9	Advance of Rs. 2,03,822.47 from Hospital Fund 1968-69 ...	6 %	88,710	97	...	88,710	97		43,064	34
10	Advance of Rs. 4,73,033.90 from Plant and Machinery Depreciation Fund 1968-69 ...	6 %	2,05,882	21	...	2,05,882	21		99,944	07
11	Advance of Rs. 29,21,176.56 from Land (R and A) Fund 1968-69 ...	6 %	12,71,414	64	...	12,71,414	64		6,17,192	12
12	Advance of Rs. 33,775.00 from K. E. M. Hospital Equipment Fund 1968-69 ...	6 %	14,700	46	...	14,700	46		7,135	97
13	Advance of Rs. 2,10,514.34 from Municipal Fire and Accident Insurance Fund ...	6 %	1,33,585	41	...	1,33,585	41		41,959	88
14	Advance of Rs. 92,335.97 from Net Premia Fund ...	6 %	58,593	50	...	58,593	50		18,404	39
15	Advance of Rs. 3,85,439.44 from Plant and Machinery depreciation Fund ...	6 %	2,44,585	64	...	2,44,585	64		76,826	86
16	Advance of Rs. 2,72,831.42 from Hospital Fund ...	6 %	1,73,129	25	...	1,73,129	25		54,381	24
17	Advance of Rs. 17,332.97 from K.E.M.H. G.S.M College, Equipment Fund ...	6 %	10,998	43	...	10,998	43		3,455	10
18	Advance of Rs. 4,703 from G. S. M. K. E. M. Hospital Research Fund ...	6 %	2,985	33	...	2,985	33		936	88
19	Advance of Rs. 3,97,578.39 from Land (R and A) Fund ...	6 %	2,52,288	04	...	2,52,288	04		79,246	72
20	Advance of Rs. 3,60,655.87 from Motor Vehicles (Third party) Insurance Fund ...	6 %	2,28,859	85	...	2,28,859	85		71,886	41
21	Advance of Rs. 9,46,924.81 from Net Premia Fund ...	6 %	7,78,944	30	...	7,78,944	30		1,78,059	35
22	Advance of Rs. 4,63,176.54 from Municipal Fire and Accident Ins. Fund ...	6 %	3,81,010	13	...	3,81,010	13		87,096	40
23	Advance of Rs. 1,81,892.46 from Hospital Fund ...	6 %	1,49,625	01	...	1,49,625	01		34,203	50
24	Advance of Rs. 8,80,232.90 from Plants and Machinery Depreciation Fund ...	6 %	7,24,082	87	...	7,24,082	87		1,65,519	03
25	Advance of Rs. 1,870.90 from K. E. M. Hospital Equipment Fund ...	6 %	1,539	15	...	1,539	15		351	65
26	Advance of Rs. 21,44,460.32 from Land R. A. Fund ...	6 %	17,64,040	94	...	17,64,040	94		4,03,244	54
26A	Advance from Special Funds ...	6 %	...	...	...	...	...	...	...	...
27	Advance of Rs. 33,30,258.89 from Land R. A. Fund 1971-72 ...	6 %	33,30,258	89	...	33,30,258	89		5,90,775	47
28	Advance of Rs. 11,75,877.83 from Net Premia Fund 1971-72 ...	6 %	11,75,877	83	...	11,75,877	83		2,08,596	33
29	Advance of Rs. 2,10,232.34 from Municipal Fire and Accident Insurance Fund 1971-72 ...	6 %	2,10,232	34	...	2,10,232	34		37,294	06
30	Advance of Rs. 3,35,688.64 from Hospital Fund 1971-72 ...	6 %	3,35,688	64	...	3,35,688	64		59,549	68
31	Advance of Rs. 10,017 from K.E.M. Hospital Research Fund 1971-72 ...	6 %	10,017	00	...	10,017	00		3,776	98
32	Advance of Rs. 20,87,200 from Municipal Fire & Accident Insurance Fund 1972-73 ...	6 %	...	...	20,87,200	00	20,87,200	00	...	...
33	Advance of Rs. 21,34,380 from Net Premia Fund 1972-73 ...	6 %	...	...	21,34,380	00	21,34,380	00	...	...
34	Advance of Rs. 12,31,985.56 from Hospital Fund 1972-73 ...	6 %	...	...	12,31,988	56	12,31,988	56	...	...
35	Advance of Rs. 63,10,788 from K. E. M. Hospital G.S.M. College Research Fund 1972-73 ...	6 %	...	...	63,107	88	63,107	88	...	...
36	Advance of Rs. 27,00,700 from Land R. A. Fund 1972-73 ...	6 %	...	...	27,00,700	00	27,00,700	00	...	...
	Total Advance from Special Fund for purchase of Plants and Machinery ...		1,22,58,793	84	82,17,376	44	2,04,76,170	28	34,49,133	85
	Total Loan raised from Government ...		2,86,51,515	96	..	..	2,86,51,515	96	30,53,753	21
	Total Loans raised from Public and Internal ...		83,92,58,500	00	8,86,00,000	00	92,78,58,500	00	1,37,50,000	00
	Grand Total		88,01,68,809	80	9,08,17,376	44	97,69,86,186	24	2,02,52,387	06

No. 11 City—(Concl.)

Balance due on 31st March 1973		Interest outstanding on 1st April 1972		Interest payable in 1972-73		Total Interest due		Deduct-Interest paid by the State Bank of India and in Office		Outstanding Balance on 31st March 1973	
8		9		10		11		12		13	
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
1,00,143	25	...		37,647	94	37,647	94	37,647	94	...	
43,365	88	...		5,056	63	5,056	63	5,056	63	...	
45,646	63	...		5,322	66	5,322	66	5,322	66	...	
1,05,938	14	...		12,352	93	12,352	93	12,352	93	...	
6,54,222	52	...		76,284	84	76,284	84	76,284	88	—	.04*
7,564	49	...		882	03	882	03	882	03	...	
91,625	53	...		8,015	12	8,015	12	8,015	12	..	
40,189	11	...		3,515	61	3,515	61	3,515	61	..	
1,67,758	78	...		14,675	14	14,675	14	14,675	14	..	
1,18,748	01	...		10,387	76	10,387	76	10,387	76	..	
7,543	33	...		659	90	659	90	659	90	..	
2,048	45	...		179	12	179	12	179	12	..	
1,73,041	32	...		15,137	28	15,137	28	15,137	28	..	
1,56,973	44	...		13,731	59	13,731	59	13,731	59	..	
6,00,884	95	..		46,736	65	46,736	65	46,736	65	...	
2,93,913	73	..		22,860	60	22,860	60	22,860	60	...	
1,15,421	51	..		8,977	50	8,977	50	8,977	50	...	
5,58,563	84	..		43,444	97	43,444	97	43,444	97	...	
1,187	50	..		92	35	92	35	92	35	...	
13,60,796	40	..		1,05,842	46	1,05,842	46	1,05,842	46	...	
—		..		6,58,905	00	6,58,905	00	...		6,58,904	95*
27,39,483	42	..		2,58,672	00	2,58,672	00	1,99,815	53	+ 00	04†
9,67,281	50	..		1,73,001	00	1,73,001	00	70,552	67	58,856	47*
1,72,938	28	..		1,05,949	00	1,05,949	00	12,613	94	1,02,448	33*
2,76,138	96	..		77,219	00	77,219	00	20,141	32	93,335	06*
8,240	02	..		7,020	00	7,020	00	601	02	57,077	68*
20,87,200	00	..		...		...		...		6,418	98*
21,34,360	00	..		...		...		...		...
12,31,988	56	..		...		...		...		...
63,107	88	..		...		...		...		...
27,00,700	00	..		...		...		...		...
1,70,27,036	43	..		17,12,569	08	17,12,569	03	7,35,527	60	9,77,041	43*
2,55,97,762	75	..		12,17,689	41	12,17,689	41	12,17,689	41	..	
91,41,08,500	00	1,06,898	01	5,16,38,106	00	5,17,45,004	01	4,64,66,750	31	1,49,419	68**
95,67,33,293	18	1,06,898	01	5,45,68,364	49	5,45,75,262	50	4,84,19,967	32	51,28,834	02*
										1,49,419	68**
										61,03,875	50*

APPENDIX

Statement showing Outstanding Loans due by the Municipal Corporation of Greater Bombay (Suburban Area), the Interest paid by the State Bank of India and in office during the year and the balance

Serial No.	Particulars of Loans.	Rate of Interest.	Balance due on 1-4-1972.		Amount raised in 1972-73.		Total.	
			Rs.	P.	Rs.	P.	Rs.	P.
(1)	(2)	(3)	(4)		(5)		(6)	
		Rs.	Rs.	P.	Rs.	P.	Rs.	P.
	Loans raised from the Public.							
1	Loan for repayment to Government of the cost of the Khar Water Supply Scheme (Bandra) ...	4 %	1,00,000	00	---	---	1,00,000	00
2	Rs. 1 Crore 25 lakhs Bombay Municipal Subs. Loan of 1959-60 for financing capital expenditure such as Water Works, Road etc. Pertaining to Budget 'D' ...	4 %	---	---	---	---	---	---
3	Rs. 77 lakhs Bombay Municipal (Subs.) Loan of 1960-61. ...	4½%	77,00,000	00	---	---	77,00,000	00
4	Rs. 10 lakhs Bombay Municipal (Subs.) Internal Loan of 1960-61. ...	4½%	10,00,000	00	---	---	10,00,000	00
5	Rs. 50 lakhs Bombay Municipal (Subs.) Loan of 1961-62. ...	4½%	55,00,000	00	---	---	55,00,000	00
6	Rs. 50 lakhs Bombay Municipal (Subs.) Internal Loan of 1961-62. ...	4½%	50,00,000	00	---	---	50,00,000	00
7	Rs. 160 lakhs Bombay Municipal (Subs.) Loan of 1962-63. ...	4½%	1,60,00,000	00	---	---	1,60,00,000	00
8	Rs. 110 lakhs Do. 1963-64. ...	4½%	1,10,00,000	00	---	---	1,10,00,000	00
9	Rs. 50 lakhs Bombay Municipal (Subs.) Internal Loan of 1963-64. ...	4½%	50,00,000	00	---	---	50,00,000	00
10	Rs. 75 lakhs Bombay Municipal (Subs.) Loan of 1964-65. ...	5%	75,00,000	00	---	---	75,00,000	00
11	Rs. 70 lakhs Bombay Municipal (Subs.) Internal Loan 1964-65. ...	4½%	70,00,000	00	---	---	70,00,000	00
12	Rs. 100 lakhs Bombay Municipal Budget A (Div. II) Loan 1965-66. ...	5½%	1,00,00,000	00	---	---	1,00,00,000	00
13	Rs. 50 Lakhs Bombay Municipal Budget A (Div. II) Internal Loan 1965-66. ...	6 %	50,00,000	00	---	---	50,00,000	00
14	Rs. 75 lakhs B.M.C. Budget 'A' (Div. II) Loan 1966-67. ...	5½%	75,00,000	00	---	---	75,00,000	00
15	Rs. 50 lakhs B.M.C. Budget 'A' (Div. II) Internal Loan 1966-67. ...	6%	50,00,000	00	---	---	50,00,000	00
16	Rs. 1 Crore Bombay Municipal Corporation Budget 'A' (Div. II) Loan 1967-68. ...	6%	45,00,000	00	---	---	45,00,000	00
17	Rs. 50 Lakhs Bombay Municipal Corporation Budget 'A' (Div. II) Internal Loan 1967-68. ...	6%	50,00,000	00	---	---	50,00,000	00
18	Rs. 75 Lakhs Bombay Municipal Corporation Budget 'A', Div. II Loan 1968-69. ...	6%	82,50,000	00	---	---	82,50,000	00
19	Rs. 50 Lakhs Bombay Municipal Corporation Budget 'A' Div. II Internal Loan 1968-69. ...	6%	50,00,000	00	---	---	50,00,000	00
20	Rs. 100 Lakhs B.M.C. Budget 'A' Div. II Loan 1969-70. ...	6%	1,10,00,000	00	---	---	1,10,00,000	00
21	Rs. 220 Lakhs B. M. C. Loan 1970-71 1st issue. ...	6%	2,42,00,000	00	..	..	2,42,00,000	00
22	Rs. 170 Lakhs B. M. C. Loan 1970-71 2nd issue. ...	6%	1,87,00,000	00	..	..	1,87,00,000	00
23	Rs. 350 Lakhs B. M. C. Loan 1971-72. ...	6%	3,85,00,000	00	---	---	3,85,00,000	00
24	Rs. 150 Lakhs B. M. C. Loan 1972-73. ...	6%	---	---	1,65,00,000	00	1,65,00,000	00
25	Rs. 100 Lakhs B. M. C. (Suburbs) Internal Loan 1972-73. ...	6%	---	---	1,00,00,000	00	1,00,00,000	00
	Total ...		20,84,50,000	00	2,65,00,000	00	23,49,50,000	00

@ As under the terms of these loans the bonds cannot be repaid to the holders before the dates stipulated in the debentures.

No. 11—Suburbs.

Outstanding on 1st April 1972 on the different Loans, the amount payable for the year 1972-73, the amount outstanding on 31st March 1973.

Amount repaid in 1972-73.		Balance due on 31-3-1973.		Interest outstanding on 1-4-1972.		Interest payable in 1972-73.		Total Interest due.		Deduct—Interest paid.		Outstanding Balance on 31-3-1973.	
(7)		(8)		(9)		(10)		(11)		(12)		(13)	
Rs.	Pes.	Rs.	Pes.	Rs.	Pes.	Rs.	Pes.	Rs.	Pes.	Rs.	Pes.	Rs.	Pes.
1,00,000	00	—	—	20	00	2,000	00	2,020	00	1,186	69	833	31*
...	1,647	66	—	—	1,647	66	1,647	00	00	66*
77,00,000	00	...	...	1,487	42	3,27,250	00	3,28,737	42	2,05,109	69	1,23,627	73
...	...	10,00,000	00	...	...	42,500	00	42,500	00	42,500	00	...	...
...	...	55,00,000	00	265	84	2,33,750	00	2,34,015	84	2,33,871	97	143	87
...	...	50,00,000	00	...	...	2,12,500	00	2,12,500	00	2,12,500	00	...	...
...	...	1,60,00,000	00	6,008	39	7,60,000	00	7,66,008	39	7,59,955	22	6,053	17
...	...	1,10,00,000	00	...	...	5,22,500	00	5,22,500	00	5,22,500	00	...	...
...	...	50,00,000	00	...	...	2,37,500	00	2,37,500	00	2,37,500	00	...	...
...	...	75,00,000	00	...	...	3,75,000	00	3,75,000	00	3,75,000	00	...	...
...	...	70,00,000	00	...	...	3,32,500	00	3,32,500	00	3,32,500	00	...	...
...	...	1,00,00,000	00	1,509	50	5,75,000	00	5,76,509	50	5,73,490	60	3,018	90
...	...	50,00,000	00	...	...	3,00,000	00	3,00,000	00	3,00,000	00	...	...
...	...	75,00,000	00	...	...	4,31,250	00	4,31,250	00	4,14,000	00	17,250	00
...	...	50,00,000	00	...	...	3,00,000	00	3,00,000	00	3,00,000	00	...	...
...	...	45,00,000	00	21,300	00	2,70,000	00	2,91,300	00	2,91,270	00	30	00
...	...	50,00,000	00	...	...	3,00,000	00	3,00,000	00	3,00,000	00	...	...
...	...	82,50,000	00	...	...	4,95,000	00	4,95,000	00	4,94,970	00	30	00
...	...	50,00,000	00	...	...	3,00,000	00	3,00,000	00	3,00,000	00	...	...
...	...	1,10,00,000	00	...	...	6,60,000	00	6,60,000	00	6,60,000	00	...	...
...	...	2,42,00,000	00	10,380	00	14,52,000	00	14,62,380	00	14,35,110	00	27,270	00
...	...	1,87,00,000	00	6,563	00	11,22,000	00	11,28,563	00	11,27,798	00	765	00
...	...	3,85,00,000	00	...	...	23,10,000	00	23,10,000	00	22,87,500	00	22,500	00
...	...	1,65,00,000	00	...	...	...	...	...	...	...	...	...	...
...	...	1,00,00,000	00	...	...	...	...	...	...	...	...	...	...
78,00,000	00	22,71,50,000	00	49,181	81	1,15,60,750	00	1,16,09,931	81	1,14,08,409	17	2,01,522	64

The Sinking Fund has been invested as shown in detail in Appendix No. 10.

*Shown as saving.

APPENDIX No. 11. (Extended Suburbs).

Statement showing Outstanding Loans due by the Municipal Corporation of Greater Bombay (Extended Suburban Area), the Interest Outstanding on 1st April 1972 on the different Loans, the amount payable for the year 1972-73, the amount paid by the State Bank of India and in office during the year and the balance Outstanding on 31st March 1973.

Seril No.	Particulars of Loan.	Rate of interest.	Balance due on 1-4-1972.	Amount raised in 1972-73.	Total.	Amount repaid in 1972-73.	Balance due on 31-3-1973	Interest outstanding on 1-4-1972.	Interest payable in 1972-73.	Total Interest due.	Deduct Interest paid.	Outstanding balance on 31-3-1973
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	Loans raised from the Public.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs. P.	Rs. P.	Rs. P.	Rs.	Rs.
1	4½ per cent. 25 lakhs Bombay Municipal Extended Suburbs Internal Loan of 1957-58 for financing Capital Works such as Water Works, etc. ...	4½%	25,00,000	...	25,00,000	...	25,00,000	...	1,06,250.00	1,06,250.00	1,06,250.00	...
2	4½ per cent. 20 lakhs (Out of 35 lakhs) Bombay Municipal Extended Suburbs Internal Loan of 1958-59 for financing Capital Works such as Water Works, etc. ...	4½%	20,00,000	...	20,00,000	...	20,00,000	...	85,000.00	85,000.00	85,000.00	...
3	4 per cent. Rs. 25 lakhs Bombay Municipal Extended Suburbs Loan of 1959-60 for financing Capital Works such as Water Works, etc. ...	4%	...	...	...	...	...	709.33	...	709.33	709.00	00.33
4	4½ per cent. Rs. 20 lakhs Bombay Municipal Extended Suburbs Loan of 1960-61 for financing Capital Work, such as Water Works etc. ...	4½%	22,00,000	...	22,00,000	22,00,000	...	2,550.21	93,500.00	96,050.21	60,727.74	35,322.47
5	4½ per cent. Rs. 10 lakhs Bombay Municipal Extended Suburbs (Internal) Loan of 1960-61 for financing Capital Works such as Water Works, etc. ...	4½%	10,00,000	...	10,00,000	...	10,00,000	...	42,500.00	42,500.00	42,500.00	...
6	4½ per cent. Rs. 50 lakhs Bombay Municipal Extended Suburbs Loan of 1961-62 for financing Capital Works such as Water Works etc. ...	4½%	55,00,000	...	55,00,000	...	55,00,000	2,879.43	2,33,750.00	2,36,629.43	2,35,991.86	637.57
7	4½ per cent. Rs. 30 lakhs Bombay Municipal Extended Suburbs Loan of 1962-63 for financing Capital Expenditure such as Water Works etc. ...	4½%	30,00,000	...	30,00,000	...	30,00,000	10,794.61	1,42,500.00	1,53,294.61	1,40,778.08	12,516.53
8	4½% Rs. 25 lakhs Bombay Municipal Extended (Sub.) Internal Loan 1964-65 ...	4½%	25,00,000	...	25,00,000	...	25,00,000	...	1,18,750.00	1,18,750.00	1,18,750.00	...
9	6% Rs. 50 lakhs Bombay Municipal Budget 'A' (Div. III) Internal Loan 1965-66 ...	6%	50,00,000	...	50,00,000	...	50,00,000	...	3,00,000.00	3,00,000.00	3,00,000.00	...
10	5½% Rs. 50 lakhs B.M.C. Budget 'A' Div. III Loan 1966-67 ...	5½%	50,00,000	...	50,00,000	...	50,00,000	2,242.00	2,87,500.00	2,89,742.00	2,87,528.00	2,214.00
11	6% Rs. 40 lakhs B.M.C. Budget 'A' Div. III Internal loan 1966-67 ...	6%	40,00,000	...	40,00,000	...	40,00,000	...	2,40,000.00	2,40,000.00	2,40,000.00	...
12	6% Rs. 35 lakhs Bom. Mun. Budget 'A' Div. III Loan 1967-68 out of Rs. 60 Lakhs Loan ...	6%	35,00,000	...	35,00,000	...	35,00,000	28,189.00	2,10,000.00	2,38,189.00	2,12,347.00	25,842.00
13	6% Rs. 20 lakhs Bom. Mun. Budget 'A' Div. III Internal Loan 1967-68 out of 30 Lakhs Loan ...	6%	20,00,000	...	20,00,000	...	20,00,000	...	1,20,000.00	1,20,000.00	1,20,000.00	...
14	6% Rs. 55 Lakhs Bombay Municipal Corporation Budget 'A' Div. III Loan 1968-69 ...	6%	55,00,000	...	55,00,000	...	55,00,000	...	3,30,000.00	3,30,000.00	3,30,000.00	...
15	6% Rs. 82.50 Lakhs Bombay Municipal Corporation Budget 'A' Div. III Loan 1969-70. ...	6%	82,50,000	...	82,50,000	...	82,50,000	750.00	4,95,000.00	4,95,750.00	4,95,750.00	...
16	6% Rs. 165 lakhs B. M. C. Loan 1970-71 (1st issue) ...	6%	1,81,50,000	...	1,81,50,000	...	1,81,50,000	12,855.00	10,89,000.00	11,01,855.00	10,99,785.00	2,070.00
17	6% Rs. 115 Lakhs B. M. C. Loan 1970-71 (2nd issue) ...	6%	1,26,50,000	...	1,26,50,000	...	1,26,50,000	11,445.00	7,59,000.00	7,70,445.00	7,44,735.00	25,710.00
18	6% Rs. 150 lakhs B. M. C. Loan 1971-72 ...	6%	1,65,00,000	...	1,65,00,000	...	1,65,00,000	...	9,90,000.00	9,90,000.00	9,90,000.00	...
19	6% Rs. 150 Lakhs B. M. C. Loan 1972-73 ...	6%	...	1,65,00,000	1,65,00,000	...	1,65,00,000	...	...	...	...	...
20	6% Rs. 100 Lakhs Bombay Municipal Est. Sub-Sub-Internal Loan 1972-73 ...	6%	...	1,00,00,000	1,00,00,000	...	1,00,00,000	...	...	...	...	...
	Total ...		9,92,50,000	2,63,00,000	12,57,50,000	22,00,000	12,35,50,000	72,414.58	56,42,750.00	57,15,164.58	56,10,851.68	1,04,312.90

Statement showing the amounts of the Receipts and Expenditure respectively credited to the credit of the Fund at the close of the

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—A.—REVENUE ACCOUNT.				
A.—General Tax	11,30,55,232	84		
B.—Town Duties	19,56,40,800	84		
BB.—Theatre Tax	8,73,026	36		
C.—Other Receipts—				
(a) Grant-in-aid of the fees for Land Conveyance, Music, etc., Licences	11,000	00		
(b) Grant-in-aid in respect of fines for offences against the Law	Nil			
(c) Interest and Profit on Investment of Surplus Loan and other balances	1,51,93,185	24		
(d) Interest on Plant and Machinery Depreciation Fund	1,59,639	01		
(e) Miscellaneous	56,38,702	87		
(f) Receipts on account of Municipal Journal	8,614	15		
D.—Receipts on account of proportionate cost of collection of Education cess	1,61,483	48		
E.—Rebate from Govt. on account of Collection of Education cess	1,91,434	00		
			33,09,33,118	29
2. Water Works—Water Tax and other Miscellaneous Water Works Revenue—				
A.—Water Tax	5,51,13,003	15		
B.—Other Receipts	17,54,839	96		
C.—Project Engineer	58,776	58		
			5,69,26,619	69
3. Museums	22,687	10	22,687	10
4. Free Reading Rooms and Libraries	38,61,567	43	38,61,567	43
5. Public Health Department	16,97,269	23	16,97,269	23
6. Medical Relief and Education	24,32,977	85	24,32,977	85
7. Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
A.—Halalkhore Tax	1,67,19,050	41		
B.—Other Receipts	16,31,698	49		
C.—Tax on Dogs	53,550	21		
			1,84,04,299	11
8. Roads, S.W. Drains and Public Lighting—				
A.—Wheel Tax	94,96,203	35		
B.—Contribution from Government in lieu of Tolls	24,927	00		
C.—Other Receipts—				
(a) Ground Rent	1,28,469	55		
(b) Miscellaneous	22,33,901	58		
(c) Interest realised on Donations	2,464	13		
			1,18,85,965	66
9. Mechanical	13,35,983	48	13,35,983	48
10. Buildings, Land Acquisition and Management—				
A.—Sale Proceeds of Surplus Land	4,650	00		
B.—Other Receipts—				
(a) Rent of Buildings	23,22,062	78		
(b) Ground Rent	7,45,906	97		
(c) Miscellaneous	23,04,187	67		
C.—Contribution from the Capital Funds on account of Special Land Acq. staff	1,80,935	25		
			55,57,742	67
11. Fire Brigade—				
A.—Fire Tax	34,53,528	63		
B.—Other Receipts	40,322	14		
			34,93,850	77
12. Licensing Removal of Encroachments on Public Streets, Administration of Shops & Establishments Act, 1948 and Theatre Tax—				
A.—Licences for Dangerous and Offensive Trades	28,08,259	07		
B.—Removal of Encroachments on Public Streets	33,38,093	52		
C.—Receipts from Administration of Shops and Establishments Act	7,41,558	43		
D.—Miscellaneous	18,42,544	14		
			87,30,455	16
13. Gardens and Open Spaces	10,03,149	21	10,03,149	21
14. Markets and Slaughter Houses	1,10,04,693	25	1,10,04,693	25
15. Contribution from Capital Funds to Revenue on account of Loan Works Staff	8,58,669	66	8,58,669	66
16. Extraordinary Receipts	2,67,884	49	2,67,884	49
17. Rebate from Government on account of collection of the Urban Immoveable Property Tax in the City				
18. Transfers from the B. E. S. & T. Fund	18,82,666	81	18,82,666	81
19. Receipts from Government on account of Urban Immoveable Property Tax				
20. Grant in aid from Central Government on account of additional Exp. due to increase in employments etc.				
21. Rebate from Govt. on account of collection of House Repairs cess	12,30,510	17	12,30,510	17
			46,15,30,110	53
Total—Revenue Receipts Rs.				
RECEIPTS—B.—CAPITAL ACCOUNT—				
Loan Funds—				
Debt—Principal—				
Loan of 1972-73	8,86,00,000	00		
Advances from Special Funds for purchase of Plant and Machinery—				
Net premia Fund	21,34,380	00		
Municipal Fire and Accident Insurance Fund	20,87,200	00		
Advance from K.E.M. Hospital Research Fund for purchase of P & M	63,107	88		
K.E.M. Hospital Equipment Fund				
Land (Acquisition and Reclamation) Fund	27,00,700	00		
Hospital Fund	12,31,988	56		
Plant and Machinery Depreciation Fund				
Advances from Net Premia Fund and Special Funds for renewal (1) of Surfaces of Roads for which no renewal Fund exists and (2) of Surfaces of Roads taken over from Ex-Trust				
Advances from Net premia fund for Repayment of Rs. 28 lakhs Loan of 1929				
Motor vehicle third Party Insurance Fund				
			9,68,17,376	44
Trust Fund:				
Government share of the cost of Preliminary Expenses in connection with preparation of the Master Plan for Bombay City and Greater Bombay				
Donations				
Interest on investments				
Total Capital Account Receipts			9,68,17,376	44

No. 15 (City)

and debited to the Municipal Fund during the year 1972-73 and the balance year 1972-73 (i. e. 31st March 1973).

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—C.—SUSPENSE ACCOUNT—				
I—Sinking and Special Fund Accounts—				
Sinking Fund account—Municipal	4,52,15,529	88		
Special Fund Accounts	7,42,27,267	99		
Improvement Schemes Fund Account—				
(a) Sinking Fund Account	59,26,153	82		
(b) Investment Reserve Fund Account	6,72,897	33		
Sinking Fund Account—Slum clearance (City)	8,09,186	36		
Sinking Fund Account Slum clearance (Suburbs).	5,58,495	38		
Amenities Fund Account.	1,31,706	64		
Rent Equalisation Fund Account.	3,97,229	37		
			12,73,38,466	77
II—Paper and Cash Accounts—				
1. Sinking Fund	3,01,77,033	87		
2. Special Funds	3,61,45,042	50		
3. Surpluses Fund	11,95,18,300	23		
4. Loan Fund	153	30		
5. Improvement Schemes Funds—				
(a) Sinking Fund	36,04,064	06		
(b) Capital Fund	244	18		
(c) Investment Reserve Fund	102	67		
(d) Rent Equalisation Fund	70	63		
(e) Amenities Fund	54	60		
6. Improvement Schemes A/c (Slum Clearance) City—				
(a) Sinking Fund	24,484	03		
(b) Capital Fund	74	18		
7. Improvement Schemes A/c (Slum Clearance) Subs.				
(a) Sinking Fund	24,135	50		
(b) Capital Fund	12,949	16		
State Bank of India and other Local Banks on account of Sundry deposits	59,14,04,674	38		
			78,09,11,383	09
III.—Suspense Accounts—				
Deposit Account	51,78,49,476	99		
Reserve Stores Account	2,00,11,557	48		
Capital Stores Account	3,84,87,490	89		
Purchase of Petrol and Diesel Oil	8,53,240	17		
Advances to public including co-operatives for Housing Purposes	35,907	00		
Advances Departmental Works	34,48,108	13		
Advances Municipal Workshops	10,11,015	34		
Municipal Foundry	91,783	29		
Work Crushers	2,50,971	99		
Sewri Crushers				
Mechanical Transport	89,16,227	13		
Asphalt Plant	23,24,295	37		
Pre-Cast Concrete Slabs				
Municipal Printing Press	35,51,947	54		
Rota Printing Units	1,58,311	02		
Advances Private Works	5,80,656	44		
Servicing of Vehicles and recharging of Batteries.				
Reinstatement of Trenches	33,14,833	09		
Advances Special Funds	47,92,783	81		
Municipal Contractors	41,167	23		
Municipal Tenderers				
Sundry Advances	2,81,68,311	31		
Advances for demolition of unauthorised structures and for removal of unsafe Buildings in the City	13,42,587	63		
Advances to Municipal Officers—	2,29,153	86		
Interest Accrued but not paid	8,27,566	66		
Interest Receivable Account	5,61,000	01		
Provident Fund	3,76,85,869	43		
Welfare Fund				
Fines Fund	5,074	49		
Fidelity Guarantee Insurance Fund	6,09	76		
Bombay Municipal Corporation Loans Interest Warrants payable Account	1,43,22,222	36		
City of Bombay Improvement Trust Loans Interest Warrants Payable Account	3,37,902	15		
Cash Bills on standing Account	2,65,712	01		
Dishonoured Cheques	1,44,55,999	96		
Cheques payable	1,27,79,24,156	36		
Loan Redemption Fund Slum Clearance City	83,041	45		
Loan Redemption Fund Slum Clearance Suburbs	27,523	33		
Wages Deposit Account	1,21,06,209	64		
Loan Redemption Fund—Municipal	2,02,52,847	06		
Loan Redemption Fund—Improvement Schemes	38,40,108	63		
Manufacture of concrete covers—Recoveries	Nil			
Interest on B. I. T. Loans payable Account	4,698	96		
Debt charges Equalisation Fund				
Municipal Power Laundry	7,09,981	83		
Advance from Surplus Monies for financing expenditure on Capital Works pending raising of a New Loan	5,22,267	75		
Pension Fund	1,25,27,634	91		
Gratuities Fund	29,66,757	66		
Amount transferred to D. A. Suburbs	51,01,463	08		
Security Deposit in C. Railway L. D. G. S. New Delhi	Nil			
Security Deposit in G. P. Notes with State Bank of India				
Improving common Houses Gullies in the City	58,331	56		
Contribution Receivable From Budget 'E'	44,00,000	00		
Advance to B. E. S. & T.	Nil			
Advance for Deposit with outside Bodies	50	00		
			2,04,44,51,019	75
Total Receipts— C.—Suspense Accounts			2,95,27,00,869	61

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—D.—IMPROVEMENT SCHEMES ACCOUNT—				
General Account Revenue—				
I.—Rents and other proceeds of Properties	1,49,21,742	03		
II.—Contribution from the Municipal Corporation under Section 125(2)(d) of the Municipal Act	2,19,20,813	00		
III.—Grant-in-aid for meeting deficit in General Account				
IV.—Interest and Profit on Investments	7,62,224	48		
V.—Miscellaneous Receipts	4,12,657	13		
VI.—Transfer of Revenue Surplus to Capital Account	Dr. 1,43,33,775	42		
VII.—Govt. Asstt. from Govt. of India for Impts. Schemes	1,56,26,000	00		
Total Rs.			3,93,09,661	22
Capital Account—				
I.—Sale proceeds of Lands, Buildings, etc.	6,37,864	13		
II.—Transfer of Revenue Surplus from General Account	1,43,33,775	42		
III.—Loan raised during 1969-70				
Lumpsum provision for granting loans to in act Building in Impt. Scheme as provided under Section 354 of B.M.C. Act				
Total—Capital Account Receipts Rs.			1,49,71,639	55
Total—D.—Improvement Schemes			5,42,81,300	77
RECEIPTS—E.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE (CITY)—				
General Account Revenue—				
I.—Rents and other proceeds of Properties	21,43,561	57		
II.—Grant-in-aid for meeting deficit				
III.—Interest and Profit on Investment				
IV.—Miscellaneous Receipts				
V.—Appropriation from Capital Account to meet deficit in General Account	11,51,405	89		
Total—General Account Receipts			32,94,967	46
Capital Account—				
I.—Sale proceeds of Lands and Buildings				
II.—Loans from Government	50,00,000	00		
III.—Loan raised in 1969-70				
Subsidy from Government	1,62,487	00		
Transfer to General Accounts				
V.—Advances from Surplus monies	Dr. 5,22,267	75		
Total—Capital Account Receipts			46,40,219	25
Total—E.—Improvement Schemes Slum Clearance (City)			79,35,186	71
RECEIPTS—F.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE (Subs.)—				
General Account Revenue—				
I.—Rents and other proceeds of properties	7,42,954	11		
II.—Contribution from Municipal Corporation (Suburbs)				
III.—Interest and Profits on Investments	82,078	62		
IV.—Miscellaneous Receipts	1,49,852	46		
V.—Appropriation from Capital Account to meet deficit in General Account	16,13,159	00		
Total—General Account Receipts			25,88,044	19
Capital Account—				
I.—Sale Proceeds of Lands and Buildings	2,97,695	40		
II.—New Loans in 1968-69				
Transfer of Revenue Surplus				
III.—Loan from Government				
IV.—Subsidy from Government				
V.—Advances from Surplus monies	58,144	30		
Total—Capital Account Receipts			3,55,789	70
Total—F.—Improvement Schemes Account—Slum Clearance (Subs.)			29,43,833	89
EXPENDITURE—A.—REVENUE ACCOUNT.				
I.—General Supervision, Collection of Revenue etc.—				
A.—General Superintendence	1,83,11,195	19		
B.—Collection of Revenue	79,86,949	96		
C.—Upkeep and guarding of Municipal Head Office	17,50,635	26		
D.—General Stores	7,73,670	74		
E.—Legal Department	14,16,928	03		
F.—Miscellaneous Charges	35,14,972	15		
G.—Election Expenses	20,12,548	19		
H.—Provident Fund charges	3,82,545	18		
I.—Debt Charges	11,45,483	51		
Deduct—Proportion of General Superintendence chargeable to the Water Works, VII—Street Cleansing, VIII—Roads, Fire Brigade Market, and Improvement Schemes Account and Education Fund Account Budget D & F	Cr. 91,22,458	98		
Total—General Supervision, Collection of Revenue etc.—			2,81,72,469	23
II.—Water Works—				
A.—Maintenance I	1,92,99,122	23		
B.—Income Tax on income derived by the Municipality for supply of water to areas outside Municipal Jurisdiction				
C.—Provident Fund Charges	2,60,000	00		
D.—Pension, Gratuities and Compassionate Allowances	10,63,380	00		
E.—Proportion of General Supervision and Collection of Revenue, etc.	42,21,851	79		
F.—Debt Charges	5,85,57,896	36		
G.—Provision for Equalisation of Debt Charges				
Total—Water Works—			8,34,02,250	38
III.—Museums—				
A.—Victoria Albert Museum	1,23,413	15		
B.—Provident Fund Charges	1,400	00		
C.—Debt Charges	1,175	62		
Total—Museums—			1,25,988	77
IV.—Free Reading Rooms and Libraries—				
A.—Municipal Free Reading Rooms and Libraries	23,89,790	43		
B.—Municipal High School	82,22,911	57		
C.—Provident Fund charges	7,428	00		
D.—Debt Charges	15,104	69		
Total—Free Reading Rooms and Libraries—			1,06,35,234	69
V.—Public Health Department—				
A.—General Superintendence	95,48,479	13		
B.—Supply of milk to the undernourished needy children attending Municipal Schools	28,94,738	13		
C.—Provident Fund, Charges	1,31,159	51		
E.—Census				
F.—Debt Charges	8,07,069	53		
D.—Malaria Eradication Programme	2,64,453	90		
Institute of Public Health				
G.—Impounding Stray Cattle	2,15,176	56		
Total—Public Health Department—			1,36,61,088	76
Expenditure—Revenue—Carried over ..			13,59,97,031	83

	Details.		Total.	
	Rs.	P.	Rs.	P.
B/o			13,59,97,031	83
VI.—Medical Relief and Education				
A.—Hospitals and Maternity Homes—				
B.—Maternity Homes	6,40,86,895	67		
C.—Dispensaries	40,71,229	38		
D.—Family planning clinics	39,13,927	85		
E.—Medical Education	335	50		
F.—Statutory Contribution to Government Medical Institutions	93,41,571	52		
G.—Clinic for treatment of Leprosy cases	4,14,500	04		
H.—Providing a convalescent home of 120 Beds with Equipments, Staff quarters near K. E. M. Hospital B.C.G. Vaccination	3,55,410	86		
K.—Debt Charges	58,19,553	81		
I.—Construction of full fledged Buildings at L. T. M. G. H. Sion	80,93,339	38		
J.—Provident Fund, charges	3,32,819	78		
			9,64,28,553	80
VII.—Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
A.—Street Cleansing and Conservancy	37,52,322	95		
B.—Collection, Loading Removal and disposal of Town Refuse	3,29,93,926	07		
C.—Halalkhore Service	2,05,96,623	32		
D.—Provident Fund Charges	5,67,908	61		
E.—Pension Gratuities and Compassionate allowances...	16,37,930	00		
F.—Debt Charges	32,17,841	11		
			6,27,66,512	06
VIII.—Roads S. W. Drains and Public Lighting—				
A.—General	14,34,939	95		
B.—Maintenance of Roads	1,45,23,436	28		
C.—Public Lighting	1,11,92,759	16		
D.—Maintenance of S. W. Drains	13,35,155	30		
E.—Rebate on Account of the compounded wheel-tax,	14,320	00		
F.—Provident Fund etc. Charges	99,372	40		
H.—Debt Charges	1,05,31,608	71		
I.—Proportionate Cost of Collection of Wheel Tax at 5% of the Total Expenditure etc.	2,69,139	12		
			3,94,05,680	32
IX.—Mechanical—				
A.—Mechanical Engineer's Office Estt.	11,24,140	92		
B.—Provident Fund Charges	28,619	00		
C.—Debt Charges	29,497	57		
			11,82,257	49
X.—Buildings, Land Acquisition and Management—				
A.—City Engineer's Central Office Establishment	17,13,820	44		
B.—Inspection and Supervision of Private Buildings	18,80,348	96		
C.—Architectural	2,73,439	32		
D.—Land Acquisition and Management	29,403	2 01		
E.—Inspection and Supervision of Factories, Workshops and Work Places	1,47,880	02		
Debt Charges	36,95,033	43		
J.—Provident Fund, charges	72,924	48		
Deduct—Supervision Chargeable to Improvement Schemes Account Industrial Estate	Cr. 1,13,556	26		
	1,79,106	02		
			1,07,04,968	49
XI.—Fire Brigade—				
A.—Maintenance	35,73,174	74		
B.—Provident Fund, etc., Charges	1,830	00		
C.—Pension Gratuities and compassionate allowances	2,88,110	10		
D.—Proportion of General Supervision and Collection of Revenue	3,11,910	70		
E.—Debt Charges	4,53,818	04		
			46,28,893	48
XII.—Licensing, Removal of Encroachments on Public Streets and Administration of Shops and Establishment Act, 1948 and Theatre Tax—				
A.—Licensing Establishment	13,07,559	59		
B.—Removal of encroachments on Public Streets	11,77,091	07		
C.—Administration of Shops and Establishment Act, 1948	6,90,792	00		
D.—Administration of Theatre Tax				
F.—Provident Fund, charges	72,837	00		
G.—Debt Charges				
			32,48,679	66
XIII.—Gardens and Open Spaces—				
A.—Gardens	93,84,686	90		
B.—New Gardens, Recreation Grounds etc.	21,451	69		
C.—Road side Trees	2,37,714	79		
D.—Open Air Theatre at Victoria Garden	13,177	59		
E.—M. G. M. O. Swimming Pool	1,76,829	85		
F.—Raja Baldeo Das Birla Krida Kendra	1,07,031	95		
G.—Provident Fund, charges.	24,292	76		
H.—Debt Charges	6,90,508	95		
			46,55,793	86
XIV.—Markets and Slaughter Houses—				
A.—Markets and Slaughter Houses & Refrigerator at A. C. Market	84,20,832	13		
B.—Provident Fund and etc. charges	41,458	00		
C.—Pension Gratuities and compassionate allowances	2,17,770	00		
D.—Proportion of General Supervision	5,01,885	93		
F.—Debt Charges	93,83,129	02		
			1,25,65,075	68
XV.—Contribution to—				
(a) Budget 'B' under Section 125(2)(d) of the Bombay Municipal Corporation Act	1,35,78,063	00		
(b) Budget 'E' under Section 126C(e) of the Bombay Municipal Corporation Act	2,26,31,105	00		
(c) Special Contribution to Budget 'E' under Section 126C(C-1) of the B.M.C. Act	3,80,00,000	00		
(e) Fire Fund and Welfare Fund	12,88,031	45		
			7,54,97,199	46
XVI.—Miscellaneous—				
(c) Pension Fund	53,25,600	00		
(d) Gratuities Fund	13,61,040	00		
Deduct—proportionate share chargeable to—	Cr. 3,15,920	00		
			69,70,650	00
XVII.—Measures for civil Defence	5,66,234	23		
XVIII.—Contribution to Bombay Building Repairs & Reconstruction Board	1,00,00,000	00		
XIX.—Contribution to B. E. S. & T. Undertaking				
			1,00,00,000	00
Total Expenditure—A—Revenue Account Rs.			46,40,97,750	30

	Details.		Total.	
	Rs.	P.	Rs.	P.
EXPENDITURE B—CAPITAL ACCOUNT				
I.—General Supervision, Collection of Revenue, etc. ...	8,63,808	69		
II.—Water Works, ordinary ...	99,12,077	87		
III.—Augmenting City's Water Supply ...	4,59,34,880	35		
IV.—Free Reading Room and Libraries ...	1,47,733	37		
V.—Public Health Department ...	1,43,842	14		
VI.—Medical Relief and Education ...	36,96,237	81		
VII.—Street Cleansing Conservancy, Road Watering and Halalkhore Service ...	34,83,941	60		
VIII.—Roads, S. W. Drains and Public Lighting ...	59,88,011	14		
IX.—Mechanical ...	...	...
X.—Buildings, Land Acquisition and Management ...	29,65,137	81		
XI.—Fire Brigade ...	9,39,378	27		
XII.—Gardens and open spaces ...	2,03,135	39		
XIV.—Markets and Slaughter Houses ...	34,07,596	11		
XV.—Slum Service ...	32,010	88		
XVII.—Greater Bombay ...	...	...
XVIII.—Industrial Estate ...	1,66,028	77		
Discount and other charges on the new Loans ...	Nil			
Plant and Machinery to be purchased out of Net Premium Fund ...	15,22,583	86		
Plant and Machinery to be purchased out of Municipal Fire and Accident Ins. Fund ...	18,20,184	79		
Plant and Machinery to be purchased out of K. E. M. Hospital Equipment Fund ...	Cr. 16,303	38		
Plant and Machinery to be purchased out of K. E. M. Hospital Research Fund ...	60,394	02		
Plant and Machinery to be purchased out of Land (Reclamation and Acquisition Fund) ...	9,32,892	11		
Plant and Machinery to be purchased out of Pre-cast Concrete Slabs Pavement Renewal Fund ...	...	...
Plant and Machinery to be purchased out of Plant and Machinery Depreciation Fund ...	Cr. 4,79,646	99		
Plant and Machinery to be purchased out of Hospital Fund ...	10,00,024	59		
Plant and Machinery to be purchased out of Slum Service Fund ...	...	...
Assets written off... ...	34,49,133	85		
Recoupment of Advance for Purchase of Capital Stocks Account Stock during 1972-73 ...	32,99,729	59		
Plant and Machinery to be purchased out of Special Fund ...	...	...
Plant and Machinery to be purchased out of Motor vehicle T. parts Insurance Fund. ...	Cr. 71,886	41		
			9,29,91,926	23
Trust Fund— Expenditure ...	1,860	52	1,860	52
Total B— Capital Expenditure Rs. ...	...	...	9,29,93,386	75

EXPENDITURE—C—SUSPENSE ACCOUNTS—	Details.		Total.	
	Rs.	P.	Rs.	P.
I.—Sinking and Special Fund Accounts—				
(1) Sinking Fund Account—Municipal	1,43,30,972	45		
(2) Special Fund Accounts	3,01,01,514	42		
(3) Improvement Scheme Accounts—				
(a) Sinking Fund Accounts	25,13,558	48		
(b) Sinking Fund A/C Slum Clearance City	4,290	33		
(c) Sinking Fund Account Slum clearance (Suburbs)	317	58		
Other Fund Accounts (Impts.)—				
(d) Investment Reserve Fund Account	...	...
(e) Rent Equalisation Fund Account	...	...
(f) Amenities Fund Account	4,382	15		
			4,69,55,035	41
II.—Paper and Cash Accounts—				
(1) Sinking Fund	6,10,61,591	30		
(2) Special Funds	4,82,77,727	73		
(3) Surplus Fund	12,98,68,259	38		
(4) Loan Fund	142	99		
(5) Improvement Schemes Funds—				
(a) Sinking Fund	64,16,659	40		
(b) Capital Fund	321	24		
(c) Investment Reserve Fund	...	...
(d) Amenities Fund	79	09		
(e) Rent Equalisation Fund	...	...
(6) Improvement Schemes A/C (Slum Clearance) City				
(a) Sinking Fund	8,29,380	06		
(b) Capital Fund	147	75		
(6) Improvement Schemes A/C (Slum Clearance) Subs.				
(a) Sinking Fund	5,82,313	10		
(b) Capital Fund	12,850	91		
State Bank of India and other Local Banks on account of Sundry Deposits	57,41,59,929	45		
			82,12,09,402	40
III Suspense Accounts—				
Deposit Account	49,69,83,551	75		
Reserve Stores Accounts	2,34,10,724	34		
Capital Stores Accounts...	5,61,54,705	59		
Capital Store Account Stoke—Fors Road Depot	36,106	98		
Purchase of Petrol, and Diesel Oil	10,68,785	25		
Purchase of Coal	...	...
Advances Departmental Works	29,83,970	35		
Advances Municipal Workshop	14,70,116	74		
Municipal foundry	3,52,190	58		
Worli Crushers	5,60,108	18		
Sewri Crushers	...	...
Mechanical Transport	71,67,114	69		
Asphalt Plant	14,32,857	54		
Pre Cast Concrete Slabs	Cr. 18	87		
Rota Printing Units	3,57,953	79		
Servicing of Vehicles and Recharging of Batteries	...	...
Municipal Printing Press	42,64,015	27		
Advances Private Works	14,97,535	22		
Advances Special Funds	1,09,04,852	15		
Municipal Contractors	78,939	04		
Municipal Tenderers	...	...
Sundry Advances	2,31,99,284	54		
Advance to public including co-operatives for Housing purposes	27,14,365	79		
Advance for demolition of unauthorised Structures and for Removal of unsafe Buildings in the City	18,98,770	83		
Repayment of Loans Municipal	2,82,52,887	06		
Do. (Impts. Schemes)	38,40,108	63		
Repayment of Loans Impts. Schemes Slum Clearance City	8,041	45		
Do. Suburbs	27,524	33		
Advances to Municipal Officers	5,34,120	00		
Provident Fund	3,76,85,869	43		
Welfare Fund	...	...
Fines Fund	5,074	49		
Fidelity Guarantee Insurance Fund	6,609	76		
Bombay Municipal Corporation Loans Interest Warrants payable Account	1,43,11,548	39		
City of Bombay Imp overment Trust Loans Interest Warrants Payable Account	3,26,703	14		
Dishonoured Cheques	1,44,55,999	96		
Cash Bill outstanding Account	2,84,625	17		
Cheques payable	1,27,68,98,805	13		
Wages Deposit Account	1,21,06,209	64		
Advances to B.E.S.T.	...	...
Interest on B.I.T. Loans payable account	4,698	96		
Contribution receivable from Budget E,	48,84,821	09		
Interest accrued but not paid	2,20,764	00		
Advance for manufacture of concrete Covers and Dadarkar Pattern	...	...
Debt.Charges Equalisation Fund	...	...
Interest Receivable Account	4,80,000	00		
Municipal Power Laundry	11,33,587	57		
Reinstatement of Trenches	34,29,888	05		
Pension fund	1,25,37,684	91		
Gratuitous fund	29,66,757	66		
Amount transferred to D.A. (Sub.)	5,34,93,209	75		
Security Deposit in the C. R. Rly. L.D.G.S. New Delhi	...	...
Improving common House Gullies in the City	5,60,690	48		
Adv. for deposit with Out Side bodies	70	00		
Advance from surplus Monies for Financing Expenditure on Capital works pending Raising of a new Loan	50,144	30		
			2,89,61,60,992	10
Total Expenditure—Suspense Accounts			2,89,61,60,992	91

No. 15—Concluded (City)

	Details.		Total.	
	Rs.	P.	Rs.	P.
EXPENDITURE—D.—IMPROVEMENT SCHEMES ACCOUNT				
General Account Expenditure—				
A.—Maintenance of Properties and Streets	2,94,73,971	06		
B.—Cost of Management and Establishment	46,40,581	43		
C.—Proportionate charges on account of Municipal Supervision	20,67,936	26		
Deduct—				
Proportionate share of cost of Management and Establishment chargeable to				
Do. do. do. (a) General Account	Cr. 63,75,508	63		
Do. do. do. (b) Capital Account	Cr. 3,33,012	06		
D.—Debt Charges	98,35,690	16	2,94,73,971	06
			98,35,670	16
Total			3,93,09,661	22
Capital Account—				
Improvement and Street Schemes, etc.	45,59,250	43		
Proportionate share of cost of Management and Establishment chargeable to General account	3,33,012	06		
Lump sum provision for granting loans to grant Building etc. under Section 354w of the B.M.C. Act.				
Total	49,91,262	49	43,91,262	49
Total—General and Capital Account Expenditure			4,42,00,923	71
EXPENDITURE—E.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE CITY—				
General Account Expenditure—				
A.—Maintenance of Properties and Streets	13,83,850	98		
D.—Debt Charges	19,11,116	43	32,94,967	46
Capital Account—				
Expenditure	19,70,239	79		
Proportionate share of cost of Management and Establishment chargeable to Capital Account	11,51,465	89	31,21,645	68
Deficit in General Account				
Total E.—Improvement Schemes Account—Slum Clearance (City)			64,16,613	14
EXPENDITURE—F.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE—(SUBURBS)—				
General Account Expenditure—				
A.—Maintenance of Properties and Streets	9,69,340	68		
D.—Debt Charges	16,18,703	51	25,88,044	19
Total			25,88,044	19
Capital Account—				
Expenditure	92,423	95		
Deficit in General Account	15,13,159	00	17,05,587	95
Total				
Total, F.—Improvement Schemes Account—Slum Clearance—(Suburbs)			42,93,632	14
Bank's reconciliation—				
*Balance as per Bank's Pass Book			Rs.	P.
Add—			3,30,2	8 42
Revenue sent to the Bank on 31st March 1973 but acknowledged on 1st April 1973			36,87,031	72
			40,17,350	14
Less—			1,34,24,014	84
Uncashed Cheques				
Balance in Bank as per Day Book (Column No. 10)			54,06,664	70
Balance in Office in Government Promissory Notes, etc.	1,99,400	00		
Balance in Office in Cash	38,758	29	2,89,67,555	44
			2,37,159	29
Collection kept in office			2,87,23,397	15

SUMMARY

Receipts.			Disbursements.	
Rs.	P.		Rs.	P.
1,96,72,748	74	Balance on 1st April 1972		
45,15,30,110	53	A.—Revenue Account	46,40,97,750	30
9,68,17,376	41	B.—Capital Account	9,29,93,786	75
2,95,27,00,869	61	C.—Suspense Account	2,96,43,24,829	91
5,42,81,300	77	D.—Improvement Schemes Account	4,42,00,52	71
79,35,186	71	E.— Do. Slum Clearance (City)	64,16,613	14
29,43,833	89	F.— Do. do. (Suburbs)	42,93,632	14
3,57,62,08,677	95	Total Rs.	3,57,63,27,535	95
		* Balance on 31st March 1973	1,95,53,870	74
3,59,58,81,426	69	Total—	Total Rs.	3,59,58,81,426
				69

APPENDIX No. 15
(Suburbs)

Statement showing the Amounts of the Receipts and Expenditure respectively credited and debited to the Municipal Fund during the year 1972-73 and the Balance at the credit of the Fund at the close of the year 1972-73 i.e., 31st March 1973).

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—A.—REVENUE ACCOUNT.				
1.—General Tax, Indirect Taxation and Miscellaneous Revenue—				
A.—General Tax	5,01,52,982	15		
B. B. Theatre Tax	3,41,780	93		
C.—Other receipts—				
(b)—Grants-in-aid in respect of fines for offences against the law	...	...
(c)—Interest and profit on Investment of Surplus Loans and other balances	15,44,582	50		
(e)—Miscellaneous	4,07,204	02		
D.—Receipts on account of Proportionate cost of Collection of Education cess	78,269	14		
E.—Rebate from Govt. on account of collection of Education cess	48,907	85		
			5,25,73,726	59
2. Water Works—Water Tax and other Miscellaneous Water Works Revenue				
A.—Water Tax	3,20,30,319	65		
B.—Other Receipts	8,17,449	59	3,28,47,769	24
4. Free Reading Rooms, Libraries and Municipal High Schools			1,602	87
5. Public Health Department			5,52,220	85
6. Medical Relief and Education			49,218	21
7. Street Cleansing and Conservancy, etc.				
A.—Hala'khore Tax	75,74,996	59		
B.—Other receipts	1,35,130	76		
C.—Tax on Dogs	19,235	00		
D.—Veterinary Department Fees	186	50	77,29,548	83
8. Roads, Storm water Drains and Public Lighting				
A.—Wheel Tax	17,12,627	55		
B.—Contribution from Government in lieu of Tolls	16,673	00		
C.—Other receipts	6,09,279	70		
D.—Ferry Receipts	1,000	00	23,39,580	25
9. Mechanical			83,053	05
10. Buildings, Land Acquisition and Management—				
A.—Sale Proceeds of Surplus Land				
B.—Other Receipts				
(a)—Rent of Bldgs.	41,319	00		
(b)—Ground Rent	5,332	80		
(e)—Miscellaneous Receipts	7,85,498	67	8,32,150	47
11. Fire Brigade—				
A.—Fire Tax	16,19,762	81		
B.—Other Receipts	13,421	56	16,33,184	37
12. Licensing, Removal of Encroachments on Public Streets and Administration of Shops and Establishment Act, 1948 and Theatre Tax—				
A.—Licences for Dangerous and Offensive Trades	11,05,381	63		
B.—Removal of Encroachments on Public Streets, Licences for squatters and Hawkers and fees for removal of encroachments	5,01,825	43		
C.—Grants-in-aid from Government for the Administration of Shops and Establishment Act, 1948	1,66,328	00		
D.—Miscellaneous	3,33,607	98		
E.—Receipts from Theatre Tax			21,07,143	04
13. Gardens and Open Spaces			1,59,101	62
14. Markets and Slaughter Houses			14,49,989	57
15. Contribution from Capital Funds to Revenue on account of... Loan Works Staff			5,98,296	86
16. Rebate from Government on account of Collection of the Urban Immoveable Property Tax in the Suburbs			378	85
17. Grant-in-aid from Government				
19. Receipts from Government on account of U.I.P. Tax			9,351	24
20. Grant in aid from central Govt. on account of Additional Expenditure due to increase in emoluments of the employees of the Corporation				
Total—Revenue Receipts			10,29,66,315	93

APPENDIX No. 15—(Contd.)
(Suburbs)

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—B.—CAPITAL ACCOUNT.				
Capital Receipts—				
Debt Principal	...	...
New Loan 1972-73	...	...
Trust Funds	2,65,00,000	00		
Contribution from Govt. equal to 1/3rd of the Exp. etc.	...	...
Contribution from Hospital Fund of Budget 'A'	...	...
Total—Capital Account Receipts			2,65,00,000	00
RECEIPTS—C.—SUSPENSE ACCOUNT				
I.—Sinking and Special Fund Accounts—				
Sinking and Special Fund Accounts	1,36,07,966	82		
Loan Redemption Fund	78,00,000	00		
			2,14,07,966	82
II.—Paper and Cash Accounts—				
(1) Sinking Funds	71,07,054	44		
(2) Special Funds	...	432 50		
(3) Surplus Funds	1,28,86,653	26		
(4) Loan Funds	...	27 14		
State Bank of India and Other Local Banks on account of Sundry Deposits	8,72,37,700	34		
			10,72,31,867	68
III.—Suspense Accounts—				
Deposit Account	3,67,92,351	64		
Advances for demolition of unauthorised structures and for removal of unsafe buildings in the suburbs	...	...
Municipal contractor Personal a/c	...	...
Advances for purchase of Petrol	3,71,817	06		
Advances for Departmental Works	15,17,827	40		
Advances for Private Works	51,393	83		
Repayment of Municipal Loans (Subs.)	...	...
Advances Sundries, Miscellaneous Advances	1,14,35,899	06		
Advances Municipal Contractors	...	...
Dishonoured Cheques	36,98,300	44		
Advances—Municipal Officers—				
(a) Standing Advances for Contingent Expenses	...	50 00		
(b) Motor Cars and Motor Cycles to Officers	82,569	00		
(c) Cycle Advances to Subordinates	...	...
Suspense Account Mechanical Transport	64,95,180	00		
Provident Fund (Suburbs)	44,95,628	31		
Reinstatement of Trenches	4,41,447	08		
Greater Bombay Suburbs Municipal Corporation Loan	...	...
Interest Warrants Payable Account	94,61,531	84		
Interest accrued but not paid	7,42,833	33		
Cash Bills Outstanding Account	23,005	63		
Cheques Payable	19,38,05,969	30		
Plant and Machinery to be purchased out of S. C. B.	...	64 00		
Amount Transferred from Municipal General Fund	4,70,12,672	21		
Wages Deposit Account	27,63,540	27		
Municipal Debt Interest	1,15,50,297	88		
			33,07,82,378	28
Total—Suspense Account Receipts—I, II, III.			45,94,22,212	78
EXPENDITURE—A.—REVENUE ACCOUNT.				
4.—General Supervision, Collection of Revenue, etc.—				
A.—General Superintendence—				
(b) Chief Auditor's Establishment	2,16,388	47		
(c) Municipal Commissioner's Personal and General Office	1,53,454	98		
(d) Audit and Accounts Establishment	9,19,770	48		
(e) Labour Officer's Establishment	33,879	35		
(h) Public Relations Officer's Department	49,43	28		
(k) Chief Complaints Officer's Establishment	61,589	10		
B.—Collection of Revenue—				
(a) Property and Wheel Tax Establishment	25,62,411	20		
(c) Theatre Tax	7,203	86		
C.—Upkeep and guarding of Municipal Offices				
E.—Legal Deptt.	6,03,852	93		
F.—Miscellaneous Charges	46,743	07		
H.—P. F. Charges	11,119	19		
	78,501	97		
Total—I—Gen. Sup. A. to H.	47,44,297	88		
Deduct—Proportion of General Superintendence	Cr. 18,48,114	35		
Total—A to H	28,96,183	53		
I—Debt Charges	2,13,519	42	31,09,702	95
Carried forward			31,09,702	95

50
APPENDIX No. 15—(Contd.)
(Suburbs)

	Details		Total.	
	Rs.	P.	Rs.	P.
Brought over ...			31,09,702	95
EXPENDITURE—A.—REVENUE ACCOUNT—(Contd.)				
II.—Water Works—				
A.—Maintenance ...	48,99,777	32		
C.—P. F. Charges ...	41,760	22		
D.—Pension, Gratuities and Compassionate allowances				
(a) Pension Funds ...	2,65,200	00		
(b) Gratuities Funds ...				
E.—Proportion of General Suptd. & Collection of Revenue...	10,64,435	89		
F.—Debt Charges ...	38,40,703	56		
			1,01,11,876	90
IV.—Free Reading Rooms, Libraries and Municipal High Schools				
A.—Mun. Free Reading Rooms etc. ...	10,13,718	82		
C.—Provident Fund Charges ...				
D.—Debt Charges ...	9,994	02		
V.—Public Health Department—				
A.—General Suerintendence ...	44,01,320	81		
B.—Supply of Milk Snacks etc. to the children attending Municipal Primary Schools. ...	10,06,319	42		
C.—P. F. Charges ...	Cr. 10,393	17		
D.—Malaria Eradication Programme ...	4,41,399	33		
E.—Debt Charges ...	85,030	94		
H.—Population Census ...				
I.—Filaria Control Programme ...	1,99,386	00		
			61,23,063	33
VI.—Medical Relief and Education—				
A.—Hospitals				
(d)(vi) T. B. Clinic at Khar ...	2,27,318	66		
(h) K. B. Bhabha Hospital, and Sir C. J. R. Dispensary, Bandra ...	28,06,983	51		
(i) K. B. Bhabha Hospital, Kurla ...	21,70,727	05		
(j) M. G. H. Rajawadi, Ghatkoper ...	35,76,377	10		
(l) Medico Social Centre at Bandra ...				
(m) Reservation of beds for B. M. C. at Smt. B. C. J. Santacruz General Hospital ...	56,380	50		
(q) Juhu Hospital, Vile Parle ...	44,40,907	76		
(r) Reservation of beds for B. M. C. (Andheri) ...	39,015	00		
(s) M. G. Hospital Chembur ...	11,30,919	31		
B.—Maternity Homes & Children Welfare Service				
(a) Maternity Homes ...	17,71,310	12		
C.—Dispensaries—(a) Dispensaries, for out patients				
(1) Allopathic ...	19,62,657	12		
(c) Municipal Mobile Dispensary at Rajawadi Ghatkoper ...	9,411	55		
(d) Mobile Dispensaries ...	3,60,000	00		
D.—Family Welfare ...				
G.—Clinic for treatment of Leprosy cases ...	10,492	00		
I.—Grant in aid to Public Institutions ...	8,44,198	50		
J.—P. F. Charges ...	48,152	00		
K.—Debt Charges ...	11,84,446	03		
			2,06,46,326	22
VII.—Street Cleansing and Conservancy, etc.				
A.—Street Cleansing and Conservancy ...	15,33,922	12		
B.—Collection, Loading, Removal and Disposal of T. R. ...	73,34,327	46		
C.—Halalkhore Service ...	90,55,736	20		
D.—Provident Fund Charges ...	92,579	07		
E.—Pension Gratuities and compassionate Allowances for Halalkhore service ...	4,59,300	00		
F.—Debt Charges ...	50,31,856	80		
			2,35,07,721	65
VIII.—Roads, S.W. Drains and Public lighting				
A.—General ...	13,13,964	27		
B.—Maintenance of Roads ...	1,52,85,883	81		
C.—Public Lighting ...	42,00,719	86		
D.—Maintenance of S. W. Drains ...	38,25,155	72		
E.—Upkeep of Ferry Boats ...	Cr. 7	99		
H.—P. F. Charges ...	1,38,095	84		
I.—Debt Charges ...	1,07,51,750	65		
J.—Proportionate cost etc. ...	1,30,435	25		
			3,56,45,997	42
IX.—Mechanical				
A.—M.E.'s Office Establishment ...	1,33,565	96		
B.—Maintenance of electric Installation,—				
C.—P. F. ...	68,125	19		
D.—Debt Charges ...	5,000	00		
	2,993	19		
			2,10,389	34
X.—Buildings, Land Acquisition and Management—				
A.—City Engineer's Central Office Establishment ...	11,87,251	24		
B.—Inspection and Supervision of Private Buildings etc. ...	6,03,811	63		
D.—Land Acquisition and Management ...	1,63,415	95		
E.—Inspection and supervision of factories, workshops and workplaces. ...	85,696	36		
G.—P. F. Charges ...	50,415	00		
H.—Debt Charges ...	14,16,031	41		
			35,06,731	59
Carried forward ...			10,38,85,522	24

APPENDIX No. 15—(Contd.)
(Suburbs)

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...			10,38,85,522	24
XI.—Fire Brigade—				
A.—Maintenance ...	7,33,166	41		
B.—Provident Fund ...	2,500	00		
C.—Pension, Gratuities etc. ...	47,460	00		
D.—Proportion of General Superintendent ...	72,603	03		
E.—Debt Charges ...	1,02,804	66		
			9,58,534	10
XII.—Licensing and Removal of Encroachment on Public Streets Administration of Shops and Establishment Act, 1948 Administration of Theatre Tax and Parking Grounds—				
A.—Licensing Establishment ...	4,86,451	76		
B.—Removal of Encroachments on Public Streets ...	3,09,913	79		
C.—Administration of Shops and Establishment Act, 1948 ...	1,78,421	14		
D.—Provident Fund ...	24,812	00		
			9,99,598	69
XIII.—Gardens and Open Spaces—				
A.—Gardens ...	12,07,564	66		
B.—New Gardens, Recreation Grounds etc. ...	1,063	96		
C.—Roadside Trees ...	1,46,384	81		
D.—Open Air Theaters ...	36,676	16		
G.—P. F. Charges ...	2,961	00		
H.—Debt charges ...	2,12,703	58		
J.—Ghatkopar Swimming Pool ...	1,25,033	41		
			17,32,387	58
XIV.—Markets and Slaughter Houses—				
A.—Markets & Slaughter Houses ...	9,48,478	81		
B.—P. F. Charges ...	12,046	00		
C.—Pension, Gratuities etc. ...	51,780	00		
D.—Proportion of Gen. Suptd. ...	51,147	82		
E.—Debt Charges ...	2,38,922	96		
			13,02,375	59
XV.—Contribution to—				
(a) Budget 'B' under Section 125 (2) (d) of the Bombay Municipal Corporation Act ...	60,30,580	00		
(b) Budget 'E' under Section 126-C(c) of the Bombay Municipal Corporation Act ...	1,00,50,970	00	1,60,81,550	00
XVI.—Miscellaneous ...			27,57,112	20
Total,—Expenditure—A.—Revenue Account ...			12,77,17,080	40
EXPENDITURE—B.—CAPITAL ACCOUNT.				
I.—General Supervision Collection of Revenue, etc. ...	5,24,626	60		
II.—Water Works ...	22,33,102	37		
IV.—Free Reading Rooms & Libraries & Municipal High Schools ...				
V.—Public Health Department ...	80,872	13		
VI.—Medical Relief and Education ...	8,53,468	44		
VII.—Street Cleansing and Conservancy ...	44,39,171	05		
VIII.—Roads, S. W. Drains and Public lighting ...	1,26,28,726	93		
IX.—Mechanical ...				
X.—Buildings Land Acquisition and Management ...	18,88,775	80		
XI.—Fire Brigade ...	1,000	00		
XIII.—Gardens, Recreation Centres and Open Spaces ...	3,38,212	04		
XIV.—Markets and Slaughter Houses ...	7,24,793	65		
XV.—Slum Service and Village Amenities ...	30,522	27		
XVI.—Industrial Estates ...	Cr. 2,94,729	00		
Supersede A/c. Mechanical Transport ...	1,64,176	01		
Advances for purchase of Plant and Machinery ...	7,54,808	85		
Discount and other charges. ...	Cr. 8,23,218	47		
Assets written off ...				
Trust Fund Expenditure ...				
Total—Capital Account Expenditure ...			2,35,44,308	67
EXPENDITURE—C.—SUSPENSE ACCOUNT.				
I.—Sinking and Special Fund Accounts—				
Sinking and Special Fund Accounts ...	78,83,779	01		
Loan Redemption Fund ...	8,23,218	47	87,06,997	48
II.—Paper and Cash Accounts—				
(1) Sinking Funds ...	1,28,28,227	11		
(2) Special Funds ...	3,447	64		
(3) Surplus Funds ...	1,96,64,554	57		
(4) Loan Funds ...				
State Bank of India and Other Local Banks on account of Sundry Deposits ...	9,26,89,990	20	12,51,86,219	52
Carried forward ...			13,33,93,217	00

APPENDIX No. 15—(Concluded)
(Suburbs)
SUMMARY

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...			13,38,93,217	00
EXPENDITURE—C.—SUSPENSE ACCOUNT—(Contd.)				
III.—Suspense Accounts—				
Deposit Account ...	2,67,14,168	75		
Advances for demolition of unauthorised Structures and for removal of unsafe buildings in the Suburbs ...	46,409	68		
Advances for Purchase of Petrol ...	3,92,350	12		
Advances Departmental Works ...	18,05,569	10		
Advances Private Works ...	5,98,195	91		
Advances for Improvement of private streets ...				
Advances—Municipal Contractors ...				
Advances Sundries, Miscellaneous Advances ...	1,04,94,066	80		
Dishonoured Cheques ...	36,98,300	44		
Advance for Deposit with Outside Bodies ...	420	00		
Advances to Municipal Officers—				
(a) Standing Advances for Contingent Expenses ...	12,000	00		
(b) Motor Cars and Motor Cycles to Officers ...	1,50,232	00		
(c) Cycle Advances to Subordinates ...				
Suspenses Account—Mechanical Transport ...	56,07,334	35		
Provident Fund—Suburbs ...	44,95,628	31		
Repayment of Municipal Loan (Subs.) ...	78,00,000	00		
Rainstatement of Trenches ...	7,05,131	80		
Greater Bombay Municipal Corporation Loan Interest warrant payable Account ...	94,76,565	21		
Cheques Payable ...	19,35,00,832	47		
Cash Bills Outstanding Account ...	12,374	11		
Wages Deposit Account ...	27,63,540	27		
Municipal Debt Interest ...	1,15,50,297	88		
Interest accrued but not paid ...	1,24,461	09		
Amount transferred from Municipal General Fund ...	2,41,09,194	88		
Total, III.—Suspense Account Expenditure ...			30,40,57,673	17
Total—I, II & III. ...			43,79,50,890	17

SUMMARY.

Receipts.						Disbursements.	
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
71,12,934	66			Balance on 1st April 1972	...	...	...
10,29,66,315	93			A.—Revenue Account ...	12,77,17,080	40	...
2,65,00,000	00			B.—Capital Account ...	2,35,44,308	67	...
45,94,22,212	78			C.—Suspense Account ...	43,79,50,890	17	58,92,12,279 24
		59,60,01,463	37	Balance on 31st March 1973	...	...	67,89,184 13
		59,60,01,463	37				59,60,01,463 37
Bank's Reconciliation—				Rs.	P.	Rs.	P.
Balance as per Bank's Pass Books ...				9,92,587	78	...	...
Add—							
Revenue sent to the Bank on 31st March 1973 but acknowledged on 1st April 1973 ...				19,99,637	97	...	...
				28,92,225	75	...	...
Less—							
Uncashed Cheques ...				57,00,585	15		
Balance in Bank as per Day Book (Column No. 10) ...						Dr. 28,08,359	40
Balance in Office in Government Promissory Notes, etc. ...				3,84,800	00		
Balance in Office in Cash ...				427	82		
Collection held in Office Treasury ...				92,12,315	71	95,97,543	53
							67,89,184 13

APPENDIX No. 15

(Extended Suburbs.)

Statement showing the Amounts of the Receipts and Expenditure respectively credited and debited to the Municipal Fund during the year 1972-73 and the Balance at the credit of the Fund at the close of the year 1972-73 (i.e., 31st March 1973).

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—A.—REVENUE ACCOUNT.				
1.—General Tax, Indirect Taxation and Miscellaneous Revenue—				
A.—General Tax :—(1) From the Public	1,90,36,879.13			
C.—Other Receipts				
(b)—Grants-in-aid in respect of fines for offences against the law	...	...
(c)—Interest and profit on Investment of Surplus Loans and other balances	4,91,968.69			
(e)—Miscellaneous	1,57,794.89			
D.—Receipts on account of proportionate Cost of Collection of Education cess.	32,416.53			
E.—Rebate from Government on account of Collection of Education cess	39,159.66			
B. B.—Theatre Tax	1,85,598.20		1,99,43,817	10
2. Water Works—Water Tax and other Miscellaneous Water Works Revenue				
A—Water Tax	1,03,09,087.77			
B—Other Receipts	3,52,336.14		1,06,61,423.91	
4. Free Reading Rooms, Libraries & Municipal High Schools	...	...	1,440.00	
5. Public Health Department	...	...	2,13,182.26	
6. Medical Relief and Education	...	...	9,482.18	
7. Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
A.—Halalkhore Tax	29,80,775.19			
B.—Other Receipts	85,890.53			
C.—Tax on dogs	7,260.00		30,73,925.72	
8. Roads, S W. Drains and Public Lighting—				
A.—Wheel Tax	4,37,550.92			
B.—Contribution from Government in Lieu of Tolls	3,964.00			
C.—Other Receipts	2,10,823.17			
D.—Ferry Receipts	4,605.00		6,56,943.09	
9. Mechanical	...	...	42.00	
10. Buildings, Land Acquisition and Management—				
A.—Sale proceeds of Land	...	...
B.—Other Receipts				
(a) Rent of Buildings	28,788.19			
(b) Ground Rant	2,551.82			
(c) Miscellaneous Receipts	4,10,479.15		4,41,819.16	
11.—Fire Brigade—				
A.—Fire Tax	8,55,945.93			
B.—Other Receipts	Dr. 5		8,55,940.93	
12. Licensing, Removal of Encroachments on Public Streets and Administration of Shops and Establishment Act, 1948 and Theatre Tax—				
A.—Licences for Dangerous and Offensive Trades	6,80,843.92			
B.—Removal of Encroachments on Public Streets, Licences for squatters and Hawkers and fees for removal of encroachments	4,74,268.64			
C.—Grants-in-aid from Government for the Administration of Shops and Establishment Act, 1948	91,338.11			
D.—Miscellaneous	69,481.68			
E.—Receipts from Theatre Tax	...	...	13,15,982.35	
13. Gardens and Open Spaces	...	...	88,330.55	
14. Markets and Slaughter Houses	...	...	6,68,073.63	
15. Contribution from Capital Funds to Revenue on account of Loan Works Staff	...	...	4,22,399.64	
Rebate from Government on account of Collection of the Urban Immovable Property Tax in the Ext. Suburbs	...	...	932.24	
19. Receipts from Govt. on a/c. of U. I. P. Tax	...	...	24,330.58	
20. Grant in aid from Central Government on account of Additional Expenditure due to increase in emoluments of the employees of the Corporation.	...	...	...
Total—Revenue Receipts	...	...	3,83,78,065.34	

APPENDIX No. 15—(Contd.)
(Ext. Suburbs.)

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—B.—CAPITAL ACCOUNT.				
Capital Receipts—				
New Loan 1972-73	2,65,00,000.00			
Trust Funds	...			
Contribution from Govt. equal to 1/3rd of the Exp. etc.	...			
Total—Capital Account Receipts	...		2,65,00,000.00	
RECEIPTS—C.—SUSPENSE ACCOUNT.				
I.—Sinking and Special Fund Accounts—				
Sinking Fund Accounts	60,86,282.02			
Special Fund account Provident Fund account—	...			
Hospital Fund Account :—	...			
Loan Redemption Fund	22,00,000.00		82,86,282.02	
II.—Paper and Cash Accounts—				
(1) Sinking Funds	20,29,764.04			
(2) Special Funds	...			
(3) Surplus Funds	58,51,512.66			
(4) Loan Funds	9.09			
(5) State Bank of India and Other Local Banks on account of Sandry Deposits	2,66,89,372.28		3,45,70,658.07	
III.—Suspense Accounts—				
Deposit Account	1,67,45,861.94			
Advances for demolition of unauthorised structures and for removal of unsafe buildings in the Ext. Suburbs	3,358.51			
Municipal Debt Interest	56,51,812.40			
Advances for purchase of Petrol	...			
Advances for Departmental Works	4,38,671.39			
Advances for Private Works	4,787.46			
Advances Sundries Miscellaneous Advances	50,57,227.36			
Advances Municipal Contractors	1,352.64			
Dishonoured Cheques	12,99,082.41			
Advances—Municipal Officers—				
(a) Standing Advances for Contingent Expenses	...			
(b) Motor Cars and Motor Cycles to Officers	14,988.00			
(c) Cycle advances to Subordinates	329.00			
Provident Fund Extended Suburbs	13,17,844.79			
Interest Receivable A/c	...			
Amount transferred Municipal General Fund	3,30,63,165.46			
Greater Bombay Ext. Suburbs Municipal Corporation Loan Interest	42,69,012.65			
Warrants Payable Account	3,35,500.00			
Interest accrued but not paid	4,65,866.58			
Cash Bills Outstanding Account	7,99,67,429.42			
Cheques Payable	10,03,283.15			
Wages Deposit A/c	...			
Advances out of Surplus Cash Balance for financing the expenditure on Capital Works Loan Funds	...			
Reinstatement of Trenches	5,45,473.98			
Suspense Account Mechanical Transport	...			
Personal Account	...		15,01,85,047.14	
Total,—Suspense Account Receipts—I, II, III	...		19,30,41,987.23	
EXPENDITURE—A.—REVENUE ACCOUNT.				
I.—General Supervision, Collection of Revenue, etc.—				
A.—General Superintendence—				
(b) Chief Auditor's Establishment	1,13,109.74			
(c) Municipal Commissioner's Personal and General Office	44,968.92			
(d) Audit and Accounts Establishment	3,01,807.82			
(h) Public Relations Officer's Department	1,603.30			
(k) Chief Complaints Officer's Establishment	11,676.34			
B.—Collection of Revenue—				
(a) Property and Wheel Tax Establishment	10,58,824.00			
C.—Upkeep and Guarding of Municipal Offices				
D.—General Stores				
E.—Legal Department				
F.—Miscellaneous Charges				
H.—Provident Fund Charges				
Total—I General Supervision (A to H)	18,75,189.06			
Deduct—Proportion of General Supdt.	Cr 7,45,783.85			
Total—A to H	11,29,405.21			
I.—Debt Charges	2,62,665.87			
Carried forward	...		13,92,071.08	

APPENDIX No. 15—(Contd.).
(Ext. Suburbs.)

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought Over ...			13,92,071.03	
EXPENDITURE—A.—REVENUE ACCOUNT—(Contd.)				
II.—Water Works—				
A.—Maintenance	21,87,573.25			
C.—Provident Fund charges	19,387.76			
D.—Pension, Gratuities and compassionate Allowances	1,79,300.00			
E.—Proportion of General Superintendence and collection of Revenue	4,32,841.00			
F.—Debt Charges	17,92,571.44		46,11,673.45	
IV.—Free Reading Rooms, Libraries and Municipal High Schools				
A.—Municipal Free Reading Rooms and Libraries	2,06,111.80			
C.—Provident Fund, charges	...		2,06,111.80	
V.—Public Health Department—				
A.—General Superintendence	16,89,367.74			
B.—Supply of Milk, Snacks etc.	4,46,264.80			
C.—Provident Fund charges	2,868.46			
D.—Malaria Eradication Programme	1,52,923.83			
E.—Debt Charges	93,095.83			
H.—Population census	...			
I.—Filaria control programme	67,568.84		24,52,089.55	
VI.—Medical Relief and Education—				
A.—Hospitals	26,34,977.01			
B.—Maternity Homes and children welfare service	20,69,734.77			
C.—Dispensaries	11,54,952.16			
D.—Family Welfare Planning Centre	...			
G.—Clinic for treatment of leprosy cases	5,246.00			
I.—Grant-in-Aid to Public Institutions	3,60,889.00			
J.—Provident Fund charges	14,500.00			
K.—Debt Charges	6,41,479.40		68,84,828.34	
VII.—Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
A.—Street Cleansing and Conservancy	8,45,784.56			
B.—Collection, loading, removal and disposal of T. R.	33,53,179.22			
C.—Halalkhore Service	43,57,127.18			
D.—Provident Fund charges	39,628.33			
E.—Pension Gratuities etc.	3,07,320.00			
F.—Debt Charges	25,31,204.06		1,14,34,243.39	
VIII.—Roads, S. W. Drains and Public Lighting—				
A.—General	4,05,789.85			
B.—Maintenance of Roads	67,29,841.37			
C.—Public Lighting	16,32,150.62			
D.—Maint. of S. W. Drains	27,76,356.54			
H.—Provident Fund charges	21,943.54			
I.—Debt Charges	52,71,163.54			
J.—Proportionate Cost of Collection of Wheel Tax	54,027.55		1,68,91,273.01	
IX.—Mechanical—				
A.—ME's Office Est.	...			
B.—Maintenance of Electrical Installations	15,441.80			
D.—Debt charges	...		15,441.80	
X.—Buildings, Land Acquisition and Management—				
A.—City Engineers Central Office Establishment	4,57,771.64			
B.—Inspection and Supervision of Private Buildings	28,715.13			
D.—Land Acquisition & Management	4,987.05			
E.—Insp. & Sup. of Factories Workshops & Work places	64,992.48			
G.—Provident Fund charges	13,500.00			
H.—Debt Charges	3,18,806.33		8,88,772.63	
XI.—Fire Brigade				
A.—Maintenance	2,777.52			
D.—Proportion of Gen. Suptd. & Collection of Revenue	29,440.64			
E.—Debt Charges	43,159.71		75,377.87	
XII.—Licensing, Removal of Encroachment on Public Streets and Administration of Shops and Establishment Act, 1948 and Theatre Tax				
A.—Licensing Establishment	1,90,241.39			
B.—Removal of Encroachments on Public Streets	1,45,508.26			
C.—Administration of Shops and Establishment Act, 1948	89,615.17			
D.—Provident Fund charges	12,000.00		4,37,364.82	
XIII.—Gardens and Open Spaces—				
A.—Gardens	4,37,123.09			
B.—New Gardens	67,070.88			
C.—Road side Trees	46,730.05			
G.—S. V. Patel Swimming Pool Kandivli	1,29,993.27			
H.—Provident Fund Charges	545.00			
L.—Debt Charges	89,231.51		7,70,693.80	
Carried forward ...	...		4,60,59,941.50	

APPENDIX No. 15—(Contd.)
(Ext. Suburbs.)

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...			4,60,59,941.50	
EXPENDITURE—A.—REVENUE ACCOUNT—(Contd.)				
XIV.—Markets and Slaughter Houses—				
A.—Markets and Slaughter Houses ...	4,04,137.91			
B.—Provident Fund charges ...	2,707.00			
C.—Pension Gratuities etc. ...	22,400.00			
D.—Proportion of Gen. Supdt. ...	19,574.02			
E.—Debt. charges ...	1,58,676.76			
			6,07,495.69	
XV.—Contribution to				
(a) Budget 'B' under Section 125(2)(d) of the Bombay Municipal Corporation Act ...	23,12,170.00			
(b) Budget 'E' under Sec. 126—C(c) of the B.M.C. Act ...	38,53,610.00			
			61,65,780.00	
XVI.—Miscellaneous—				
A.—Provident Fund, Pensions, Gratuities and Compassionate Allowance				
(c) Pension Fund ...	5,04,267.39			
(d) Gratuities Fund ...	1,17,600.00			
			6,21,267.39	
XVII.—Measures for Civil Defence ...	...		...
Total—Expenditure—A.—Revenue Account ...			5,34,54,484.58	
EXPENDITURE—B.—CAPITAL ACCOUNT.				
I.—General Supervision Collection of Revenue, etc. ...	6,59,285.78			
II.—Water Works ...	17,91,731.06			
V.—Public Health Department ...	1,19,809.92			
VI.—Medical Relief and Education ...	10,44,398.71			
VII.—Street Cleansing and Conservancy ...	47,49,668.22			
VIII.—Roads, S.W. Drains and Public Lighting ...	89,05,753.56			
X.—Buildings, Land Acquisition and Management ...	15,35,235.23			
XI.—Fire Brigade ...	...		
XIII.—Gardens and Open Spaces ...	28,810.12			
XIV.—Markets and Slaughter Houses ...	30,200.00			
XV.—Slum service and Village Amenities				
Suspense A/c ...	...		
Advances for purchase of Plant and Machinery ...	28,326.49			
Discount and other charges ...	...		
Assets written off ...	...		
Trust Fund Expenditure ...	...		
Total—B—Capital Account Expenditure ...			1,88,93,219.09	
EXPENDITURE—C.—SUSPENSE ACCOUNT.				
I.—Sinking and Special Fund Accounts—				
Sinking and Special Fund Accounts ...	22,64,533.65			
Loan Redemption Fund ...	...		22,64,533.65	
II.—Paper and Cash Accounts—				
(1) Sinking Funds ...	58,51,512.41			
(2) Special Funds ...	...		
(3) Surplus Funds ...	1,34,29,773.13			
(4) Loan Funds ...	...		
(5) State Bank of India and Other Local Banks on account of Sundry Deposits ...	3,97,55,951.42		5,90,37,236.96	
Carried forward.			6,13,01,770.61	

APPENDIX No. 15—(Concl'd.).

(Ext. Suburbs).

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...	...	...	6,13,01,770.61	
EXPENDITURE—C.—SUSPENSE ACCOUNT—(Contd.)				
III.—Suspense Accounts—				
Deposit Account ...	1,25,89,701.80			
Advances for demolition ...	16,477.56			
Advances for Purchase of Petrol ...				
Advances Departmental Works ...	3,47,005.85			
Advances Private Works ...	84,066.16			
Advances for Improvement of Private Streets ...				
Advances—Municipal Contractors ...	3,512.61			
Advances—Sundries—Miscellaneous Advances ...	62,50,910.15			
Dishonoured Cheques ...	12,99,082.41			
Advances—Municipal Officers—				
(a) Standing Advances for Contingent Expenses ...	2,275.00			
(b) Motor Cars and Motor Cycles to Officers ...	20,000.00			
(c) Cycle Advances to Subordinates ...				
Provident Fund—Extended Suburbs ...	13,17,844.79			
Plant and Machinery to be purchased out of Surplus Cash Balance ...				
Amount Transferred from Municipal General Fund ...	75,33,507.86			
Greater Bombay Municipal Corporation Loan Interest Warrants Payable Account ...	42,60,279.91			
Cheques Payable ...	8,07,95,874.52			
Cash Bills outstanding A/c. ...	7,489.75			
Wages Deposit A/c. ...	10,03,283.15			
Municipal Debt, Interest ...	56,51,812.40			
Interest accrued but not paid ...	35,322.22			
Reinstatement of Trenches ...	6,63,490.21			
Suspense A/c Mechanical Transport ...	54.44			
Repayment of Municipal Loans (Ext. Subs) ...	22,00,000.00		12,40,81,950.79	
Total, III.—Suspense Account Expenditure ...			12,40,81,950.79	
Total I, II and III ...			18,53,83,721.40	

SUMMARY

Receipts.			Disbursement	
Rs.	P.		Rs.	P.
12,56,322.49		Balance on 1st April 1972—		
3,83,78,065.34		A.—Revenue Account ...	5,34,54,484.58	
2,65,00,000.00		B.—Capital Account ...	1,89,93,219.09	
19,30,41,987.23	25,91,76,375.06	C.—Suspense Account ...	18,53,83,721.40	25,77,31,425.07
		Balance on 31st March 1973 ...		14,44,949.99
	25,91,76,375.06			25,91,76,375.06

	Rs.	P.	Rs.
Banks' Reconciliation—			
Balance as per Bank's Pass Books ...	1,05,322.91		
Add—			
Revenue sent to the Bank on 31st March 1973 but acknowledged on 1st April 1973 ...	6,07,897.48		7,13,220.39
Less—			
Uncashed Cheques ...	22,77,551.31		22,77,551.31
Balance in Bank as per Day Book Column No. (10) ...			Dr. 15,64,330.92
Balance in Office in Government Promissory Notes, etc. ...	2,96,330.00		
Balance in Office in Cash ...	608.85		
Collection held in Office Treasury ...	27,12,342.05		30,09,280.91
			14,44,949.99

Appendix No. 22
IMPROVEMENT SCHEMES
General Account for the year ending 31st March 1973

Particulars.	Amount.	Particulars.	Amount.
	Rs.		Rs.
To Revenue Expenditure as per Appendix No. 24 ...	3,93,69,661	By Revenue Receipts as per Appendix No. 23 ...	5,36,43,436
Balance being Surplus for the year transferred to Capital Account Balance Sheet.	1,43,33,775		
Total ...	5,36,43,436	Total ...	5,36,43,436

APPENDIX No. 22A

Improvement Scheme Account—Slum Clearance Account—City
General Account for the year ending 31st March 1973.

Particulars.	Amount.	Particulars.	Amount.
	Rs.		Rs.
To Revenue Expenditure as per appendix 24A	32,94,667	By Revenue Receipts under	
		(i) Rent and other proceeds of properties ...	21,43,561
		(ii) Interest and Profits on Investments ...	...
		(iii) Miscellaneous Receipts ...	...
			21,43,561
		Balance being Deficit for the year transferred to Capital Account Balance Sheet	11,51,406
Total	32,94,667	Total ...	32,94,967

APPENDIX No. 22B

Improvement Schemes Account—Slum Clearance Account—Suburbs
General Account for the year ending 31st March 1973.

Particulars.	Amount.	Particulars.	Amount.
	Rs.		Rs.
To Revenue Expenditure as per appendix 24B	25,88,044	By Revenue receipts under	
		(i) Rent and other proceeds of properties	7,42,954
		(ii) Contribution from Budget—'D' ...	...
		(iii) Interest & Profits on Investments...	82,079
		(iv) Miscellaneous Receipts ...	1,49,852
			9,74,885
		Balance being Deficit for the year transferred to Capital Account Balance Sheet	16,13,159
Total ..	25,88,044	Total ...	25,88,044

APPENDIX No. 25

IMPROVEMENT SCHEMES

Balance Sheet—(Capital Account) as on 31st March 1973.

LIABILITIES				ASSETS				
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
LOANS OUTSTANDING—					BLOCK ACCOUNT—			
(Vide details as shown in appendix No. 29) ...			14,01,66,104.97		Property & Assets at original cost as per appendix No. 26 ...		30,30,06,767.88	
Book value of land comprised schedules 'W' and 'X' ...			47,58,490.00		LESS—ASSETS CREDITED BY—			
Sinking Fund on Loans ...			7,84,44,909.99		(1) Transfer of Sinking Fund Accumulations in respect of Rs. 370 lakhs loan ...		25,07,830.00	
Loan Redemption Fund ...			8,78,44,384.09		(2) Special grants from the Govt. of India ...		54,00,000.00	
SURPLUS REVENUE—					(3) Premia on loans raised in 1935-36 ...		30,000.00	
Deficit upto 31st March 1972 ...	96,08,057.53				(4) Grant-in-aid from Govt. of Bombay part expenditure of Acquisition of Land ...		5,00,000.00	
Surplus during 1972-73 ...	1,43,33,775.42		47,25,717.89		(5) Sale proceeds of Land & Building ...		8,42,00,457.51	
SPECIAL FUNDS—							9,26,38,287.51	21,03,68,480.37
Investment Reserve Fund ...			1,22,30,100.79		Book value of lands comprised in Schedules "W" & "X" as per appendix No. 27 (Section 97A of B. M. C. Act.) ...			47,58,490.00
Amenitie Fund ...			13,69,390.76		INVESTMENT—			
Rent Equilisation Fund ...			41,59,626.76		Sinking Fund - In paper & Cash as per appendix No. 28 ...			78,44,490.98
					Capital Fund in fixed deposit & Cash ...			2,23,67,726.59
					Investment Reserve Fund - In fixed deposit & Cash ...			1,22,30,100.79
					Aminities Fund - In fixed deposit & Cash ...			13,69,390.76
					Rent Equilisation Fund - In fixed deposit & Cash ...			41,59,626.76
			33,36,98,725.25					33,36,98,725.25

* For Face, Book and Market Values of Securities held in the Sinking Funds on 31st March 1972. Please see Appendix No. 30.

** In Face, Book & Market Values of the Securities held in these funds at 31st March 1972, please see Appendix No. 16.

† Being the Sinking Fund accumulations in respect of the Loan of Rs. 370 Lakhs taken by the late Bombay Improvement Trust out of Bombay Development Loan Transferred to Capital Account as the Loan is converted into a fresh Loan repayable in equated annual installments (vide C. R. No. 94 of 4th May 1936).

Appendix No. 25A.

IMPROVEMENTS SCHEMES

Slum Clearance City

Balance Sheet Capital Account as on 31st March 1973

LIABILITIES		Rs.	P.	ASSETS.		Rs.	P.
LOAN OUTSTANDING—				BLOCK ACCOUNT—			
(Vide details as shown in Appendix No. 29A)		3,47,76,319.80		Property and Assets at original cost as per Appendix No. 26A		3,41,14,810.64	
Subsidy from Government	...	94,83,126.00		Sinking Fund as per Appendix No. 28A	...	64,20,181.74	
Sale proceeds up to 31st March 1973	...	33,028.68		CAPITAL FUND—			
Sinking Fund on Loans	...	64,20,181.74					
Loan Redemption Fund	...	3,24,596.20					
		5,10,37,252.42					
Deduct—	Rs. P.						
Deficit upto 31st March 1972	78,32,280.58			In fixed deposit	15,18,500.00		
Add—Deficit during the year	11,51,405.89						
				In cash	73.57		15,18,573.57
		89,83,686.47					
Total Rs.	...	4,20,53,565.95		Total Rs.	...	4,20,53,565.95	

Appendix No: 25 B:

IMPROVEMENTS SCHEMES

Slum Clearance Suburbs.

Balance sheet Capital Account as on 31st March 1973.

LIABILITIES.		Rs.	P.	ASSETS.		Rs.	P.
Loan outstanding	...	2,20,03,619.74		Block Account Property and Asset at original cost as per Appendix No. 26B		3,04,05,780.23	
Advance from Surplus money	...	58,144.30		Sinking Fund as per app. 28B	...	32,75,854.09	
Subsidy from Government	...	57,82,779.00					
Sinking Fund on loan	...	32,75,854.09					
Sale proceeds upto 31st March 1973	...	26,78,443.76					
Add—							
Loan Redemption Fund	...	1,89,357.26					
Surplus upto 31st March 1972	13,06,595.17	3,39,88,198.15					
Less—Deficit during the year	10,13,159.00	3,06,563.83					
Total Rs.	...	3,36,81,634.32		Total	Rs. ...	3,36,81,634.3	

Appendix No. 26
IMPROVEMENT SCHEMES

Block account showing details of Capital Expenditure upto 31st March 1973.

Particulars	Total Capital Expenditure upto 31st March 1972	Expenditure during 1972-73.	Total Capital Expenditure upto 31st March 1973.	Particulars.	Total Capital Expenditure upto 31st March 1972	Expenditure during 1972-73.	Total Capital Expenditure upto 31st March 1973.
	Rs.		Rs.		Rs.		Rs.
CAPITAL ACCOUNT.				Brought over			
(Improvement and Street Schemes.				Acquisition of Land in survey No. 129, Hissal, Squatters Nos 130-136 of Eksar Pahad for housing of dishoused tenants as well as displaced Industries in execution of its sanctioned Schemes ...			
Schedule W Lands ...	13,45,571	...	13,45,571	...	94,149	...	94,149
Schedule X Lands ...	16,26,471	...	16,26,471	...	...	...	...
Schedule Z Lands ...	8	...	8	...	...	...	...
Scheme No.				Acquisition of land bearing C.S. No. 1325 (Part) and 1/325 Lower Parel Division for housing dishoused persons as a result of Municipal Scheme ...	1,80,129	...	1,80,129
1 First Nagpada ...	29,16,099	...	29,16,099	...	...	...	...
2 Princess Street ...	85,08,865	...	85,08,865	...	...	...	...
3 Sandhurst Road ...	1,16,02,375	...	1,16,02,375	...	...	...	...
4 Gamdevi ...	22,88,002	...	22,88,002	...	...	...	...
5 Dadar-Matunga ...	1,00,53,384	...	1,00,53,384	...	...	...	...
6 Sion-Matunga ...	1,83,42,282	5,98,299	1,94,40,581	Acquisition of land at Poisar and Kandivli in Survey No. 94 and 95 (Part) of Poisar Survey Nos. 126, 128 and 129 (Part) of Kandivli ...	3,51,977	...	3,51,977
7 Colaba Reclamation ...	4,78,538	...	4,78,538	...	...	...	...
8 Mandvi-Koliwada ...	26,52,501	...	26,52,501	...	...	...	...
11 Agripada ...	3,127	...	3,127	...	...	...	...
13 Souther Street Extension—				Taking over explosion victim tenements S. P. Sheds at Shantinagar Arthur Road, etc. ...	4,84,801	...	4,84,801
East-wards ...	68,102	...	68,102	...	...	...	...
27 Mathew Road ...	14,11,129	...	14,11,129	...	...	...	...
29 Nowroji Hill ...	86,57,482	...	86,57,482	...	...	...	...
30 Souther Street Extension—				Police Accommodation Schemes.	28,05,07,093	48,91,262	23,53,98,355
West-wards ...	1,30,512	...	1,30,512	Scheme No.	...	...	...
31 Parel Suparibaug Estate ...	91,42,350	...	91,42,350	14 First Nagpada ...	84,450	...	84,450
32 East Agripada ...	50,59,050	...	50,59,050	16 Wodehouse Road ...	3,22,667	...	22,667
33 Bhatwadi ...	3,28,433	...	3,28,433	17 Duncan Road ...	58,981	...	3,58,981
36 Lamington Road ...	2,91,191	...	2,91,191	18 Shepherd Road ...	36,223	...	36,223
37 Sydenham Road ...	1,40,51,180	...	1,40,51,180	19 Agripada ...	1,79,120	...	1,79,120
41 Undria Street ...	5,72,800	...	5,72,800	23 Connaught Road ...	79,495	...	79,495
43 Parel Road Central ...	38,97,348	...	38,97,348	24 Princess Street ...	2,65,953	...	2,65,953
47 Parel Road North ...	52,96,220	...	52,96,220	25 Gamdevi ...	1,29,407	...	1,29,407
49 Nepean Sea Road—Reclamation	3,053	...	3,053	34 Lamington Road ...	4,61,024	...	4,61,024
50 Mazgaon Street ...	47,68,206	...	47,68,206	35 Sandhurst Road West ...	1,46,104	...	1,46,104
52 Worli Street ...	2,73,19,569	321	2,73,19,569	39 Sandhurst Road East ...	7,58,893	...	7,58,893
53 Foras Road ...	36,82,045	...	36,82,045	40 Byculla ...	8,28,411	...	8,28,411
54 Kolbhatwadi ...	21,79,254	...	21,79,254	44 Maharbaudi ...	2,71,434	...	2,71,434
55 Bellasis Road ...	18,530	...	18,530	45 Palton Road ...	5,71,492	...	5,71,492
56 Dharavi Street ...	1,22,97,354	1,94,505	1,24,91,859	46 Naigaum ...	5,69,142	...	5,69,142
57 Sewri-Wadala ...	3,72,58,275	10,25,991	3,82,84,266	48 Mahim ...	4,53,032	...	4,53,032
58 Worli-Extension ...	1,38,24,997	...	1,38,24,997	55 Chinchbunder Road ...	4,32,656	...	4,32,656
59 Sewri-Koliwada ...	6,72,719	...	6,72,719	55A Mazgaon ...	4,53,560	...	4,53,560
60 Naigaum Street ...	76,18,685	...	76,18,685	63 King's Circle (Matunga) ...	4,82,185	...	4,82,185
61 Fergusson Road ...	15,68,030	...	15,68,030	67 Naigaum (for Armed Police and Recruits) ...	24,42,031	...	24,42,031
62 Love Lane ...	16,18,731	...	16,18,731	70 Arthur Road ...	1,58,357	...	1,58,357
66 Mahalaxmi ...	4,86,705	...	4,86,705	...	91,84,617	...	91,84,617
69 Widening of Byculla Bridge ...	7,20,290	...	7,20,290	Mill Company's Chowli Schemes	...	...	...
71 Chaupati Street ...	24,085	...	24,085	Scheme No.	...	...	...
Chaupati Reclamation ...	1,889	...	1,889	42 Spring Mills ...	5,18,990	...	5,18,990
East Chaupati Estate ...	4,380	...	4,380	51 Century Mills ...	1,29,980	...	1,29,980
Lump Provision for granting loans to erect buildings on Imp. Scheme lands as provided under Section 354W of the Municipal Act ...	21,160	Cr. 3,08	20,852	65 David Mills ...	2,96,852	...	2,96,852
2 Tripartite Road ...	2,26,684	...	2,26,684	...	9,45,822	...	9,45,822
73 Palton Road ...	10,37,510	...	10,37,510	Slum Clearance.	...	...	...
74 Sion Overbridge ...	92,457	...	92,457	Preliminary Expenses ...	22,481	...	22,481
Lump Provision for Acquisition in all Schemes ...	6,136	...	6,136	Transit Camps for providing alternative housing accommodation to facilitate Slum Clearance—	...	...	...
Lump provision for Housing Accommodation for proper classes including provision for acquisition. ...	5,20,48,053	30,03,269	5,50,51,322	(i) Construction of 244 tenements, etc. ...	2,58,843	...	2,58,843
Housing of squatters on land Near Mankhurd Railway Station. ...	8,38,300	...	8,38,300	(ii) Construction of 210 tenements, etc. ...	1,81,987	...	1,81,987
Housing of squatters on lands near Jogeshwari ...	7,30,846	...	7,30,846	Carried forward ...	4,63,311	...	4,63,311
76 Lohar Chawl Gully ...	3,95,939	57,302	4,53,301	...	29,11,00,843	48,91,262	29,59,92,105
77 Housing Accommodation—For Fishermen at Mahim Causeway ...	459	...	459	...	...	...	...
Housing of Squatters—Acquisition ...	6,29,401	...	6,29,401	...	...	...	...
Housing of Squatters at Vikhroli ...	151	...	151	...	...	...	...
Construction of Dormitories ...	6,92,736	...	6,92,736	...	...	...	...
Acquisition of land at Govandi ...	1,31,030	11,893	1,42,883	...	...	...	...
Carried forward ...	27,93,95,037	48,91,262	28,42,87,299	...	...	...	...

Appendix No. 26—(Concl'd)

Particulars	Total Capital Expenditure upto 31st March 1972	Expenditure during 1972-73.	Total Capital Expenditure upto 31st March 1973	Particulars	Total Capital Expenditure upto 31st March 1972.	Expenditure during 1972-73.	Total Capital Expenditure upto 31st March 1973
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Brought over ...	29,11,00,843	48,91,262	29,59,92,105	Brought over ...	29,19,76,405	48,91,262	29,68,67,667
Miscellaneous.							
Survey of the Island of Bombay...	1,06,046	...	1,06,046	Discount on Loans ...	14,53,359	...	14,53,359
Administrative Offices, etc.— Building on Esplanade Road near Queen's Statue ...	3,21,562	...	3,21,562	Expenses in connection with the Loan of Rs. 10 lakhs ...	12,227	...	12,227
Engineer's Office at Matunga ...	1,38,468	...	1,38,468	Expenses in connection with the repayment of Rs. 25 Lakhs Loan ...	19,504	...	19,504
Central Stores at the back of Frere Fletcher School ...	15,656	...	15,656	Expenses in connection with the loan raised in 1957-58 ...	62,048	...	62,048
Store yard at Agripada, etc. ...	83,801	...	83,801	Repayment of Rs. 40 lakhs loan of 1919 ...	26,83,469	...	26,83,469
Workshop for Motor Lorries at Agripada ...	90,368	...	90,368	Part payment of Rs. 25 Lakhs loan of 1926 ...	19,78,494	...	19,78,494
Tools and Plant ...	559	...	559		61,39,101	...	61,39,101
Refund to preliminary expenses to Government ...	38,019	...	38,019				
Preliminary expenses in connec- tion with the Improvements of slum areas ...	68,816	...	68,816				
Provision of a lift in the Improve- ment Trust Building at Napier Road near Queens Statue ...	12,267	...	12,267				
	8,75,562	...	8,75,562				
Carried forward ...	29,19,76,405	48,91,262	29,68,67,667	Grand Total ...	29,81,15,506	48,91,262	30,30,06,768

* This figure includes Rs. 3,33,012 being the share of cost of Management and Establishment chargeable to Capital Account.

APPENDIX No. 26A.

Improvement Schemes—Slum Clearance—City.
Block account showing details of Capital Expenditure upto 31st March 1973.

Particulars.	Total Capital Expenditure upto 31st March 1972.	Expenditure during 1972-73.	Total Capital Expenditure from 1st April 1956 upto 31st March 1973.
	Rs.	Rs.	Rs.
A.—Works to be carried out from Municipal Fund ...			
Acquisition of land within, adjoining or surrounded by clearance Areas for housing or other development works ...	10,47,243	...	10,47,243
Transit Camps for providing temporary alternative housing accommodation to facilitate Slum Clearance ...	5,33,767	..	5,33,767
Permanent Housing for Slum Population ...	13,54,259	...	13,54,259
Providing Sewerage arrangement in Kamathipura Area	1,71,857	...	1,71,857
Discount and other charges on the loan of Rs.10 lakhs raised in 1956-57 ...	10,108	...	10,108
Discount and other charges on the loan of 20 lakhs raised in 1957-58 ...	45,160	...	45,160
Do. on the loan of Rs. 10 lakhs raised in 1958-59	17,721	...	17,721
Miscellaneous expenses including Preliminary expenses (Staff and contingencies in connection with Slum Clearance) ...	25,94,827	3,61,944	29,56,771
Total A—Works to be carried out from Municipal Fund	57,74,942	3,61,944	61,36,886
B.—Works to be carried out with the Government Aid.			
Acquisition of land within, adjoining or surrounded by Clearance Areas for—rehousing or other development works ...	37,86,121	5,63,628	43,49,749
Permanent Housing for Slum Population ...	2,25,83,508	10,44,668	2,36,28,176
Total, B—Works to be carried out with the Government Aid	2,63,69,629	16,08,296	2,79,77,925
Grand Total * ...	3,21,44,571	19,70,240	3,41,14,811

*Previous expenditure amounting to Rs. 4,63,311 upto 31st March 1966 is shown in Appendix No. 26.

APPENDIX No. 26B.

Improvement Schemes—Slum Clearance—Suburbs.
Block account showing details of Capital Expenditure upto 31st March 1973.

Particulars.	Total Capital Expenditure upto 31st March 1972.	Expenditure during 1972-73.	Total Capital Expenditure upto 31st March 1973.
	Rs.	Rs.	Rs.
Slum Clearance—Suburbs.			
A.—Works to be carried out from Municipal Fund.			
Miscellaneous expenses including Preliminary Expenses (Staff and Contingencies) ...	1,66,99,154	92,429	1,67,91,583
Total, A—Works to be carried out from Municipal Fund	1,66,99,154	92,429	1,67,91,583
B.—Works to be carried out with the Govt. Aid.			
(b) Chawl and S.P. Chawls. ...	1,36,14,195	...	1,36,14,195
Total, —B—Works to be carried out with the Govt Aid.	1,36,14,195	...	1,36,14,195
Grand Total ...	3,03,13,349	92,429	3,04,05,778

Appendix IMPROVEMENT

Statement showing outstanding Loans of the Bombay Improvement Trust due by the payable for the year 1972-73, the amount paid during the year and the

Serial No.	Particulars of Loans.	Rate of Interest per Annum.	Amount raised.		Balance due on 1st April 1972		Amount raised in 1972-73.		Total		
			Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	R.	Ps.	
	<i>Loans raised from Government.</i>										
	Consolidated Loan in respect of Conversion Loan 1937-38, 35 lakhs Loan, and Rs. 8 lakhs Loan	3.3759 per cent.	4,17,94,178	06	1,38,39,713	60			1,38,39,713	60	
	Total loans raised from Government		4,17,94,178	06	1,38,39,713	60	...		1,38,39,713	60	
	<i>Loans raised from the Public.</i>										
1	Rs. 25 lakhs Loan 1912	4 Do.	25,00,000	00	25,00,000	00			25,00,000	00	
2	Rs. 18 lakhs Loan 1913	4 Do.	18,00,000	00	18,00,000	00			18,00,000	00	
3	Rs. 50 lakhs Loan 1914	4 Do.	50,00,000	00	50,00,000	00			50,00,000	00	
4	Rs. 25 lakhs Loan 1916	4 Do.	25,00,000	00	25,00,000	00			25,00,000	00	
5	Rs. 70 lakhs Loan 1920	6 Do.	70,00,000	00	† 66,00,000	00			66,00,000	00	
	Total from Public		1,88,00,000	00	1,84,00,000	00			1,84,00,000	00	
	<i>Loans raised from Internal.</i>										
1	Rs. 45 lakhs Loan 1921	4½ Do.	45,00,000	00	45,00,000	00			45,00,000	00	
2	Rs. 52 lakhs Loan October 1922	4½ Do.	52,00,000	00							
3	Rs. 8 lakhs Loan 22nd January 1923	4½ Do.	8,00,000	00							
4	Rs. 82 lakhs Loan 22nd January 1923	4½ Do.	82,00,000	00	1,72,00,000	00			1,72,00,000	00	
5	Rs. 30 lakhs Loan March 1923	4½ Do.	30,00,000	00							
6	Rs. 40 lakhs Loan 2nd November 1923	4½ Do.	40,00,000	00							
7	Rs. 20 lakhs Loan 2nd January 1924	4½ Do.	20,00,000	00	89,00,000	00			89,00,000	00	
8	Rs. 29 lakhs Loan 5th March 1924	4½ Do.	29,00,000	00							
9	Rs. 20 lakhs Loan 1st November 1924	4½ Do.	20,00,000	00							
10	Rs. 60 lakhs Loan 10th November 1924	4½ Do.	60,00,000	00	1,00,00,000	00			1,00,00,000	00	
11	Rs. 20 lakhs Loan 2nd January 1925	4½ Do.	20,00,000	00							
12	Rs. 20 lakhs Loan 2nd October 1925	4½ Do.	20,00,000	00							
13	Rs. 15 lakhs Loan 2nd November 1925	4½ Do.	15,00,000	00	70,00,000	00			70,00,000	00	
14	Rs. 35 lakhs Loan 2nd January 1926	4½ Do.	35,00,000	00							
15	Rs. 19.28 lakhs Loan out of Rs. 19.39 lakhs Loan (1956-57)	4 Do.	19,28,000	00	19,28,000	00			19,28,000	00	
16	Rs. 27,38,500 Loan 1957-58	4½ Do.	27,38,500	00	27,38,500	00			27,38,500	00	
17	Rs. 50 lakhs Loan 1959-60	4 Do.	50,00,000	00	50,00,000	00			50,00,000	00	
18	Rs. 70 lakhs Loan 1960-61 out of Rs. 1 Crore Loan 1960-61	4½ Do.	70,00,000	00	70,00,000	00			70,00,000	00	
19	Rs. 50 lakhs loan 1961-62	4½ Do.	50,00,000	00	50,00,000	00			50,00,000	00	
20	Rs. 100 lakhs loan 1962-63	4½ Do.	1,00,00,000	00	1,00,00,000	00			1,00,00,000	00	
21	Rs. 50 lakhs loan 1963-64	4½ Do.	50,00,000	00	50,00,000	00			50,00,000	00	
22	Rs. 100 lakhs loan 1965-66	6 Do.	1,00,00,000	00	1,00,00,000	00			1,00,00,000	00	
23	Rs. 50 lakhs Loan 1966-67	6 Do.	50,00,000	00	50,00,000	00			50,00,000	00	
24	Rs. 50 lakhs Loan 1967-68	6 Do.	50,00,000	00	50,00,000	00			50,00,000	00	
25	Rs. 75 lakhs loan 1968-69	6 Do.	75,00,000	00	75,00,000	00			75,00,000	00	
26	Rs. 25 Lakhs loan 1972-73	6 Do.	...		...		...		...
	Total from Internal		11,17,66,500	00	11,17,66,500	00			11,17,66,500	00	
	Total from Public & Internal		13,05,66,500	00	13,01,66,500	00			13,01,66,500	00	
	Grand Total		17,23,60,678	06	14,40,06,213	60			14,40,06,213	60	

* Loans at serial Nos. 1 to 15 are guaranteed by Government under Section 163 of the Govt. of India Act 1935. (Section 110 F of the B.M.C. Act.).

† Debentures for Rs. 4 lacs held by the Public were repaid on 1st April 1935 under the option reserved in the Debentures

No. 29.
SCHEMES.

Municipality, the interest outstanding on 1st April 1972, on the different Loans, the amount Balances outstanding on 31st March 1973.

Amount repaid in 1972-73.		Balance due on 31st March 1973.		Interest outstanding on 1st April 1972.		Interest payable in 1972-73.		Total interest due.		Deduct interest paid during the Year.		Outstanding balance on 31st March 1973.	
8		9		10		11		12		13		14	
Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
13,40,108	63	1,24,99,604	97			4,55,999	37	4,55,999	37	4,55,999	37		
13,40,108	63	1,24,99,604	97			4,55,999	77	4,55,999	37	4,55,999	37		
25,00,000	00	...		4,202	54	1,00,000	00	1,04,202	54	70,035	86	* 34,166	68
...		18,00,000	00	17,918	69	72,000	00	89,918	69	83,101	00	6,817	69
...		50,00,000	00	17,805	13	2,00,000	00	2,17,805	13	1,96,453	00	21,352	13
...		25,00,000	00	...		1,00,000	00	1,00,000	00	1,00,000	00	...	
...		66,00,000	00	...		3,96,000	00	3,96,000	00	3,96,000	00	...	
25,00,000	00	1,59,00,000	00	39,926	36	8,68,000	00	9,07,926	36	8,45,589	86	28,169	82
												* 34,166	68
...		45,00,000	00			2,02,500	00	2,02,500	00	2,02,500	00	...	
...		...				7,74,000	00	7,74,000	00	7,74,000	00	...	
...		1,72,00,000	00			4,00,500	00	4,00,500	00	4,00,500	00	...	
...		...				4,50,000	00	4,50,000	00	4,50,000	00	...	
...		89,00,000	00			3,15,000	00	3,15,000	00	3,15,000	00	...	
...		...				77,120	00	77,120	00	77,120	00	...	
...		70,00,000	00			1,16,387	00	1,16,387	00	1,16,386	24	00	76*
...		19,28,000	00			2,00,000	00	2,00,000	00	2,00,000	00	...	
...		27,38,500	00			2,97,500	00	2,97,500	00	2,97,500	00	...	
...		50,00,000	00			2,12,500	00	2,12,500	00	2,12,500	00	...	
...		...				4,50,000	00	4,50,000	00	4,50,000	00	...	
...		70,00,000	00			2,37,500	00	2,37,500	00	2,37,500	00	...	
...		...				6,00,000	00	6,00,000	00	6,00,000	00	...	
...		1,00,00,000	00			3,00,000	00	3,00,000	00	3,00,000	00	...	
...		50,00,000	00			3,00,000	00	3,00,000	00	3,00,000	00	...	
...		...				4,50,000	00	4,50,000	00	4,50,000	00	...	
...		50,00,000	00			75,000	00	75,000	00	...		* 75,000	00
...		75,00,000	00			...		...		...		...
...		...				54,58,007	00	54,58,007	00	53,83,006	24	* 75,000	76
...		11,17,66,500	00	...		63,26,007	00	63,65,933	36	62,28,590	10	28,169	82
25,00,000	00	12,76,66,500	00	39,926	36	...		...		...		* 1,09,167	44
...		...		...		68,21,932	73	68,21,932	73	66,84,595	47	** 28,169	82
33,40,108	63	14,01,66,104	97	39,926	36	67,82,006	37	...		...		* 1,09,167	44

* To be treated as savings.
 ‡ This is the total figure of Renewed Grants under Stt. 'A', 'A-1' & 'B' & 'C'.
 ** This is the total figure of Outstanding balance required for renewal under Stt. 'A', 'A-1' & 'B' for the next year. (1973-74).

APPENDIX
SLUM CLEARANCE

(A—CITY AND

Statement showing outstanding Loans of the Slum clearance Scheme (A-City & amount payable for the year 1972-73, the amounts paid during

Serial No.	Particulars of Loans	Date of Issue	Rate of interest per Annum	Balance due on 1st April 1972		Amount raised in 1972-73
				Rs.	P.	
(1)	(2)	(3)	(4)	(5)		(6)
A.—City						
LOANS RAISED FROM GOVT. PROGRAMME NO. 1						
1	Rs. 9,50,997 Loan (1957-58) ...	28-3-1958	4½%	9,19,118	91	...
2	Rs. 6,12,000 Loan (1958-59) ...	29-3-1959	Do.	5,91,485	34	...
3	Rs. 2,73,003 Loan (1959-60) ...	4-8-1959	Do.	2,63,851	75	...
4	Rs. 1,85,000 Loan (1960-61) ...	28-3-1961	Do.	1,78,798	63	...
5	Rs. 5,04,000 Loan (1961-62) ...	28-3-1962	Do.	4,52,312	31	...
6	Rs. 2,64,529 Loan (1962-63) ...	13-3-1963	5½%	2,56,791	38	...
7	Rs. 2,50,971 Loan (1963-64) ...	27-3-1964	Do.	2,43,544	58	...
8	Rs. 47,250 Loan (1964-65) ...	27-1-1965	Do.	45,851	84	...
9	Rs. 2,20,355 Loan (1964-65) ...	13-3-1965	Do.	2,13,834	53	...
10	Rs. 50,504 Loan (1965-66) ...	31-8-1965	5½%	49,032	25	...
11	Rs. 73 Loan (1965-66) ...	16-2-1966	Do.	70	88	...
12	Rs. 568 Loan (1968-69) @ ...	30-8-1968	Do.	551	46	...
Total 1st Programme				32,15,153	91	...
LOANS RAISED FROM GOVT. PROGRAMME NO. 2						
13	Rs. 94,00 Loan (1961-62) ...	28-3-1962	4½%	94,500	00	...
Total 2nd Programme				94,500	00	...
LOANS RAISED FROM GOVT. PROGRAMME NO. 3						
14	Rs. 9,00,000 Loan (1960-61) ...	28-3-1961	4½%	7,81,701	48	...
15	Rs. 62,037 Loan (1962-63) ...	13-3-1963	5½%	54,699	35	...
16	Rs. 9,963 Loan (1963-64) ...	27-3-1964	Do.	8,784	69	...
Total 3rd programme				8,45,185	52	...
LOANS RAISED FROM GOVT. PROGRAMME No. 4						
17	Rs. 3,69,600 Loan (1963-64) ...	27-3-1964	5½%	3,69,600	00	...
18	Rs. 1,84,800 Loan (1964-65) ...	27-1-1965	Do.	1,84,800	00	...
Total 4th programme				5,54,400	00	...
LOANS RAISED FROM GOVT. PROGRAMME NO. 6						
19	Rs. 1,53,900 Loan (1966-67) @ ...	20-3-1967	5½%	1,49,415	18	...
20	Rs. 17,100 Loan (1967-68) @ ...	1-3-1968	Do.	16,601	68	...
21	Rs. 57,000 Loan (1968-69) @ ...	12-12-1968	Do.	55,338	96	...
Total 6th programme				2,21,355	82	...
LOANS RAISED FROM GOVT. PROGRAMME No. 9						
22	Rs. 6,10,818 Loan (1966-67) @ ...	30-3-1967	5½%	6,10,818	00	...
23	Rs. 5,73,838 Loan (1967-68) @ ...	1-3-1968	Do.	5,73,838	00	...
24	Rs. 7,28,110 Loan (1968-69) @ ...	12-12-1968	Do.	7,28,110	00	...
25	R. 1,00,518 Loan (1968-69) @ ...	31-3-1969	Do.	1,00,518	00	...
26	Rs. 1,04,516 Loan (1969-70) @ ...	17-3-1970	5½%	1,04,516	00	...
26(a)	Rs. 3,91,298 Loan (1970-71) @ ...	31-3-1971	6.50%	3,91,298	00	...
Total 9th programme				25,09,098	00	...
LOANS RAISED FROM GOVT. PROGRAMME NO. 10						
27	Rs. 1,62,343 Loan (1966-67) @ ...	30-3-1967	5½%	1,62,343	00	...
28	Rs. 3,254 Loan (1967-68) @ ...	1-3-1968	Do.	3,254	00	...
29	Rs. 58,984 Loan (1968-69) @ ...	12-12-1969	Do.	58,984	00	...
Total 10th programme				2,24,581	00	...
LOANS RAISED FROM GOVERNMENT PROGRAMME No. 11						
30	Rs. 69,426 Loan (1968-69) @ ...	31-3-1969	5½%	69,426	00	...
31	Rs. 75,936 Loan (1969-70) @ ...	17-3-1970	5½%	75,936	00	...
32	Rs. 13,725 Loan 1970-71 @ ...	31-3-1971	6.50%	13,725	00	...
Total 11th Programme				1,59,087	00	...
Total Loan from Govt.				78,23,361	25	...
LOANS FROM PUBLIC						
33	Rs. 10 Lakhs Loan 1956-57 ...	29-3-1957	4%	10,00,000	00	...
34	Rs. 20 Lakhs Loan 1957-58 ...	15-3-1958	4½%	20,00,000	00	...
35	Rs. 10 Lakhs Loan 1958-59 ...	30-3-1959	4%	10,00,000	00	...
36	Rs. 25 Lakhs Loan 1959-60 ...	15-2-1960	4%	25,00,000	00	...
37	Rs. 50 Lakhs Loan 1961-62 ...	1-2-1962	4½%	50,00,000	00	...
38	Rs. 30 Lakhs Loan 1964-65 ...	25-3-1965	4½%	30,00,000	00	...
39	Rs. 50 Lakhs Loan 1966-67 ...	1-3-1967	6%	50,00,000	00	...
40	Rs. 25 Lakhs Loan 1971-72 ...	30-3-1972	6%	25,00,000	00	...
41	Rs. 50 Lakhs Loan 1972-73 ...	31-3-1973	6%	...	...	50,00,000 00
Total Loans from Public				2,20,00,000	00	50,00,000 00
Grand Total				2,98,23,361	25	50,00,000 00

@ The amount of interest which will accrued on this Loan from the day on which it will be drawn to the date on which the repayment of total Loan sanctioned commences will be payable along with the first repayment instalment of the total loan sanctioned.

No. 29A

SCHEME (ACCOUNT)

B—SUBURBS)

B-Suburbs) Budget B, the interest outstanding on 1st April 1972, on the different loans, the the year and the balances outstanding on 31st March 1973.

Total		Amount repaid in 1972-73		Balance due on 31st March 1973		Interest outstanding on 1st April 1972		Interest out payable in 1972-73		Total interest due		Deduct interest paid during the year		Outstanding balance on 31st March 1973	
(7)		(8)		(9)		(10)		(11)		(12)		(13)		(14)	
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
9,19,118	91	17,022	82	9,02,096	09	...	...	42,795	00	42,795	00	41,360	35	...	...
5,91,485	34	10,954	78	5,8,350	56	...	...	27,540	00	27,540	00	26,616	84	...	...
2,63,891	75	4,886	74	2,58,955	01	...	...	12,286	00	12,286	00	11,873	33	...	...
1,78,978	68	33,11	49	1,75,487	19	...	...	8,325	00	8,325	00	8,45	94	...	...
4,52,312	31	8,377	19	4,43,935	12	...	...	21,060	00	21,060	00	20,354	05	...	...
2,56,701	28	4,224	65	2,52,476	53	...	...	13,888	00	13,888	00	13,476	82	...	...
2,43,544	58	4,08	12	2,39,536	45	...	...	13,176	00	13,176	00	12,786	09	...	...
45,851	84	754	60	45,07	24	...	...	2,481	00	2,481	00	2,407	22	...	...
2,13,814	53	3,519	17	2,10,315	36	...	...	11,569	00	11,569	00	11,226	31	...	...
49,032	25	799	94	48,232	31	...	...	2,904	00	2,904	00	2,819	35	...	...
70	88	1	15	69	73	...	...	5	00	5	00	4	08	...	...
551	46	8	99	542	47	...	...	...	...	...	...	31	71	...	...
32,15,153	91	57,869	64	31,57,284	27	...	...	1,56,029	00	1,56,029	00	1,51,002	09	5,026	91*
94,500	00	...	...	94,500	00	...	...	4,253	00	4,253	00	4,252	50	...	...
94,500	00	...	...	94,500	00	...	...	4,253	00	4,253	00	4,252	50	0	50*
7,81,701	48	20,075	43	7,61,626	05	...	...	35,176	57	35,176	57	35,176	57	...	...
54,699	35	1,279	61	54,419	74	...	...	2,871	71	2,871	71	2,871	71	...	...
8,784	69	205	48	8,579	21	...	...	461	20	461	20	461	20	...	...
8,45,185	52	21,560	52	8,23,625	00	...	...	38,509	48	38,509	48	38,509	48	...	...
3,60,600	00	...	...	3,69,600	00	...	...	19,404	00	19,404	00	19,404	00	...	...
1,64,800	00	...	...	1,84,800	00	...	...	9,702	00	9,702	00	9,702	00	...	...
5,54,400	00	...	...	5,54,400	00	...	...	29,106	00	29,106	00	29,106	00	...	...
1,49,415	18	2,437	62	1,46,977	56	...	...	8,591	37	8,591	37	8,591	37	...	...
1,601	68	270	85	16,331	83	...	...	954	60	954	60	954	60	...	...
53,338	96	92	82	54,436	14	...	...	3,181	99	3,181	99	3,181	99	...	...
2,21,55	82	3,611	29	2,17,744	53	...	...	12,727	96	12,727	96	12,727	96	...	...
6,10,818	00	...	...	6,10,818	00	...	...	...	...	...	...	...	...	...	...
3,73,831	00	...	...	5,73,838	00	...	...	...	...	...	...	...	...	...	...
7,28,11	00	...	...	7,28,110	00	...	...	...	...	...	...	...	...	...	...
1,05,518	00	...	...	1,00,518	00	...	...	...	...	...	...	...	...	...	...
1,05,516	00	...	...	1,04,516	00	...	...	...	...	...	...	...	...	...	...
3,91,28	00	...	...	3,91,298	00	...	...	...	...	...	...	...	...	...	...
25,09,098	00	...	...	25,09,098	00	...	...	...	...	...	...	...	...	...	...
1,62,343	00	...	...	1,62,343	00	...	...	...	...	...	...	...	...	...	...
3,254	00	...	...	3,254	00	...	...	...	...	...	...	...	...	...	...
58,984	00	...	...	58,984	00	...	...	...	...	...	...	...	...	...	...
2,24,581	00	...	...	2,24,581	00	...	...	...	...	...	...	...	...	...	...
69,426	00	...	...	69,426	00	...	...	...	...	...	...	...	...	...	...
75,96	00	...	...	75,936	00	...	...	...	...	...	...	...	...	...	...
13,725	00	...	...	13,725	00	...	...	...	...	...	...	...	...	...	...
1,5,087	00	...	...	1,59,687	00	...	...	...	...	...	...	...	...	...	...
38,23,361	25	83,041	45	77,40,310	80	...	...	2,40,625	44	2,40,625	44	2,35,598	03	5,027	41*
1,00,000	00	...	...	10,00,000	00	...	...	40,000	00	40,000	00	40,000	00	...	...
20,00,000	00	...	...	20,00,000	00	...	...	85,000	00	85,000	00	85,000	00	...	...
10,00,000	00	...	...	10,00,000	00	...	...	40,000	00	40,000	00	40,000	00	...	...
25,00,000	00	...	...	25,00,000	00	...	...	1,00,000	00	1,00,000	00	1,00,000	00	...	...
50,00,000	00	...	...	50,00,000	00	...	...	2,12,500	00	2,12,500	00	2,12,500	00	...	...
30,00,000	00	...	...	30,00,000	00	...	...	1,42,500	00	1,42,500	00	1,42,500	00	...	...
50,00,000	00	...	...	50,00,000	00	...	...	3,00,000	00	3,00,000	00	3,00,000	00	...	...
25,00,000	00	...	...	25,00,000	00	...	...	2,42,100	00	2,42,000	00	1,50,000	00	92,100	00*
50,00,000	00	...	...	50,00,000	00	...	...	2,25,000	00	2,25,000	00	...	...	2,25,000	00.
2,70,00,000	00	...	...	2,70,00,000	00	...	...	13,87,100	00	13,87,100	00	10,70,000	00	3,17,100	00*
3,48,23,361	25	83,041	45	3,47,40,319	80	...	...	16,27,725	44	16,27,725	44	13,05,598	03	3,22,147	41*

* To be treated as savings

‡ The Loan outstanding as on 31-3-1971 is shown Rs. 2,98,59,361.25 in appendix No. 25A, as an amount of Rs. 36,000 received has been refunded to the Government by debiting the amount to Sundry advances as certain tenements constructed under Slum Clearance Scheme were allotted to postal Department at the instance of the Government.

† Expenditure on account of Interest amounting of Rs. 972.22 and an account of repayment Govt. Loan amounting to Rs. 1,08,096.09 has been met out of saving of Rs. 2,58,184.14 hence net saving under in Interest is Rs. 1,49,115.83.

SLUM CLEARANCE

(A—CITY AND

Statement showing outstanding Loans of the Slum clearance Scheme (A-City & amount payable for the year 1972-73 the amounts paid during

Serial No.	Particulars of Loans	Date of Issue	Rate of interest per Annum	Balance due on 1st April 1972	Amount raised in 1972-73
(1)	(2)	(3)	(4)	(5)	(6)
	B.—Suburbs and Extended Suburbs.			Rs.	Rs.
	LOANS RAISED FROM GOVT. PROGRAMME NO. 2				
1	Rs. 3,07,000 Loan (1959-60)	4-8-1959	4½%	3,07,000.00	...
2	Rs. 5,84,000 Loan (1960-61)	28-3-1961	4½%	5,84,000.00	...
3	Rs. 3,54,375 Loan (1962-63)	13-3-1963	5½%	3,54,375.00	...
4	Rs. 1,67,625 Loan (1963-64)	27-3-1964	Do.	1,67,625.00	...
5	Rs. 2,43,364 Loan (1964-65)	13-3-1965	Do.	2,43,364.00	...
6	Rs. 11,599 Loan (1966-67)	1-12-1966	5½%	11,599.00	...
	Total 2nd Programme			16,67,963.00	...
	LOANS RAISED FROM GOVT. PROGRAMME NO. 3				
7	Rs. 1,62,000 Loan (1960-61)	28-3-1961	4½%	1,40,705.77	...
8	Rs. 9,72,000 Loan (1961-62)	28-3-1962	Do.	8,44,234.23	...
9	Rs. 1,00,182 Loan (1962-63)	13-3-1963	5½%	88,332.55	...
10	Rs. 7,818 Loan (1963-64)	27-3-1964	Do.	6,893.52	...
	Total 3rd Programme			10,80,166.07	...
	LOANS RAISED FROM GOVT. PROGRAMME NO. 4				
11	Rs. 4,65,300 Loan (1963-64)	27-3-1964	5½%	4,65,300.00	...
12	Rs. 1,08,900 Loan (1964-65)	27-1-1965	Do.	1,08,900.00	...
13	Rs. 4,75,911 Loan (1964-65)	13-3-1965	Do.	4,75,911.00	...
14	Rs. 1,31,267 Loan (1965-66)	31-8-1965	5½%	1,31,267.00	...
15	Rs. 1,57,327 Loan (1965-66)	16-2-1966	5½%	1,53,917.00	...
16	Rs. 1,07,739 Loan (1965-66)	12-3-1966	5½%	1,07,739.00	...
17	Rs. 1,06,343 Loan (1966-67)	1-12-1966	5½%	1,06,343.00	...
18	Rs. 1,28,866 Loan (1966-67)	30-3-1967	5½%	1,28,866.00	...
19	Rs. 66,705 Loan (1967-68)	23-2-1968	5½%	66,705.00	...
20	Rs. 12,159 Loan (1967-68)	1-3-1968	5½%	12,159.00	...
21	Rs. 22,388 Loan (1968-69)	12-12-1968	5½/4%	22,388.00	...
22	Rs. 3,519 Loan (1968-69)	31-3-1969	5½/4%	3,519.00	...
	Total 4th Programme			17,81,014.00	...
	Total loans from Govt.			4,31,153.07	...
	LOAN FROM PUBLIC				
23	Rs. 50 Lakh Loan 1962-63	25-3-1963	4½%	50,00,000.00	...
24	Rs. 50 Lakh Loan 1966-67	31-3-1967	6%	50,00,000.00	...
25	Rs. 50 Lakh Loan (1967-68)	30-3-1968	6%	50,00,000.00	...
26	Rs. 25 Lakh Loan (1968-69)	29-3-1968	6%	25,00,000.00	...
27	Rs. 10 Lakh Loan (1970-71)	...	...	...	...
28	Rs. 25 Lakh Loan (1972-73)	...	...	...	...
	Total Loan from Public			7,00,000.00	...
	Grand Total			2,20,31,43.07	...

No. 29A—concl'd.
SCHEME (ACCOUNT)
B—SUBURBS)

B-Suburbs) Budget B, the interest outstanding on 1st April 1972, on the different loans, the the year and the balances outstanding on 31st March 1973.

Total	Amount repaid in 1972-73	Balance due on 31st March 1972	Interest outstanding on 1st April 1971	Interest payable in 1971-72	Total interest due	Deduct interest paid during the year	Outs anding balance on 31st March 1971
(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
3,07,000.00	...	3,07,000.00	...	13,815.00	13,815.00	13,815.00	...
5,84,000.00	...	5,84,000.00	...	26,280.00	26,280.00	26,280.00	...
3,54,375.00	...	3,54,375.00	...	18,605.00	18,605.00	18,604.69	0.31*
1,67,625.80	...	1,67,625.00	...	8,801.00	8,801.00	8,800.31	0.69*
2,43,364.00	...	2,43,364.00	...	12,777.00	12,777.00	12,776.61	0.39*
11,599.00	...	11,599.00	...	...	...	...	...
16,67,963.00	...	16,67,963.00	...	80,278.00	80,278.00	80,276.61	* 1.39
1,40,705.77	3,613.66	1,37,092.11	...	6,331.76	6,331.76	6,331.76	...
8,44,234.23	21,682.04	8,22,552.19	...	37,990.54	37,990.54	37,990.54	...
88,332.55	2,066.41	86,266.14	...	4,637.46	4,637.46	4,637.46	...
6,893.52	161.22	6,732.30	...	361.91	361.91	361.91	...
10,60,166.07	27,523.33	10,52,642.74	...	49,321.67	49,321.67	49,321.67	...
4,65,300.00	...	4,65,300.00	...	24,429.00	24,429.00	24,428.25	0.75*
1,08,900.00	...	1,08,900.00	...	5,718.00	5,718.00	5,717.25	0.75*
4,75,911.00	...	4,75,911.00	...	24,986.00	24,986.00	24,985.33	0.67*
1,31,267.00	...	1,31,267.00	...	7,548.00	7,548.00	7,547.85	0.15*
1,53,917.00	...	1,53,917.00	...	8,851.00	8,851.00	8,850.23	0.77*
1,07,719.00	...	1,07,719.00	...	6,195.00	6,195.00	6,194.99	0.01*
1,06,343.00	...	1,06,343.00	...	...	...	...	...
1,28,866.00	...	1,28,866.00	...	...	...	...	...
66,715.00	...	66,705.00	...	...	...	...	...
12,159.00	...	12,159.00	...	...	...	...	...
22,388.00	...	22,388.00	...	...	...	...	...
3,519.00	...	3,519.00	...	...	...	...	...
17,81,014.00	...	17,83,014.00	...	77,727.00	77,727.00	77,723.90	3.10
43,31,143.07	27,523.33	45,03,699.74	...	2,07,326.67	2,07,326.67	2,07,322.18	* 4.49
50,00,000.00	...	50,00,000.00	...	2,25,000.00	2,25,000.00	2,25,000.00	...
50,00,000.00	...	50,00,000.00	...	3,00,000.00	3,00,000.00	3,00,000.00	...
50,00,000.00	...	50,00,000.00	...	3,00,000.00	3,00,000.00	3,00,000.00	...
25,00,000.00	...	25,00,000.00	...	1,50,000.00	1,50,000.00	1,50,000.00	...
...	...	...	...	2,25,000.00	2,25,000.00	...	2,25,000.00
...
1,75,00,000.00	...	75,00,000.00	...	12,00,000.00	12,00,000.00	9,75,000.00	2,25,000.00
7,03,143.07	27,523.33	2,20,03,617.74	...	14,73,266.67	14,73,266.67	11,82,322.18	* 2,25,000.49

* To be treated as savings.

**APPENDIX No. 31
EDUCATION FUND**

Revenue Account for the year ended 31st March 1973.

Particulars	Total		Particulars	Total	
	Rs.	P.		Rs.	P.
To Revenue Expenditure	10,41,54,285	92	By Revenue Receipts	10,06,81,016	73
To Balance being surplus for the year	...	...	.. Balance being deficit for the year	34,73,269	14
Total	10,41,54,285	92	Total	10,41,54,285	92
T. Revenue Expenditure to be incurred in 1973-74 and provided for as Renewed Grants	52,95,398	00	By Surplus Revenue Fund as at 1st April 1972	55,17,928	80
To Deficit for the year	34,73,269	14	.. Revenue of previous years reserved for the year 1972-73	68,34,850	00
T. Balance being Surplus Revenue Fund as at 31st March 1973	35,84,111	66	.. Surplus for the year	...	...
Total	1,23,52,778	80	Total	1,23,52,778	80

APPENDIX No. 34

EDUCATION FUND

Revenue Account Balance Sheet as at 31st March 1973.

Liabilities.			Assets				
	Rs.	P.	Rs.	P.	Rs.	P.	
Debts.			Cash at Bank	Dr. 4,10,077	56		
			Cash in Office	38,08,129	25		
			Education Loan Interest				
			Warrants Payable				
			Account.	850	25		
						33,98,901	94
			Advances—Recoverable				
Due on cheques payable ...	18,43,374	52	Municipal Officers	3,40,414	97		
			Sundries—Miscellaneous advances.	29,91,344	42		
						33,31,759	39
Due on outstanding charges for 1972-73 and previous year ...	52,95,398	00	Deposits in Public Securities with State Bank of India	51,600	00		
			In Office	38,200	00		
						89,800	00
Due on outstanding charges on account of Interest accrued but not paid	11,25,393	41	Municipal Contribution Receivable—				
			From Budget 'A' Div. II	1,07,006	69		
			From Budget 'A' Div. III	45,675	50		
						1,52,682	19
Deposits in Cash and Public Securities from Contractors and private parties ...	42,29,768	80	Advances from surpluses monies				
Unclaimed dues and deposits refundable Account ...	22,152	00	Investments—				
			Endowment Fund				
			With State Bank of India & in Office				
			In securities	4,26,751	06		
			In cash	16	19		
			In Fixed Deposit	6,000	00		
						4,32,767	25
Endowment Fund ...	4,32,767	25	Surplus Fund—				
Municipal Contribution payable to Budget 'A' Div. I ...	50,80,373	65	In securities *	47,01,526	49		
Surplus Revenue Fund ...	35,84,111	66	In Fixed Deposit	95,05,000	00		
			In Call Deposit				
			In Current Account Deposit	902	03		
						1,42,07,428	52
Total ...	2,16,13,339	29	Total ...			2,16,13,339	29

* Details of Securities held in Surplus Fund—

	Face value		Cost	
	Rs.	P.	Rs.	P.
3½% Bombay Municipal Debentures 1947 ...	500.00		437.50	
3% Conversion Loan 1946 ...	1,600.00		1,288.99	
5% Loan for conversion of storm water Reservoir in 1920 Budget 'A' Division I (Internal) ...	7,000.00		7,000.00	
6% B. M. D. 1972-73 Budget 'E' (Internal) ...	46,92,800.00		46,92,800.00	
	<u>47,01,900.00</u>		<u>47,01,526.49</u>	

APPENDIX No. 35
EDUCATION FUND

Capital Fund Balance Sheet as at 31st March 1973.

Liabilities			Assets		
	Rs.	P.		Rs.	P.
Loans Outstanding—			Block Account—		
Due to Public—	9,18,50,000	00	Loan Funds—		
Trust Fund—			Property and Assets		
			at original cost	10,90,03,406.25	
			Less: Discount and		
			other charges	2,44,495.14	
					10,87,58,911 11
Advance from Surplus Monies for			Trust Fund—		
meeting expenditure on capital			Expenditure upto 31-3-1973	2,08,755	42
works pending raising of new Loan			Investment—		
			Sinking Fund—		
					*4,11,99,291 43
Surplus—			Trust Fund—		
Sinking Fund	4,11,99,291	43	Cash in current Account	694	31
Loan Redemption Fund	1,98,50,000.00		Loan Fund—		
Less—			In Fixed Deposit	36,95,000.00	
Assets written off	Rs. 2,44,495.14		In Call Deposit		
			In Cash	1,593.75	36,96,593.75
Contribution from Trust Fund	2,08,755	42			
Contribution from Government	10,00,000	00			
Grand Total	15,38,64,246	02	Grand Total...	15,38,64,246.02	

Statement showing Capital Expenditure upto 31st March 1973 :—

Education Fund.

Loan Funds.	Total Capital Expenditure upto 31st March, 1972.	Expenditure during 1972-73 out of Loan Funds.	Capital Expenditure upto 31st March 1973.
	Rs.	Rs.	Rs.
City Section	5,41,41,953	58,40,260	5,99,82,213
Suburban Section	2,71,21,295	49,55,352	3,20,76,647
Extended Suburban Section	1,35,89,407	31,10,644	1,67,00,051
Discount and other charges	...	...	...
	9,48,52,655	1,39,06,256	10,87,58,911
Trust Fund	2,08,755	...	2,08,755
Grand Total	9,50,61,410	1,39,06,256	10,89,67,666

* Face and Market values of Securities held in the Sinking Fund, was Rs. 4,12,46,900 and Rs. 4,10,08,048 respectively, Municipal Debentures being valued at par.

APPENDIX No. 57

EDUCATION FUND

Statement showing outstanding loans due by the Municipality, the interest outstanding on 1st April 1972 on the different Loans, the amount payable for the year 1972-73, the amount paid by the State Bank of India, and in Office during that year and the balances outstanding on 31st March 1973.

Particulars of Loans.	Rate of Interest.	Balance due. on 1-4-72	Amount raised in 1972-73.	Total.	Amount repaid in 1972-73.	Balance due on 31st March 1973.	Interest outstanding on 1-4-1972.	Interest payable in 1972-73.	Total Interest due.	Deduct Interest paid by the State Bank of India and in Office.	Outstanding balance on 31st March 1973
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Loans raised from the Public											
		Rs.		Rs.		Rs.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
(1) The Rs. 38.5 Lakhs Education Loan of 1960-61. ...	4½ per cent.	38,50,000	...	38,50,000	38,50,000	Nil	..	1,63,625.00	1,63,625.00	1,63,625.00	...
2) The Rs. 10 Lakhs Education Loan of 1960-61. ...	4½ per cent.	10,00,000	...	10,00,000	...	10,00,000	...	42,500.00	42,500.00	42,500.00	...
(3) The Rs. 55 Lakhs Education Loan of 1961-62. ...	4½ per cent.	55,00,000	...	55,00,000	...	55,00,000	...	2,33,750.00	2,33,750.00	2,33,750.00	...
(4) The Rs. 10 Lakhs Education Loan of 1961-62. ...	4½ per cent.	10,00,000	...	10,00,000	...	10,00,000	...	42,500.00	42,500.00	42,500.00	...
(5) The Rs. 75 Lakhs Education Loans of 1962-63. ...	4½ per cent.	75,00,000	...	75,00,000	...	75,00,000	3,633.68	3,56,250.00	3,59,883.68	3,54,917.75	4,965.93
(6) The Rs. 25 Lakhs Education Loan of 1962-63. ...	4½ per cent.	25,00,000	...	25,00,000	...	25,00,000	...	1,12,500.00	1,12,500.00	1,12,500.00	...
(7) The 137.5 Lakhs Education Loan 1963-64. ...	4½ per cent.	1,37,50,000	...	1,37,50,000	...	1,37,50,000	771.94	6,53,125.00	6,53,896.94	6,52,887.46	1,009.48
(8) The 12.5 Lakhs Education Loan 1963-64. ...	4½ per cent.	12,50,000	...	12,50,000	...	12,50,000	...	59,375.00	59,375.00	59,375.00	...
(9) The 125 Lakhs Education Loan 1964-65. ...	5 per cent.	1,25,00,000	...	1,25,00,000	...	1,25,00,000	...	6,25,000.00	6,25,000.00	6,25,000.00	...
(10) The Rs. 50 Lakhs Education Loan 1965-66. ...	5½ per cent.	50,00,000	...	50,00,000	...	50,00,000	2,875.04	2,87,500.00	2,90,375.04	2,86,105.58	4,269.46
(11) The Rs. 25 Lakhs Education Loan 1966-67. ...	5½ per cent.	25,00,000	...	25,00,000	...	25,00,000	...	1,43,750.00	1,43,750.00	1,43,750.00	...
(12) The Rs. 25 (Lakhs Education Loan 1966-67. ...	6 per cent.	25,00,000	...	25,00,000	...	25,00,000	...	1,50,000.00	1,50,000.00	1,50,000.00	...
(13) The Rs. 25 (Lakhs Education Loan 1967-68. ...	6 per cent.	25,00,000	...	25,00,000	...	25,00,000	...	1,50,000.00	1,50,000.00	1,50,000.00	...
(14) The Rs. 27.5 Lakhs Education Loan 1968-69. ...	6 Per cent.	27,50,000	...	27,50,000	...	27,50,000	1,800.00	1,65,000.00	1,66,800.00	1,62,933.00	3,867.00
(15) The Rs. 20 Lakhs Education Loan 1968-69. ...	6 per cent.	20,00,000	...	20,00,000	...	20,00,000	...	1,20,000.00	1,20,000.00	1,20,000.00	...
(16) The Rs. 27.5 Lakhs Education Loan 1969-70. ...	6 per cent.	27,50,000	...	27,50,000	...	27,50,000	...	1,65,000.00	1,65,000.00	1,65,000.00	...
(17) The Rs. 16.5 Lakhs Education Loan of 1970-71. ...	6 per cent.	16,50,000	...	16,50,000	...	16,50,000	...	99,000.00	99,000.00	99,000.00	...
(18) The Rs. 16.5 Lakhs Education Loan 1970-71. ...	6 per cent.	16,50,000	...	16,50,000	...	16,50,000	...	99,000.00	99,000.00	99,000.00	...
(19) The Rs. 33 Lakhs Education Loan of 1971-72. ...	6 per cent.	33,00,000	...	33,00,000	...	33,00,000	...	1,98,000.00	1,98,000.00	1,98,000.00	...
(20) The Rs. 20 Lakhs Education Loan of 1971-72. ...	6 per cent.	20,00,000	...	20,00,000	...	20,00,000	...	79,666.67	79,666.67	79,666.67	...
(21) The Rs. 82.50 Lakhs Education Loan 1972-73 ...	6 per cent.	...	82,50,000	82,50,000	...	82,50,000	...	...	...	...	...
(22) The Rs. 1 Crore Education Loan 1972-73 ...	6 per cent.	...	1,00,00,000	1,00,00,000	...	1,00,00,000	...	...	...	...	...
Loans from Public.		7,74,50,000	1,82,50,000	9,57,00,000	38,50,000	9,18,50,000	9,080.66	39,45,541.67	39,54,622.33	39,40,510.46	14,111.87

APPENDIX No. 40

EDUCATION FUND

Statement showing the amounts of Receipts and Expenditure respectively credited and debited to the Education Fund during the year 197-273 and the balance at the credit of the Fund at the close of the year 1972-73 (i.e., 31st March 1973).

	Rs.	P.
RECEIPTS—A.—REVENUE ACCOUNT		
(1A) Education Cess ...	1,68,41,104	58
(2) Contribution towards Primary Education from Municipal Corporation under Section 126C(e) of the Bombay Municipal Corporation Act—		
(i) From Budget 'A' Div. I ...	2,26,31,105	00
(ii) From Budget 'A' Div. II ...	1,00,50,970	00
(iii) From Budget 'A' Div. III ...	38,53,610	00
(2A) Special Contribution from—		
(i) From Budget 'A' Division I ...	3,80,00,000	00
(ii) Budget 'A' Div. II ...	...	...
(iii) Budget 'A' Div. III ...	...	...
(3) Contribution from Government under Clause 2(e) of Schedule BBA of the Bombay Municipal Corporation Act ...	78,80,000	00
(4) Interest on Endowment and Investments ...	9,990	70
(5) Rent and other proceeds of properties ...	1,40,010	06
(6) Interest and Profits on Investments of Surplus, Loan and other balances ...	8,70,292	98
(7) Miscellaneous Receipts ...	4,03,933	46
Total—Revenue Receipts ...	10,06,81,016	78
RECEIPTS—B.—CAPITAL ACCOUNT		
(1) New Loan ...	1,82,50,000	00
(2) Trust Fund ...	...	...
(3) Advances from Surplus Monies for financing Expenditure on Capital works pending raising of a new Loan ...	Dr. 6,47,149	94
Total—Capital Receipts ...	1,76,02,850	06
RECEIPTS—C.—SUSPENSE ACCOUNT		
Advances—Municipal Officers—		
(a) Standing Advances for Contingent Expenditure ...	1,145	00
(b) Motor Cars and Motor Cycles to Officers ...	9,559	44
(c) Dishonoured Cheques ...	2,593	00
(d) Loan scholarships to Municipal Teachers Under Training ...	30,807	68
(e) Advances for meeting the cost of repairs to private buildings housing municipal schools under Section 489/499 recoverable from the landlords. ...	...	...
Advance for purchase of Plant and Machinery ...	...	...
Sundries—Miscellaneous Advances ...	7,68,564	67
State Bank of India and other Local Banks Paper and Cash Account—including Paper Deposits in Office Custody—		
Sinking Fund (Paper and Cash) Account ...	38,50,000	00
Endowment Fund (Paper and Cash) Account ...	...	...
Loan Fund (Paper and Cash) Account ...	...	...
Surplus Fund (Paper and Cash) Account ...	68,95,243	87
Sundry Deposits Account ...	3,75,93,000	00
Deposit Account ...	58,68,267	90
Provident Fund Recoveries ...	1,00,53,863	02
Provident Fund Investments ...	35,74,202	80
Cash Bills Outstanding ...	...	...
Cheques Payable ...	10,90,82,133	19
Wages Deposit Account ...	...	...
Municipal Contribution Receivable ...	1,13,013	84
Endowment Fund Account ...	3,000	00
Sinking Fund Account—Education ...	64,74,643	12
Municipal Contribution payable ...	48,84,821	09
Education Loan Interest Warrants Payable Account ...	23,44,418	79
Interest Receivable Account ...	...	...
Interest accrued but not paid ...	73,975	00
Investment of Surplus Monies in Public Securities ...	...	...
Advances from Surplus Monies for financing Capital Expenditure pending raising of Loan ...	6,47,149	94
Loan Redemption Fund Account ...	38,50,000	00
Unclaimed due and deposits refundable Account ...	92	00
Total—Suspense Receipts ...	19,61,20,494	35

APPENDIX No. 40—(Contd.)

	Rs.	P.
EXPENDITURE—A. REVENUE ACCOUNT		
A.—General Supervision and Administration	21,67,467	74
B.—Municipal Primary Schools	8,13,65,687	86
C.—Private Primary Schools	18,47,232	10
D.—Medical Inspection of School Children	11,69,500	16
E.—Enforcement of Compulsion	325	62
F.—Educational Activities	9,53,720	74
G.—Pension and Provident Fund	72,38,510	00
I.—New Works	4,97,354	46
J.—Debt Charges	84,55,753	09
K.—Training Facilities for Municipal Teachers	20,581	89
L.—Proportionate Cost of Collection of Education Cess	2,72,169	15
M.—Extra-Curricular Activities	1,65,983	11
Total—Revenue Expenditure	10,41,54,285	92
EXPENDITURE—B.—CAPITAL ACCOUNT		
(1) Loan Funds—	1,39,06,256	31
(2) Trust Fund	...	...
Total—Capital Expenditure	1,39,06,256	31
EXPENDITURE—C.—SUSPENSE ACCOUNT		
Advances—Municipal Officers—		
(a) Standing Advances for Contingent expenditure	3,975	00
(b) Motor Cars and Motor Cycles to Officers	10,196	00
(c) Dishonoured Cheques	2,593	00
(d) Loan Scholarship to Municipal Teachers under Training	233	04
(e) Advance for meeting the cost of repairs to private buildings housing Municipal Schools under Section 489/499 recoverable from the landlords.	11,519	01
Advance for purchase of Plant and Machinery	...	...
Sundries—Miscellaneous Advances	20,83,428	58
State Bank of India and other Local Banks Paper and Cash Account—including paper Deposits in Office Custody—		
Sinking Fund (Paper and Cash) Account	64,74,643	12
Endowment Fund (Paper and Cash) Account	3,000	00
Loan Fund (Paper and Cash) Account	1,593	75
Surplus Fund (Paper and Cash) Account	92,66,374	63
Sundry Deposits Account	3,34,56,000	00
Deposit Account	54,54,927	04
Provident Fund Payments	1,00,53,863	02
Provident Fund Investments	35,74,202	80
Cash Bills Outstanding	...	...
Cheques Payable	10,82,23,778	03
Wages Deposit Account	...	...
Municipal Contribution Receivable	1,52,336	59
Municipal Contribution Payable (Refundable)	44,00,000	00
Endowment Fund Account	...	...
Sinking Fund Account Education	38,50,000	00
Education Loan Interest Warrants—Payable Account	23,43,534	54
Interest Accrued but not paid	62,268	33
Interest Receivable Account	...	...
Investment of Surplus Monies in Public Securities	...	...
Advances from Surplus Monies for financing Capital Expenditure pending raising of Loan	...	...
Repayment of Loan Account	38,50,000	00
Assets written off.	...	...
Unclaimed dues and deposit refundable Account	43,046	45
Total—Suspense Expenditure	19,33,21,512	75

APPENDIX No. 40—(Concl.)

SUMMARY

Receipts.			Disbursements.	
Rs.	P.		Rs.	P.
4,14,639	79	Balance on 1st April 1972—		
10,06,81,016	78	A.—Revenue Account	10,41,54,285	92
1,76,02,850	06	B.—Capital Account	1,39,06,256	31
19,61,20,494	35	C.—Suspense Account	19,33,21,512	75
31,44,04,361	19	*Balance on 31st March 1973.	31,13,82,054	98
31,48,19,000	98	Total	34,36,946	00
		Total	31,48,19,000	98
Bank's Reconciliation—			Rs.	P.
*Balance as per Bank's Pass Book			4,81,544	11
Add—Revenue sent to the Bank on 31st March 1973 but acknowledged on 1st April 1973.			3,240	25
			4,84,784	36
Less—Uncashed cheques			8,94,167	61
Balance as per Day Book (Col. No. 10)			Dr. 4,09,383	25
Balance in Office in Government Promissory Notes etc.				
			Rs.	P.
			38,200	00
Balance in Office in Cash			224	32
Collection kept in office			38,07,904	93
			38,46,329	25
			34,36,946	00

ASSESSMENT AND COLLECTION

Summary of the Administration Report.

I.—Money spent by the Corporation:—

The establishment cost of the department for the year 1972-73 is as under:—

City	Subs.	Extd. Subs.	Total
Rs.	Rs.	Rs.	Rs.
54,99,850	22,41,040	8,69,260	86,10,150

II.—Results achieved:—

Due to various coercive actions taken, the excess recovery of property taxes over the collection for the year 1971-72 is as under:—

City.	Subs.	Extd. Subs.	Total
Rs.	Rs.	Rs.	Rs.
1,08,89,549	68,24,264	31,08,014	2,08,21,817

III.—Suggestion for remedying any deficiencies:—

The following measures are suggested for achieving better results for recovery of taxes and improving the administration.

- (1) To lay down easy terms for granting incentive for the issue and recovery of bills.
- (2) To consider exempting from taxes unauthorised structure having small R. V.
- (3) Wheel tax bills should be issued yearly instead of quarterly.
- (4) Procedural delay can be avoided if power of disconnection of water supply for non-payment of water charges is delegated to M. C. by the Standing Committee.

R. G. RELE,
Assessor and Collector.

ASSESSMENT & COLLECTION.

Property taxes constitute the main source of revenue to the Corporation and even though there was no change in the rates of taxes, the increase in demand of property taxes over that of the last year was about Rs. 4 crores and 76 lacs.

Collection of property taxes during the year under report is Rs. 34,74,20,215 as against the collection of Rs. 32,65,98,388 during last year meaning thereby that Rs. 2,08,21,827 were collected more during the year 1972-73.

The Department would have shown still better performance but it received a setback on account of the following reasons:—

- (1) The outdoor staff was detailed for the work of Enumeration of Assembly Rolls for Municipal Election during the months from June to August 1972.
- (2) 13 days strike of the civic employees.
- (3) The entire outdoor staff was detailed for election duty during the first 12 days of March 1973 and they were not available for recovery work.
- (4) Although the number of water by meter bills are increased, there was no proportionate increase in the staff in the Subs.

However, due to vigorous enforcement drive, the position of collection has vastly improved after the close of the financial year in as much as during the months from April 1973 to September 1973 the Department has brought an excess collection to the tune of Rs. 2.75 crores over the collection brought during the corresponding period in the year under report.

The total yearly demand of property taxes including Water Charges State Education Cess, etc., amounts to about Rs. 40 crores whereas the total outstandings amount to about Rs. 20 crores i. e. nearly half years demand though outstandings relate to all the past and previous years. Our taxes are payable half yearly in advance and as such if the demand equal to the half yearly taxes remains outstanding, it cannot be said to be on the higher side as a reasonable allowance is to be made for the recovery processes to materialise.

As regards water charges, percentage of collection in City is 83.09 whereas that in Suburbs and Extended Suburbs is 61.94 and 67.37 respectively. More attention is being paid to the recovery of water charges by proposing severance of water connection in large number of cases.

The assessment of Railway properties is not still finalised even though the matter is under correspondence with the Central Government for a long time. However, the Railways have in the meantime made an *ad hoc* payment of Rs. 10,89,759.86 during the year under report.

The assessment of the B. P. T. properties for the quinquennium 1964-69 is still not finalised. The assessment for the quinquennium 1969-74 is also in progress. The B. P. T. authorities are, however, making payment as per the last quinquennium as usual.

Shri Pestonji P. Kapadia, the Arbitrator appointed to fix the Rateable Value of buildings and lands in Greater Bombay vesting in the State and the Central Governments for a period of five years ending 31st March 1974 has finished the work so far as properties in Suburbs are concerned. As for the properties in City, the work is still in progress.

The Central Government who have decided to pay service charges from 1st April 1954 in respect of their properties covered by Article 285(1) of the Constitution have during the year under report paid Rs. 19,97,220.60.

Building Repairs Cess.

Repairs Cess collected during 1972-73 amounts to Rs. 2,59,25,913.04 which is 65.35% of the net demand including arrears for previous years.

Additional State Education Cess.

The Additional State Education Cess collected during 1972-73 amounts to Rs. 93,60,661 which is 67.21% of the net demand including arrears for previous years.

R. G. RELE,
Assosser and Collector.

RATES OF TAXATION.

The rates of taxation on lands and buildings during the year under report were as under :—

Nature of Tax.	Percentage	Remark.
1 General Tax (including Fire Tax @ $\frac{3}{4}$ %)	24 $\frac{3}{4}$ %	In the areas of the City and Suburban H to N Wards and defunct Municipalities of Malad (including the Village Valnai) Kandivli (including the Village Dahanukar Wadi), Borivli, Mulund and Defunct village Panchayat of Goregaon and Villages in respect of properties occupied for industrial purposes.
	22 $\frac{3}{4}$ %	In the areas of the defunct Village Panchayat of Dahisar.
	20 $\frac{3}{4}$ %	Villages in respect of non-industrial properties.
2 Water Tax on Rateable value.	4 $\frac{1}{2}$ %	In the areas of City, and certain properties in Suburbs
3 Halalkhor Tax	3 $\frac{1}{2}$ %	In the areas of City, suburbs and extended suburbs.
4 Education Cess:	...	For Rateable value between Rs. 1 to Rs. 74.
	2 %	For Rateable value between Rs. 75 to Rs. 299.
	2 $\frac{1}{2}$ %	Rateable value Rs. 300 and above.
5 State Education Cess.	...	For Rateable value Between Rs. 1 to Rs. 74.
	2 %	For Rateable value between Rs. 75 to Rs. 299.
	2 $\frac{1}{2}$ %	For Rateable value Rs. 300 and above.
6 Water charges by Meter Measurement.	...	The rates charged for supply of water by meter measurement ranged between Rs. 2/- and Rs. 10/- per 10,000 litres according to the users in areas of City Suburbs and Extended Suburbs.

Properties.	City.	Suburbs	Extended Suburbs	Total
No. of properties as on 31-3-1973	87,608	83,295	44,527	2,15,430
No. of properties exempted from General Tax during the year 1972-73	3,389	2,027	1,125	6,541
No. of properties newly assessed during the year 1972-73	3,080	3,650	1,606	8,336
No. of properties enlarged during the year 1972-73	1,270	2,528	1,568	5,366
No. of properties demolished during the year 1972-73	344	426	130	900

Rateable Value as on 31-3-1973 and Rates of Rateable Value per head of population.

	City	Suburbs	Extended Suburbs	Total
	Rs.	Rs.	Rs.	Rs.
Rateable Value	56,72,80,335	26,10,42,002	11,19,33,153	94,02,55,490
Population 1972	30,67,381	21,68,160	7,33,065	59,68,606
Rate per head of population	184.96	120.40	152.70	157.53

Complaints disposed of during 1972-73.

	Number	Percentage of reduction in rateable value
City	2,075	9.30
Suburbs	3,253	16.76
Extended Suburbs	2,028	8.02

Appeals against rateable value during 1972-73.

There were 315, 268 and 615 appeals against rateable value during the year under report in the City, Suburbs and Extended Suburbs respectively out of which 263, 223 and 585 remained pending at the close of the year.

Bills issued during the year 1972-73.

	CITY		SUBURBS		EXTENDED SUBURBS		TOTAL	
	Past and Previous Years	Current Year	Past and Previous Years	Current Year	Past and Previous Years	Current Year	Past and Previous Years	Current Year
Property Taxes...	2,288	1,53,671	5,483	1,65,456	1,852	89,783	9,623	4,09,910
Water charges by meter measurement	7,295	44,482	18,476	1,26,015	2,880	47,989	28,651	2,18,486
Meter Hire	...	860	1,027	169	643	12	1,670	1,041
Wheel Tax	40,015	3,38,364	25,063	81,342	4,671	21,802	69,749	4,41,508
Total	49,593	5,37,377	50,049	3,73,982	10,046	1,59,586	1,09,693	10,70,945

Statement, showing demand, collection and outstanding of property taxes (including water charges)

	Nature of Tax	Year	Total net demand	Collection	Percentage	Out standing	Percentage
			Rs.	Rs.		Rs.	
City	... Property Taxes	70-71	24,62,73,137	19,91,78,732	80.47	4,80,94,405	19.53
Suburbs	"	14,59,97,263	7,85,74,018	53.82	6,74,23,215	46.19
Extd. Subs.	"	5,62,53,971	2,71,00,950	48.18	2,91,53,021	51.82
City	71-72	25,67,17,422	20,27,59,462	78.98	5,39,57,960	21.02
Suburbs.	"	16,43,14,060	9,11,01,312	55.44	7,32,12,748	44.56
Extd. Subs.	"	6,43,81,738	3,27,37,614	50.85	3,16,44,124	49.15
City	72-73	27,83,09,864	21,36,49,011	76.76	6,46,60,853	23.24
Suburbs.	"	18,22,52,033	9,79,25,576	53.75	8,43,26,457	46.25
Extd. Subs.	"	7,24,40,092	3,58,45,628	49.48	3,65,94,464	50.52
City	... Wheel Tax	70-71	2,62,99,029	92,93,849	35.00	1,70,05,180	65.00
Suburbs	"	73,22,928	18,67,129	25.50	54,55,799	74.50
Extd. Subs.	"	14,29,762	4,37,751	30.58	9,92,011	69.42
City	71-72	2,56,72,922	97,29,704	37.89	1,59,43,218	62.11
Suburbs	"	81,17,918	19,52,359	24.04	61,65,559	75.96
Extd. Subs.	"	16,82,492	5,43,786	32.14	11,38,706	67.86
City	72-73	2,87,55,335	92,69,008	32.23	1,94,86,327	67.77
Suburbs	"	91,60,131	17,38,311	18.99	74,21,820	81.01
Extd. Subs.	"	18,59,819	4,53,180	24.37	14,06,639	75.63

Miscellaneous Receipts:—

	1971-72	1972-73
	Rs.	Rs.
City ...	5,30,140.00	4,92,117.32
Suburbs ...	2,65,454.60	2,76,098.21
Extd. Suburbs	1,19,320.10	1,19,414.16
Total ...	9,14,914.70	8,87,629.69

Meter Hire Receipts:—

City ...	6,38,598.00	6,57,476.85
Suburbs ...	3,37,359.23	3,59,385.69
Extd. Suburbs ...	1,20,810.13	1,41,654.72
Total ...	10,96,767.38	11,58,517.26

Amount of General Tax Exempted:—

City ...	1,29,17,180.00	1,51,70,493.02
Suburbs ...	23,19,748.35	25,02,369.38
Extd. Suburbs ...	20,53,099.16	19,85,607.16
Total ...	1,72,90,027.51	1,96,59,469.56

Total Demand, Collection and Outstanding of Municipal Property Taxes excluding water charges during the year 1972-73

(The amounts of 50 paise and above are taken as full rupee and below 50 paise are omitted).

Period.	Outstanding on 1-4-1972.	Amount of bills issued including the demand for contribution from Government and B.P.T.	Gross Demand.	Amount of bills collected.	Net demand.	Less provisional d. mand. (Details shown under the head provisional demand)	Effective Demand.	Collection during 1972-73.	Outstanding on 31-3-1973.	Percentage of collection to effective Demand	Percentage of outstanding to net Demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
CITY											
Upto 1970-71 ...	2,12,83,963	25,42,458	2,39,26,421	13,50,574	2,25,75,847	...	...	68,91,275	1,56,84,572	...	69.43%
1971-72 ...	2,59,81,742	92,09,401	3,51,91,143	66,16,043	2,85,75,100	...	...	1,87,71,679	98,03,421	...	34.63%
1972-73 ...	...	20,10,74,988	20,10,74,988	2,21,69,215	17,89,05,773	...	...	14,78,91,948	3,10,13,825	...	17.33%
Total ...	4,72,65,705	21,29,26,847	26,01,92,552	3,01,35,832	23,00,56,720	4,12,23,328	18,88,33,392	17,35,54,902	5,65,01,818	91.92%	24.56%
SUBURBS.											
Upto 1970-71 ...	3,53,79,191	18,34,753	3,72,13,944	9,77,539	3,62,36,405	...	...	82,69,988	2,72,66,417	...	75.24%
1971-72 ...	2,42,10,338	28,83,989	2,70,94,377	34,13,195	2,36,81,182	...	...	1,19,67,394	1,17,13,788	...	49.46%
1972-73 ...	...	8,04,98,170	8,04,98,170	63,09,087	7,41,89,083	...	...	4,71,60,158	2,70,28,925	...	36.43%
Total ...	5,95,89,579	8,52,16,912	14,48,06,491	1,06,99,821	13,41,06,670	2,58,55,063	10,82,51,607	6,80,97,540	6,60,09,130	62.50%	49.22%
EXTENDED SUBURBS.											
Upto 1970-71 ...	1,59,36,459	5,49,900	1,64,86,359	3,19,507	1,61,66,852	...	...	41,02,472	1,20,64,380	...	74.62%
1971-72 ...	1,16,76,807	13,00,403	1,29,77,210	14,07,432	1,15,69,778	...	...	57,30,572	58,39,206	...	50.56%
1972-73 ...	...	3,37,88,781	3,37,88,781	28,90,103	3,08,98,678	...	...	1,67,12,446	1,41,86,232	...	45.89%
Total ...	2,76,13,266	3,56,39,084	6,32,52,350	4,17,042	5,86,35,308	1,53,18,409	4,33,16,899	2,65,45,490	3,20,89,818	61.28%	54.72%

Total Demand, Collection and Outstanding of Water charges by meter measurement during the year 1972-73.

(The amounts of 50 paise and above are taken as full rupee and below 50 paise are omitted).

Period	Outstanding on 1-4-1972.	Amount of bills issued including the demand for contribution from Government & B. P. T.	Gross Demand:	Amount of bills recalled.	Net demand.	Collection during 1972-73.	Outstanding on 31-3-73.	Percentage of outstanding to net Demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
CITY.								
Upto 1970-71 ...	60,55,526	4,51,672	65,07,198	1,18,580	63,88,618	49,53,196	14,35,422	22.46
1971-72 ...	47,43,863	22,78,015	70,21,878	2,41,795	67,80,083	56,61,496	11,18,587	16.49
1972-73 ...	...	3,54,64,232	3,54,64,232	3,79,789	3,50,84,443	2,94,79,417	56,05,026	19.98
Total ...	1,07,99,369	3,81,93,919	4,89,93,308	7,40,164	4,82,53,144	4,00,94,109	81,59,039	16.91
SUBURBS.								
Upto 1970-71 ...	68,32,842	1,98,026	70,30,868	97,935	69,32,933	29,56,393	39,76,540	57.35
1971-72 ...	90,82,777	25,73,895	1,16,56,672	4,76,841	1,11,79,831	75,76,933	36,02,898	32.22
1972-73 ...	...	3,23,73,607	3,25,73,607	25,41,008	3,00,32,599	1,92,94,710	1,07,37,889	35.75
Total ...	1,59,15,619	3,53,45,528	5,12,61,147	31,15,784	4,81,45,363	2,98,28,036	1,83,17,327	38.04
EXTENDED SUBURBS.								
Upto 1970-71 ...	11,94,536	75,656	12,70,192	15,939	12,54,253	6,16,316	6,37,937	50.79
1971-72 ...	27,92,468	6,26,656	34,19,124	26,758	33,92,366	27,61,973	6,30,393	18.57
1972-73 ...	...	92,32,147	92,32,147	73,982	91,58,165	59,21,849	32,36,316	35.33
Total ...	39,87,004	99,34,459	1,39,21,463	1,16,679	1,38,04,784	93,00,138	45,04,646	32.62

Total Demand, Collection and Outstanding of Wheel Tax during the year 1972-73.
(The amounts of 50 paise and above are taken as full rupee and below 50 paise are omitted.)

Period	Outstanding on 1-4-1972.	Amount of bills issued including the demand for contribution from Government and B.P.T.	Gross Demand	Amount of bills recalled.	Net Demand.	Less provisional demand. (Details shown under the head provisional demand).	Effective demand.	Collection during 1972-73.	Outstanding as on 31-3-1973.	Percentage of collection to effective demand.	Percentage of outstanding to net demand.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
CITY											
Upto 1970-71	...	1,15,58,615	5,06,663	1,20,65,278	3,03,462	1,17,61,816	...	8,72,143	1,08,89,673	...	92.28
1971-72	...	43,74,622	6,25,820	50,00,442	1,28,970	48,71,472	...	15,36,376	33,35,102	...	68.48
1972-73	1,21,55,190	1,21,55,190	33,143	1,21,22,047	...	68,60,496	52,61,551	...	49.48
Total	...	1,59,33,237	1,32,87,673	2,92,20,910	4,65,575	2,87,55,335	92,67,823	1,94,87,512	1,94,86,326	47.56	67.77
SUBURBS											
Upto 1970-71	...	47,39,218	2,76,112	50,15,330	6,14,785	44,00,545	...	2,21,749	41,78,796	...	94.95
1971-72	...	14,65,354	3,05,147	17,70,501	32,877	17,37,624	...	4,45,313	12,92,311	...	74.38
1972-73	30,26,916	30,26,916	4,954	30,21,962	...	10,71,249	19,50,713	...	64.54
Total	...	62,04,572	36,08,175	98,12,747	6,52,616	91,60,131	33,28,552	58,31,579	74,21,820	29.89	81.01
EXTENDED SUBURBS											
Upto 1970-71	...	8,17,221	67,100	8,84,321	1,58,369	7,25,952	...	69,522	6,56,430	...	90.48
1971-72	...	3,21,769	79,144	4,00,913	13,350	3,87,563	...	94,783	2,92,780	...	75.45
1972-73	7,50,072	7,50,072	3,768	7,46,304	...	2,88,875	4,57,429	...	61.26
Total	...	11,38,990	8,96,316	20,35,306	1,75,487	18,59,819	7,23,038	11,36,781	14,06,639	98.08	75.63

**Total Demand, collection and Outstanding of:-
The Urban Immoveable Property Tax.**

(The amounts of 50 Paise and above are taken as full rupee and below 50 paise are omitted)

Period	Outstanding as on 1-4-72.	Amount of bills issued during 1972-73.	Gross Demand.	Bills recalled.	Net Demand.	Collection during 1972-73.	Outstanding as on 31-3-73.	Percentage of outstanding to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
City Upto 1962-63 ...	1,65,067	...	1,65,067	2,850	1,62,217	26,591	1,35,626	83.33%
Suburbs —do— ...	3,59,144	399	3,59,543	1,437	3,58,105	25,871	3,32,235	92.73%
Extended Suburbs —do— ...	2,11,632	...	2,11,632	...	2,11,632	27,780	1,83,852	86.72%
Total : ...	7,35,843	399	7,37,242	4,287	7,31,955	80,242	6,51,713	88.94%

The State Education cess :

Period	Outstanding as on 1-4-72.	Amount of bills issued during 1972-73.	Gross Demand.	Amount of Bills recalled.	Net Demand.	Collection during 1972-73.	Outstanding as on 31-3-73.	Percentage of outstanding to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
City—								
Upto 1970-71 ...	16,14,958	1,01,138	17,16,096	2,60,528	14,55,568	3,45,911	11,09,657	76.52%
1971-72 ...	19,70,598	6,98,802	26,69,400	5,50,875	21,18,525	13,00,637	8,17,888	38.58%
1972-73 ...	...	1,49,62,799	1,49,62,799	21,70,468	1,27,92,331	1,01,02,656	26,89,675	21.03%
Total ...	35,85,556	1,57,62,739	1,93,48,295	29,81,871	1,63,66,424	1,17,49,204	46,17,220	28.21%
Suburbs—								
Upto 1970-71 ...	26,60,909	98,430	27,59,339	69,324	26,90,015	6,43,966	20,46,049	76.05%
1971-72 ...	19,27,412	2,28,644	21,56,056	2,84,567	18,71,489	8,97,447	9,74,042	52.05%
1972-73 ...	...	64,33,104	64,31,104	5,22,605	59,10,499	35,20,319	23,90,180	40.43%
Total ...	45,88,321	67,61,178	1,13,48,499	8,76,496	1,04,72,003	50,61,732	54,10,271	51.65%
Extended Suburbs—								
Upto 1970-71 ...	12,81,062	38,120	13,19,182	23,918	12,95,264	3,00,875	9,94,389	76.75%
1971-72 ...	9,57,717	1,03,803	10,61,520	1,22,340	9,39,180	4,42,601	4,96,579	52.82%
1972-73 ...	...	27,63,600	27,63,600	2,41,860	25,21,740	13,37,084	11,84,656	46.96%
Total ...	22,38,779	2,45,523	51,44,302	3,88,118	47,56,184	20,80,560	26,75,624	56.24%

Total Demand, Collection and Outstanding of :

The Additional State Education Cess

(The amounts of 50 paise and above are taken as full rupee and below 50 paise are omitted)

Period	Outstanding as on 1-4-1972	Amount of bills issued during 1972-73.	Gross Demand	Amount of bills recalled	Net Demand	Collection during 1972-73	Outstanding as on 31-3-1973	Percentage of outstanding to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
CITY								
City upto 1971-72	17,80,835	2,43,924	20,24,759	1,28,507	18,96,250	14,97,519	3,98,731	21.01
.. 1972-73	...	74,82,259	74,82,259	11,48,198	63,34,061	48,51,669	14,82,392	23.32
Total	17,80,835	77,26,183	95,07,018	12,76,707	82,30,311	63,49,188	18,81,123	22.86
SUBS								
upto 1971-72	9,78,477	82,284	10,60,761	89,235	9,71,526	5,52,958	4,18,568	43.04
.. 1972-73	...	3,242,786	32,42,786	2,47,523	29,95,263	15,78,235	14,17,028	47.31
Total	9,78,477	33,25,070	43,03,547	3,36,758	39,66,789	21,31,193	18,35,596	46.27
EXTD. SUBS.								
upto 1971-72	4,59,346	22,384	4,81,730	28,815	4,52,915	2,15,377	2,37,538	52.43
.. 1972-73	...	13,83,237	13,83,237	1,22,771	12,60,466	6,64,903	5,95,563	47.22
Total	4,59,346	14,05,621	18,64,967	1,51,586	17,13,381	8,80,280	8,33,101	48.62

Total Demand, Collection and Outstanding of Repairs and Reconstruction Cess during the year 1972-73, for the City Wards.

Category	Outstanding as on 1-4-72.	Amount of bills issued during the year 1972-73.	Gross Demand.	Bills recalled (Amount.)	Net demand.	Collection during 1972-73	Outstanding as on 31-3-1973	Percentage of outstanding to the net demand	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Past and previous years.	A	68,32,480.73	1,03,709.28	69,36,190.01	3,57,084.87	65,79,105.14	28,50,309.00	36,88,796.14	56.05%
	B	11,21,356.43	98,572.75	12,19,929.18	1,27,686.35	10,92,242.83	4,52,759.77	6,39,483.06	58.50%
	C	27,60,071.35	1,30,193.79	28,90,265.14	1,92,107.31	26,98,157.83	9,39,359.77	17,58,798.06	65.10%
Total	1,07,13,908.51	3,32,475.82	1,10,46,384.33	6,76,878.53	1,03,69,505.80	42,82,428.54	60,87,077.26	58.70%	
Current year (1972-73)	A	...	2,26,96,613.89	2,26,96,613.89	5,61,275.97	2,21,35,337.92	1,68,91,081.48	52,44,256.44	23.69%
	B	...	26,51,775.14	26,51,775.14	1,06,047.20	25,45,727.94	17,92,613.40	7,53,114.54	29.60%
	C	...	50,30,395.32	50,30,395.32	4,07,859.34	46,22,535.98	29,59,769.62	16,62,746.36	35.90%
Total	...	3,03,78,784.35	3,03,78,784.35	10,75,182.51	2,93,03,601.84	2,16,43,484.50	76,60,117.34	26.14%	
Grant Total	1,07,13,908.51	3,07,11,260.17	4,14,25,168.68	17,52,061.04	3,96,73,107.64	2,59,25,913.04	1,37,47,194.60	34.65%	

Break up of arrears of all taxes including State E. cess add. State E. cess and U.I.P. Tax and water charge as on 31-3-1973.

	CITY		SUBURBS		EXTENDED SUBURBS	
	Effective Demand.	Provisional Demand.	Effective Demand.	Provisional Demand.	Effective Demand.	Provisional Demand.
(1) Government and Dy. Custodian of Evacuee properties.	31,90,688.54	...	16,54,334.41	...	4,19,669.47	...
(2) Railways	...	6,05,976.57	...	6,08,141.95	...	41,749.24
(3) Bombay Port Trust	5,29,768.88	...	13,062.39	...	...	...
(4) B.M.C. (Impt.) and Other Municipal Departments.	21,85,694.72	...	11,63,688.56	...	4,26,439.71	...
(5) Court Receiver, Official Assignee etc.	...	15,21,541.74	...	5,94,068.43	...	11,54,810.79
(6) Suits Filed Injunctions and appeals against rateable values.	...	1,53,65,521.66	...	42,63,012.84	...	36,73,967.97
(7) Properties under attachment	51,93,785.21	...	60,70,547.51	...	33,12,269.21	...
(8) Complaints against rateable values	...	1,33,52,445.45	...	74,65,322.24	...	45,03,345.00
(9) Amounts involved in respect of unauthorised structures and hutments.	24,86,680.02	...	1,14,36,554.85	...	52,04,473.27	...
(10) Amounts due from B. E. S. T. Undertaking.	1,05,283.49	...	1,16,003.55	...	26,943.15	...
(11) Instalments allowed	22,74,863.62	...	7,40,177.61	...	5,70,021.47	...
(12) Disputed property taxes	...	15,07,350.76	...	29,24,528.07	...	16,84,136.73
(13) Disputes regarding wheel tax	...	92,67,823.35	...	33,28,552.34	...	7,23,038.32
(14) Bills issued at the fag end of the year	...	88,70,492.03	...	99,36,863.71	...	40,65,516.94
(15) Arrears of taxes carried forward from the records of the defunct local bodies.	...	...	...	63,126.17	...	1,94,882.68
(16) Monthly tenancy structures	6,11,595.00	...	24,07,142.41	...	17,93,443.78	...
(17) Amounts held in deposits	5,76,222.73	...	8,78,447.66	...	3,25,000.00	...
(18) Other rate payers						
(a) Property taxes	1,34,32,998.72	...	4,18,13,086.72	...	1,30,08,907.94	...
(b) Wheel tax	1,02,18,503.65	...	38,49,717.81	...	6,22,525.92	...
	4,08,06,084.58	5,04,91,151.56	7,01,42,763.48	2,91,83,615.75	2,57,09,693.92	1,60,41,447.67
	9,12,97,236.14		9,93,26,379.23		4,17,51,141.59	

- (1) Payment was not received from the various Government departments before 31st March 1973. The Dy. Custodian of evacuee properties pays as and when funds permit.
- (2) The Railways have made 'on account' payment of Rs. 10.89 lacs during 1972-73. The question of assessment of Rly. properties for the quinquennium 1-4-64 to 31-3-69 and for the subsequent quinquennium is still pending with the Railway authorities.
- (3) The payment was not received before 31st March 1973.
- (4) The amount awaits adjustment.
- (5) The payments are made when funds are available.
- (6) The matter is pending before the Court.
- (7) Properties have been attached and steps have since been taken to expedite the sale of properties attached.
- (8) Complaints are pending and the payments can be demanded after disposal of complaints against rateable values.
- (9) There are various difficulties for effecting recovery of taxes from occupants of the unauthorised structures, however efforts are being made to recover maximum amount possible. Special squad has been appointed for the purpose.
- (10) The matter is under correspondence.
- (11) Recovery would be effected in due course.
- (12) The matter is under correspondence.
- (13) The matter is under correspondence.
- (14) The recovery is in progress.
- (15) Most of the properties no longer exist nor the owners are traceable.
- (16) There are various difficulties for effecting recovery of taxes in respect of monthly tenancy structures.
- (17) Amounts awaits adjustments.

Cinema Theatres :-

	Class I	Class II	Total
City	51	17	68
Suburbs	19	9	28
Extended Suburbs	11	4	15
Total	81	30	111

Collection of Theatre Tax :-

	1971-72	1972-73
City	8,08,814.05	8,73,270.56
Suburbs	3,43,284.25	3,38,557.93
Extended Suburbs	1,57,794.80	1,85,626.20
Total	13,09,893.10	13,97,454.69

Tax Collected on Race Horses—

	1971-72	1972-73
No. of horses taxed	3,894	3,366
Tax collected	10,396.58	9,267.57

APPENDIX 'A'*Classification of properties according to Rateable Values.*

Rateable Value.	Number of Properties		
	City	Suburbs	Extended Suburbs
Below Rs. 200	33,597	21,215	13,740
Between Rs. 201 and 300	4,021	9,622	4,704
Between Rs. 301 and 400	3,852	6,885	3,626
Between Rs. 401 and 500	3,734	6,521	2,784
Between Rs. 501 and 750	4,961	71,33	3,862
Between Rs. 751 and 1,000	3,853	5,554	2,867
Between Rs. 1,001 and 1,500	4,434	5,600	3,570
Between Rs. 1,501 and 2,000	3,602	4,793	2,532
Between Rs. 2,001 and 5,000	9,798	4,859	4,011
Between Rs. 5,001 and 10,000	6,894	4,828	1,265
Between Rs. 10,001 and 20,000	4,335	3,396	667
Between Rs. 20,001 and 30,000	1,458	1,227	335
Between Rs. 30,001 and 40,000	780	732	217
Between Rs. 40,001 and 50,000	546	441	140
Between Rs. 50,001 and 1,00,000	738	310	145
Between Rs. 1,00,001 and 1,50,000	351	86	45
Between Rs. 1,50,001 and 2,00,000	186	32	8
Between Rs. 2,00,001 and 2,50,000	131	21	4
Between Rs. 2,50,001 and 3,00,000	104	10	1
Between Rs. 3,00,001 and 3,50,000	78	6	3
Rs. 3,50,001 and above	105	24	1
TOTAL	87,608	83,295	44,57

APPENDIX 'B'

Vehicles and Animals taxed during the year 1972-73.

Vehicles or Animals							Number.
Motor lorries	...	...	...	...	...	...	17,023
Motor cars (including taxies)	...	...	...	...	...	...	71,307
Trolleys	...	...	...	...	...	...	21
Trailors	...	...	...	...	...	...	214
Cranes	...	...	...	...	...	...	9
Motor cycles with side-cars (including Auto Rickshwas)	...	...	...	...	...	...	1,658
Motor cycles (Solo)	...	...	...	...	...	...	13,465
Four-wheeled vehicles drawn by animals	...	...	...	...	...	...	210
Two-wheeled vehicles drawn by animals	...	...	...	...	...	...	480
Handcarts	...	...	...	...	...	...	16,872
Horses	...	...	...	...	...	...	31
Ponies	...	...	...	...	...	...	28
Bullocks	...	...	...	...	...	...	357
TOTAL							1,21,675

APPENDIX 'C'

Vehicles and animals taxed under the Public Conveyance Act, during the year 1972-73.

Hack Victoria (including 2 horses for each)	...	...	...	...	...	580
Labour carts (with pair of bullocks for each)	...	...	...	...	...	493
Hand-carts	...	...	...	...	...	2,649
TOTAL						3,722

OCTROI/ELECTION DEPARTMENT

SUMMARY

(1) **Money Spent.**—Octroi Department spends a sum of about Rs. 40 lakhs per year on Establishment and about Rs. 30 lakhs by way of commission charges to Bombay Port Trust, Central & Western Railways and Municipal Co-Operative Bank for recovering octroi of about Rs. 20 crores as Agents of the Corporation.

In the year of Municipal General Elections 1973, the Corporation had to spend about Rs. 60 lakhs, for delimitation of Wards, preparation of Rolls, Erecting Polling Stations, Remuneration to Polling Staff, Transport Arrangements, Printing, Stationery etc. In other years the expenditure of the Department is less than Rs.50,000.

Both Octroi and Election Departments do not spend for any other major projects, constructions, schemes and public utility undertakings.

(2) **Results Achieved.**—Results achieved are to be judged from the Octroi Collections made so far as Octroi Department is concerned. With Collections @ Rs. 21.94 crores in 1972-73 against Rs. 20.87 crores in 1971-72, they are encouraging.

(3) **Suggestions for Remedying deficiencies and other special information.**—No note-worthy suggestions are to be made during this year.

S. S. MURKUTE
Dy. Assessor & Collector (Octroi).

OCTROI DEPARTMENT

Rates of Octroi.—In 1972-73 the rates of Octroi continued to be same as those in the year 1971-72.

Income.—Comparative figures of gross collection, refunds and net revenue from Octroi for the years 1971-72 and 1972-73 are as under:—

Item.	1971-72	1972-73	Increase over 1971-72
(1) Gross collection	20,87,91,713	21,94,38,450	+ 1,06,46,737
(2) Refunds	2,99,81,700	2,35,22,013	— 64,59,687
(3) Net Revenue	17,88,10,013	19,59,16,437	+ 1,71,06,424
(4) Fees for stamping	2,17,881	1,00,949	— 1,16,932
(5) Fees in respect of refunds	25,75,977	18,73,425	— 7,02,552
(6) Departmental Collection	11,72,22,493	13,46,09,873	+ 1,73,87,380

Details of Packages stamped with Municipal Marks are as under:—

Item.	1971-72	1972-73	Increase or Decrease.
(1) Sugar & Gur	17,83,682	5,81,613	— 12,02,069
(2) Tea	60,466	69,204	+ 8,738
(3) Edibles	2,16,401	2,41,937	+ 25,536
(4) Ghee & Vegetable products	23,890	12,243	— 11,647
(5) Wines & Spirits	39,069	85,043	+ 45,974
(6) Paper crates	47,235	12,577	— 34,658
(7) Plywood crates	5,680	6,868	+ 1,188
(8) Molasses	2,385	...	— 2,385
(9) Miscellaneous ... ..	...	...	...
	21,78,808	10,09,485	— 11,69,323

90,752 claims for refund of octroi on exported goods were received during the year under report as against 84,710 claims received in the previous year.

Government of Maharashtra did not take any final decision in the matter of abolition of octroi till 31st March 1973.

In order to provide relief to the exporters from the procedure of payment of octroi and subsequent for its refund, exemption from payment of octroi on the goods which are imported into Bombay temporarily for the purpose of export to foreign countries was granted on introducing the Bombay Municipal Corporation Exemption from Octroi (Export Promotion) Rule 1970 from 1st April 1972 framed under Section 195-1A(iv) of the B. M. C. Act and which were sanctioned by the Standing Committee under their resolution No. 2905 dated 29th December 1971 and by the Corporation under their Resolution. No. 1430 dated 20th January 1972.

ELECTION DEPARTMENT

Administration Report for the year 1972-73

The poll for Municipal General Elections for electing 140 councillors was held on 9th March 1973.

The population of Greater Bombay had gone up to 59,68,546 according to figures of 1971 census against 41,52,056 as per 1961 census. In order to retain the number of councillors and the wards at the same level though the population had increased the Government of Maharashtra on a request from the Corporation amended Section 19(1)(a) of the B. M. C. Act to provide one councillor for not less than 35,000 and not more than 50,000 population by Maharashtra Act No. XXII of 1972.

The work of delimitation of the area of Greater Bombay into 140 Electoral Wards for Municipal General Elections was done by the State Government. After inviting objections and suggestions in respect of 140 delimited wards published in the Government Gazette and considering the objections and suggestions received, final 140 Municipal Electoral Wards were published in the Gazette dated 12th December 1972.

Election Rolls for Municipal General Elections had to be prepared by the Government by dividing suitably Assembly Rolls of Assembly Constituencies in Greater Bombay into different sections corresponding to different Municipal Electoral Wards of Greater Bombay as per Section 19(1)(a) of the B. M. C. Act. For this purpose the Government appointed all Ward Officers of the Corporation as Asstt. Electoral Registration Officers and they carried out the work of revision of Assembly Rolls by house to house enumeration and checking of Assembly and Parliamentary Election Rolls with the help of about 2500 Municipal employees drafted for the work for a limited period. Draft Assembly Rolls thus prepared were published on 20th October 1972 and after taking into account claims for enrolment and for correction received upto 26th November 1972, final Rolls containing 36,67,905 names of voters were published in the Gazette on the 27th November 1972. After dividing these Assembly Rolls suitably into newly delimited 140 Municipal Electoral Wards the Government handed over to the M. C. on the 18th December 1972 Municipal Election Rolls of new Electoral Wards containing 36,67,905 names of voters as against 25,93,625 voters in old Election Rolls published on 20th December 1967. These Rolls were used for the Municipal General Elections 1973, poll for which was held simultaneously in all 140 wards on 9th March 1973.

For holding the Poll of Municipal General Elections 1973 and carrying out various preliminary works, a separate temporary Election Department under an Election Officer was created from 1-10-1972.

It was decided to provide one Polling Station for every 750 to 1000 voters. On this basis, for a total electorate of 36,67,905 in Greater Bombay, 4,079 Polling Stations (located on 1,272 sites) were selected. Most of the Polling Stations were in closed premises.

Thursday the 15th February 1973 and Friday the 9th March 1973 were fixed as (1) the Election Day and (2) Day of Poll in case of contested elections as per Section 22 (1) and 27(1) of the Bombay Municipal Corporation Act.

Nomination forms from candidates were received and accepted between 8th to 15th February 1973 and 999 Nomination Papers for 140 seats of Councillors in 140 Wards were filed against 838 filed for Municipal General Elections in 1968. There was contest in all 140 Wards.

Out of 999 candidates, 222 candidates had withdrawn in writing their candidature before the last day for withdrawal which was seven days after Election Day i.e. upto 22-2-1973 and candidature of 13 candidates was declared invalid owing to one or the other disqualification laid down in Section 16. Remaining 764 candidates were validly nominated and they contested the Elections against 716 in Municipal General Elections 1968. Lists of validly nominated candidates with their abodes and symbols allotted were published in Government Gazette on 26th February 1973 and local newspapers on 5th March 1973.

Poll was held on 9th March 1973 in all 140 Wards simultaneously from 8 a.m. to 5-30 p.m. continuously and 21,43,762 voters out of a total electorate of 36,67,905 exercised their votes giving a percentage of 58.44 against 69.35 in Municipal General Elections 1968. Out of 140 Councillors elected as per results released to Press by the Municipal Commissioner in morning on 10th March 1973, 45 belonged to Indian National Congress, 39 to Shiv-Sena, 8 to Socialist Party, 4 to Congress (organisation), 15 to Jana Sangh, 3 to Communist Party, 1 to Communist Party (Marxists) and 25 were independents, including those elected on tickets of Muslim League. Out of 764 contesting candidates, 332 candidates secured less than 1/8th of the total number of valid votes polled in their respective Wards. Their Nomination Deposits were, therefore, forfeited and credited to Municipal Fund as per provisions of Section 26A of the Bombay Municipal Corporation Act. Within 15 days from the date of declaration of results, 15 Election Petitions are reported to have been filed before Chief Judge, Small Causes Court, Bombay.

Total cost of the General Elections 1973 including preparation of Election Rolls, delimitation of Wards and holding of the poll is expected to be about Rs. 70 lakhs.

R. G. RELE,
Assessor and Collector.

WATER SUPPLY PROJECTS DEPARTMENT.

Summary of the Annual Administration Report of the Water Supply Projects Department 1972-73.

I—Expenditure:	Rs.
(i) Vaitarna-cum-Tansa Scheme ... Cr.	1,20,148.21
(ii) Master Plan ... Cr.	21,17,738.98
(iii) Dahisar River Project ...	...
(iv) Ulhas River Scheme ...	37,325.00
(v) Upper Vaitarna Scheme ...	4,13,02,194.93
(vi) Bhatsai 'S' Scheme ...	66,56,671.09
(vii) Misc. Works:—	
(1) Guniting the 60" main at Saki Naka ...	43,703.18
(2) Replacing and enlarging 1450 mm. main between Santacruz & Mahim ...	8,08,173.21
(3) Providing masonry wall over the south abutment of Tansa Dam ...	220.00
(4) Strengthening Tansa Dam ...	1,01,200.00
(5) Repairs to Atgaon-Belnala Road ...	20,568.70
(6) Laying 1800 mm. pipeline between Tulsi Pipe Road and Dharavi ...	9,67,598.83
(7) Water Supply Sewerage Scheme ...	1,00,000.00
	4,77,99,967.75

II—Results:

During the year, work of laying 3000 > 2750 > 2500 mm. dia. Upper Vaitarna main from Belnalla to Dharavi (total length 84 kms.) was completed. It would have thus been possible to bring us additional quantity of water. But due to poor monsoon in the year 1972, additional water could not be brought.

Though the World Bank team came here in November 1971 to appraise the technical and financial report prepared by the Consultants Messrs. Binnie & Partners (India) Ltd. it left India in December 1971, due to the out break of hostilities between India and Pakistan and the appraisal had to be postponed. The team again visited India in June 1972 and successfully appraised the report. Final negotiations between the Bank, GOI, GOM and Municipal Corporation of Greater Bombay were in progress in the last fortnight of March 1973 at Washington.

III—Suggestions:

Though priority was given to the works of this Department while allotting the cement, the works still suffered to some extent due to its shortage. As the IDA credit will be available from next year, all the materials of construction e. g. cement, m. s. bars, plates, structural steel, sluice valves etc. must be made available in time, if the rigid time schedule, prepared jointly with the World Bank officials is to be scrupulously followed.

H. N. CHAVAN,
Project Engineer In charge.

WATER SUPPLY PROJECTS DEPARTMENT

Shri V. D. Desai, B.E.(Civil), M.E.P.H., F.I.E.(India) continued during 1972-73 as D.M.C.(S.E.) in-charge of Water Supply and Sewerage Departments of the Corporation,

Messrs. Binnie and Partners (India) Ltd. submitted their supplementary and final report on Bombay's Water Supply and Sewerage Projects in May 1972. The World Bank Appraisal Mission spent about a month in June-July 1972 appraising the project report. The Corporation agreed to adopt a number of measures like amending the Municipal Act, introducing new tariff rates, establishing a Water Supply and Sewerage Department and making Standing Committee the only Committee of the Corporation responsible for all the activities of the Water Supply and Sewerage Department excepting Land Acquisition and implemented many of these commitments during the year. The final negotiations with the World Bank were carried out in Washington by the Municipal delegation consisting of

Shri M. W. Desai	—	Municipal Commissioner (Leader)
Shri V. D. Desai	—	Deputy Municipal Commissioner (Special Engineering)
Shri B. R. Gole	—	Deputy Project Engineer, (Common Services)
Shri A. B. Maduskar	—	Deputy Accountant (Water & Sewerage)

from 26-3-1973 and continued beyond the year under report. A credit of 55 million U. S. dollars was finally agreed for the 1st stage of the Project.

The Common Services Department and the Deputy Accountant (Water & Sewerage) Department did considerable spade work for the appraisal and the negotiations and prepared standard contract documents for World Bank's comments. The following consultancy agreements were negotiated and entered into during the year under report:—

Serial No.	Description of Assignment	Name of Consultants	No. & Date of C.R.	Financial liability. Rs.
1	Design and Supervision of (a) Pise, Panjrapur & Bhandup pumps & pumping stations. (b) Water Treatment Plants at Panjrapur and Bhandup. (c) Control Valve Complex at Yewai.	Messrs. Binnie & Partners (India) Limited.	C.R. No. 1899 of 11-12-72.	Rs. 24,30,500 and Rs. 24,16,500
2	Instrumentation, Control and communication system for water supply.	Messrs. Tata Consulting Engineers.	C.R.No. 1713 of 20-11-72.	Rs. 7,90,000
3	Management & Accounting Matters	Messrs. Tata Consultancy Services.	C.R.No. 1823 of 27-11-72.	Rs. 7,75,000
4	Project Management System	do.	S.C.R. No. 1997 of 16-11-72.	Rs. 90,000
5	Further Computer Studies on the Trunk Mains and inlet system	Messrs. Tata Consulting Engineers.	C.R.No. 2525 of 15-3-73.	Rs. 78,280

Shri T. M. Kandawalla, B.E.(Civil), F.I.E.(India) continued to hold the office of the Project Engineer during the year.

The activities of the Department are grouped under the following heads:—

- I.—Vaitarna-cum-Tansa Scheme.
- II.—Master Plan for the distribution of Water Supply to Greater Bombay.
- III.—Dahisar River Project.
- IV.—Ulhas River Scheme.
- V.—Upper Vaitarna Scheme.
- VI.—Integrated Bhatsai 'S' Scheme.
- VII.—Misc. Works.

PART—I

Vaitarna-cum-Tansa Scheme

(A) *General*.—With the increase in population and the commercial and Industrial activities in and around Bombay, the supply brought from Tansa, Vehar and Tulsi could not cope up with the increasing demand. Vaitarna-cum-Tansa Scheme was therefore, taken in hand in the year 1947 and was practically completed by the end of 1955. The scheme envisaged the following works:—

- (1) Construction of a dam about 1800 ft. in length across Vaitarna river to form a lake of about 46,000 million gallons capacity with its FSL at 535 ft. THD.

(2) Driving a tunnel through the hills about $4\frac{1}{2}$ miles in length to link the Vaitarna lake with the Tansa lake.

(3) Laying electrically welded M. S. pipes of 96" dia. for a length of $47\frac{1}{2}$ miles and 120" dia. for $6\frac{1}{2}$ miles to convey the water to Greater Bombay either through or independently of the Tansa Lake and to connect the two tunnel faces in the Valleys by 120" M. S. Pipes.

(4) Strengthening of Tansa dam by Coyne method.

After completion of the scheme, the supply was augmented by 108 m.g.d. making up a total supply to about 223 m.g.d.

(B) *land Acquisition*.—All the acquisition proceedings under this Scheme have been completed except land measuring 22,687.70 sq. mts. of village Paspoli and Tungway in B. S. D. The case is pending with S. L. A. O. (7) B. S. D. for deciding the title of land. The award in respect of land measuring 922 sq. mts. was declared during the year. Correspondence for transfer of Government lands and forest lands was in progress during the year.

PART-II

Master Plan for the distribution of Water supply to Greater Bombay

(A) *General*.—This plan was prepared in the year 1955 for distribution of water that became available from Vaitarna-cum-Tansa Scheme. Under this plan, 11 service reservoirs were proposed in Greater Bombay of which Worli, Golanji, Pali, Trombay, Veravali High, Veravali Low, Ghatkopar, Powai Low and Bhandup were completed earlier. Work on Powai High Level Reservoir is nearing completion. As it will not be possible to construct an R. C. C. reservoir on top of Rawli Hill, it is decided to construct steel tanks on top of the hill and surface tanks at the foot of the hill. The Government has agreed to release the land required for the construction of surface tanks at the foot of the hill.

(B) Land Acquisition:—

Serial No.	Village, purpose of acquisition.	Area to be acquired sq. mts.	Party to whom land belongs	Remarks.
(1)	(2)	(3)	(4)	(5)
1	Raoli Hill (MP/AQR/77)	18,303.00	Government Reclamation Project.	Under negotiation with the Additional Collector, B.S.D.
2	Trombay Hill (MP/AQR/1A)	25,287.00	Government Revenue and Forest.	The occupancy price amounting to Rs. 1,09,000 paid to Government pending possession.
3	Ghatkopar Hill (MP/AQR/39A)	50,268.71	Government.	Matter under negotiations with Government.
4	Bhandup Hill (Kanjur) (MP/AQR/9A).	1,00,644.25	Private.	Land in possession of Corporation. Acquisition proceedings were pending with SLAO for deciding title of land.
(a) Approach Road to reservoir:				
	(Kanjur) MP/AQR/73	724.60	do.	Land declared by S.L.A.O.(7).
	(Kanjur) MP/AQR/66	5,205.41	do.	Pending with S.L.A.O for joint measurement
	(Kanjur) MP/AQR/43	23,770.25	Government.	Negotiations with Government were in progress.
5	Reservoir: Veravali Hill MP/AQR/61	5,437.05	Private.	Purchase agreement under preparation by the Solr. to Corporation.
	Misc. outlet & inlet MP/AQR/11 and 55	45,542.80	Government Milk Scheme.	Correspondence for the lease for 15 years was in progress with Addl. Collector, B.S.D.
6	Pipeline MP/AQR/45	89,416.60	Forest.	Land in municipal possession, but occupancy price not finalised.

(C) Works in Progress.

Serial No.	Name of the work.	Name of the contractors.	S.C.R. No. and date	Sanctioned amount.	Amount spent till 31-3-73.	Remarks.
				Rs.	Rs.	
1	(a) Powaj Hill Reservoir (High Level) Balance work.	Messrs. New Great Const. Co.	2677 of 21-12-70	7,28,026.99	6,71,469.81	The work is nearly completed.
	(b) Miscellaneous works.	Messrs. Litco Const. Co.	2206 of 20-11-70	1,85,796.45	1,50,545.22	The work is completed on 23-2-73 and final bill is passed for payment.
2	Trombay Hill Reservoir (Misc. Works) Balance work.	Messrs. Union Const. Co.	1726 of 30-9-71	2,86,634.03	2,61,784.64	The work is completed on 9-5-72 and final bill is passed for payment.
3	Ghatkopar Hill Reservoir (Misc. works).	Messrs. Dhirubhai Const. Co.	1564 of 10-9-69	1,78,145.63	1,40,797.37	The work is completed on 10-7-71 and final bill is passed for payment.
4	Bhandup Hill Reservoir.					
	(a) Reservoir.	Messrs. Chhattar-singh Motisingh & Co.	4161 of 18-3-64 & 3391 of 9-2-66	22,45,708.50	23,21,847.75	The work is completed on 4-9-71 and final bill is passed for payment.
	(b) Staff quarters at Bhandup Hill.	Messrs. Vikram Construction Co.	768 of 12-5-69	4,03,843.65	2,88,914.41	The work is completed on 31-7-72
	(c) Misc. works.	Messrs. Litco Const. Co.	489 of 21-6-72	8,01,821.92	3,84,941.62	The work was started on 12-7-72 but is stopped due to court injunction.
5	Veravali Hill Reservoir (Misc. works.)	Messrs. Kanal Const. Co.	23 of 3-5-72	7,94,220.54	3,08,587.76	The work has started on 5-10-72 and is in progress.
Other Works						
1	Transport of material from premises of Messrs. Structural Eng. works Ltd.	(1) Messrs. J. D. Shah (2) Messrs. Mangatram Bros. (3) Messrs. Baxis-singh & Co. (4) Messrs. Shori Automobiles.	2015 of 20-10-68	19,98,687.90	...	The work was started on 29-10-69 and till 31-3-1972 68,900 tonnes of material is transported.
2	Construction of 20 M. G. D. water Treatment Plant for Vihar Waters (Balance work)	Messrs. Geo Millers Co. Ltd	1662 of 14-10-70	6,21,471.99	3,51,989.12	Work was started in February 71 and is completed on 31-12-72.

Departmental Works

Departmental works such as construction of office for Dy. Project Engineer and staff, etc., costing Rs. 4,58,137 were in progress.

PART—III**Dahisar River Project**

(A) *General.*—The High Level Committee of Experts appointed by the Corporation to advise on future reservation of sources of water supply for Greater Bombay had suggested to implement this Scheme, which has an yield of 6 million gallons per day. However, after carrying out some investigations, it was observed that the completion period for this project was required to be shorter and commensurate to that of Upper Vaitarna Scheme, which has an yield of 12 million gallons per day. The cost of the project was also required to be revised to about 5.5 crores of rupees. The project was, therefore, found to be costlier as compared to its yield. Construction of an underpass tunnel at Kishali, under Upper Vaitarna Scheme also minimised the necessity of having such a storage within Greater Bombay Limits. A joint decision was, therefore, taken to postpone the project.

(B) *Land acquisition.*—The land measuring 23,19,034.15/Sq.m. was handed over to the Addl. Collector B.S.D. as the Scheme was abandoned.

PART—IV**Ulhas River Scheme**

(A) *General.*—This Scheme was taken up as an emergency scheme and work on it started in the first week of October 1965 and the scheme was commissioned on 8th May 1967.

(B) *Land Acquisition*.—The award of the following cases were declared by the Special Land Acquisition Officer (Upper Vaitarna) Thana.

Serial No.	Village Purpose.	Area to be acquired in Sq. Mt.	Ownership of land (Govt./Private)	Remarks.
Pipeline & Approach Road.				
1.	Temghar UR/LAQ/1	12,470	Private	Award declared by the S.L.A.O. (U.V.) during the year.
2	Bhadwad UR/LAQ/2	7,818	Private	do.
Following cases were pending with S. L. A. O. (U. V.) Thana.				
1	Sonale UR/LAQ/3	80,965	Private	Pending for award.
2	Lonad UR/LAQ/5 & UR/LAQ/4	12,141	do.	do.
3	Wadhavali UR/LAQ/10	7,255	do.	do.
4.	Mohone UR/LAQ/12	13,871	do.	do. Sec. 6

Transfer proceedings in respect of Govt. and Forest land measuring 69,125.43 Mts. were in progress.

PART—V

Upper Vaitarna Scheme

(A) *General*.—As the population of Greater Bombay continued to increase, the supply brought after completion of Vaitarna-cum-Tansa Scheme was observed to be inadequate. The Government of Maharashtra was constructing an Hydro-Electric Project in the upstream region of Vaitarna Lake. The Corporation therefore, decided to undertake Upper Vaitarna Project which can yield 120 million gallons per day. The salient features of this scheme are as under:—

(1) *Head Works*.—2 dams are to be constructed across river Alwandi and Vaitarna to impound the necessary storage. The work of the construction of dams is being carried out by the Government of Maharashtra and the Corporation has to share the cost of the dams. The tail-race water after generating electricity will be left into the river and will find its way into the existing Vaitarna Lake of the Corporation.

(2) *Conveyance*.—To convey this additional 120 m.g.d. of water, the Corporation was to lay 3000 > 2750 > 2500 mm. dia. main from Bel Nalla to Dharavi, a distance of about 84 K. Ms. The work of preparing formation from Bel Nalla to Bhandup was divided into 3 sections and entrusted to 3 contractors. The works were started in 1965, but due to delay in getting possession of land required for making formation etc., all the 3 works were delayed. In order to lay the main as per plan, the work of laying the main and fabrication of pipes and specials etc., was entrusted to the Consortium of contractors headed by Messrs. The Hindustan Construction Co. Ltd. Messrs. The Hindustan Construction Co. Ltd. started the work in November 1968 and completed the work of laying the main in 1972.

The work of laying the main from Bhandup to Dharavi was initially entrusted to two contractors *viz.* Messrs. S. V. Shah and Messrs. Concrete Construction Co. However, as the latter contractors failed to execute the work, the contract with them was terminated and the work was divided and entrusted to 3 contractors *viz.* Messrs. Gujarat Construction Co., Messrs. Kusumkant & Co. and Messrs. R. N. Ghanekar & Co. Again the contractors Messrs. Gujarat Construction Co. failed to carry out the work as per plan and as the work of laying the main in other sections was likely to be completed by the end of December 1972, as per plan, the contract with them was terminated and the work was again required to be divided and entrusted to Messrs. S. V. Shah, Messrs. Janak Construction Co. and Messrs. New Great Construction Co. In spite of the above difficulties, the work of laying the main from Bel Nalla to Dharavi was completed by the end of December 1972 as per plan and the main was subsequently commissioned.

(3) *Under Creek Tunnel*.—As all the mains bringing water from the main land have to cross the creek at Kasheli, from security point of view, it was decided to construct a tunnel with adequate capacity to convey the water to the City from all the sources. The work was executed by the Government of Maharashtra on behalf of the Corporation. The tunnel has been constructed at above 122 mts. below the river bed at Kasheli.

(4) *Treatment*.—The Project also envisaged the treatment of water. However, due to paucity of funds, the work could not be taken in hand and will now be taken up under the Integrated Water Supply and Sewerage Scheme.

(5) *Distribution*.—For the distribution of water in Greater Bombay, 6 service Reservoirs along with their inlets and outlets etc., were to be constructed in various parts of the City. 2 reservoirs—one at Borivli and the other at Bhandup—have been completed and the work of the remaining 4—Powai, Trombay, Malad and Veravli were deferred due to paucity of funds, and will now be carried out under the Integrated Water Supply and Sewerage Scheme.

The scheme had a number of set backs which had delayed its commission. However, these difficulties were overcome and the entire pipeline from Bal Nalla to Dharavi was laid and commissioned during the year.

(B) Land Acquisition.—The following cases were pending with S. L. A. O. :—

Serial No.	Village and purpose.	Area to be acquired in sq. mts.	Land belongs to	Remarks.
(1)	(2)	(3)	(4)	(5)
Thana District—For laying pipeline				
1	Taharpur UV/LAQ/54(S)	10,871.50	Private	Pending for Section 4.
2	Pachpakhadi UV/LAQ/23	8,700.00	do.	do. Section 6.
	Pachpakhadi UV/LAQ/24	56.88	do.	do. Award.
3	Majiwade UV/LAQ/P-17	4,394.24	do.	do.
	Correspondence in respect of Government & Forests lands measuring 8,44,349.62 was in progress.			The lands are under possession of the Corporation.
City & Suburbs—Pipe laying.				
4	Bhandup UV/LAQ/54 UV/LAQ/54A	2,806.90 976.00	Private. Government	Pending with S.L.A.O. for Award. Negotiations with Express Highway Authorities were in progress.
5	Akurli & Kanjur for Pipe laying.... UV/LAQ/80 UV/LAQ/85	838.70 9,521.60	Private. do.	Award declared by the S.L.A.O. Pending for Award.
6	Marol Industrial Area VP/AQP/4/ & 39	2,99,909.75	MIDC	Negotiations for out-right purchase were in progress. Possession with Corporation.
7	Paspoli VP/AQP/10	17,264.28	I. I. T.	Negotiations with Government were in progress.
8	Marol, Parj, Paspoli VP/AQP/6	30,685.87	Milk Sch.	Negotiations for transfer of land were in progress. Possession with Corporation.
9	Mulund, Bhandup and Nahur ... VP/AQP/51 to 63	12,789.40	Government	Negotiations for transfer were in progress.
10	Kondivate and Parjapur VT/AQP/5/ & 2	5,239.04	Private.	Purchase document was under preparation by the Solr. to Corpn.
Thrust Block.				
11	Kanjur UV/LAQ/83	30.00	do.	Purchase documents were under preparation.
Tunnel				
12	Gundgaon & Nahur (a) UV/LAQ/34	43,563.28	Govt. & Forest	Negotiations with Govt. & Forest Department were in progress. Land in possession
12	(b) Poisar & Akurli 50' strip	14,628.31	Government	Possession of land was with Corporation. Occupancy Price not settled.
Reservoir.				
13	Bhandup Hill UV/LAQ/10	8,22,602.25	Private.	Pending with S.L.A.O. for Award. It is pending for want of title of land 77,918.75 sq. mts. Land in possession of the Corporation.

Serial No.	Village and purpose.	Area to be acquired in sq. mts.	Land belongs to	Remarks.
(1)	(2)	(3)	(4)	(5)
Approach Road and Inlet Main.—				
14	Magathene Poisar Borivali Hill ... UV/LAQ/45	68,680.85	Government	Possession with Corporation. The land is not yet granted by Govt.
15	Dahisar EA/1877	26,299.00	M. H. B.	Negotiations with M. H. B. were in progress.
16	Trombay Hill Anik Village ... UV/LAQ/72	95,460.30	Atomic Energy.	Exchange documents were being prepared by the Solr. to Corporation.

(C) Works in Progress.

Serial No.	Name of the work.	Name of the contractors.	S.C.R. No. and date	Sanctioned amount.	Amount spent till 31-3-73.	Remarks.
				Rs.	Rs.	
1	Preparing formation work for laying 3000 > 2750 mm. dia. main between Belnala and Pachhapur Section.	Messrs. New Asian Const. Co.	1378 of 25-8-65	1,56,49,840.50	1,19,79,814.66	The work was started on 1-11-65. Due to delay in land acquisition etc. original contract period of 20 months which expired on 30-6-67 was extended upto 31-12-71 and the contractor has completed the work in extended contract period i.e. on 30-12-71. Contractor's claims are being scrutinized.
2	Fabricating and laying 3000 > 2750 m.m. dia. steel pipes & specials etc. including civil works between Belnala and Bhandup.	Messrs. The Hindustan Const. Co. Ltd.	1505 of 11-9-68	8,53,72,098.70	6,87,77,014.83	The original contract period of 36 months expired on 5-11-71. Due to non-completion of work the same was further extended upto 5-11-72. However, contract work could not be completed within the extended period hence the same has been extended upto 5-5-73. The work has been completed except some rectification and minor civil works, which are being attended.
3	Sand blasting and painting internally 3000 > 2750 mm. dia. steel pipes & specials between Belnala & Pachhapur Section.	Messrs. Shotblast ing & Metal Spray ing Co. (Bombay)	1380 of 31-8-70	48,81,135.00	44,31,026.64	Work was started on 20-11-70. The contract period of 24 months expired on 19-11-72 which was further extended upto 31-12-72. The work has been completed by 31-12-72.
4	Sandblasting and painting internally 3000 > 2750 mm. dia. steel pipes and specials between Pachhapur & Pogaon Section.	Messrs. Onar Paint & Contracts. Pvt. Ltd.	1380 of 31-8-70	45,88,547.25	44,85,854.95	The work was started on 25-5-70. Original contract period of 24 months expired on 24-5-72 which was extended upto 31-10-72 and the work has been completed on 31-10-72.
5	Sandblasting and painting internally 3000 > 2750 mm. dia. steel pipeline and specials between Pogaon & Bhandup.	Messrs. John Fleming & Co. Ltd.	1380 of 31-8-70	45,01,429.50	44,46,511.58	Work completed.
6	Laying 2500 mm. dia. pipeline between Bhandup-Powai & Bandra-Dharavi, including widening of bridge across Bandra creek and replacing trolley line by asphalt surface road between Bandra & Dharavi and laying 2500 mm. dia. pipeline from Powai to Kurla-Andheri Road.	Messrs. S. V. Shah.	74 of 21-4-71 & 1413 of 13-9-72	49,50,970.92	40,71,387.52	Work of laying pipeline, so as to put the same into commission completed on 31-12-72. Other ancillary works, are also almost completed.
7 (a)	Laying 2500 mm. dia. pipe line between Powai and Postal Colony at Sahar (Section I & II)	Messrs. Gujarat Construction Corporation.	3202 of 4-2-70 189 of 22-5-72 586 of 21-6-72	24,90,602.22	12,62,004.88	The contract was terminated & the works divided into five Sections (I, II, IIIA, IIIB, & IV) and entrusted to three different contractors as detailed below viz. Messrs. S. V. Shah Messrs. Janak Const. Co., and Messrs. New Great Const. Co.
(b)	Laying 2500 mm. dia. pipe line between Bhandup & Dharavi (Section IIIA & IIIB).	Messrs. Janak Const. Co.	1412 of 13-9-72 1520 of 27-9-72	21,48,299.43	14,21,544.67	Work of laying pipeline, so as to put the same into commission, completed on 31-12-72. Other ancillary works also completed on 15-2-73.
(c)	Laying 2500 mm. dia. pipe line between Bhandup & Dharavi (Section IV).	Messrs. New Great Const. Co.	1412 of 13-9-72 1520 of 27-9-72	10,30,385.48	9,20,057.99	Entire work completed on 31-12-1972.

Serial No.	Name of the work.	Name of the contractor.	S.C.R. No. and date	Sanctioned amount.	Amount spent till 31-3-73.	Remarks.
				Rs.	Rs.	
8	Laying 2500 mm. dia. pipeline from Postal Colony at Sahar to Nehru Road Santacruz.	Messrs. Kusumkant & Co.	1872 of 15-10-69 189 of 22-5-72 586 of 21-6-72 2698 of 3-1-73	64,57,476.90	47,18,446.82	Entire work completed on 15-2-1973.
9	Laying 2500 mm. dia. pipeline from Nehru Road at Santacruz to Highway Bridge at Bandra.	Messrs. R. N. Ghanekar & Co.	1844 of 8-10-69 189 of 22-5-72 586 of 21-6-72 2698 of 3-1-73	58,02,500.13	47,68,407.64	Entire work completed on 15-2-1973.
10	Bhandup Hill Reservoir.					
	(a) Formation & Construction	Messrs. Kusumkant & Co.	812 of 3-7-68	21,44,730.00	21,67,333.00	The work is completed on 30-4-71 and final bill is passed for payment.
	(b) Formation & Construction (inlet and outlet mains)	Messrs. Janak Const. Co.	1099 of 23-7-69	5,61,414.00	4,96,454.26	The length across Rly. overbridge could not be laid as the bridge to be constructed by Rly. is not ready and except this the work is completed on 22-1-72.
11	Veravali Hill Reservoir.					
	(a) Laying 1800 m. dia. inlet main from Powai to Veravli	Messrs. Kiran & Co.	3238 of 29-1-69	6,42,306.00	7,53,493.67	The work was started on 15-3-69 and is completed on 15-6-72.
	(b) Veravali Hill Reservoir Laying 2-1200 mm. dia. outlet mains upto. Kurla Andheri Road.	Messrs. Vasank Const. Co.	436 of 23-5-69	13,00,771.50	11,06,496.80	Work started on 16-10-69 and is completed on 6-6-72 & final bill prepared and not yet passed.
	(c) Veravali Hill Reservoir Extending 2-1200 mm. dia. outlet main upto Western Express Highway.	Messrs. Kiran & Co.	831 of 7-7-71	6,09,265.55	4,23,018.34	Work was started on 9-12-1971 & is in progress.
12	Trombay Hill Reservoir.					
	(a) Laying 1800 mm. dia. inlet main from Powai to Ghatkopar.	Messrs. R. N. Ghanekar & Co.	344 of 8-5-68	18,55,190.30	22,70,564.86	The work is completed on 31-1-72 and final bill passed for payment.
	(b) Extending 1800 mm. dia. from Ghatkopar to Chembur.	Messrs. National Painting Works.	2279 of 17-11-71	26,17,835.44	11,90,777.44	The work is started on 18-12-71 and is in progress.

Departmental Works.—Works such as construction of staff quarters, providing fencing construction of Welfare Centre at Kapurbawdi, etc. costing Rs. 1,75,653 were carried out departmentally.

PART—VI

INTEGRATED BHATSAL S SCHEME

(A) Planning and Design section—

Messrs. Binnia & Partners (India) Ltd., Consultants appointed by the Corporation for preparing an engineering as well as the feasibility report in respect of works of City's Water Supply, Sewerage and Sewage Disposal Systems have in their report, drawn up a comprehensive Development Plan for Water Supply of Greater Bombay, which includes, inter-alia, the development of an additional source of water supply from Bhatsai River in addition to our existing water supply sources viz., Vehar, Tulsi, Ulhas, Tansa and Vaitarna. This additional source from Bhatsai river is proposed to be developed in two stages and is expected to yield 454 mgld (100 mgd.) in its first stage and 1362 mgld (300 mgd.) in its ultimate stage. The Development Plan further stipulates the treatment of Tansa, Vaitarna and Bhatsai Supply and equitable distribution of the bulk supply from all the above sources. The main components of the scheme, so far as Water Supply Projects Department is concerned, are as under:—

- A weir across Bhatsai River at Pise, just upstream of its confluence with Kalu.
- An intake channel leading to the intake pumping station on the right bank of the river at Pise.
- A Pre-treatment plant at Panjrapur in between Pise and Yewai alongwith a Pumping Station.
- A 2235 mm. (88") diameter welded steel rising main 9 Kms. long laid underground except for the length laid above ground on the bridge over Amne Nalla.
- Control Valve Complex at Agra Road Yard a short distance upstream of Yewai on the trunk mains.

- (f) A new tunnel, 5 metres dia. to carry water from the trunk mains to the Bhandup Treatment Works and new mains to reinforce the existing East—West tunnel system.
- (g) Treatment works of 1908 Mgld (420 Mgd.) capacity for all the water received from all the main land sources viz., Tansa, Vaitarna, Upper Vaitarna and Bhatsai. The works will be sited at Bhandup on the shores of Vehar Lake.
- (h) Treated Water pumping station with an inlet water main to the Master Balancing reservoir and mains for carrying raw water from East-West tunnel to the Bhandup Complex and treated water from Bhandup Complex to the East-West tunnel.
- (i) Construction of 11 new service reservoirs of a total capacity 377 Mgl. (83 mg.) and laying of inlet and outlet mains to and from reservoirs.
- (j) Providing instrumentation for automatic recording and collection of information in connection with the control and management of the water supply operations.

For completing the scheme as per the time schedule stipulated by them, the consultants, in their report, have recommended creation of an independent Planning and Design Organisation. Accordingly, a Centralised Planning and Design Office headed by a Deputy Project Engineer (Planning and Design) was established at Powai, in January 1972. The report of the works undertaken by the department during the year under review is as follows:—

- (i) *Construction of Anti-Vortex wall in Vaitarna. Intake Tower.*—A proposal for construction of a diaphragm wall in mild steel has been finalised as per the recommendations of C.W.P. R. S. Khadakvasla, and quotation for the same has been invited.
- (ii) *Strengthening of Powai Dams.*—A proposal was finalised adopting masonry buttresses for strengthening the existing masonry dams at Powai. However, in view of the heavy hill cutting involved in this method just downstream of the dams, alternatives methods of strengthening by anchor-stressing etc., are being explored in consultation with C. D. O, Maharashtra Government.
- (iii) *Grouting of foundations of Masonry dams at Powai.*—Tenders were invited for grouting the foundations of the existing masonry dams at Powai, but the same were rejected following the decision to combine this work with the work of strengthening of the dam.
- (iv) *Grouting of Waste Weir for Vehar dam.*—Advice of Maharashtra Engineering Research Institute (Nasik) was sought to decide upon the method of grouting the waste weir and the work of preparation of tenders for exploratory work based on MERI's recommendation has been taken in hand.
- (v) *Site investigation at Bhandup.*—A detailed estimate and a tender was prepared for this work. After invitation of sealed quotation, the work, has been entrusted to Messrs. Shri Sainath Const. Engineering and Trading Co. at a total cost of Rs. 35,825.—The work is in progress.
- (vi) (a) *Construction of Pise Weir.*—Model studies of Bhatsai River and Pise Weir have been undertaken at C. W. P. R. S. Khadakvasla as per recommendation of Messrs. Binnie & Partners, our Consultants, to establish stage discharge relationship, effect of improvements to the field plain etc. Data required for the above studies was collected and furnished to the Research Station, Khadakvasla. The work of construction of the model has been started and is in progress.
 (b) *Construction of Pise pumping station and inlet Channel.*—The work of preparation of an hydraulic model for inlet channel has been entrusted to C. W. P. R. S. Khadakvasla. Necessary data required for the construction of the model has been obtained from the Consultants and has been furnished to the Research Station. The work of construction of the model is yet to be started.
- (vii) *Fabrication of steel plates and pipes for Bhatsai 'S' Scheme.*—The work of preparation of specifications for fabrication work were undertaken and finalised. A copy of these specifications was sent to the World Bank for their approval as per the requirements of the agreement. Their suggestions have now been received and the tender is being modified in the light of above suggestions.
- (viii) *Pipe laying Bhatsai 'S' Scheme.*—(Pise Yewai pipeline, construction of control valve complex, installation of additional valves on Upper Vaitarna main)—The alignment of Pise Yewai pipeline and the details of additional valves to be provided on Upper Vaitarna main have been finalised and the work of preparation of estimate and tender specifications is in progress. Details of valve Complex at Agra Road to be supplied by Messrs. Binnie & Partners are awaited and they will be incorporated in the tender when received.
- (ix) *Pipe laying and site formation from Master Balancing Reservoir to Maroshi.*—Survey from Bhandup Anchor Block to Maroshi has been completed and the work of preparation of estimate is in progress.
- (x) *Tunnelling to Bhandup Complex.*—Sub-surface investigation was undertaken and completed through Messrs. Shri Sainath Construction Engineering & Trading Co. for finalising the alignment of the proposed inlet tunnel to Bhandup Complex.
- (xi) *1800 mm. inlet main from Dr. E Moses Road to M. H. R.*—Investigations were undertaken for fixing the alignment for the above main. As no practicable alignment was available, it was decided to explore the possibility of driving a tunnel. Quotations were invited for consultancy in connection with the exploratory work etc. The quotation of Messrs Construction Consultancy Services has been recommended for acceptance.

- (xii) *Laying 1500 mm. inlet main from Sewri Railway Station to B. H. R.*—Investigations were undertaken for fixing the alignment of the above pipeline. After investigating three alternative routes, it has been decided to lay the pipeline along Fosbery Road and Magazine Street in B. P. T. area. Correspondence with B. P. T. for obtaining permission for laying the pipeline in B. P. T. area is in progress.
- (xiii) *Laying 1500 mm. inlet main to Veravli Reservoir No. 3.*—Survey for the above pipeline has been completed and detailed estimate has been prepared.
- (xiv) *Laying 1800 mm. inlet main from Chembur to Trombay High Level Reservoir.*—Alignment for the pipeline was finalised in consultation with B. A. R. C. Detailed survey has been completed and a block estimate amounting to Rs. 1,14,64,000 has been submitted for obtaining administrative approval.
- (xv) *Laying 900 mm. main from Powai Low Level Reservoir to Powai High Level Reservoir No. II.*—Survey has been completed.
- (xvi) *Laying 1200 mm. main from Powai Low Level Reservoir to Thana Road Cabin.*—Alternative routes for the alignment of above pipeline are being studied.
- (xvii) *Laying outlets of Veravli Low Level Reservoir:—*
- (a) 1200 mm. > 600 mm. Andheri West Main.
 - (b) 600 mm. Vile Parle main.
 - (c) 2500 mm. Bandra combined main.
 - (d) 1800 mm. > 1200 mm. Bandra East main.
 - (e) 1200 mm. > 900 mm. Bandra West main.
- Detailed survey has been completed and block estimates have been submitted for obtaining administrative approval. The preparation of draft tender has been taken in hand and is in progress.
- (xviii) *Laying outlet mains from Malad Reservoir:—*
- (a) 1200 mm. Malad West main.
 - (b) 1200 mm. Malad East main.
- Detailed survey has been completed and block estimates have been submitted for obtaining administrative approval. The preparation of draft tender has been taken in hand and is in progress.
- (xix) *Laying 1050 mm. > 900 mm. Mulund Outlet.*—After detailed investigation, it has now been decided (i) to revise the size of the inlet from 1050 to 1350 mm. between reservoir and Dinshaw Bridge due to limitations of the hydraulic gradient and (ii) to utilise the portion of the Upper Vaitarna main between Dinshaw Bridge and Dargah culvert as a portion of this outlet. Detailed survey is in progress.
- (xx) *Laying 1200 mm. outlet main from Trombay High Level Reservoir to Diamond Garden.*—Detailed survey has been carried out after finalising the alignment in consultation with B. A. R. C. A block estimate has been prepared and submitted for obtaining administrative approval.
- (xxi) *Demolishing and rebuilding the existing Bhandarwada High Level Reservoir.*—Detailed design of reservoir was worked out and estimate prepared. The work was, however, deferred pending completion of the work of installing pump on Dongri outlet.
- (xxii) *Malad Hill Reservoir including access road, & quarters etc.*—Tender for the work of taking exploratory bores at the site of the proposed reservoir were invited and the work was executed through Messrs. Foundation Corporation of India, at a total cost of Rs. 11,755.80. The plan and estimate for the reservoir control room, quarters etc., and the draft tender has been prepared.
- (xxiii) *Veravli Low Level Reservoirs No. II and III.*—Tenders for the work of taking exploratory bores at the sites of the proposed reservoir were invited and the work is being executed through Messrs. Foundation Corporation of India.
- (xxiv) *Raoli Hill Reservoir (High Level).*—Two steel tanks having a total capacity of 22.7 M.L. (5 mg.) have been proposed to be adopted for above reservoir as per recommendation of the Consulting Engineer Sri K. R. Ditye following a detailed investigation at the site of the reservoir. Draft tender for the above work is under preparation.
- (xxv) *Raoli Low Level Reservoir.*—It has been decided to construct a surface reservoir of 7 mg. capacity at the foot of the hill in salt pan area. The hill selected for this reservoir belongs to Maharashtra Government. Correspondence has been initiated for acquiring the site.
- (xxvi) *Master Balancing Reservoir at Bhandar.*—The location has been finalised and detailed survey is in progress. Exploratory bores were undertaken through Messrs. Sri Sainath Construction Engineering & Trading Co. at a total cost of Rs. 14,713.25 for obtaining subsurface data for finalizing the design of foundation for the reservoir structure and the same have been completed.

(xi) **Quarters at Bhandup Complex.**—Draft tender for above work has been finalised and submitted for obtaining sanction for inviting tenders.

(xii) **Highway and Railway Crossings.**—Consolidated proposals for obtaining administrative approval to the block estimates for all the crossings under the Development Plan and sanction to entrust the work to the respective authorities has been proposed and submitted for obtaining sanction.

(xix) **Road surfacing along Upper Vaitarna pipeline from Aghai to Pogaon.**—Draft tender for the above work has been prepared and submitted for obtaining the M. C. s sanction to invite tenders. Under S. C. R. No. 285 of 3rd June 1972 Messrs. Binnie & Partners (India) Ltd. have been appointed as Consultant for the work of design and supervision of the following items of works at a cost of Rs. 1,41,83,000,

- (A) an intake and raw water pumping station on the right bank of the Bhatsai river near the village of Pise comprising an intake channel, forebay, pump sump and pumping station complete with all plant equipment, workshop, instruments necessary for the proper functioning of the station including all station valves and pipework (to a distance of one hundred pipe diameters beyond the station flowmeter) together with all works or equipment necessary to protect the pumps and rising main against the effects of surge;
- (B) a water treatment works at Bhandup adjoining the north end of Vehar reservoir comprising an inlet bay, penstocks, inlet channels, chemical storage and handling arrangements, detention tanks, rapid gravity filters, contact tank and clear water reservoirs together with an administration block, other instruments and internal pipe work, appertinent works workshop, plant, equipment necessary for the proper functioning of the works;
- (C) a treated water pumping station at Bhandup adjoining the said water treatment works comprising a pump sump and pumping station complete with all plant, equipment, workshop, instruments necessary for the proper functioning of the station including all station valves and pipe work (to a distance of 3 metres beyond the connection of the wash water main for the treatment work to the delivery pipe work) together with all works or equipment necessary to protect the pumps and rising main against the effects of surge;
- (D) control valves complex to be sited at the Agra Road Yard on the existing gravity pipeline from Vaitarna or Tansa reservoir comprising control valves, sluice valves, tapers, pipes, flanges, thrust and anchor blocks and control cabin and any other appertinent works;
- (E) Construction of pumping station and primary water treatment works at Panjrapur.

Messrs. Tata Consulting Engineers have been appointed as Consultants for providing instrumentation control and communication system for overall water supply and distribution system (S.C.R. No. 1643 of 11-10-1972) at a cost of Rs. 9,84,500—

The World Bank has insisted to switch over from the present conventional lines to commercial lines. Messrs. Tata Consulting Services, have, therefore, been appointed as Consultants for the same (S.C.R. No. 1795 of 23-10-72) at a cost of Rs. 7,75,000. Messrs. Tata Consulting Services have also been appointed as Consultants for the Project Management system (S.C.R. No. 1997 of 16-11-1972) at a cost of Rs. 90,000. All the consultants were working at the end of the year.

(B) Land Acquisition :—

The following cases were pending with Special Land Acquisition Officer :—

Serial No.	Village & purpose.	Area to be acquired.	Land belongs to	Remarks.
A. G. A.				
Pipe laying				
1	Amne BTS/LAQ/11	10-20-00 42,490.00 S. Mts.	Private.	Award declared and possession handed over to Corporation.
2	Pise BTS/LAQ/9 for pipe laying and road.	7-30-12 31,434.84	Private.	Award declared and possession handed over to Corporation.
3	Vasundri BTS/LAQ/28	8-12-05 33,619.60	do.	Pending with S. L. A. O. Notification 4.
4	Janwal BTS/LAQ/22A	5-38-08 24,123.56	do.	Pending with S. L. A. O. Notification 6.

Serial No.	Village & purpose.	Area to be acquired.	Land belongs to	Remarks.
		A. G. A.		
5	Lonad BTS/LAQ/22	32-07-12 1,30,286.84	Private	Pending with S. L. A. O. Notification 6.
6	Bhawale BTS/LAQ/22B	9-12-27 38,689.24	do.	do.
7	Yewai BTS/LAQ/22C	10-08-15 41,372.80		Pending for award.
8	Bhinar BTS/LAQ/22D	0-06-08 656.56		Award declared and possession given to Corporation.
		Inspection bungalow.		
9	Pise BTS/LAQ/29	0-23-08 2,378.56		At preliminary stage with S.L.A.O.

Government Lands :

Correspondence to grant government land for laying pipes measuring 76,052.84 sq. mts. was in progress. Government is also requested to lease out temporarily lands measuring 64,543 sq. mts. required for stacking materials, construction of contractors camp, etc.

C—Works in Progress.

Serial No.	Name of the work.	Name of the contractors.	S.C.R. No. and date	Amount spent till 31-3-73.		Remarks.
				Rs.	Rs.	
1	Work of construction of water-bound-macadam Road, with asphalt grouted surface from Pise to Sawad, laying 200 mm. dia. M.S. main from Babgaon to Pise and construction of R. C. C. Bridge over Amne Nallah near village Amne.	Messrs. The Hindustan Const. Co. Ltd	3843 of 22-3-72	41,75,347.84	12,45,989.84	47.30% work is done during the year.
2	Work of construction of water-bound-macadam road with asphalt grouted treatment from village Sawad to Yewai, laying 200 mm. dia. m.s. main from Sawad to Yewai.	Messrs. Union Const. Co.	1154 of 9-8-72	33,62,306.85	9,21,095.25	31.60% work is done.
3	Construction of staff quarters & office-cum-guest house at Pise	Messrs. Desai Lallubhai Const. Co.	1301 of 23-8-72	11,32,976.43	1,28,559.55	26% work is done.
4	Renovation of Old Bombay Agra Road from Mulund Colony to Vehar Lake.	Messrs. P. C. Banerjee & Co.	1155 of 9-8-72	3,69,834.87	2,86,929.48	Work completed on 7-3-1973. Final bill is under preparation.
5	Site investigation for 'S' Scheme (including works at Bhandup Complex).	Messrs. Shri Sainath Const. Engg. & Trading Co.	453 of 24-5-71	1,75,350.00	1,52,571.20	Work completed on 28-7-1972.

PART—VII.

MISCELLANEOUS WORKS

1	Replacing 2-57" dia. existing pipelines between Bandra & Dharavi by 2-1800 mm. dia. pipelines (a) Laying work.	Messrs. R. N. Ghanekar & Co.	2939 of 5-1-68	20,81,514.75	16,27,341.85	Work is completed on 15-6-71 and final bill passed for payment.
2	Laying additional 1800 mm. dia main between Dharavi and Haines Road along Tulsi Pipe Road.	Messrs. Eastern Associated Const. Co.	2916 of 13-1-71	26,84,598.00	4,44,485.17	Work started on 25-3-71 and is stopped by contractors.
3	Replacing 57" dia. Tansa mains between Bandra & Santa-cruz by 2-1800 mm. dia. Pipeline	Messrs. Janak Const. Co.	3698 of 24-3-71	29,63,121.00	12,27,025.52	The work is started on 24-4-71 and is in progress.
4	Laying additional 1800 mm. dia. main along Senapati Bapat Marg from Kakasaheb Gadgil Marg to Dr. E. Moses Marg.	Messrs. C. M. Shah & Co. Pvt. Ltd	4039 of 29-3-72	31,32,873.17	3,69,915.32	The work is started on 5-10-72 and is in progress.

H. N. CHAVAN,
Project Engineer
(Incharge)

CITY ENGINEER'S DEPARTMENT.

Summary of the Administration Report of City Engineer's Department for the year 1972-73 giving important statistical information.

	Rs.
I—(a) Expenditure	
(a) Expenditure incurred on execution of works from Loan Works Budget ...	6,71,96,619
(b) Expenditure incurred on execution of works for maintenance of properties etc. from Revenue Budget ...	4,85,35,526
(c) Expenditure on Establishment ...	9,81,11,212
(d) Expenditure on other heads—	
(i) From Loan Works Budget ...	2,00,73,112
(ii) From Revenue Budget ...	4,15,97,120
Total Rs.	27,55,13,589

	Rs.
(b) Revenue :	
Revenue earned by the Department during the year 1972-73. ...	2,48,87,650

II.—Achievements :

	Building Construction Section	
	No. of works completed	No. of works in progress
(a) Housing (No. of tenements) ...	85	1246
(b) School Building. ...	8	24
(c) Markets. ...	2	2
(d) Hospitals, Maternity Homes & Dispensaries. ...	3	12
(e) Other building works. ...	7	13

	Road Construction Section	
	No. of works completed.	No. of works in progress.
(a) Road surfacing in Asphalt Concrete ...	9	2
(b) Road surfacing in cement concrete. ...	4	2
(c) New roads including S. W. drains ...	19	19
(d) Road widening. ...	27	27
(e) Other miscellaneous works. ...	6	4

	Drainage Construction section	
	No. of works completed.	No. of works in progress.
(a) Sewer Works ...	23	42
(b) Pumping Station ...	1	1
(c) S. W. Drains. ...	...	...
(d) Nallas. ...	11	6
(e) Miscellaneous works ...	7	19

Private Building Construction Section

	Under Section 337	Under Section 342
1. No. of New Building proposals received ...	2561 Nos.	1432 Nos.
2. No. of Building proposals passed ...	2228 Nos.	909 Nos.
3. No. of proposals for non-residential buildings received ...	...	399 Nos.
4. No. of Residential Buildings constructed by—		
(a) Private parties ...	1229 Nos.	
(b) Co-operative Societies ...	494 Nos.	
(c) Employers for their employees ...	43 Nos.	

Slum Improvement Section

Various works such as provision of sanitary blocks washing places, passages, lights, water-mains etc. were carried out in 56 colonies of Slum dwellers for improving the living conditions thereat.

Slum Clearance Section

(i) No. of slums cleared and development completed so far	...	24
(ii) No. of slums under clearance and redevelopment in stages as on 31-3-1973	...	3
Tenements under Government of India subsidised slum clearance scheme :—		
(a) No. of tenements completed upto 31st March 1973	...	5190
(b) No. of New tenements started during the year	...	290
(c) No. of tenements in progress during the year	...	290

Asphalt Plant and Crushers.

(i) Area of footpath and roads asphalted	...	2,21,095 Sq.m.
(ii) Area of roads and footpath repaired & renewed (exclusive of potholes and trenches)	...	2,12,460 sq.m.
(iii) The total output of the crushers	...	3,534 brass metal

Public Street Lighting

20,699 electric street lamps, 14 policemen spot lights and 14 lights (lamps) along the Railway foot over bridges at Chowpatty, Marine Lines, Charni Road, Byculla and Dadar Stations were maintained by this department.

Mechanical Branch

(i) No. of jobs attended by Municipal workshop	...	2142
(ii) No. of jobs attended by Municipal Foundry	...	264
(iii) No. of out-door jobs executed by Design Section	...	1380
(iv) No. of Medical Institutions of the Corporation to whom washing services were rendered by Municipal Power	...	43
No. of linen of 43 Institutions washed by Laundry	...	58,80,671

Electrical Branch**1. Building Construction Section.**

(a) No. of works completed by contract	...	25
(b) No. of works in progress by contract	...	32

2. Plant and Machinery Section.

(a) No. of jobs executed departmentally	...	455
(b) No. of jobs executed through contractor	...	329

3. Refrigeration Section

(a) No. of works executed	...	67
---------------------------	-----	----

Transport Branch

626 vehicles were used for rendering various civic services as detailed below :—

(i) No. of VIP cars, staff cars and committee cars.	...	19
(ii) No. of vehicles for health services	...	84
(iii) No. of vehicles for conservancy services	...	229
(iv) No. of vehicles for water works	...	28
(v) No. of vehicles for meat van services	...	41
(vi) No. of vehicles for encroachment removal services	...	19
(vii) No. of vehicles for Administrative service	...	27
(viii) No. of vehicles for Miscellaneous Departmental services	...	160

Conservancy Branch

(a) No. (in Tonnes) of refuse and other waste matter removed	...	8,09,092
(b) Total vehicles shifts employed for removal of Refuse	...	1,44,553
(c) No. of public latrines maintained	...	1,292
(d) Total number of Urinal stalls maintained	...	1,121
(e) No. of Welfare centres working for the benefit of Conservancy employees	...	19

Acquisition of Land

(a) Possession of properties obtained through the Land Acquisition proceedings	18
(b) No. of properties acquired by negotiations	26
(c) Proceedings under Land Acquisition act in respect of properties in progress	177
(d) Proceedings to acquire lands by negotiations in respect of properties, in progress	152

Implementation of Town Planning Scheme

(a) No. of plots taken by the Corporation	152
(b) No. of plots handed over to the owners	37
(c) Details of execution of T. P. Schemes	...

Nature of the work.	No. of works	Actual expenditure incurred between 1-4-72 to 31-3-73
		Rs.
(i) Building works
(ii) Roads Works	3	3,03,411
(iii) Drainage Works	5	7,86,159
(iv) Any other works	4	36,56,948
(d) Total Expenditure incurred on T. P. Scheme works	...	47,46,518
(e) Amount of contribution charges collected	...	12,25,996
Maintenance of Municipal properties, Roads, Footpaths and Drains.		
(i) No. of Municipal Buildings maintained.	...	4389
(ii) Total length of roads maintained.	...	1053.10
(iii) No. of works carried out.	...	3371
(iv) Length of House Drains cleaned in Metres	...	17,33,652
(vi) Length of pipe sewers cleaned in Metres.	...	5,96,769
(vii) Quantity of silt removed from drains in Tonnes.	...	16,584
(viii) Quantity of silt removed from pipe sewers in tonnes.	...	8,613
Supervision of Private Buildings Factories.		
1 No. of notices issued under different sections of Bombay Municipal Corporation Act for rectifying defects or removing irregularities.	...	8213
2 No. of notices complied with.	...	2589
3 No. of notices pending.	...	5624
4 No. of unsafe buildings or portions thereof removed departmentally under section 489 of the Bombay Municipal Corporation Act.	...	158
5 No. of actions taken departmentally.	...	583
6 No. of Authorities granted to the tenants under section 499 of the Act....	...	173
7 No. of tenants who took advantage of the authorities.	...	1880
8 No. of unauthorised structures in respect of which action was taken.	...	10992
9 No. of unauthorised structures removed by parties.	...	900
10 No. of unauthorised structures removed departmentally under section 352 A of the Act.	...	2173
11 No. of cases in which action was dropped	...	329
12 No. of new factory permits issued.	...	1706
13 No. of old factory permits renewed	...	3381
14 No. of prosecutions launched against factory owners.	...	1906
15 No. of prosecutions decided in favour of the Corporation.	...	1484
16 No. of prosecutions pending	...	579
17 Amount of fine recovered	...	49,255
18 Total amount of revenue collected	...	11,25,235
(iii) Suggestions for remedying any deficiencies.
(iv) Such other special information.

J. R. PATWARDHAN,
B.E. (Civil), M.E. (P.W.) A.M.C.I.E.
City Engineer

CITY ENGINEER'S DEPARTMENT

Shri G. Naganna, B.E. (Civil), continued to hold office of the City Engineer upto 20-7-72 and thereafter Shri J. R. Patwardhan, B. E. (Civil), M. E. (P.H.), A.M.I.E., held that office upto the end of the year.

CITY SECTION

There was no occasion to invoke provisions of the Bombay Municipal Servants Act 1890.

The Award regarding the disputes raised by the Bombay Municipal Executive Staff over the revision of grades, allowances etc. of out door categories such as overseers etc. was given by Justice Shri Tuljapurkar.

Registration of Contractors for execution of Municipal Works

In pursuance of the Corporation Resolution No. 468 of 27-6-72, the system of inviting tenders for civil and electrical works, only from the contractors registered on Municipal approved list of contractors so as to ensure quality in workmanship etc. and to prevent malpractices in securing Municipal works was brought into effect from 15-3-73. The allotment of suitable classes in the various categories of works is being decided by a committee of officers for Registration appointed by the Municipal Commissioner. The registration will be a continuous process and although tenders will be invited by public advertisement copies will not be issued to unregistered contractors. About 170 firms got themselves registered in different categories upto 31-3-1973.

Temporary fire stations in Greater Bombay

On account of switching over to peace-time standards in civil defence towns, The Director of Civil Defence has agreed to hand over to the Municipal Corporation some fire fighting equipment including fire engines and trailer pumps etc. As the fire-fighting facilities, particularly in the Suburbs are in adequate, it has been proposed to construct temporary fire-stations at 5 places in the Suburbs using the equipment offered by the Civil Defence Organisation. Accordingly 3 fire-stations were proposed to be constructed on the Municipal housing colonies at Dharavi, Raoli Camp and Deonar where ready-made quarters for fire-men are available. 2 more fire-stations were proposed to be developed in the colonies of the Maharashtra Housing Board at Coregaon (West) and Malad.

L—PLANNING BRANCH

L—(A) PLANNING (Architectural.)

During the year under report this section prepared plans & estimates in connection with different building works & housing as summarised below:—

Particulars.	General Building works in City.	Housing in Greater Bombay.
(i) Contract Plans.	22	6
(ii) Cloth Tracing. ... ..	...	2
(iii) Paper Tracing.	283	29
(iv) Blue Print Copies.	5797	970
(v) Block estimates.	11	3
(vi) Total amount of Block estimates.	Rs. 87,67,602	Rs. 52,92,666
(vii) Detailed plans and estimates completed in all respects (as shown below).	23	5
(viii) Total amount of detailed estimates	Rs. 1,88,64,059.90	Rs. 24,85,413
(ix) No. of tenders invited.	23	10
(x) No. of contracts awarded.	13	3
(xi) Detailed estimates in hand.	6	1
(xii) Total approximate cost of detailed estimates in hand. ...Rs.	48,91,289	Rs. 5,00,000

Particular of detailed plans and estimates completed in all respect referred to above.

Particulars.	No. of estimates	Estimated cost.
(a) Schools (Permanent).	5	Rs. 55,90,152.60
(b) Schools (Temporary). ... ..	...	...
(c) Centralised Ward Offices.	2	41,35,135.00
(d) Markets.	1	6,97,924.00
(e) Hospitals, Maternity Homes, and Dispensaries.	6	71,28,263.70
(f) Miscellaneous.	9	13,12,584.60
Total	23	1,88,64,059.90

L—(B) PLANNING (BRIDGES)

The abstract of the work done during the year:—

Particulars	Details of plans and estimates prepared
(i) Contract Plans	20
(ii) Cloth Tracing ... ..	...
(iii) Paper Tracing	24
(iv) Blue Print Copies	162
(v) Block Estimates	8
(vi) Total amount of block estimates	Rs. 2,92,60,000
(vii) Detailed plans and estimates completed in all respects	6
(viii) Total amount of detailed estimates	Rs. 1,43,38,785
(ix) No. of Tenders invited	3
(x) No. of works entrusted to Railways	4
(xi) Detailed estimates in hand	5
(xii) Total approximate cost of detailed estimates	Rs. 1,09,50,000
(xiii) Scrutiny of plans received from—	
(a) Railways	8
(b) Private parties	3
(xiv) Scrutiny of estimates received from Railways	3

L—(C) CIVIL DEFENCE CELL

Civil Defence Cell was created on 7th June 1971 to prepare an effective operation paper plan for orienting performance of the obligatory and discretionary functions to Civil Defence needs. In addition to the above, during the peace time this cell has been entrusted with the work of vigilance with effect from 1st June 1972, in mechanical and electrical branches of Municipal Corporation. Details of works carried out by the Mech. electrical vigilance section is given below:—

(A) 1. No. of sites and plants visited	48 Nos.
2. Total cost of works inspected	32 lakhs.
3. No. of staff proposals attended	6 Nos.
4. No. of cases investigated	5 Nos.
5. No. of proposals and specifications of plant and Machinery etc. verified	10 Nos.

(B) WORKS DONE BY THE CIVIL DEFENCE CELL

- (1) Preparation of paper plan for disposal of dead bodies was under process.
- (2) Preparation of paper plan for disposal of dead animals was under process.
- (3) Preparation of paper plan for safety of animals in Victoria Garden was under process.
- (4) Preparation of paper plan for rescue, repairs and demolition of houses was under process.
- (5) Preparation of Operational plan for key industries was under process.
- (6) Plans have been prepared showing the details such as Civil Defence control Station, Main operation centres, Sub operation centre, Municipal Workshop, Transport Garages, Ward Offices, Purification plants Pumping stations in City, Subs. and Extended Suburbs.
- (7) Submission of quarterly and half-yearly progress reports to the Director of Civil Defence and Controller of Civil Defence Bombay.
- (8) Training programme arranged in Civil Defence basic course at Maneckshaw staff training college Dhobitalao for Municipal Staff—80 Nos.

In addition to the above, following famine relief works have been carried out by the cell:—

From various parts of Maharashtra State a number of famine affected persons migrated to Bombay. On humanitarian ground, the Corporation passed a Resolution No. 1928, dated the 11th December 1972 to rehabilitate temporarily these migrated persons. Executive Engineer (Civil Defence) was entrusted with the erection of camps and providing job opportunities to famine affected persons. A camp was erected near Agra Road (Municipal Camp) to accommodate 600 families at a record time of 30 days. At camp site, basic amenities such as bamboo matting, huts of area 120 sq. ft. to each family, water supply, street lighting, trench latrines, medical aid, school, ration shop, weekly film show etc. were provided. In addition to the above, Corporation has also provided works to the inmates at a total estimated cost of Rs. 14,30,000. The Supervisory staff to carry out the above works was drawn from upper Vaitarna Scheme under P. E.'s Department. Famine relief camp activities were carried out under the guidance of D. M. C. (S.E.)/H.E.

L—(D)—REPAIRS BOARD CELL

Two Assistant Engineers with four Sub-Engineers were working in this Cell under the guidance of the City Engineer.

This Cell has been created in May 1970 for doing such work as will help the members representing the Corporation on the Bombay Building Repairs and Reconstruction Board to play their roles effectively and also to collect such information as they may need for giving effect to the provisions of Bombay Municipal Corporation Act, concerning the repairs actions as enunciated under Section 58 of Bombay Building Repairs and Reconstruction Board Act 1969.

The board features of the work done by the staff working in the Repairs Cell during the period under reference are as under :—

- (1) Preparation of Agenda Notes for Board's meeting held every month (12 Nos.).
- (2) Scrutiny of the proposals under Section 33(3) of the Board's Act (75 Nos.) Scrutiny of the draft schemes submitted by the Repairs Board for reconstruction of Building (49 Nos.) Replies to State Government after the Notice of acquisition is issued in a Gazette.
- (3) Site inspection of the locations of the buildings which were to be undertaken by the Bombay Building Repairs and Reconstruction Board for structural repairs (1250 Nos.). The inspections were necessary to determine the admissibility of structural repairs to such buildings viz. the D. P. Reservations, Regular line Road widening Schemes etc.
- (4) Replies to interpellations, short Notice Questions and notices of motion by the members in the Corporation and in the different committee meetings. Replies to Assembly Starred Questions referred to by the State Government. During the period under report 21 references were replied.
- (5) Comments on the proposals referred by Building Section in the light of discussions that took place on certain individual cases in Board's monthly meeting.
- (6) Sending copies of Repairs works administratively approved by the Repairs Board in their monthly meetings to the respective City Ward Officers and Dy. City Engineer, Zone I for information and for taking steps in the case of works under execution, which are a deviation from the approved schemes.
- (7) Scrutiny of the proposals referred by the State Government for exemption of Repairs Cess under Section 28(m), conducting enquiries in respect of the same and submitting inspection reports with the findings of enquiries to the State Government. During the period under report 29 references were submitted to State Government comprising 451 buildings.

I—(E) SLUM IMPROVEMENT CELL

The Slum Improvement Cell was created on 5th July 1969 and was put under the control of an independent Ward Officer who worked directly under the Municipal Commissioner. The cell is since placed under an Executive Engineer who works directly under the City Engineer. This cell primarily deals with the problems of unauthorised huts on Municipal lands and has two fold functions viz. —

- (1) Improving existing slums by providing essential civic amenities like water, sanitation, electricity and pucca passages.
- (2) Creating new colonies with a similar or better amenities by shifting existing hutments from Municipal plots and roads required for immediate development.

IMPROVING EXISTING SLUMS

To improve the conditions of existing hutment dwellers' colonies on the Municipal lands not immediately required for any development projects the Corporation provides essential amenities therein such as sanitary blocks, roads, passages, water connections, street lights and welfare centres. To maintain these services and ensure general cleanliness necessary staff is appointed.

NEW COLONIES

New colonies are created by shifting existing ones from plots which are required for development immediately. Under this scheme each hutment dweller is allowed a pitch (15' x 10') 4.56 R.M. x 3.04 R.M. where he can erect his own structure.

For provision of civic amenities so far 56 colonies have been selected. These colonies were taken up as under :—

1969-70	=	8
1970-71	=	10
1971-72	=	10
1972-73	=	56

In 1972 Central Government offered a helping hand by making a grant of Rs. 1,57,71,632 for improvement of slums on Municipal land and therefore all the 56 colonies were taken up for provision of civic amenities. In addition, Government also sanctioned Rs. 39,68,659 for construction of 9 transit Camps. The works in 56 colonies and 9 transit camps were practically completed.

Uptill now under slum Improvement scheme the Corporation have provided 4546 w.cs.; 1492 Water taps; 97870 sq. meter paved passages, 35000 meter long drain and about 400 street lights.

COMPENSATION

In the case of existing colonies a hutment dweller has to pay compensation charge of Rs. 5 p.m. for (100 sq. ft.) 9.30 sq. mtrs. Subject to the minimum of Rs. 8 p.m. In the case of land used for business purposes the charges are Rs. 16 p.m. The recovery of compensation charges is started only after 50 per cent. of amenities are provided. Transfer fee is Rs. 50.

In the case of newly developed colonies compensation charges are Rs. 10 p.m. per hut for (100 sq. ft.) 9.30 Sq. Mstres. Subject to the minimum of Rs. 15 p.m. for residential purposes and for business purposes the charges are Rs. 20 p.m. per (100 sq. ft.) 9.30 Sq. Metres. The transfer fee is Rs. 200.

The cell at present deals with preparation of scheme plans, estimates and execution of the various construction works for the hutment colonies.

WELFARE PROJECT

In addition to the civil amenities numerous social welfare services are also necessary. As a modest beginning welfare and family planning centre have been started at 2nd October Colony; Dr. E. Moses Road Colony and G Ward Colony. These Centres look after community sanitation, health and medical relief—better nutrition for pregnant women, pre-Schools attention to children etc.

The progress of the work done by the slum Department so far is given in Appendix No. 1.

I—(F) SLUM CLEARANCE BRANCH

This branch is mainly concerned with the following functions:—

- (1) Preliminary Survey of Slum areas, declaration of Slum areas as "Clearance Areas", making of clearance orders and "Compulsory Acquisition Orders" under provision of Section 354-R of the Bombay Municipal Corporation Act.
- (2) Acquisition of Slum properties falling under Clearance Areas.
- (3) Formation of schemes for development of clearance areas with financial assistance from Government under the Government of India's Slum Clearance Scheme.
- (4) Claiming financial assistance of loan and subsidy from Government and maintaining the record of the same.
- (5) Taking preliminary steps for declaring 'Clearance Areas' under section 354-R of the Act for enabling the Bombay Building Repairs and Reconstruction Board to carry out repairs and reconstruction scheme under the Board's Act.

However, the Chief Executive Officer of the Bombay Building Repairs and Reconstruction Board has intimated the Board's decision to develop all the listed Slum Areas, bearing No. 1 to 144 for which this office has requested the Board to submit the priority list of the listed slums which the Board can develop during the next 3 years. The Board's decision was awaited.

As regards the old schemes the position is as under:—

'A'—Clearance of Private Slums

Name of the Clearance Area.	Progress
1 Dhobi Chawls at Lala Nigam Road, Colaba, 'A' Ward.	The owner were allowed to develop the property after providing alternative accommodations to the existing tenants in the year 1960. The owners uptill now could not succeed in developing the properties due to disputes between them and the tenants. The disputes were still pending disposal at the Small Causes Court. Corporation cannot do anything with this scheme until the court matter is settled.
2 Hirvi Chawls, Arthur Road, Tardeo, 'D' Ward.	This property has been acquired in 1962. But the clearance of this area and its further development as recreation ground, according to development plan was pending due to un-willingness of tenants to shift elsewhere, and as they insisted on alternate accommodation in the same area, which request could not be acceded to so far by the Corporation.
3 Gora Gandhi and Ganjawalla Chawls, Tardeo, 'D' Ward.	The possession of the properties was received from the Special Land Acquisition Officer (7) on 31-12-1969. The inventory work of slum dwellers was completed and their list sent to W. O. 'D' Ward for recovery of rent, etc. Completed inventory forms of Gora Gandhi and Ganjawalla Chawls, Slum-dwellers were sent to W. O. (Estates) for record. Due to lack of alternative accommodation and financial stringency, negotiations to get this area developed through Bombay Building Repairs and Reconstruction Board were started. Final decision was still awaited.
4 Papanus Wadi, August Kranti Marg, 'D' Ward.	This area was declared as 'Clearance Area' under Section 354-R of Bombay Municipal Corporation Act vide C. R. No. 1957 of 14-12-1972.
5 Sherichi Wadi at Forjett Street, 'D' Ward.	After completing all the formalities of the act in respect of the Acquisition of this area under Section 354-R of the Bombay Municipal Corporation Act, Government were informed to appoint the Special Land Acquisition Officer for conducting acquisition proceedings. Accordingly, the correct boundaries of the part properties under acquisition in this area were jointly surveyed and demarcated with Collector's staff recently. The possession of the Clearance area was awaited.
6 Sarkari Tabela at Jagannath Shankarshet Road, 'D' Ward.	Since the Bombay Building Repairs and Reconstruction Board desired to develop this scheme under the Board's Act, Corporation's final approval for handing over this scheme for further implementation under the Board's Act was sought for. The Corporation approved the proposal under C. R. No. 1943 of 14-12-1972.

Name of the Clearance Area	Progress
7 Sector M1, Kamathipura, 'E' Ward.	Construction work of 45 tenements with 12 shops in the remaining part of this area which was stopped as the contractors left the work half done, was completed by another contractor at the risk and cost of the defaulting contractors and tenements and shops were allotted by W. O. (Estate).
8 Sectors B1 and B2 of Kamathipura, 'E' Ward.	Except a few shops still existing in Sector B2 Area, both the Clearance Area viz. B1 and B2 Sectors were already cleared and fenced. Tenders for construction of tenements and shops as per revised plans were invited by Dy. C.E. (P & D).
9 Sector C1, D1, G2 and N1 Kamathipura, 'E' Ward.	Special Land Acquisition Officer (7) has handed over the possession of properties except one in all these sectors. Inventory works of Slum dwellers was mostly completed and their list sent to W. O. 'E' Ward for recovery of rent. Besides, the Government was pleased to release only the property where the 'Vithoba Temple' is existing (i.e. C. S. No. 393 of Byculla Division) in G2 Sector and advised that, if necessary, undertaking from the Trustees of the abovementioned property may be taken. In view of the Government's orders W.O. (Legal) has been requested to furnish the wording of the terms and conditions of the undertaking to be taken from the Trustees.
10 Match Factory Lane, Kurla, 'L' Ward.	Development of this area which was acquired on 27-10-1966 was deferred for want of funds in the past. Preparations of revised plans and estimates for the construction of 540 multistoreyed tenements in two phases were completed for inviting tenders.
11 Sector F : Jawahar Nagar, Khar (East) 'H' Ward.	This scheme forms a part of the Western Express Highway Slum Clearance Redevelopment and Rehabilitation scheme of Maharashtra Housing Board, and steps were being taken by the Maharashtra Housing Board for its development.
12 Sector 'A' of Koliwada, 'A' Ward.	All formalities of the compulsory acquisition of this area were completed. But the Scheme was deferred for 5 years vide C. R. No. 971 of 12-8-1970 for want of alternative accommodation. Since the Bombay Building Repairs and Reconstruction Board was interested in developing this scheme under the Board's Act, Corporation's approval was applied for Accordingly Corporation has approved the proposal vide C. R. No. 1943 of 14-12-1972.
13 Kach Karkhana Chawls, G. D. Ambekar Marg, F/North Ward.	All the formalities of the compulsory acquisition order were completed and also became operative from 14-1-1971. The Municipal Commissioner visited this area and decided that if the tenants, are willing to pay a rent over Rs. 40 per month per new tenement on site then alone the area may be acquired and developed by the Corporation, other wise the scheme may be dropped. Accordingly, the tenants have agreed to pay a rent of Rs. 40 per month and submitted their affidavits to that effect.
14 Sector O-2, Kamathipura, 'E' Ward.	The Chief Executive Officer of the Board has intimated the Board's decision to develop all the listed Slums 1 to 144 including this slum. The Corporation has also approved the proposal vide C. R. No. 1943 of 14-12-1972.
15 Tolly Gully near Kala Chowkey, Lalbaug, 'E' Ward.	The Board has intimated to develop all the schemes 1 to 144 under the Board's Act. The Corporation have approved the proposal vide C. R. No. 1943 of 14-12-1972.

For want of alternative accommodation and financial and other difficulties, no work on preliminary survey of any slum areas to be developed under Slum Clearance Scheme in future by the Corporation was undertaken. However, with the limited staff the progress of all the schemes in hand was maintained.

As the Bombay Building Repairs & Reconstruction Board considered to develop all listed slums areas under Section 38(1) of the Board's Act read with Section 354-R of the Bombay Municipal Corporation Act after declaration of the areas by the Corporation, necessary steps were taken with additional staff taken on loan temporarily from other sections, in respect of the following slum areas in the City.

- (a) Bakri Adda, N. M. Joshi Marg, 'E' Ward.
- Originally, it was intended to get this area declared as a "Clearance Area" for development by the Corporation under Slum Clearance Scheme. However, due to abnormal number of spill over tenants and huge cost of acquisition and development, it was proposed to defer this scheme. There after, as desired by the Bombay Building Repairs & Reconstruction Board a fresh proposal to declare the area as a "Clearance Area" under Section 354-R of the Bombay Municipal Corporation Act to enable the board to implement the scheme under the Board's Act was put up for the Corporation's approval which the Corporation approved under C. R. No. 993 dated 11-10-1971. The Government and the Bombay Building Repairs & Reconstruction Board were intimated accordingly.

As desired by the Board, the inventory of the tenants thereof was also made. The board is to take further necessary steps.

- (b) Siddik Chawls at Bawani Shankar Road (G-North Ward). This area is a part of listed Slum No. 134 of G/North Ward. After taking necessary preliminary steps the area was declared as a Clearance Area by the Corporation vide C. R. No. 932 dated 11th October 1971 to enable the Bombay Building Repairs & Reconstruction Board to implement their scheme of Repairs and Reconstruction under the Board's Act. The Government and the Board were also intimated accordingly. Inventory of the tenants was made as desired by the Board. The Board is to take further necessary action.
- (c) Remaining western part of listed slum No. 134 of G/North Ward. Plans for this area were under preparation for the purpose of making a preliminary survey of this area. It was however decided not to go ahead for declaring this area as clearance area as it falls in T. P. Scheme IV Mahim.
- (d) Old Kumbhar Chawl at Curray Road Low-Level (F/South Ward). This area is listed slum No. 105 in F/South Ward. After taking necessary preliminary steps the area was declared as a Clearance area by the Corporation under C. R. No. 237 of 7th May 1971 to enable the Repairs Board to implement their scheme of Repairs and Reconstruction under the Board's Act. The Government and Board were also intimated accordingly. Inventory of the tenants was made as desired by the Board. The Board is to take further necessary action.
- (e) Listed Slum No. 83, Muzgaon, Division (Near Wallace Flour Mills), 'E' Ward. A plan of this area was prepared for survey purposes and the preliminary Survey purposes and the preliminary Survey of this area was made. As the area is partly reserved for expansion of J. J. Hospital, etc. correspondence with the Bombay Building Repairs & Reconstruction Board in connection with further action to be taken was in progress.
- (f) Old Banglipura at Lokmany Tilak Marg, (B Ward). This area is listed Slum No. 21, in B Ward. After necessary preliminary steps of preparation of plans a proposal to declare this area as a 'Clearance Area', was put up to the Corporation. Accordingly, the Corporation declared this area as a Clearance Area under C. R. No. 1246 of 21st August 1972.
- (g) Parel Village at F/South Ward. This area is a listed Slum No. 113 in F/South Ward. After taking necessary preliminary steps a proposal to declare this area as a Clearance Area was submitted to the Corporation. The Corporation approved the proposal and declared this area as a clearance Area under C. R. No. 1158 dated 10-8-1972.
- (h) Listed Slum No. 30 known as Gulvadi Area in C Ward. The plans of this area were prepared and preliminary Survey was made. The proposal to declare the area as 'Clearance Area' was submitted for the approval of the Corporation.
- (i) Listed Slum No. 193 known as K. Choli Chawl in F/South Ward. Plans for this entire area were prepared and preliminary survey was made. Inventory of the tenants was also completed. The Corporation declared this area as a 'Clearance Area' under C. R. No. 2000 dated the 11th January 1973.
- (j) Listed Slum No. 106 known as A. Anavali at G. D. Anand Marg in F/South Ward. Plans for this area were prepared and preliminary survey also made. The proposal to declare this area as Clearance Area was put up to the Corporation. The Corporation's decision was awaited.

B.—Municipal Slums

No. of Slums declared and development completed so far.	No. of slums under clearance & re-development in stages as on 31-3-1973.
24	3

C.—Tenements under the Government of India's Subsidised Slum Clearance Scheme.

No. of tenements sanctioned till 31-3-1973	No. of tenements completed during the year.	Total No. of tenements completed upto 31-3-1973.	No. of New tenements started during the year.	No. of tenements in progress during the year.
6098	80	5190	290	290
			(50 tenements at Body Guard Lines, 230 tenements at Rawali).	
No. of tenements not started.	Remarks			
618	1. Works of 32 tenements is held up because the site is encumbered with hutments. 2. The project of 100 tenements is dropped vide Government Resolution No. SCS/286)/F of 11th March 1969.			

D.—Financial Assistance of Loan and Subsidy received from Government under subsidised Slum Clearance Scheme.

LOAN				Rs.
Previously received upto 31st March 1972	...	...	...	1,26,34,806
Received during the year under report	...	...	...	Nil.
SUBSIDY				
Previously received upto 31st March 1972	...	...	...	1,51,03,418
Received during the year under report	...	...	...	Nil.
				1,51,03,418

I (G).—Municipal Material Testing Laboratory.

The following statement shows the Nos. of various samples tested in the M. T. Laboratory, Worli during the year 1972-73 and the total cost thereof actually recovered on account of testing these materials for departmental works, Government works and private works.

STATEMENT NO. 1

Nos. of Samples Tested.

Particulars of Samples.	NO. OF SAMPLES ACTUALLY TESTED			Total Nos.
	Departmental Works	Government Works	Private Works	
Concrete	3063	3714	2890	9672
Bricks	969	183	36	1188
Cement	149	3	10	162

STATEMENT NO. 2

Cost recovered on A/C Testing.

Particulars of Samples.	Cost of Testing actually recovered in Rs.			Total Rs.
	Deptt. Works	Govt. Works	Pvt. Works	
	Rs.	Rs.	Rs.	Rs.
Concrete	775.00	18,570.00	28,900.00	48,245.00
Bricks	9,690.00	1,830.00	360.00	11,880.00
Cement	10,965.00	290.00	865.00	12,120.00
Total				72,245.00
Add. for Misc. Test and hire charges of Moulds.			...	2,232.00
			Total	74,477.00
Cost of testing of concrete and cement samples tested free of cost not recovered.			...	16,435.00
Net cost of work done.			...	90,912.00

II.—Construction Branch.

II.—(A).—Building Construction Branch Zone I.

This branch supervises the work of Building Construction in Zone I area after contracts are awarded by the Planning and Design Branch.

A synopsis of the work done by this branch during the year is given below :—

Particulars	Completed work		Works in progress.	
	Nos.	Actual cost	Nos.	Estimated cost
		Rs.		Rs.
1. Housing	3		3	
(a) Structures (Tenements 45)	1	3,38,693	8 (260 Tenements)	26,07,403
(b) Pile foundation for Tenements	2	2,64,000	...	...
2. Buildings other than housing				
(a) School Buildings	4	24,68,440	3	23,66,083
(b) Markets	...	...	...	...
(c) Hospitals, Maternity Homes & Dispensaries	...	...	...	...
(d) Other building works	2	7,24,302	5	73,98,732
Total	9	37,95,435	11	1,23,72,218

Appendix No. 2 shows the works completed and those in progress

II—(B) Road Construction Branch Zone I

This branch is in charge of—

- (i) Preparing plans and estimates of resurfacing of existing roads, construction of new roads, widening of roads and improving private streets in City. (except F/North, G/North wards).
- (ii) Invitation of tenders and awarding contracts of road works.
- (iii) Supervision on road works.
- (iv) Invitation of tenders for the supply of road metals, quarry materials, bitumen, rubble filler powder, coarse sand, transporting of bulk bitumen and awarding contracts for the same.

During this year 14 estimates for resurfacing roads with asphaltic concrete, 2 estimates for construction of new roads and 2 estimates for widening of roads were prepared.

39 tenders for road works were invited and 23 contracts were awarded to the contractors for execution of the works.

173 tenders for the supply of road metals, quarry materials etc. for year 1972-73 were received and were under scrutiny.

A synopsis of the work done by this Branch during the year is given below :—

Particulars	Completed works.		Works in progress.	
	Nos.	Actual cost	Nos.	Estimated cost
		Rs.		Rs.
1. Road resurfacing work in Asphalt concrete.	7	27,99,803	2	9,45,452
2. Road resurfacing work in cement concrete	2	7,94,292	...	...
3. New Roads including S.W. drains	5	11,07,644	6	44,94,361
4. Road widening	10	4,58,211	11	27,69,850
5. Any other works	2	3,59,626	...	...
	26	55,19,576	19	82,09,663

Appendix No. 3 shows the Works completed and those in progress.

II—(C) Drainage construction Branch Zone I

This branch supervises the work of providing & laying underground sewers and S. W. Drains, improvement of Common House gullies and construction of pumping stations in Zone I area after contracts are awarded by the Planning and Design Branch.

A synopsis of the work done by this Branch is given below.

Particulars	Completed works		Works in progress.	
	Nos.	Actual cost	Nos.	Estimated cost.
		Rs.		Rs.
1. Sewer works	2	5,96,742	7	26,01,049
2. Pumping Station	...	...	...	...
3. S. W. Drain	3	60,000	4	43,99,680
4. Nallas	...	...	...	...
5. Miscellaneous	6	21,69,273	12	62,50,939
Total ...	9	28,26,015	23	1,32,51,658

Appendix No. 4 shows the progress of works of sewers and S. W. drains carried out through contracts during the year.

Appendix No. 5 shows the work completed and those in progress during the year.

Appendix No. 6 shows the details of the work of cleansing main sewers.

II.—(D) PUMPING STATIONS AND PURIFICATION WORKS.

(i) Colaba Purification Plant.

The following are the units under the supervision of Sub-Engineer, Colaba.

(A) Colaba Air Compressor Station and ejectors in the Southern part of Bombay.

(B) Afgan Church Pumping Station.

(C) Colaba Purification Plant.

(A) (1) The Compressors and severn ejectors worked satisfactorily during the year.

(2) Complete overhauling of all the three compressors and repairing to all machineries were carried out in the month of December 72 and February 73.

(3) Testing of the Transformer Oil and overhauling of all the electrical equipment was carried out. (3 & C). Afgan Church Pumping Station and Colaba Purification Plant.

1. 2) H. P. electric Motor of Aeration room No. 2 which was removed and sent to A. E. Electrical in March 72 for complete overhauling was fixed on spot in May 72.

2. M. S Cones of A Room No. 2 which were manufactured in Municipal Workshop were replaced by new one between May 72 and July 72.

3. Complete overhauling work of Power House and other electrical equipment was carried out in April 1972.

4. Complete overhauling work of Screw Pump of Digestion Tank No. 1 was carried out in the month of July 1972.

5. Complete overhauling work of Final settlement tank No. 1 was carried out in September 1972.

6. Four Nos. of 15" C. I. Gates for half retained type gate valve of common Chamber of P. S. Tanks No. 1 and 2 were got manufactured in Municipal Workshop and two were fixed on spot in October 1972.

7. Underground cable for pole lights in the compound of Colaba P. Plant was found defective. Therefore, overhead wiring work was carried out to all the 16 Nos. of Pole lights in the month of December 1972.

8. Complete overhauling work of 15" non-return valve on the 15" rising main in the compound of Afgan Church Pumping Station was carried out in the month of February 1973.

9. Complete overhauling work of P. S. Tank No. 2 was carried out in December 1972.

10. Steps were being taken to repair the gas meters.

11. Painting of iron and steel material was undertaken at least twice in a year as there is a lot of corrosion due to vicinity of sea as well as presence of H₂S in the surroundings.

12. The statement showing weekly and monthly figures of sewage, sludge and energy is given in

(ii) Love Grove Pumping and Purification Plant.**Pumping Stations.**

Pumping Station No. 1.—The Vertical Sulzer pumps as well as Vickers Gill Pumps were operated during the year. The two Vertical Sulzer Pumps were in operation for 4945 hours and two Vickers Gill Pumps for 4554 Hrs. and 30 minutes during the administration year. The pumping station No. 1 pumped out 49241.68 M. Litres of sewage water directly to sea. 2628.53 M³ of silt and 122.25 M³ of screenings were removed from the sewage.

Pumping Station No. 2.—Three pumps of pumping station No. 2 were operated during the year. They worked for a total of 14772 hours and 45 minutes during the year and discharged 1,11,480.50 M. Litres of sewage water during the year. Prior to pumping 112.07 M³ of screenings were removed from the sewage.

Sufficiently low levels of sewage were maintained during the night time in the fair season to facilitate work of cleaning the main sewers.

Purification Works

Detritus Plant.—Out of the two units, unit No. 2 was operated during the year and 687.12 M³ of screenings and 2163.55 M³ of silt were removed.

Treatment Plant.—The Primary settlement Tanks No. 1 and 2 were working satisfactorily through out the year.

- (1) Total sewage treated—27907.35 M. Litres.
- (2) Raw sludge pumped in Digestion Tanks.—155067.11 × 10³ Litres.
- (3) Digested sludge removed—9773.9 × 10³ Litres.
- (4) Gas generation—395775.50 M³.
- (5) Dried Sludge Manure sold—Nil.

Flood Gates.—The flood gates at L. G. P. Station, Cleaveland Bunder and Dharavi were operated during the year.

The following new works were in progress at L. G. P. Station.

(1) Guniting and painting with spray paint the main delivery duct from the bye pass chamber to a length of about 1000 ft. including the replacement of 8' × 6' dia. taper pipe from old steam pump house to the compound wall and 6' dia. pipe across the Dr. Annie Besant Road by 8' × 8' R. C. C. Duct.

The following new work was completed during the year at L. G. P. Station.

(1) Providing 8' × 8' and 6' dia. by pass ducts to divert the flow of pumping station No. 2 and No. 1 respectively to the flood gate chamber.

The following major repairs works were carried out during the year departmentally:—

- (1) Complete overhauling and repairs to both the flaps of the Central Flood Gate at L. G. P. Station.
- (2) Complete overhauling and repairs to M. Structures and scrapers of the central revolving mechanism and side raking arms of the Detritus Unit No. 1. The worm and worm wheel of the central revolving mechanism were delivered by Messrs. Dorr Oliver (India) Limited. The same were fitted on Detritus Unit No. 1 and satisfactory working trials of the same were taken.

(III) Dadar Purification Works

General.—Sewage Purification Works at Dadar functioned satisfactorily through out the year. Total quantity of sewage received for treatment at the plant during the year was 21546.75 M. Litres with an average of 59.03 M. Litres per day as against 25548.45 M. Litres with average of 69.8 M. Litres per day during the year 1971-72. Out of 59.03 sewage flow received per day for treatment 22.7 M. Litres approx. per day received secondary treatment and the remaining 36.33 M. Litres per day sewage received only primary treatment.

Sewage Pumping Station.—During the current year the sewage pumping station Dadar located within the premises of plant pumped 11517 M. Litres Sewage against 25548.45 M. Litres during 1971-72. The appendix No. 8 gives further salient features regarding operation performance of primary station.

Enclosed forced draft filter No. 1, 2, 5, M. G. D. (11.35 M.G. D.) Capacity.—The filter worked fairly well through out the year and turned out effluent having 74.6 P. P. M. B. O. D.

Filter No. 2 and 3:—2.00 M.G.D. (9.08 M. Liter.) Capacity.

These filters worked fairly well and turned out effluent having 91.8 ppm. of B. O. D.

Sludge Digestion Tank No. 1.—The diegestion tank worked satisfactorily throughout the year working at digestion period of 20 days. Resulting digested sludge was free from odour and was dried on open sludge drying beds without causing nuisance. During the year 29200000 cft. (826360 M³) gas was generated as a by product.

Sludge digestion tank No. 2.—This tank worked satisfactorily during the year and 328500 00 cft. (929655 M³) gas was generated as a by product.

Appendix No. 9 gives statement of gas generated and utilisation of gas during the year. The revenue from the gas include meter rent amounted to Rs. 2,87,943 as against Rs. 2,66,880 realised during the year 1971-72.

During this year the digested sludge was not taken on the beds for drying as the Contractors for purchase of dried sludge manure were not available. Hence only scum manure 7042 Brass was sold to private parties and revenue realised was Rs. 148.25 by sale of Scum manure.

Activated Sludge Plant.—(4 M. G. D.)—18.16 M. L. D. Capacity.

The activated sludge plant comprising 24 aeration cones and 3 Nos. of R. A. S. pumps worked satisfactorily through out the year and turned out effluent having B. O. D. 8 ppm. and suspended solids 6.8 ppm. Appendix No. 10 gives the complete data of treatment of sewage, addition and removal of sludge, total electric consumption and expenditure.

New works.—The work of expansion of the plant to give treatment to additional 5 m.g.d. sewage was started last year.

The new work comprises following additional units.

- (A) Primary Settlement Tank' Circular continuous flow type—1 No. 5 m.d.g. capacity 30.48×3.04 M.
 (B) Screening Units' Mechanically Raked, medium spaced—1 No.
 (C) Detritus Unit Dorr type, 40'×40'×4' depth 12.192×12.192×1.21 metre capable of treating 22.5 m.g.d. peak flow to isolate 2.3 specific gravity and 100 mesh grit—1 No.
 (D) Renovation of vertical sludge pump house and installing 3 No. of Reciprocating sludge pumps of 159 gpm. capacity. The work could not be completed due to the shortage of cement.

Laboratory

The laboratory of Dadar Sewage Works carried out the routine analytical test of sewage samples from different units of the plant regularly. The sewage samples from Khar, Love-grove and Dharavi were also tested.

The well water samples were tested and certified for the use of concreting purposes for drainage and construction department.

Industrial waste water samples collected from different industries were tested.

Detergent analysis, foaming trouble, elutriation, increase and decrease of mixed liquor suspended solids were also studied by carrying out experimental works in the laboratory.

The analytical data with averages (yearly) is given in appendix No. 11.

(iv) Dharavi Purification Plant

The performance of the plant was satisfactory through out the year. The sludge gas was supplied continuously in fair season.

Screening Units.—All the screens except Mechanically comb-operated, have worked satisfactorily.

Sewage Pumping Station.—Working of this station was satisfactory. Total sewage of 330454 million liters was pumped. Appendix No. 9 gives salient features regarding operational performance of pumping station.

Detritus Units.—New detritus unit has worked satisfactorily. Old detritus tank has been taken out of commission for Major repairs.

Primary settlement tanks.—All three P. S. T.'s have given satisfactory performance.

R. C. Pumps and Filters.—Filters and R. C. pumps have worked satisfactorily.

Final settlement tank.—This unit was out of commission for major repairs.

Sludge pumps.—Centrifugal sludge-pumps gave satisfactory service. The manufacturers carried out some modifications to develop the reciprocating pumps to improve upon the performance.

Digestion Tank and Gas holder.—This unit worked satisfactorily but R. G. C. roof of digestion tank was severely affected by H₂S contained in the gas. The gas was leaking through the roof and it was difficult to supply the gas without interruptions. However the roof was chemically treated and leakages were stopped and continuous supply of gas was restored from January 1973.

Sludge Drying Beds.—During this year, digested sludge was not taken on beds for drying purpose as the contractors to purchase dried sludge manure were not available.

Appendix No. 12 gives the statistical data in respect of Dharavi Purification Plant.

(v) Other Pumping and compressor Station

The statement showing the details of sewage quantity pumped, electrical energy consumed and its cost during the year 1972-73 is given in Appendix No. 13.

The Pumping and Compressor Stations and others worked satisfactorily during the year.

In general the total sewage pumped was much less than the previous year. This was due to the fact that the incoming flow of sewage itself was much less.

At Wadala Pumping Station the bigger capacity pumps vibrate considerably. The work of giving additional supports to the motors was under consideration.

III—MAINTENANCE OF MUNICIPAL BUILDINGS AND ROADS.

III—(A) Municipal Buildings

The total number of Municipal Buildings in the City during the year ending 31st March 1972 was 3203 as detailed below:—

(a) Housing—(i) Structures 2101 Nos. (Tenements 36 512 Nos.)	
(b) Other buildings 1102 Nos.	
	3203

The work of maintenance is classified under the major heads (1) Normal Repairs (2) Special Repairs and (3) New works. Normal Repairs include works of monsoon repairs. Special repairs cover the works which are likely to increase the life of buildings or structures whereas the works of additions and alterations to the buildings as also those of providing additional amenities fall under category of new works.

The repairs and maintenance works at the Municipal properties were carried out either departmentally or through annual petty work contractors.

The total expenditure incurred on the maintenance of Municipal properties was Rs. 1,78,86,444 out of which an amount of Rs. 79,35,828 was spent on normal maintenance and an amount of Rs. 99,50,616 was spent on new works and special repairs work. Works costing Rs. 42,73,232 were carried out Departmentally and works costing Rs. 1,36,13,212 were carried out through the annual petty works contractors. Total number of work orders issued to the petty works contractor was 1598. The budget-wise break up of the total expenditure incurred on the maintenance of the Municipal properties is as under:—

				Expenditure on normal Maintenance	Expenditure on new works & special repairs	Total
				Rs.	Rs.	Rs.
Budget A	...	...	...	37,84,779	40,22,914	78,07,693
Budget B	...	...	...	38,73,818	48,00,998	86,74,816
Budget E	...	...	...	2,77,231	11,26,704	14,03,935
Total				79,35,828	99,50,616	1,78,86,444
Grand Total				1,78,86,444		

III—B—Roads and Footpaths

The total length of the roads in the City at the close of the year was 482.03 k.m. as detailed below:—

Sr. No.	Type of Roads	K. M.
1	Cement Concrete	78.66
2	Black Topped	396.45
3	Sett Paved	6.92
Total		482.03

An amount of Rs. 35,79,121 was spent on repairs to potholes and carriage-way during the year and 4,79,228 sq. metres of different types of road surfaces were improved departmentally at a total cost of Rs. 35,17,376 during the year as detailed below:—

Mode of improvements	Area in sq. mt.	Expenditure
		Rs.
(a) Sheet asphalt	227	5,164
(b) Chip or grit on Asphalt Roads and bituminous roads	2,09,854	15,27,644
(c) Semi-grouting	1,24,000	14,38,907
(d) Asphalt concrete	...	...
(e) Surface dressing	1,45,147	5,45,661
Total	4,79,228	35,17,376

As usual, an amount of Rs. 2,32,907.00 was paid to the Bombay Port Trust for cleaning and repairing the Port Trust Wharves and Roads.

III C Miscellaneous Works in connection with Road & Footpaths

(a) *Street Name Boards.*—The existing street name boards were repaired and maintained at a total cost of Rs. 15,572 and new boards were installed at a total cost of Rs. 54,605.

(b) *Maintenance of Public Monuments.*—All the statues were periodically cleaned and maintained at a total cost of Rs. 2,641.

(c) *Widening of roads consequent upon the acquisition of set-backs.* The cost of adding to roads the setback land acquired in different parts of the City inclusive of the cost of incidental works such as shifting of lamp posts, electric cables, etc. amounted to Rs. 18,717 for 5,000 sq. metres added. The total amount of claims for compensation for setback land settled during the year was Rs. 21,21,056.

(d) *Benches.*—208 Benches on roads and footpaths were maintained.

(e) *Guard Railing.*—23993 M. of guard railing were maintained during the year.

III—D—Road Rollers

During the year there were 22 road rollers out of which 1 was petrol driven, 18 were diesel driven and 3 steam driven.

III—E—Permits

(a) *Opening of roads and footpaths.*—During the year 4900 permits were issued for excavation into roads and footpaths. The cost of reinstatement of disturbed surface was charged to the respective permit holders and the trenches were repaired at a total cost of Rs. 11,01,404. The total amount of road opening fees recovered was Rs. 53,913.

(b) *Occupation of Roads and footpaths.*—Action under Section 322(b) of the B. M. C. Act was taken to prevent the unauthorised occupation of roads and footpaths by dumping building materials. 266 notices were issued for contravening the provisions of the Act. Fees were also recovered for the use of roads for stacking materials and putting up scaffoldings. The total amount collected under this head was Rs. 46,992 from permit holders. In addition 1630 permits were also issued for occupation of roads for erecting mandaps, placing chairs and benches etc. and the total amount realised therefrom was Rs. 17,253.

23 permissions for new bus shelters on roads and footpaths were granted.

III—F—Asphalt Plant and Crushers

ASPHALT PLANT

The work of Asphaltting footpaths and Roads approved by the Corporation was continued during the year and footpaths and Roads covering an area of 221095 sq. mtrs. were asphalted at a cost of Rs. 18,51,069.29. The details are shown Appendix No. 14.

(a) The Municipal hot mix Asphalt Plant at Worli was in operation throughout the year except during Monsoon from July 1972 to September 1972. The Pegson Plant mixer worked for taking out Asphalt chip mixture and cold mixed materials required to fill in the pot-holes in the City and Suburbs. The labourers for running the Asphalt Plant were engaged departmentally.

(b) An area of 212460 sq. mtrs. (exclusive of potholes and trenches admeasuring (7079+1556) 8635 sq. mtrs.) of Roads and footpath was repaired during the year as against 148228 sq. mtrs. repaired during the previous year.

(c) Different roads admeasuring 227 sq. mtrs. were repaired with 3" sheet Asphalt.

(d) Capital roads admeasuring 107183 sq. mtrs. were repaired by grit coats or chip coats. The seal coating and different miscellaneous works ad measuring about 4759 sq. mtrs. were carried out by different modes of construction.

(e) Footpaths covering an area of 2608 sq. mtrs. were asphalted with seal coat. Different Roads admeasuring 25642 sq. mtrs. were repaired with binder and macadam.

The hot mix plant worked for 286 days and remained closed for 79 days on account of rainy season, Sundays, holidays and break downs of Plant.

The rates adopted for booking the expenditure, for different modes of construction, were the same as thereof previous year. The total expenditure for repairing the road surface the cost of which was chargeable to repair grant, amounted to Rs. 18,51,069.29.

An area of 72041 sq. mtrs. was repaired by providing surface coat, chip coat, grit coat, etc. on grouted Roads.

1943 tests were carried out in the asphalt Plant laboratory on different asphalt mixtures. The total turn out by the main and pegson plant were 11043000 kgs. and 2275010 kgs. approximately. Appendix No. 15 shows the details of Asphalt Plant production.

Crushers at Worli

There are four crushers and one granulator at Worli out of which on an average two crushers were working during the year 1972-73.

The work of crushing the rubblestones at both the crushers was done departmentally. The total output of both the crushers during the year was 3534 brass metal as against 3570 brass during the last year. The value of stock at hand at the end of the year was Rs. 56,855 at Worli Crushers. Appendix No. 16 shows the rubble crushed and metal production during the year 1972-73.

III.—G—Public Street Lighting

The total number of electric street lighting lamps at the end of the year was 20,699 as against 19,862 of the previous year.

The details of the different types of Municipal lamps and All-in-Hire lamps are shown below.

(1) Municipal street light lamps with wattage varying from 60 T.F. to 1000 T.F. and 80 M.V. to 400 M.V.

Tungstone filament	Mercury Vapour	Fluor Scent	T. D. Bollards	Total
6462	987	94	395	7938

(2) All-in-Hire street light lamps, B. E. S. T. u/T. lamps with wattage varying from 60 T. F. to 1000 T. F. and 80 M. V. to 400 M. V.

Tungstone Filament	Mercury Vapour	Fluore-scent	T. D. Bollards	Total
Nil.	10,845	1916	Nil.	12761

Besides the 20,699 electric street light lamps, there were 14 policemen's spot light and 14 lights (lamps) along the Railway foot over bridges at Chowpatty, Marine Lines, Charni Road, Byculla and Dadar Stations maintained by this department.

The following statement shows the electric energy consumed and expenditure incurred during the year under-report for maintenance of street lighting.

Description	No. of lamps	Type of lighting	Killowatt	Killowatt Hour.	Expenditure
					Rs.
Municipal ...	7938	Electric	2299.870	827395	} 1,04,04,456
All-in-Hire ...	12761	Do.	1658.517	610561	
		Total ...	3958.387	1437956	

Note.—The less energy consumption during the year under report was due to power cut as directed by State Government.

Additional expenditure was incurred by this department on street lighting as under:—

1. Erection of new lamps	837 Nos.	Rs.	55,014
2. Repair and maintenance of lamps		Rs.	71,790
3. Improvement of street lighting		Rs.	65,846

Additional expenditure of Rs. 3,12,914.61 given as rebate to B. P. T. Authorities was incurred as usual on account of street lighting arrangement of 563 lamps maintained by the Ecmbay Port Trust Authorities in their Docks, bunders and cotton depots etc by adjustment with the amount due from them in respect of General Tax for the year under report.

The work of lighting and maintenance of street, lamps and flood lighting or illumination of statues in the City was carried out through the Bombay Electric Supply and Transport Undertaking.

The following statues were flood lit or illuminated throughout the year under report.

1. Late Sir Phirozshah Mehta at Bori Bunder.
2. Late Shri Vithalbai Patel at Chowpatty.
3. Late Shri Lokmanya Tilak at Chowpatty.
4. Late Dr. Babasaheb Ambedkar at Mayo Road.
5. Late Swami Vivekanand at Gate way of India.
6. Late Sampati Bapat at Shiveji Park.
7. Hutatma Smarak at (Flora Fountain) Hutatma Chowk.

1833 street lights on 309 roads were improved by converting 200 watts T. F. lamps to 80 watts M. V. lamps under the improvement Programme.

229 New street lights were provided on 16 roads with Tungston lamps and mercury vapour lamps during the year under report.

44 lights were provided in eight gardens during the year under report.

32 New street lights were provided in the 9 hutment colonies during the year under report.

43 junctions were improved by providing additional mercury lamps or readjusting the existing lamps during the year under report.

27 Numbers of traffic Directional Bollards were provided at 12 junctions during the year.

Lighting arrangement with decorative lamps was made for the following statues :—

1. Late Senapati Bapat Statue at Ranade Road Shivaji Park.
2. Late Sir Vithalbai Patel Statue at Chowpatty.

Removal of vehicles.

1480 vehicles which were found under repairs or abandoned on roads thereby causing obstructions to the traffic were removed to the Municipal custody under the provision of section 314 of the B. M. C. Act. 1395 vehicles were retrieved by the parties concerned on payment of usual charges. 85 vehicles which were removed to the municipal custody during the period from 1st January 1972 to 31st December 1972 but not retrieved by the parties concerned on payment of usual charges within a reasonable period were disposed of by sale under the provision of Section 490 of the B. M. C. Act. The total amount realised by sale was 89841.00.

III (H)—Traffic.

The works of constructing traffic islands, central dividers, R. C.C railings were carried out on various roads.

Automatic traffic signals were installed at 7 locations (appendix No. 17 given names of locations).

The names of roads on which regular line were prescribed are shown in Appendix No. 18.

Road markings were painted on all the important roads in the City.

The lights on 10 roads were improved by converting T. F. lamps to Fluorescent lamps.

Street lights were improved on 75 roads by providing additional H. P. M. V. lamps under all-in hire scheme under report.

29 Roads were improved by converting Fluorescent tube lamps to high pressure mercury vapour lamps during the year under report.

Lighting arrangements were improved in the 6 Municipal Urinal blocks by converting 200 W. T. F. to 80 W. H. P. M. V. lamps during the year under report.

III—(I) Improvement of Private Streets.

1. The Private Street Section (City) was in charge of the Dy. City Engineer (Zone-I) during the period under report.

2. Action under section 305 of the Bombay Municipal Corporation Act was taken to improve the Private Streets.

3. The details of action for the improvement of the Private Streets in City in which works have been completed are given in Appendix No. 19.

4. Government passages were not taken over for the improvement and maintenance during the year under report.

5. The work of providing lights on the Private Street off Dr. S. S. Rao Road (Government Gate Road leading to Rajkamal Studio) which was improved last year without resorting to section 305 of the B. M. C. Act, was in progress.

6. During the period under report, the work of 6 private streets shown in Appendix 20 was in progress.

7. The work of improvement of passage in private holding was not undertaken during the report under reference.

8. No occasion arose to declare the expenses incurred by the Corporation as improvement expenses under Section 494 of the Act.

9. New references under Section 503 of the Act were not filed before the Chief Judge of the Small Causes Court during the year under report.

10. Leave to appeal to Supreme Court has been granted in 6 Municipal references dismissed by the Divisional Bench of the High Court and they were expected to come up for hearing before the Supreme Court shortly.

11. The Private street off Napean Sea Road leading to Rangtha House was declared as Public street during the period under report.

12. In 3 cases preliminary action to improve the Private Streets under Section 305 of the Act was in progress (Appendix No. 21).

IV—Maintenance of Drains and Sewers.

The work consists of (i) Cleansing and Maintenance of all underground sewers and storm water drains and open channels (ii) Making street connections from the drainage systems of properties to sewers and storm water drains.

The work of systematic cleansing of common house drains and pipes sewers in private properties was done as detailed in the table given below

	Length cleaned in metres.	Silt Removed in Tonnes.
(1) House Drains	15,57,382.65	11,859.40
(2) Pipe Sewers.	5,25,213.65	4,972.76

Repairs to manholes and gratings of water entrances:—

The statement below shows the details of the work done:

	Total No.	Total cost.
(1) Repairs to manholes	268	35,769.00
(2) Replacement of gratings	877	33,816.00
(3) Removal of vent shafts	42	23,939.00

Street Connection.—During the year 58 street connections of the buildings were made to sewers.

Requisition in respect of house drains.—4447 Requisitions under various Sections of the Act were issued against house owners for rectifying drainage defects.

Biological installation at Banganga.—An amount of Rs. 12,234 was spent on maintenance work carried out at the Biological installation at Banganga. 68.72 M. Tonnes of sewage was treated at the installation during the year.

V.—Private Buildings constructions (City).

Building Proposals.—400 proposals under section 337 and 609 proposals under section 342 of Bombay Municipal Corporation Act for erection of new buildings and for additions and alterations to the existing buildings respectively were received during the year. The particulars are as under:—

Proposals Section 337	received Section 342	Total No. of proposals.	No. of proposals Section 337	Passed Section 342
400	609	1009	336	432

New Buildings.—The position of residential tenements constructed by different agencies (other than Municipal) was as under:—

Agencies	No. of proposals
(a) Private enterprises	42
(b) Co-operatives Societies	23
(c) Employers for their employees	10

The details of the tenements constructed by Private parties are given in Appendix No. 22.

The number of proposals for non-residential buildings received during the year under report was 67.

Building Collapse.—107 buildings or portions thereof collapsed during the year. 72 persons were injured and 7 were killed as a result of these collapses. The estimated damage to property was Rs. 5,55,140.

Actions under relevant sections of the Municipal Act.—6546 Notices were issued during the year under different sections of the Municipal Act 2113 Notices were complied with during the year and 4433 were still pending compliance with at the close of the year.

Removal of unsafe Building.—156 unsafe buildings or portions were removed departmentally under Section 489 of the Act at a cost of Rs. 3,63,485 out of which an amount of Rs. 2091 was irrecoverable.

Authorities granted under Section 499 of the Act.—117 Authorities were granted under section 499 of the Act to carry out repairs to buildings. The No. of tenants who took advantage of the same was 1618.

Unauthorised Structures.—During the year 2220 unauthorised structures were detected in the city. In addition 340 cases of previous year were pending disposal. Unauthorised works in 221 cases were removed by parties themselves while in 297 cases the unauthorised works were removed departmentally under Section 352-A of the Act. and in 187 cases actions were dropped.

Complaints from the public.—In addition to 2338 complaints of the previous year pending disposal, 72,923 complaints were received from the public during the year. Out of these 70,366 complaints were looked into and disposed of and action on 4,900 complaints was in progress at the close of the year.

IV—FACTORY SECTION.

The following table shows the position of the factory section in city.

Serial No.	Particulars.	Nos.
1	No. of applications received during the year.	928
2	No. of applications of previous year pending disposal	75
3	Total No. of applications	1003
4	No. of applications disposed of	913
5	No. of applications undisposed of	90
6	No. of new permits issued	730
7	No. of new permits renewed	2039
8	No. of prosecutions launched	679
9	No. of prosecutions decided in favour of the Corporation	536
10	No. of prosecutions pending	147
11	Amount of fine recovered	Rs. 20,700
12	Total revenue collected	Rs. 3,75,770

VII—MECHANICAL BRANCH

Municipal Workshops.

During the year under review, the Municipal Workshops received 3713 fresh jobs. Total number of jobs completed including some pending from previous year was 2142. The total expenditure on the departmental works amounted to Rs. 1627560. The upkeep and overhead charges amounted to Rs. 264598 which worked out to 16.25 per cent of the expenditure incurred on labour and stores. The labour strength during the year was about 447 and there were 298 working days during the year. There was labour strike during the period from 11th August 1972 to 23rd August 1972.

Machins Shop.—In this section works of repairs to sewage pumps of various pumping and purification works and especially to large sized pumps of L. G. P. Station were carried out. In addition to this the works of manufacturing of impellers, C. I. Bushes for pumps, complete overhauling of pumps, repairs to steel furniture of hospital, manufacturing of large sized shafts, spindles, studs, brass bushes were also carried out.

Boiler Shop:—In this section, the major jobs carried out throughout the year were the manufacture of refuse bins and that of wheel barrows of the conservancy Dept. Also repairs to a number of refuse bins and wheel barrows were attended. In addition to this a number of steel hand carts of various types and designs were manufactured. A number of tar boilers of road deptt. and roller wheels of road, rollers were repaired. Also repairs to hot drums of Asphalt plants, pump casings, screening and scraping apparatus, overflow weirs, aeration cones of purification works were carried out.

Carpentry Shop.—Besides the usual repairs works to chairs, and tables the work of manufacturing of cash counters, special types of cabinets, different types of notice boards, indicator type name boards, racks, benches, etc. were also carried out.

Foundry Shop.—Besides normal production of manhole frames and covers special types of castings impellers, wearing rings, bearing houses, required for pumping and purification works and the power laundry were also manufactured and supplied. A detailed report is put up separately.

PAINT SHOP

In the paint shop, besides the day-to-day work of painting of name boards of various Municipal departments the work of painting Municipal vehicles, hospital steel furniture, wooden hand carts and wheel barrows was carried out. During the work, the following works were also carried out.

- (1) Installation of 3 latches (HMT) in machine shop.
- (2) Complete overhauling & testing of travelling crane.
- (3) General cleaning of all shops of the workshop.
- (4) Manufacturing, fixing special types of dust bins in Cuffe Parade area.
- (5) Renovation of stores in the workshop premises.
- (6) Renovation of cleaning mechanism of the C. F. S. Tank of Versova Purification works. This work was completed departmentally and about Rs. 20,000 were saved.
- (7) Supplying of 300 Nos. wooden ballot boxes required for the elections held in March 1973.

Regarding labour activities it may be stated that the relations between the labour and the management were cordial and the management handled the labour problems skilfully and efficiently.

MUNICIPAL FOUNDRY

In the year 1972-73 the foundry was required to handle about 234 jobs for supplying different kinds of castings to the workshop and other departments. Also 6 works orders were received from C. S. for supplying 600 Nos. of C.I. Manhole frames and covers complete in addition to another 24 work orders from other departments for supplying 215 Nos. of manhole frames and covers complete.

Out of 234 jobs received during the year Municipal Foundry has completed 203 jobs and also 61 jobs from the last year. It supplied to the C. S. and other department 780 Nos. of C. I. manhole frames and covers complete as against a guarantee of 600 Nos. per annum.

The details of total output during the year 1972-73 under report are given in Appendix No. 23.

Many intricate castings (special type) ferrous and non-ferrous like pump casing, closed type impellers, housing and suction pipe were manufactured.

The quality and soundness of the product was upto the mark.

Foundry rates also compared most favourably with those in the local market.

DESIGN SECTION

Mechanical Design Section in the City carries out the work of preparing estimates for all types of works pertaining to the mechanical branch. This section also prepares drawings, blue prints and specifications for machinery, furniture and mechanical equipments for various other departments of the Corporation. The section invites tenders and sealed quotations for all types of mechanical jobs. It also executes all out-door mechanical jobs such as repairing collapsible gates, rolling shutters, storage tanks, pumps, gymnasium and garden play apparatus, repairing and painting of wooden and steel furniture, painting staircases, sterilizers, vent shafts, flag-poles, stand pipes, Segrees, trolleys, wheel chairs hand carts, central fencing, animal cages, Chimneys, cash boxes safes, drill owers, muton and beef stalls, steam boilers, steel columns, diving boards, foot boxes, etc. It also helps the other mechanical and electrical sister departments carrying out their jobs.

The following important items were carried out during the year :—

A. Drawings, Estimates and Specifications were drawn for the following important works :—

- (1) M. S. angle fencing at Old Dadar Market.
- (2) Uptake tube for C. F. S. Tank at V. P. P.
- (3) G. I. pipe barricades at S. K. Patil Udyan.
- (4) Uptake arrangement for F. S. T. at D. P. P.
- (5) Show cases for dolls at Birla Krida Kendra.
- (6) Water hand cart.
- (7) Layout plan of cupboard in record section of M. S. 's office.
- (8) Tilting type refuse hand cart for Conservancy Branch.
- (9) New flood gate at Cleveland Bunder.
- (10) Single pole gantry at Matunga P. Station.
- (11) Providing slotted angle racks at record section at Gilder Tank.
- (12) Meat van on Fargo Chassis.
- (13) Polling Mandaps for 1972 elections.

B. Following important works were carried out during the year :—

- (1) Repaired G.I. wire fencing at the Central Hedge at Marine Drive for a height of about 650 metres
- (2) Annual survey and repairs were carried out on steam boilers at G. T. B. Hospital.
- (3) Repainted Chimney of Foundry.
- (4) Repaired Tower Clock of M. J. P. Market.
- (5) Provided one cash counter at C. A.'s office.
- (6) Replaced wooden beams at the end of the platforms at Mahalaxmi siding.
- (7) Strengthened steel pillars at old Dadar Market.
- (8) Provided 18 racks at centralized stores at 'E' Ward.
- (9) Repaired drill tower at Alexandra Fire Brigade Station.

C. Following General works were carried out during the year :—

- (1) Repaired 263 Nos. of storage tanks.
- (2) Repaired 51 Nos. of rolling shutters.
- (3) Repaired 69 Nos. steel gates.
- (4) Repaired 597 Nos. steel windows.
- (5) Polishing of wooden furniture to the extent of Rs. 10,000 was carried out through contractor
- (6) 9 Nos. of hand wound clocks maintained through contractor.

This year 24 tenders and 742 sealed quotations were invited. One hundred numbers of estimates involving cost amounting to Rs. 90,67,513 were submitted. 131 Nos. of drawings, 197 Nos. of retracings and 129 sketches were drawn. 1769 Blue prints were taken.

In total 970 outdoor jobs were carried costing about Rs. 4,32,000.

MUNICIPAL POWER LAUNDRY.

Municipal Power Laundry rendered washing services to 43 medical institutions of the Corporation during the year 1972-73.

During the administrative year the Laundry washed 58,80,671 linen of 43 institutions. The rate of washing was fixed at Rs. 25 per 100 pieces of linen.

The work of installing two additional washing machines and one Hydro Extractor in the Laundry for augmenting the capacity of washing, which was in progress last year, was completed during this year.

The work of extension of Laundry bay was in progress during the year.

In order to minimise thefts the expanded metal jally was provided to the windows.

VIII—ELECTRICAL BRANCH.

The activities of the different sections of the Electrical branch, during the year under report were as under:—

1. *Planning and Design Section*:—This section deals with the preparation of estimates, invitation and recommendation of tenders execution of contracts for major electrical works in the newly constructed and old Municipal Buildings, under the Loan Works programme in the city and suburbs.

During the year some of the tenders were invited jointly with the civil tenders for Synchronisation of both electrical and civil works.

In all 28 estimates amounting to Rs. 16,64,374.00 were prepared 17 draft-tenders finalised and 20 tenders were invited and 20 tenders amounting to Rs. 10,65,234 recommended as detailed in Appendix No. 24.

2. *Building Construction Section*:—This section supervises the execution of the major works in the City and suburbs for which contracts are awarded by the Planning & Design section.

There were in all 12 contract works amounting to Rs. 3,51,146 completed and 8 works amounting to Rs. 8,29,015 in progress during the year as given in the Appendix No. 25.

3. *Plant and Machinery Section*:—This section carries out repairs and maintenance of Electrical machinery and electrical works in the existing municipal properties in the City.

There were 832 work orders received from the various departments for execution of electrical works, out of which 455 jobs amounting to Rs. 2,22,816 were carried out departmentally and 329 jobs amounting to Rs. 4,71,446 were carried out through contractors and 127 estimates amounting to Rs. 7,48,846 prepared during the year under report as given in the Appendix No. 26.

4. *Ward Maintenance Section*:—This section carries out electrical works in the existing Municipal properties in the city other than those looked after by the plant and Machinery section.

There were 210 estimates amounting to Rs. 50,05,823 prepared and works of electrification, providing pumping sets, starters etc. providing electric fans and fittings and providing sound systems etc. amounting to Rs. 12,26,731 were carried out by inviting tenders quotations as detailed in the Appendix No. 27.

5. *Refrigeration Section*:—This section is entrusted with the preparation of estimates, invitation and recommendation of quotations and tenders, execution of contracts and Supervision of contracts in respect of works for purchase and installation of new Air conditioning and Refrigeration machinery under the Loan Work Programme as well as under the Revenue Budget for City and Suburbs. Moreover, the works pertaining to repairs, maintenance and servicing of existing air conditioning and refrigeration machinery in the City and Suburbs is also looked after by this Section.

The type of equipments looked after by this section are (i) Central air Conditioning Plants (ii) Packaged air conditioning Plant (iii) Window units (iv) Cold storage plants (v) Mortuary Plants (vi) Walk-in-coolers (vii) Deep freezers (viii) X Ray developing tanks (ix) Water Coolers (x) Refrigerators. The equipment is installed mainly in the Hospitals, Mat. Homes, Dispensaries, Auditoriums, ward offices, Markets, Schools etc.

There were 19 estimates amounting to Rs. 17,57,500 prepared and 67 tenders amounting to Rs. 18,27,600 were recommended as detailed in the Appendix No. 28.

Planning & Construction for Mechanical and Electrical works for Drainage installation and swimming pools, Pumping and Purification works) in City in the charge of E. E. Meck. (N & P).

Name of the work.	Remarks.
1 Construction of Dockyard Pumping Station.	Few Mechanical & Electrical equipments were received and stacked at Dadar Purification Works.
2 Supply and installation of one stand-by pump at Mahatma Gandhi Memorial Olympic Swimming Pool.	Tenders were rejected and quotations for supply of pumping sets were invited.
3 Additional treatment for 22.5 M. L. D. sewage at Dadar Purification works.	(a) Works of P. S. T. and sludge pump house was nearing completion. (b) Works of Detritus unit Civil Work was nearing completion.
4 Supply and installation of Jacob Circle Pumping Station (Additional 8 M. G. D. pumps).	Electrical motor received at site. The matter is being pursued further.
5 Proposed electrically operated flood gates.	Specifications and estimates were under preparation.
6 Completion of incomplete work of digestion tank and gas holder at Dharavi Purification Plant.	Specifications and estimates were being prepared
7 Repair to old C. F. S. Tank at Dadar Purification Work.	Specifications were finalised.

IX.—TRANSPORT BRANCH.

The Transport Branch is entrusted with the Maintenance and Operation of vehicles for all the Municipal Departments. There were 363 vehicles in the City fleet by the end of the year under report.

These vehicles were used for rendering various Civic Services as shown below:—

Name of the Services.	No. of vehicles.
1. V. I. P. Cars, staff cars and Committee cars.	19
2. Health Services.	
(a) Ambulances/Hearses.	37
(b) Mobile Health Unit.	8
(c) UNICEF vehicles.	9
(d) Blood Bank	2
(e) Pest Control	7
(f) Food Sampling	1
(g) Air pollution	1
(h) R. P. T. B. Hospital.	1
3 Conservancy Services.	
(a) Refuse removal.	66
(b) Cesspool services.	5
(c) Dog Vans.	2
4 Water Works.	
(a) Fire Vans	12
(b) Maintenance Trucks	10
(c) Water Sampling	1
(d) Leakage Detection.	5
5 Meat Van Service.	
(a) Meat Vans	29
(b) Raid Vans	2
(c) Offals	10
6 Encroachment removal Services.	11
7 Administrative Service.	
(a) Cash Vans.	8
(b) A. & C.'s Distress Warrants	10
(c) Despatch Vans	3
(d) Distribution of M. S. Agenda	6
8 Miscellaneous Departmental Service.	
(a) Ward & Departmental Trucks	25
(b) School Buses	7
(c) Biscuit Vans	5
(d) P. R. O.'s Vans	1
(e) Traffic & Co-ordination Department...	5
(f) Cattle Vans	3
(g) Asphalt Trucks	11
(h) Silt Vans	4
(i) Drainage & Departmental vehicles	4
(j) Pumping Station vehicles	2
(k) Break down and general duty vehicles	12
(l) Laundry	2
(m) Scarcity relief	5
(n) Transportation of internees	3
(o) Mobile Courts	2
(p) E. O.'s Stores	1
(q) Post Partem	1
(r) Bapula Tank (Water Works)	2
(s) Mobile Dispensary-cum-Ambulances	2
(t) C. S. Vans.	...

Due to purchase of new vehicles, 31 old vehicles were withdrawn from the service and the same were being scrapped.

Stores:—Spare parts and accessories required for the City and Suburban Transport fleet were purchased by the Central Transport Stores at Nimkar Marg. The total purchases during the year were of the order of Rs. 12,38,000.

Working of Garages:—The overall efficiency of the fleet was maintained between 80 per cent to 85 per cent throughout the year. The average efficiency of different garages is shown against each of them below:—

Serial No.	Name of the Garage	Percentage of efficiency.
1	'Motor Repairs Shop' at Nimkar Marg.	90% to 92%
2	'Ambulance' Garage at Sane Guruji Road.	80% to 85%
3	'D' Ward garage at Annesly Road	84% to 90%
4	'G/North' Garage at Dadar	84% to 91%
5	'Agrimada' Garage at Souter Street.	78% to 82%
6	'Prabhadevi' Garage.	85% to 88%

The Department earned income of Rs. 90,87,277.00 by way of transport charges from different users of these vehicles.

During the year, the Corporation purchased 2 Bolgar Tractors, one Crawler Tractor and Two Mechanical Loaders for refuse loading.

The Bolgar Tractors were commissioned in September 1972, 2 Mechanical Loaders in August 1972, and the Crawler Tractor was proposed to be put into commission in April 1973, for dozing levelling and pressing refuse at Dharavi Dumping Ground and other small dumping grounds in Suburbs and Mechanical Loaders for refuse loading at Mahalaxmi Siding and other places.

X.—Conservancy Branch.

Conservancy Branch along with Transport and K. D. Railway continued to be under the charge of Dy. C. E. (M. & C.).

Collection of Refuse.

All the public roads, footpaths and house-gullies were cleaned daily and quantity of refuse and other waste matter removed during the year was approximately 5,81,523 tonnes, average per day being 1593 tonnes

Transportation of Refuse.

The refuse collection during street cleansing operations as well as from the residential premises was regularly removed by engaging necessary mechanical traction.

Total vehicle-shifts employed for removal during the year was 99,362 of which 30,890 were municipal vehicles shifts and 68,472 were contractors' vehicle shifts giving percentage of 31 per cent 69 per cent respectively.

Municipal Mechanical Tractors towed by Scammell Horses were gradually discontinued due to non-availability of imported parts and this system came to a complete stop on 26th January 1973.

During the year under report 50 municipal lorries were purchased for refuse collection work in replacement of Scammell Horse-Trailer Tractors. Of these, 20 were put into operation.

About 32 per cent of the city refuse was transported to Deonar Dumping Ground by Railway wagons from Mahalaxmi Siding. The details are given in the report of K. D. Railway Section.

Disposal of Refuse.

The final disposal of refuse was carried out by reclaiming low lying land at Deonar and also at Dharavi. Total refuse dumped at Dharavi was 4,51,110 tons and at Deonar 2,16,308 tons.

Collection, Removal and Disposal of Night Soil

Night soil collection and disposal service was rendered in F and G Wards to 666 Basket Privy seats as against 824 for the previous year. 158 Basket privy seats were either demolished or converted during the year. Mechanical Traction comprising municipal cesspool vehicles was used working in two shifts at an average of 7 vehicles per shift.

The Night soil and cesspool contents were disposed of at Dharavi Night Soil Depot.

Cesspool Clearances.

During the year under report the number of cesspool clearance given was 11,939 removing approximately 19389 kilo litres cesspool contents.

Public and Private Latrines and Urinals

During the year under report 239 public latrines with 844 seats were maintained. Total number of urinal stalls maintained was 840.

136 and 114 number of new Public Sanitary Conveniences and urinal stalls respectively were constructed.

Prevention of Nuisance.

During the year 5025 cases were made for urinating, defaecating and throwing refuse on public roads under Section 115 of the Bombay Police Act.

Removal and Disposal of Dead Animals.

Bombay Suburban Village Industries Association were the contractors for the work of removal of dead animals from the City. They were allowed to carry out flaying and skinning of dead animals at Deonar. Total number of dead animals removed during the year was 63,942.

Conservancy and Special Halalkhore Services.

These services were rendered to Circuses, exhibitions, Big concerns, Industrial Establishments etc., on payment of Scheduled charges. An amount of Rs. 4,91,768.01 was received for rendering conservancy services and an amount of Rs. 574.91 was received on account of Special Halalkhore Services. Charges for cleansing Government Foreshores recoverable during the year came to Rs. 2,65,653.00.

Dog Licensing and Destruction work.

The work of licensing Pet Dogs as well as capturing and destroying stray dogs was carried out throughout the year. During the year under reference 7,850 pet dogs were licensed. 47,856 stray dogs were captured and 43,651 dogs were voluntarily destroyed.

Conservancy staff quarters.

Labour chawls in charge of Conservancy Branch with 4300 tenements were looked after and maintained. Heavy repairs were carried out on 'B' Block, Approach Road and 'E' Block Sane Guruji Road Chawls.

No new chawls were constructed and allotted during the year under report.

Out of 8600 employees entitled to free housing about 55% staff have been so far provided with accommodation as against 60% last year. The fall in the percentage is due to creation of additional posts.

Labour Welfare.

There were 12 Welfare centres working for the benefit of Conservancy employees at the following Municipal Chawls.

- | | |
|----------------------|--|
| (1) Cochin Street. | (7) Tank Pakhady. |
| (2) Sukhlaji Street. | (8) B. I. T. Chawl No. 12. |
| (3) Annesley Road. | (9) Chinchpokali New Chawl, Sishli Maidan. |
| (4) Haystack Road. | (10) Prabhadevi Chawls. |
| (5) Approach Road. | (11) Dadasaheb Phalke Road. |
| (6) Jail Road. | (12) Kasarwadi Chawls. |

Co-operative Credit Societies for Labour.

There were in all 12 Co-operative Credit Societies with an aggregate membership of 6756 members for the benefit of the labour employees of this branch. The Share Capital subscribed was Rs. 44,11,638.16. The working of the Co-operative Credit Societies was satisfactory.

Expenditure on Conservancy Services.

The total expenditure incurred on Conservancy service for garbage, cesspool and P. S. C. etc., was Rs. 3,56,55,240 out of which Rs. 3,15,10,257 was for clearance, transportation and disposal of refuse of 5,81,523 tons per annum giving cost per tonnage as Rs. 54.19. The expenditure on cesspool clearance was Rs. 41,44,983.

XI.—DEVELOPMENT BRANCH.

During the year under report, some proposals received from the Government under Section 37 of the Maharashtra Regional and Town Planning Act, 1966, giving directives for modifying the development plan were forwarded to the Corporation.

With a view to modifying the Development Plan in cases of discrepancy, and on representation from the owners and councillors some proposals for modification of reservation under section 37 as also for deletion of the reservations under Section 50 of the M. R. & T. P. Act were approved by the Corporation and forwarded to the Government for according their sanction to the modifications of Development Plan.

Certain proposals for modification of the Development Control Rules have been forwarded to the Government and they were awaiting Government's sanction.

Development Plans and reservation were demarcated on maps at the instance of the private parties, architects, Government and Municipal Departments. Acquisition proceedings in connection with certain lands required to be acquired for implementing the development plan proposals were in progress.

During the year under report, the sanctioned Development Plans of suburban wards were got printed and the same were being sold to the members of the public and Architects through Ward Offices. Development Rules as modified upto date were reprinted and were being sold to the members of public and Architects through the Public Relations Officer.

During the year under review, decision has been taken to revise the Development Plan of Greater Bombay so as to make it more realistic and preliminary action is started for appointment of additional staff to undertake various surveys before taking up the revision.

Acquisition of Land.

Possession of 8 properties was obtained through the Land Acquisition proceedings and 1 property was acquired by negotiations. Awards were made by Special Land Acquisition Officer in respect of 8 properties. Proceedings under Land Acquisition Act in respect of 73 properties were in progress in respect of 5 properties. Set back and rates in respect of 22 set back cases were fixed for making payment of compensation of land acquired for widening of various roads and lanes and standard rent in respect of 51 Municipal properties was fixed.

XII.—TOWN PLANNING SCHEME.

Within the limits of the City proper, there are 4 Town Planning Schemes as under:—

1. Town Planning Scheme Bombay City No. I.—(Mandvi and Elphinstone Estate).
2. Town Planning Scheme Bombay City No. II.—(Mahim area).
3. Town Planning Scheme Bombay City No. III.—(Mahim area).
4. Town Planning Scheme, Bombay City No. IV.—(Mahim area.)

All these are finalised Town Planning Schemes and the works included in these finalised schemes have been to a considerable extent completed, except in respect of Town Planning Scheme Bombay City No. I. The main reason for non-completion of works is that the area is heavily encumbered which is also the reason for non-completion of all the works in other schemes, there being no adequate alternative accommodation to offer to the persons likely to be displaced. In view of this the Corporation by their Resolution No. 2651 of 23rd March 1973 have declared their intention to vary the Town Planning Scheme Bombay City No. I (Mandvi and Elphinstone Estate) so as to tackle the problem of implementation by making provision in the varied scheme for sites for alternative accommodation etc.

For the scheme at Sr. No. 2 proposal has been put up to the Corporation for declaration of intention for major variation under Section 92 of the Maharashtra Regional and Town Planning Act.

Scheme at Serial No. 3 was declared for variation under Section 92 of the M. R. & T. P. Act and the draft variation scheme was under preparation.

Town Planning Scheme Bombay City No. IV (Mahim area) has been declared for variation in the year 1967 and the draft scheme (1st variation) was sanctioned by the Government on 27th October 1972 and the Arbitrator for the scheme was appointed by the Government on 17th January 1973.

Implementation of Mandvi and Mahim Town Planning Scheme.

- (a) No. of plots taken over by the Corporation.—15.
- (b) No. of plots handed over to the owners.—Nil.
- (c) Details of execution of T. P. Schemes.

Nature of the work.	No. of works.	Actual expenditure incurred between 1-4-1972 & 31-3-1973
1. Road Works	2	2,91,641
2. Any other works.	4	33,07,412

(d) Total expenditure incurred on T. P. Scheme works Rs. 35,99,053.

(e) Amount of contribution charges collected Rs. 10,36,676.

SUBURBS AND EXTENDED SUBURBS.

A—PLANNING BRANCH.

During the year, this branch prepared plans and estimates in connection with different works pertaining to buildings, bridges sewars S. W. Drains etc.

A.—(a) Planning (Architectural).

Particulars.	General Building Works.	Housing in Greater Bombay.
(i) Contract Plans. ...	34	4
(ii) Cloth Tracing ...	15	—
(iii) Paper Tracing. ...	230	20
(iv) Blue Print Copies. ...	7208	559
(v) Block Estimates. ...	6	3
(vi) Total amount of Block Estimates ...	Rs. 1,26,18,277/-	Rs. 83,59,400/-
(vii) Detailed plans and estimate completed in all respects (as shown below). ...	33	2
(viii) Total amount of detailed estimates. ...	Rs. 3,28,69,235.72/-	Rs. 50,57,484.20/-
(ix) No. of tenders invited. ...	42	6
(x) No. of Contracts awarded. ...	26	3
(xi) Details estimates in hand. ...	9	—
(xii) Total approximate cost of detailed estimates in hand	Rs. 97,41,000/-	Rs. —

Particulars of detailed plans and estimates completed in all respect referred to above:—

Particulars.	No. of estimates.	Estimated cost.
(a) Schools (Permanent)	13	Rs. 1,32,21,430/38
(b) Schools (Temporary)	Nil.	Nil.
(c) Centralised Ward Offices.	2	Rs. 32,36,749/62
(d) Markets.	1	Rs. 2,98,241/00
(e) Hospitals, Maternity Homes and Dispensaries.	8	Rs. 94,31,922/75
(f) Miscellaneous	9	Rs. 66,80,891/97
Total:—	33	Rs. 3,28,69,1235/72

(A)—(b) Planning (Bridges).

Particulars.	Details of plans and estimates prepared
I—Contract Plans.	17
II—Cloth Tracing.	Nil.
III—Paper Tracing.	13
IV—Blue Print Copies.	112
V—Block Estimates.	2
VI—Total amount of Block Estimates.	Rs. 44,50,000.00
VII—Detailed plans and estimates completed in all respects.	3
VIII—Total amount of detailed estimates.	Rs. 49,21,051.00
IX—No. of Tenders invited	2
X—No. of works instructed to the Railways.	4
XI—Detailed estimates in hand.	5
XII—Total approximate cost of detailed estimates in hand.	Rs. 95,00,00.00
XIII—Scrutiny of plans received from—	
(a) Railways.	6
(b) Private parties.	15
XIV—Scrutiny of estimator received from Railways.	1

(B) DEONAR ABATTOIR

During the year under report, the works ancillary to the main factory units viz Live Stock, Markets etc. which were in progress, were completed. The plans and estimates to the tune of Rs. 1,63,52,082 were prepared and the tenders for five works, amounting to Rs. 1,47,73,001 were invited. The buildings which were completed were already put to use by the department of General Manager, Deonar Abattoir.

The works completed and these in progress during the year under report are listed in Appendix No. 29.

C.—CONSTRUCTION BRANCH

(i) Building Construction Branch Zones II & III.

The Building Construction Branches of Zone II and Zone III supervise the works of building construction after award of contracts by the Planning and Design Branch.

A synopsis of the work done by this branch during the year is given below:—

Particulars	Completed works		Works in progress		
	Nos.	Actual cost	Nos.	Estimated cost	
	2	Rs.	3	Rs.	
1. Housing—					
(a) Structures Z—II	1	4,89,934	4	56,04,719	
Z—III	1	4,42,801	16	53,34,079	
Tenements Z—II	...	...	{360	Temements. }
Z—III—(40 Tenements)	...	...	626	„
2. Buildings other than Housing—					
(a) School building	Z—II } Z—III }	2 2	14,83,386 2,64,854	12 9	99,92,934 88,34,354
(b) Markets	Z—II } Z—III }	1 1	2,04,216 7,67,016	2 ...	38,10,579 ...
(c) Hospitals, Maternity Homes and Dispensaries	Z—II } Z—III }	1 2	4,40,060 1,49,803	8 4	84,41,913 60,19,935
(d) Other building works	Z—II } Z—III }	2 1	22,67,645 4,58,620	5 5	36,41,833 39,12,680
Total	...	14	69,68,335	48	5,55,93,026

The statement showing the works completed and works in progress appears in Appendix No. 30.

(ii) Road Construction Branch Zone II and III.

The branch attends to the following works:—

(a) Preparing plans and estimates for resurfacing of existing roads, construction of new roads, widening of roads and improving private streets and construction of open storm water drains.

(b) Invitation of tenders and awarding contracts of road, S. W. drains, Annual petty works of roads and S. W. Drains and annual repairs petty drainage and anti flood works.

(c) Supervision of road and S. W. Drain works.

During the year this branch prepared 107 plans and estimates and invited 74 tenders and awarded 58 contracts.

A synopsis of the work done by this branch during the year is given below:—

Particulars	Completed works		Works in progress	
	Nos.	Actual cost	Nos.	Estimated cost
		Rs.		Rs.
1. Road surfacing works in Asphalt: concrete	Z—II	1	11,17,306	...
	Z—III	1	1,00,658	...
2. Road surfacing work in cement concrete	Z—II	1	3,52,051	...
	Z—III	1	2,34,659	2
3. New Roads including S. W. Drains	Z—II	6	13,57,553	10
	Z—III	8	17,59,785	3
4. Road widening	Z—II	1	1,40,460	3
	Z—III	16	48,62,092	13
5. Any other works	Z—II	2	2,83,664	4
	Z—III	2	1,89,743	...
Total	39	1,03,97,971	35	3,12,48,832

The statement showing the works completed and those in progress appear in Appendix No. 31.

(iii) Drainage Construction Branch Z—II and III.

This branch is in charge of providing and laying underground, sewers, training of major nallas and construction of Pumping Stations. This branch attends to the work of execution of these works after contracts are awarded by the Planning and Design Branch.

Synopsis of the work done by Drainage Construction Zone—II and III.

Particulars	Completed works		Works in progress	
	Nos.	Actual cost	Nos.	Estimated cost
		Rs.		Rs.
1. Sewer works	Zone—II	13	38,42,838	33
	Zone—III	8	23,61,667	2
2. Pumping Stations	Zone—II	1	17,00,000	...
	Zone—III	...	...	1
3. S. W. Drains	...	...	...	...
4. Nallas	Zone—II	...	...	...
	Zone—III	11	27,77,900	6
5. Miscellaneous	Zone—II	...	...	7
	Zone—III	1	68,898	...
	34	1,07,51,303	49	2,53,57,914

The statement showing the works completed and those in progress appear in Appendix No. 32.

The progress of work of sewers and S. W. Drains carried out through contract during the year under review appears in Appendix No. 33.

(D) MAINTENANCE OF MUNICIPAL BUILDINGS

Buildings.

The total number of Municipal Buildings in the Suburbs during the year ending 31st March 1973 was 1186 as detailed below:—

(a) Housing—			
(i) Structures	...	772	(Tenements 7438).
(b) Other buildings	...	414	
Total No. of M/pal Bulds.		1186	

The work of maintenance is classified under the major heads (1) Normal Repairs (2) Special Repairs and (3) New Works. Normal repairs include works of monsoon repairs. Special repairs cover the works which are likely to increase the life of buildings or structures whereas the works of additions and alterations to the buildings as also these of providing additional amenities fall under the category of new works.

The repairs and maintenance works at Municipal properties were carried out either departmentally or through annual petty works contractors.

The total expenditure incurred on the maintenance of Municipal properties in Suburbs was Rs. 1,00,88,851, out of which an amount of Rs. 31,33,979 was spent on normal maintenance and an amount of Rs. 69,54,872 was spent on new works and special repairs works. Works costing Rs. 9,39,090 were carried out Departmentally and works costing Rs. 91,49,761 were carried out through the annual petty works contractors. Total number of work orders issued to the petty work contractors in Suburbs was 1410. The budget-wise break up of the total expenditure incurred on the maintenance of the Municipal properties is as under:—

		Expenditure on normal Maintenance	Expenditure on New works and special repairs	Total
		Rs.	Rs.	Rs.
Budget A	...	25,17,163	52,44,223	77,61,386
Budget B	...	4,39,019	5,14,243	9,53,262
Budget E	...	1,77,797	11,96,406	13,74,203
Grand Total	...	31,33,979	69,54,872	1,00,88,851

E—MAINTENANCE OF ROAD AND FOOTPATHS.

The length of various types of roads maintained in the Suburbs was as under:—

Sr. No.	Type of Roads	Suburbs
		K.M.
1	Cement Concrete	... 70.06
2	Black Topped	... 477.23
3	Water Bound Macadams	... 13.88
4	Unmettalled Moterable	... 9.90
	Total	... 571.07

An amount of Rs. 39,72,955 was spent on repairs to pot-holes and carriageways and 3,16,890 sq. m. of different types of road surfaces were improved departmentally at a total cost of Rs. 43,36,178 as detailed below:—

Mode of Improvement	Area in sq. metres	Expenditure
		Rs.
(a) Sheet Asphalt	...	...
(b) Chip on Asphalt Road	... 20,000	45,000
(c) Semi grouting	... 90,550	15,41,624
(d) Asphalt Concrete	...	...
(e) Surface dressing	... 2,06,320	27,49,554
Total	... 3,16,890	43,36,178

Information regarding improvements of private roads is given in Appendix Nos. 34 and 35.

1. Total length of the roads in the Suburbs was 571.07 K.M. at the end of year.

2. *Private Streets*.—Action under Section 305 was started in 6 cases as shown in Appendix No. 36.

3. *Foot-paths*.—555 metres new footpaths were constructed during the year.

4. Measures to reduce floodings such as cleaning and desilting of drains, nallas etc. were taken in 18 places at a cost of Rs. 3,53,542.

5. *Street Name Boards*.—An amount of Rs. 64,710 was spent on fixing new street name board and an amount of Rs. 12,644 was spent on repairs to the existing ones.

6. *Widening of Roads consequent upon the Acquisition of Setbacks*.

An area of 81,636 sq. m. of set back land was added to the public road at a total cost of Rs. 26,53,091 and the compensation claims settled during the year amounted to Rs. 14,93,465.

7. *Benches*.—100 benches on roads and footpaths were maintained.

8. *Guard Railings*.—2570 metres of Guard Railings were maintained during the year.

Permits

Opening of Roads and foot-paths.—During the year 6152 permits were issued for excavation in roads and footpaths. The cost of reinstatement of disturbed surfaces was charged to the respective permit holders and the trenches were repaired at a total cost of Rs. 19,04,963. The total amount of road opening fees recovered was Rs. 12,717.

Occupation of Roads and foot-paths.—125 permits were issued for occupation of roads for erecting mandaps, placing chairs and benches etc. and the total amount realised therefrom was Rs. 963.

89 permissions for new bus shelters on roads and footpaths were granted.

Details of work (other than sewage) carried out under 'Loan Works' are given in Appendix No. 37.

F.—MAINTENANCE OF DRAINS & SEWERS.

The work consists of (i) cleansing and maintenance of all underground sewers and storm water drains and open channels (ii) making street connections from the drainage system of properties to sewers and storm water drains.

The work of systematic cleansing of common house drains and pipes sewers was done as detailed in the table given below :—

	Length cleaned in metres.	Silt removed in Tonnes.
(1) House Drains.	1,76,269	4,725
(2) Pipe Sewers.	71,555	3,639

Repairs to manholes and gratings of water entrances :—

The statement below shows the details of the work done :—

	Total No.	Total cost. Rs.
(1) Repairs to manholes	316	66,000
(2) Replacement of gratings.	227	* 1,11,387
(3) Removal of vent shafts.	15	2,420

Street connections.—During the year 564 street connections of the buildings were made to sewers.

Requisitions in respect of house drains.—854 Requisitions under various sections of the Act were issued against house owners for rectifying drainage defects.

Miscellaneous works and amenities.

(1) *Village Amenities*.—Minor works such as concreting passages etc., were carried out in Gaathan areas from the lump sum grant provided under village amenities at a cost of Rs. 16,24,564.

(2) *Public sanitary conveniences*.—Public sanitary conveniences were constructed at various places at a cost of Rs. 1,90,699.

(3) *Ferry Services*.—The ferry services between Versova and Madh in 'K' Ward, between Marve and Manori in 'P' Ward and between Borivli and Gorai in 'R' Ward were operated through contractors and an amount of Rs. 10,327 realised from them.

G.—STREET LIGHTING]

The total No. of the electric street lights at the end of the year, was 18,995 in suburbs and extended suburbs as against the total of 17,455 numbers in the previous year.

The total recurring cost of all these lights came to Rs. 66,06,264 as against Rs. 49,88,350 in the last year.

The details of different types of lamps are shown below:—

T. F. lamps.	HP.M.V. lamps.	T. Bollard.	Total.
11417	7446	132	18995

The Graphs showing the progress of work at appendices No. 38 & 39 are self-explanatory.

The street lighting on the important roads was improved.

A traffic signal at the junction of Swami Vivekanand Road and V. P. Road Bandra has been provided.

Appendix No. 40 shows the names of roads on which regular lines were prescribed or proposed under Section 297 of the Bombay Municipal Corporation Act.

H.—INSPECTION & SUPERVISION OF PRIVATE BUILDINGS.

Building Proposals.—2,984 proposals under Section 337 and 342 of Bombay Municipal Corporation Act for erection of new buildings and for additions and alterations to the existing buildings were received during the year. The particulars are as under:—

Wards	Proposals received.		Total No. of proposals.	No. of proposal passed	
	Section 337	Section 342		Section 337	Section 342
H, K, P & R ...	1505	546	2051	1227	351
L, M, N, & T ...	656	277	933	665	126
	2161	823	2,984	1892	477

New Buildings.—The position of residential and non-residential tenements constructed by different agencies (other than Municipality) was as under:—

Wards	No. OF PROPOSALS UNDER AGENCIES		
	Private enterprises.	Co-operative Societies.	Employers for their employees
H, K, P & R ...	807	263	20
L, M, N & T ...	380	208	13
	1187	471	33

The No. of proposals for non-residential buildings by private enterprises was 747.

	H, K, P & R Wards.	L, M, N, & T Wards.	Total
(1) Completion certificates received during the year ...	969	421	1390
(2) Permits for building or building houses issued ...	1578	791	2369
(3) Total No. of buildings dealt with ...	4598	933	3480
(4) Total No. of buildings applications ...	2051	933	2984

Details of the tenements constructed by private parties are given in Appendix No. 41.

Details of the layout, Amalgamation and Sub-Division in the Suburbs and Extended Suburbs are given in the table below :—

Wards.	PROPOSALS FOR					
	Lay outs		Amalgamation		Sub-division under Section 302.	
	Received	Sanctioned	Received	Sanctioned	Received	Sanctioned
H	5	1	19	3	20	2
K	30	6	38	5	37	9
P	30	10	20	8	20	11
R	16	6	10	3	29	7
L	2	1	2	...	14	5
M	25	12	37	31	18	8
N	21	4	16	4	6	4
T	8	4	3	2	16	8

The following statement shows the number of proposals received for the Commencement Certificates in respect of T. P. Scheme areas during the year 1972-73.

Serial No.	Wards	Total No. proposals received.	No. of proposals approved.
(1)	H	80	44
(2)	K	76	20
(3)	P	4	3
(4)	R	55	25
(5)	N	26	13

Building Collapses.—The number of buildings or portions thereof collapsed during the year was 23 and the number of persons killed and injured was 11 and 20 respectively. The estimated damage to property was Rs. 1,43,825.

Actions under different Sections of the Municipal Act.—The number of notices issued under different relevant sections of B. M. C. Act was 1667. 476 notices were complied with during the year and 1191 notices were still pending compliance at the close of the year.

Removal of unsafe buildings.—2 unsafe building or portions were removed departmentally under Section 489 of the Act at a cost of Rs. 14,876.

Authorities granted under Section 4DD of the Act.—56 Authorities were granted under Section 499 of the Act to carry out repairs to buildings. The number of tenants who took advantage of the same was 199.

Unauthorised structures.—During the year 6741 unauthorised structures were detected. In addition, 2753 cases of previous year were pending disposal. Unauthorised works in 679 cases were removed by parties themselves while in 1876 cases, the unauthorised works were removed departmentally under section 352-A of the Act.

Complaints from the public.—The number of complaints received from the public was 6672. Together with the 858 cases of the previous year pending disposal the total No. of complaints dealt with was 7530. Out of these, 6660 complaints were looked in to and disposed of and action in 870 cases was in progress, at the close of the year.

I.—FACTORY SECTION.

The following table shows the position in the Suburbs of the factory Section:—

Serial No.	Particulars.	Suburbs.
1.	No. of applications received during the year.	1,398
2.	No. of Applications of previous year of pending disposal	81
3.	Total No. of applications.	1,479
4.	No. of applications disposed of	1,367
5.	No. of applications undisposed of	112
6.	No. of new permits issued	976
7.	No. of Old permits renewed	1,342
8.	No. of Prosecutions launched.	1,227
9.	No. of prosecutions decided in favour of the Corporation	948
10.	No. of prosecutions pending.	432
11.	Amount of fine received	Rs. 28,555
12.	Total Revenue collected	Rs. 7,49,465.

(I)—DEVELOPMENT BRANCH

Acquisition of Land—Suburban Section

Possession of 10 properties was obtained through the land Acquisition Proceedings and 25 properties were acquired by negotiations. Awards were made by Special Land Acquisition Officer in respect of 16 properties. Proceedings under Land Acquisition Act in respect of 104 properties were in progress. Proceedings to acquire lands by negotiations were in progress in respect of 147 properties. Set-back land rates in respect of 39 set back cases were fixed for making payment of compensation of land acquired for widening of various roads and lanes and standard rent in respect of 12 Municipal properties was fixed.

TOWN PLANNING SCHEMES IN SUBURBS AND EXTENDED SUBURBS.

There are 25 Town Planning Schemes in Suburbs.

(A) Following are the Town Planning Schemes which have been finalised and are in force.

* (1)	Town Planning Scheme—Bandra No. I
(2)	do. Bandra No. II (2nd variation)
* (3)	do. Bandra No. III (Principal)
(4)	do. Bandra No. IV (1st variation)
(5)	do. Bandra No. V (1st variation)
(6)	do. Bandra No. VI (1st variation)
(7)	do. Bandra No. X
(8)	do. Santacruz No. I (1st variation)
* (9)	do. Santacruz No. II (1st variation)
(10)	do. Santacruz No. III (1st variation)
(11)	do. Santacruz No. IV (1st variation)
* (12)	do. Santacruz No. V
(13)	do. Santacruz No. VI
* (14)	do. Vile Parle No. I (1st variation)
* (15)	do. Vile Parle No. II (Principal)
(16)	do. Vile Parle No. III (1st variation)
(17)	do. Vile Parle No. IV-IVA (1st variation)
* (18)	do. Vile Parle No. VI (Principal)
* (19)	do. Andheri No. I (1st variation)
* (20)	do. Andheri No. II (1st variation)
* (21)	do. Andheri No. VI (1st variation)
(22)	do. Ghatkopar No. I (1st variation)
(23)	do. Ghatkopar No. II (1st variation)
(24)	do. Ghatkopar No. III (Principal)

The works included in the finalised schemes have been mostly completed except those which could not be completed due to various difficulties such as removal of hutments on the plots reserved for public purposes and roads after providing alternative accommodation to the occupants thereof. The Ward Offices in charge of implementation of the schemes were taking suitable steps in the matter.

Implementation of Town Planning Scheme.

- (a) No. of plots taken over by the Corporation 137.
 (b) No. of plots handed over to the owners 37.
 (c) Details of execution of T. P. Schemes.

Nature of the work	No. of works	Actual expenditure incurred between 1-4-72 & 31-3-73
		Rs.
1. Building works ...	...	...
2. Road works ...	1	11,770
3. Drainage works ...	5	7,86,159
4. Any other works ...	...	3,49,536

(d) Total expenditure incurred on T. P. Scheme works Rs. 11,47,465.

(e) Amount of contribution charges collected Rs. 1,89,320.25.

B.—Draft Schemes and variation of schemes

The Town Planning Schemes which have been marked with asterisks under (A) above have been declared for variation so as to bring them in conformity with the final Development Plan as required under Section 39 of the Maharashtra Regional and Town Planning Act 1966. The said schemes except Town Planning Scheme Ghatkopar No. III (1st varied) have been submitted to the Government for sanction after complying with all formalities prescribed under the aforesaid Act. As regards Town Planning Scheme Ghatkopar No. III the work was in progress.

Town Planning Scheme Vile Parle No. V (Principal Draft) has been sanctioned by the Government on 26th December 1970 and the Arbitration proceedings were in progress.

(C) Town Planning Schemes which were before the Town Planning Officer (Arbitrator under the Maharashtra Regional and Town Planning Act 1966) are:—

- | | |
|------|--|
| (1) | Town Planning Scheme Bandra No. I (1st variation). |
| (2) | do. Santacruz No. II (2nd variation). |
| (3) | do. Santacruz No. V (1st variation). |
| (4) | do. Vileparle No. II (1st variation). |
| (5) | do. Vileparle No. V (Principal). |
| (6) | do. Vileparle No. VI (1st variation). |
| (7) | do. Vileparle No. I (2nd variation). |
| (8) | do. Andheri No. I (2nd variation). |
| (9) | do. Andheri No. II (2nd variation). |
| (10) | do. Andheri No. VI (2nd variation). |

Out of the above the Arbitrator has made his award in respect of Town Planning Scheme Bandra No. I (1st variation) on 29th June 1972 and that of Town Planning Scheme Vile Parle No. VI (1st variation) on 29th May 1967, the finalisation of the latter scheme is pending due to Court action. Town Planning Schemes Vile Parle No. II (1st variation) and Andheri No. II (2nd variation) have been finally submitted to the Government by the Arbitrator on 10th December 1971 and 3rd April 1972 respectively.

Extended Suburbs

There are 4 Town Planning Schemes in the Extended Suburbs.

- | | |
|-----|---|
| (1) | Town Planning Scheme Malad No. I (1st variation). |
| (2) | do. Borivli No. I (1st variation). |
| (3) | do. Borivli No. II (1st variation). |
| (4) | do. Borivli No. III (Principal Draft.) |

Out of these 4 Town Planning Schemes the first one has been sanctioned by the Government and finalised and was in force. It is being implemented by the W. O. 'P' Ward. The schemes at Sr. Nos. 2 and 3 were still before the Arbitrator. The fourth one, viz. Town Planning Scheme Borivli No. III (Draft) was before the Improvements Committee and the Corporation awaiting approval for publication inviting objections and suggestions to the proposals made thereunder.

(L)—SUBVENTION SCHEMES

(1) In all 906 notices under Section 213 were served. In 513 cases parties submitted their proposals and in 585 cases house owners carried out the work in compliance with the notices served on them.

In all 249 notices under Section 248(i)(c) of the Bombay Municipal Corporation Act for conversion of basket privies into water closets in full flushing system were served on the house owners. In 55 cases privies were converted into water closets on full flushing system. The total amount of subsidy paid during the year was Rs. 1,07,879.

2. The Corporation under their Resolution No. 2102 dated the 17th May 1958 and No. 958 dated the 17th November 1958 had approved of granting subsidy of Rs. 200 per aqua privy seat and also similar subsidy for commodes being converted into W. C. on full flushing system on the basis of Basket privies. For the expeditious implementations of the above schemes, the Corporation under their resolution No. 292 dated the 6th July 1967 have sanctioned (1) an increased subsidy of Rs. 500 per privy seat converted into a water closet on full flushing system in sewerred areas and (2) a subsidy of Rs. 800 per privy seat converted into a water closet on septic tank system in unsewerred areas, in respect of the existing buildings only in the City, Suburbs and extended suburbs.

3. Similarly the owners from the suburban areas have also been allowed to draw subsidy of Rs. 50 per W. C. seat of the premises having septic tanks for disconnecting the flow of waste water from septic tanks and connecting the same to the Municipal sewers as per Corporation Resolution No. 794 dated the 24th October 1958 and C. R. No. 1770 dated the 31st March 1959.

(M)—MECHANICAL BRANCH (NORTH & PROJECT)

The following sections are under administrative supervision and control of Executive Engineer Mechanical (North & Project).

- | | |
|---|---|
| (1) Dadar Purification Works | } Detailed report included in City Section. |
| (2) Dharavi Purification Plant | |
| (3) Sewage Pumping Stations and Purification Works in Suburbs. | |
| (4) Maintenance of Electrical Installations in Suburbs. | |
| (5) Road Roller Section and Mechanical Outdoor Section in Suburbs. | |
| (6) Planning and construction for Mechanical and Electrical Works for Drainage Installations (Pumping and Purification Works in City & Suburbs.). | |

Sewage, Pumping and Purification Plants in Suburbs.—Three sewage purification plants in suburbs viz. Khar, Versova and Ghatkopar Purification Plants, each having a Primary Treatment capacity of approximately 9 millions litres per day worked satisfactorily during the year except for the period during which minor break down occurred.

Versova Purification Plant

The following major repair works were carried out—

(a) *C. F. S. Tank.*—This unit was out of Commission as the work of repairs of uptake tube and rotating and scraping mechanism was to be carried out. The work was nearing completion. All other units were in working order.

Ghatkopar Purification Plant

(a) *Digestion Tank*.—The work of providing the epoxy paint was completed. The work of replacement of uptake tube was in progress. All other units were in working order.

Khar Purification Plant

This Purification Plant worked satisfactorily during the year. No major repairs were carried out.

The ten sewage Pumping Stations in Suburbs (7 independent and 3 attached to purification plants) worked quite satisfactorily during the year. The total quantity of sewage pumped out was 57,038 millions litres. 11th Pumping Station at Kherwadi was put into commission this year.

The salient features of operations and performances at the pumping stations are given in the appendix No. 42. A graph showing the sewage pumped in the subs. for the last six years is shown in the appendix No. 43.

Maintenances of Electrical Installations in Suburbs.

Along with Installation of water pumping sets and new Electrical Installations, repairs to the Electrical appliances of Hospitals, Markets, Schools office buildings and Gardens in the suburbs were carried out by Electrical staff attached to the various wards. The work was carried out satisfactorily.

The expenditure on the works of Maintenance of Electrical Installation new Installations, Rewiring and repairs carried out during the year 1972-73 amounted to Rs. 5,25,482. Some works such as new Electrical Installations, plumbing work of fountain etc., were carried out by contract by inviting quotations. The expenditure on this work amounted to Rs. 72,528.

108 Estimates amounting to Rs. 6,09,301 for the rewiring new wiring and installation of water pumping sets, were prepared and forwarded to the proper Authorities in the various Wards, in Suburbs and extended suburbs.

The work of installation of water pumping sets and erection of electrical installation was carried out by inviting the tenders at a cost of Rs. 56,973.

The work of construction of fountains at Kurla, Mulund and Santacruz was completed. The Installation of water pumping sets at schools in 'K' Ward was in progress. Similarly the installation works at Chembur Fire Brigade, N. W. Ward School, Kurla, Akurli School, Labour Camps Chembur were also taken in hand. The Electrical Installation of A. A. & C. Office at Andheri was almost completed.

Road Roller Section, Khar, Suburbs

There were 23 Road Rollers for the entire area of Suburbs and Extended Suburbs out of which 6 were steam Rollers and the remaining 17 were Diesel Rollers (including one Sherpa Roller).

Out of the above 17 Diesel Rollers 3 Nos. of 3 ton. Rollers were sent to Jalgaon Zilla Parishad for scarcity Relief Work on 20th January 1973. And 2 Nos. of 10 ton Rollers were sent to Nasik Zilla Parishad on 12th and 13th of February 1973 for similar work.

At the end of the year 2 Nos. of new 4 Ton, Diesel Road Rollers were purchased.

On an average 70% of the Road Roller fleet was on the road during the year.

Outdoor mechanical repairs at various installations such as Hospitals, Markets, Schools, Gardens and office establishment etc., in Suburbs and extended suburbs were carried out by outdoor staff.

The repairs works generally consisted of repairs to collapsible gates, Rolling shutters, Iron gates, Tar boilers, Water tank, repairs to pumps and such other minor mechanical jobs costing Rs. 46,115.

Mechanical Works

Planning & Construction for Mechanical and Electrical Works for Drainage Installations (Pumping and Purification Works) and Swimming Pools in the Suburbs and Extended Suburbs.

(A) Suburbs and Extended Suburbs.

Sr. No.	Name of the work	Remarks.
1.	Kherwadi Pumping Station ...	Work completed and pumping station was commissioned.
2.	Replacing the existing two old pumps by two new pumps at Jaibharat Pumping Station.	The test and trials were taken and pumps were commissioned.
3.	Replacement of uptake tube at Ghatkopar Purification Plant.	The work of replacement of uptake tube was nearing completion.
4.	Replacement of rotating mechanism for P. S. T. at Versova Purification Plant.	The work was completed and P. S. T. was commissioned.
5.	Mulund Pumping Station ...	Civil, mechanical and electrical work was in progress. Specifications for supply and installation of H. T. Switchgear Transformers etc., were being prepared.
6.	Augmenting the capacity of Ghatkopar Pumping Station.	Specifications & estimates for additional pump were prepared. Revised draft tender was put up for approval.
7.	Proposed pumping station at Goregaon (West).	Proposal was finalised and put up for Standing Committee's Sanction.
8.	Construction of sub-station including electrical equipments viz. H. T., L. T. Switchgears, transformers etc., at Versova Purification Plant.	Specifications and estimates were being prepared.

(N)—ELECTRICAL BRANCH (SUBURBAN AREA)

The activities of the different sections of the Electrical Branch during the year under report were as under:—

(1) Planning and Design Section.

In all 37 estimates amounting to Rs. 28,57,445 were prepared, 32 draft tenders finalised 20 tenders invited and 16 tenders amounting to Rs. 8,53,954 were recommended.

The details of the works carried out by this section are given in Appendix No. 44.

(2) Building Construction Section (Zone II & III).

There were 8 works in Zone II and 5 works in Zone III together amounting to Rs. 4,17,553 completed and 9 works in Zone II and 15 works in Zone III together amounting to Rs. 21,40,099 in progress during the year as shown in the Appendix No. 45.

(O)—TRANSPORT BRANCH

Transport services for Suburban section were rendered from different garages in the Eastern & Western Suburbs. From Kurla and Vikroli and Chembur the services were rendered to the Eastern Suburbs and from garages at Santacruz, Malad & Borivli to the western suburbs.

There were 263 vehicles in the suburban transport fleet at the end of the year under report.

These vehicles were used for rendering various civic services as shown below:—

Name of the Service.	No. of vehicles allotted
1. Health Services.	
(a) Mobile Dispensaries	3
(b) Pest Control	10
(c) School Clinic	5
2. Conservancy Services.	
(a) Refuse removal	86
(b) Cesspool removal (Manual)	54
(c) Cesspool removal (Mechanical)	11
(a) Dog Vans.	5
3. Other Departmental Services.	
(a) Encroachment removal	8
(b) Ward Trucks	23
(c) Firevan, Cashvan, Minibuses Breakdown vans etc....	40

During the year under report 9 vehicles were scrapped and sold.

*Working of garages:—*The overall efficiency of the fleet was maintained at an average of 80% throughout the year. The average efficiency of different garages is shown below against each of them.

Name of garage.	% of efficiency.
(1) Santacruz garage & Workshop.	85 to 90%.
(2) Malad garage & Borivli garage	80 to 85%.
(3) Kurla Garage.	70 to 80%.
(4) Vikroli Garage.	70 to 80%.

The department earned income of Rs. 67,35,503/- by way of transport charges from different users of these vehicles.

(P)—CONSERVANCY BRANCH

The Suburbs and Extended Suburban area has been divided into 4 Ranges— two ranges on the Western side viz. H & K Wards and P & R Wards and two ranges on the Eastern side viz. L & M Wards and N & T Wards for the discharge of administrative and executive functions of the Branch each under the supervision and control of an Assistant Head Supervisor subject to overall control of the Head Supervisor and Dy. C. E (M. & C.).

1. Collection of Refuse.

House hold, Trade Refuse and sweepings from roads were collected in Municipal Refuse bins. Municipal refuse bins and Refuse containers were attended to daily, on alternate days and weekly depending on the intensity of refuse in various sections.

All the public roads, footpaths and house gullies were cleaned and quantity of refuse and other waste matter removed during the year under report was approximately 2,27,569 tonnes, average per day being 640 tonnes.

2. Transportation of Refuse.

Removal of refuse was done by mechanical traction. Total number of vehicle shifts made were 45,191 of which 27,363 were by Municipal vehicles and 17,828 by hired vehicles. Thus 61% of the refuse was transported in Municipal vehicles and 39% in hired vehicles.

3. Disposal of Refuse.

The final disposal of refuse was done by reclaiming low-lying land at Oshiwara, Ghincholi, Malad, Gorai in Western Suburbs and Deonar, Kumrajnagar, Ghatkopar and Mulund in Eastern Suburbs. Total refuse deposited in Western and Eastern Suburbs Dumping Ground was 1,44,185 tonnes and 89,378 tonnes respectively.

4. Collection, Removal and Disposal of Night Soil.

There exist 5,915 basket privy seats as against 6,428 for previous year, 513 basket privies were either demolished or converted during the year.

The Night Soil and Cesspool contents were disposed of at the night soil Depots at the following places.

- | | | | |
|------------|--------------|----------------|--------------------------|
| (1) Khar. | (2) Versova. | (3) Oshiwara. | (4) Gorai Road, Borivli. |
| (5) Malad. | (6) Kurla. | (7) Ghatkopar. | (8) Mulund. |

5. Cesspool Clearance.

During the year under report total cesspool contents of 5,41,845.23 kilo litres were removed from 3,194 cesspools giving an average of 1434.51 kilo litres per day, the average total clearance per cesspool being 169.64 kilo litres. Removal of Night Soil and Cesspool contents was done by Municipal Cesspool vehicles making approximately 57 vehicle shifts per day.

6. Public and Private Latrines and Urinals.

During the year under report, 1053 public latrines were maintained. They comprised privies on full flushing system, basket privies and septic type or aqua privies. Total number of private latrines maintained by the Department was 19,097.281 urinal stalls were also maintained during the year.

7. Prevention of Nuisance

During the year 4,856 cases were made for urinating and throwing refuse on public roads under Section 115 of the Bombay Police Act.

8. Removal and Disposal of Dead Animals.

The work of removal and disposal of carcasses was carried out with the help of the same contractor as that for the old city limits.

9. Conservancy and Special Halalkhore Services.

These services were rendered to Circus, exhibitions, big concerns, industrial establishments etc., on payment of scheduled charges and the total income from various sources earned by Conservancy Branch (H & K, L & M, N & T, P & R Wards) during the year was Rs. 1,06,826.

10. Dog Licensing and Destruction work.

The work of licensing pet dogs as well as capturing and destroying stray dogs was carried out. During the year under report, 5,305 pet dogs were licensed and 35,584 stray dogs were captured.

11. Conservancy Staff quarters.

65 chawls in charge of Conservancy Branch with 1293 tenements were regularly inspected and prompt action taken for rectifying sanitary as also structural defects noticed. Out of the 3,200 employees about 45% staff have been provided with housing accommodation.

No new chawls were constructed during the year.

12. Labour Welfare.

There were 7 Welfare Centres working at—

- | | | | |
|---------------|-----------------|--------------|---------------------------------------|
| (1) Khar. | (2) Andheri. | (3) Versova. | (4) Municipal staff quarters at Kurla |
| (5) Vikhroli. | (6) Chembur and | (7) Mulund. | |

There were also co-operative credit societies of which staff members took advantage.

13. Expenditure on Conservancy Services.

The total expenditure incurred on Conservancy services was Rs. 2,72,62,920.

Removal and Disposal of City Refuse at Deonar Dumping Ground.

About 404.635 hectares (1000 acres) of land spread over about 4 portions of deep creeks at Deonar is taken over on lease from the Government by the Corporation for the purpose of disposal of city refuse as well as to reclaim land in Kurla at Deonar. The area is considerably large and the site will be available for dumping refuse for many years to come.

The major portion of city refuse from A, B, C and D Wards is generally collected at Mahalaxmi Siding and the same is transported from Mahalaxmi to Deonar Reclamation Ground by two trains daily i. e. one train in the afternoon and the other at night. The refuse from the remaining wards is diverted to Dharavi Dumping Ground by lorries.

Statistical data regarding expenditure and revenue of the office of Kurla Deonar Railway is as follows:—

I.—Expenditure.						Rs.
1.	Haulage charges.	...	...	...	...	2,12,477.20
2.	Detension charges.	...	...	...	...	3,244.20
3.	Hire charges.	...	...	...	...	92,587.60
4.	Maintenance of Siding at Kurla.	...	...	...	...	700.00
5.	Wages of Pointsmen to Central Railway.	...	...	...	...	450.00
6.	Purchase of materials from C. S.	...	...	...	...	8,431.00
7.	Purchase of materials from Municipal Workshop.	...	...	...	...	...
8.	Telephone Bills.	...	...	...	...	1,990.30
9.	Wages of superior and labour staff.	...	...	...	...	3,40,235.98
10.	Total amount paid to contractor for unloading 1,27,234 refuse wagons....					5,71,530.73
11.	Repairs to road leading to Gajanan Colony at Chembur and repairs to Chawls at Chembur					58,000
12.	Replacement of existing 31.29 Kg. (69 lbs.) rail track II class 40.821 Kg. (90 lbs.)					9,27,198.00
Grand Total Rs.						22,16,395.01
II.—REVENUE.						Rs.
1.	Sale of right of cultivation.	...	...	...	...	1,08,000.00
2.	Ground and Building Rent.	...	...	...	...	32,342.20
3.	Sale of Sewage Water.					16,636.00
Total Rs.						1,56,978.20

III.—Statement showing expenditure per Tonne of refuse.

Sr. No.	Particulars.	Previous year 1971-72	Current year 1972-73.
(1)	Number of wagons received at Deonar	10858 Nos.	12724 Nos.
(2)	Quantity of refuse on an average 17 tonnes per wagon.	184586 Tons.	2169398 Tons.
(3)	Cost of Haulage and detension.	Rs. 3,97,000.00	Rs. 31,5721.40
(4)	Cost of unloading the wagons.	Rs. 32,08,86.00	Rs. 5,71,530.73
(5)	Cost of per Tonne of refuse for transporting and unloading.	Rs. 3.92	Rs. 4.06
(6)	Cost per tonne of refuse for the entire expenditure of K.D. Rly. Deptt.	Rs. 5.42	Rs. 5.69

IV.—The position of the Municipal Rolling stock at the end of the Year, was as under:—

Serial No.	Description.	Total.
(1)	Refuse wagons in running condition on 1-4-1972. Municipal 37 plus Hired 60	97 Nos.
	29 new Jhansi 8 old BMC 18 New 42 old	
(2)	Silt wagons in running condition.	Nil.
(3)	Brake wagons in running condition. Municipal 4 Hired 0	4 Nos.
(4)	Sick wagons Municipal 10 Hired 8	18 Nos.

Some wagons were hired from Western Railway at a hire charge of Rs. 5.40 per wagon per day. To minimise the hire charge it was proposed to purchase the wagons from Central Railway. Accordingly during the year under report 29 New wagons were received at Mahalaxmi from Jhansi and out of these wagons 27 wagons were put in service and the remaining two wagons were altered.

The cost of maintaining Mahalaxmi Chembur Railway Siding was Rs. 71,554.75. The land reclaimed was 500.44 acres (202.521 hectares) upto March 1972. Upto end of the year 1972-73, only 8.50 acres (34.398 hectares) were reclaimed.

Total income from various sources i.e. sale of Right of Cultivation, Sale of Sewage water, Ground and Building Rent etc., amounted to Rs. 1,56,978.20.

During this year there was no incident of derailment of wagons or engines. There was only one incident of fire but the same was extinguished by using Bull-dozer.

The work of laying 40,821 kg. (90 lbs.) Rail track was completed by the Central Railway. The rail track was constructed on the embankment which was filled up by good murum. An embankment for a length of 243.64 meters (303') was constructed in the Khariland from the end of 40,821 kg. (90 lbs.) track and also the rail track of 31,296 kg. (69 lbs.) was laid on the new embankment constructed in the Khariland.

The unloading work was entrusted to Messrs. Morarji Vallabhdas & Company from 22nd March 1973. As per the new contract the unloading of refuse from the wagons is to be done manually and it is to be dumped upto a distance of 15.24 meters (50 ft.) on either side of the rail track, manually and beyond this to a distance of 26.66 meters (87.5') with a bull-dozer (approximately 6 tonnes) so as to have an embankment 85.33 meters (280') wide at any time.

Plot No. 1 was not given for cultivation purpose but the same was handed over to Slum Improvement Department. The work of construction of D.P. Road, Central Road, Sanitary blocks etc., were in progress.

Achievements

During this period the work of replacing 31,296 kgs. (69 lb.) rail tracks by 40,821 kgs. (90 lbs.) rail track was completed by the Railway authority.

Fifty numbers of railway wagons were ordered to be purchased from Central Railway, Jhansi. 29 were received during the period under report.

The system of unloading of refuse from manual unloading was changed to semi-manual unloading and use of Bull-dozer for levelling and consolidating was introduced.

J. R. PATWARDHAN,
B.E. (Civil), M.E. (P.H.), A.M.I.E.,
City Engineer.

APPENDIX No. 1.

Statement showing the progress of works under Slum Improvement Schemes during the year ending 31st March 1973.

Serial No.	Ward	Name of Colony.	Approx No. of hutment.	Progress.
1	D	Hay Stack Road.	126	Works of sanitary Blocks passages washing places, and lighting completed.
2	"	Colony at Approach Road	2000	Out of 200 sanitary Blocks 184 nearly completed; passages completed; Bathrooms and washing places nearing completion.
3	"	Transit camp site for tenements at Body Guard Lane.	2000	do.
4	E	Dock Yard Road Colony.	500	Only one sanitary Block has been provided by the ward. No further amenities could be provided by the Slum Improvement Department for want of open space.
5	F/S	2nd October Colony.	1479	Out of 150 w.cs. 110 w.cs. were nearly completed; Six w.cs. were provided. Passages nearly completed. 12 lights were provided by B.E.S.T. and remaining lights were being provided departmentally.
6	"	Bhoiwada Colony	119	Sanitary Blocks, sewer passages lights completed.
7	"	Sewri X Road	128	Out of 30, ten w.cs. were provided. The work on remaining w.c. was in progress. Work on washing places was in progress.
8	"	Extension to 2nd October Colony	668	Out of 67 w.cs. 30 w.cs. provided; site for remaining w.cs. was not available; passages provided; lights on main-roads provided, remaining to be done departmentally.
9	"	Dabholkar Adda.	1000	Out of 105, 55 w.cs. are completed and 50 w.cs. nearing completion; 20 water taps were provided; 16 to be provided. 10 community baths provided passage with drains provided wherever possible.
10	"	Permanand Wadi	375	40 w.cs. nearing completion passages with side drains were provided; water taps and lights were provided.
11	"	Ganesh Nagar Krishna Nagar	270	20 w.cs., 2 washing places with 5 taps and some passages were provided.
12	"	Prabuddha Nagar	200	10 wcs. were completed and 10 were nearing completion. 8 water taps were provided and 4 were to be provided. Passages provided wherever sites were available. The remaining passages couldnot be taken up for want of cement. Lights still to be provided.
13	"	Turner Sanitorium	200	20 w.c.s and 4 water taps provided; passages partly provided; lights still to be provided.
14	"	Wagheshwari Baradevi.	110	20 w.cs. 2 washing plaecs with 5 taps were provided.
15	F/S	Aarsha Nagar	250	Out of 25 w.cs. 22 were completed; remaining were in progress; 8 water taps were provided; passages with side drains were completed. lights still to be provided.
16	"	Ram Tekdi, Laxman Tekdi	400	40 w.sc were completed, six water taps were provided. 1/3 passages with side drains were completed. Remanining were could not be done for want of cement; lights not yet provided.
17	F/N	Plot No. 10, Sewri Widala Scheme 57	1297	45 w.cs. were completed, 14 w.cs. were in progress; 16 washing places with 39 taps were provided; passages with side drains were provided.
18	"	European Cemetery	300	20 w.cs. were provided washing places were existing, 8 water taps and 2 Bathrooms passages with side drains were provided.
19	"	Plot on the north	1500	45 w.c.s. were completed 62 w.cs. were in progress 24 washing places with 72 taps were completed. Passage with side drains were provided in most of the area.

APPENDIX No. 1—Contd.

Serial No.	Ward	Name of Colony.	Approx No. of hutment.	Progress.
20	G/S	Dr. E. Moses Road Colony.	794	Works was completed in all respect.
21	"	Dhobi Ghat, behind Arthur Road Jail.	850	Out of 100 w.cs. 96 were nearing completion. 40 water taps were also nearing completion. Passages with side drain were provided. Lights still to be provided.
22	"	Maya Nagar	250	25 w.c.s were nearing completion 8 water taps were provided passages could not be provided for want of cement.
23	"	Gandhi Nagar	800	40 w.cs. were nearly completed and 40 were nearing completion. 20 water taps provided, passages with side drains provided.
24	"	Shanti Nagar	300	No. amount has been spent uptill now.
25	"	Janata Colony	2000	12 w.cs. 4 water taps, 3 Bathrooms and passages with side drains were completed.
26	"	Bharat Nagar	550	10 w.cs. were completed and 40 were nearing completion. 12 water taps and passages with side drains were provided.
27	"	Shiwaji Nagar	100	12 w.cs. and water taps were provided; passages and side drains not provided.
28	G/N	Shroff Wadi	1000	16 w.cs. were completed and 28 were in progress; 20 water taps were provided and 16 to be provided, passages with side drains were nearing completion.
29	"	Mukund Nagar	1000	40 w.c.s 11 w.ps. (44 taps). Passages with drains were completed. Work on 30 w.c.s. blocks was in progress. Main passages lighted.
30	"	Kala Killa	200	40 w.cs.; 5 w.ps. (20 taps) passages with drain etc., were in progress. Lights to be provided.
31	"	Khambadevi	100	40 w.c.s were completed. Work of passages with drain and washing places was in progress. Lighting to be provided.
32	"	Shastri Nagar	200	20 w.cs. & 2 washing places are nearing completion. Work of main passage with drain was in progress. Lighting to be provided.
33	"	Dhorwada	400	40 w.cs. and washing places were completed. Work on main passages with drain was in progress. Lighting to be provided.
34	"	Kamala Nehru Nagar.	300	20 w.cs. were nearly completed. Lighting was provided. 3 washing places were provided.
35	"	Plot opp. Potters Colony.	800	Work on 50 w.cs. and 3 washing places was in progress. Passages with drain could not be provided, due to shortage of cement. Street lights partly provided.
36	"	Matunga Labour Camp.	500	Work on 50 w.c.s and 6 washing places was nearly completed. Passages with drain nearly completed. Light to be provided.
37	"	Dharavi Koliwada Pilla Bunglow	500	Work of 50 w.cs. and 6 washing places was nearly completed. Passages were not taken up due to shortage of cement. Lighting to be provided.
38	"	Parking plot Senapati Bapat Marg.	200	Out of 20 w.sc. 17 were nearing completion. 4 water taps were provided and 4 were being provided. Passages with side drains were completed. Light still to be provided.
39	"	Ram Wadi, Sham Wadi, Khed Gully.	400	Out of 40 w.cs. 14 were completed, 8 water taps were provided, and 8 were being provided. Passages with side drains were completed.
40	"	Bharat Nagar Bandra	123	12 w.cs. and 3 w.ps. were already provided. Passages and lights were already provided.

APPENDIX No. 1.—Concl'd.

Serial No.	Ward	Name of Colony.	Approx No. of hutment.	Progress.
41	"	Plot North of Nalla at Slaughter House.	100	10 w.cs., 2 w.ps. and passages with drains were provided. Lighting was partly provided.
42	"	Telly Gully	250	40 w.cs. 4 w.ps. and passages with drains and street lights were provided.
43	"	Jogeshwar Squatters Colony	1500	136 w.cs. 18 washing places and passages with drain were completed. Lights were already provided.
44	M	Colony North of K. D. Railway	2700	422 w.cs. 26 washing places, passages with drain and office, welfare centre were provided. Lights to be provided.
45	"	Colony South of K. D. Railway	2720	232 w.cs. 30 washing places passages with drain office, welfare centre and street lights were provided.
46	"	Extension to Nimboni Baug.	250	20 w.cs. 2 washing places passages with drain and street lights were provided.
47	"	Ghatla Village	440	The work of 40 w.cs. 4 washing places passages with drain and street lights was in progress.
48	"	New Colony North of Slaughter Houses.	2880	360 w.cs. 30 washing places at & passages with drain were nearly completed street lights to be provided.
49	N	Upper Pada Park site Vikhroli	1100	102 w.cs. 12 washing places and passages with drain were completed. Street lights were provided.
50	"	Lower Pada Park Site Vikhroli	600	34 w.cs. 7 washing places and passages with drains were nearly completed. Street lights were provided.
51	"	Colony behind Rajawadi Hosp.	200	Not yet taken up.
52	"	F. Plot 252 T.P.S. III Ghatkopar.	256	26 w.cs. 2 washing places and passages with drain were provided. Work order for providing lights was given to B. S. E. S.
53	"	F. Plot 273 & 274 T.P.S., III, Ghatkopar.	260	30 w.cs. 4 washing places and passages with drain were nearly completed. Street lights to be provided.
54	P	Chincholi Malad	1080	80 w.cs., 5 washing places, passages with drain and street lights were provided.
55	"	Malwani Squatters Colony.	700	90 w.cs. 7 washing places filling, drain etc., were nearly completed, Passages not taken up at this stage due to shortage of cement
56	"	Mitha Nagar, Goregaon.	500	50 w.cs. 5 washing places and passages with drain were completed. Street lights to be provided.

APPENDIX No. 2.

Statement showing the works of Building Construction completed and those in progress in Zone-I—Area during 1972-73.

Serial No.	Name of work	Actual cost.
		Rs.
A—Works completed		
(a) Housing		
1	Construction of 45 tenements at Walpakhadi Mavji Rathod Road	3,38,693
2	Pile foundation for the proposed 60 tenements for Kasturba Hospital Staff at Sane Guruji Marg.	84,000
3	Pile foundation for the proposed tenements at Sector B-B2, Manaji Rajuji Road, Kamathipura	1,80,000

APPENDIX No. 2—Contd.

Serial No.	Name of work.	Actual costs
		Rs.
<i>(b) Buildings other than Housing.</i>		
4	Extension to the market at Dongri	70,102
5	Construction of a school building at Banganga	11,00,000
6	Construction of school building at Babula Tank Cross Lane	4,50,000
7	Construction of a school building on C. S. No. 1476 of Girgaon Division	3,23,440
8	Completing the remaining work of school building plot No. 66, South of S. W. Estates (including electrifications and pumping arrangements).	5,95,000
9	Stabilising Gollanji Hill at Acharya Donde Marg, Sewri	6,54,200
		37,95,435

(B) Works in progress.

Serial No.	Name of work	Estimated cost.	Expenditure upto 31-3-73
		Rs.	Rs.
B — Works in progress			
<i>(a) Housing</i>			
1	Construction of 50 tenements at Dadasaheb Phalke Road	6,84,546	1,85,931
2	Construction of 60 tenements at Body Guard Lines	8,24,017	30,455
3	64 Tenements at Bane Compound	10,98,840	35,450
<i>(b) Building other than Housing</i>			
4	Construction of a school building at Fergusson Road (Ganpatrao Kadam Marg).	16,32,472	6,94,482
5	Construction of a school building at Ghoghari Mohalla, Bhuleshwar Division	5,50,090	49,045
6	Construction of 320 bedded Hospital in the compound of G. T. B. Hospital at Sewri	29,82,838	11,95,460
7	Extension to existing school building on F. P. No. 1108, Town Planning Scheme IV, Mahim, Chowny Gully	1,83,521	73,185
8	Construction of Mortuary block for Kasturba Hospital	2,01,383	1,42,808
9	Construction of building for Fire Brigade Head Quarters at Byculla, including electrification & pumping arrangement Phase I	26,24,016	
10	Construction of a building for Fire Brigade Head Quarters at Byculla including electrification and pumping arrangement Phase II	13,90,518	12,50,038
11	Additional floor for laboratory and dispensary over the existing dispensary at Worli Koliwada	1,99,977	1,47,734
		1,23,72,218	35,52,752

APPENDIX No. 3

Statement showing the Road Construction works completed and those in progress in Zone-I during 1972-73.

Serial No.	Name of the work	Actual cost
A—Completed Works		
<i>I.—Road Resurfacing work in Asphaltic Concrete</i>		Rs.
(i)	Dr. Bhadkamkar Marg and Dr. Anandrao Nair Road from Falkland Road to Club Road ...	1,28,319.21
(ii)	Tardeo Junction ...	1,71,206.19
(iii)	Sukhalaji Street from Maulana Shaukatalli Road to Jehangir Boman Behram Marg. ...	1,10,080.45
(iv)	Jerbai Wadia Road from Hospital Avenue Road to Rafi Ahmed Kidwai Road ...	3,50,573.31
(v)	Resurfacing Kurla Street and Broach Street in Town Planning Scheme, Bombay I (Mandvi Area). ...	2,77,363.06
(vi)	Walkeshwar Road from N. A. Purandare Marg to B. G. Kher Road ...	4,36,331.52
(vii)	Dr. Annie Besant Road from Acharya Atre Chowk to Century Bazar Junction ...	13,25,929.53
<i>II.—Rad Resurfacing with cement concrete</i>		
(i)	Zakeria Bunder Road from Tokersi Jivraj Road to Sewri Road ...	3,51,525.62
(ii)	Wadi Bunder Road ...	4,42,766.69
<i>III.—Construction of New Roads</i>		
(i)	Construction of remaining portion of 24.38 M. (80) wide road joining Swatantryaveer Savarkar Marg and Gokhale Road (South) ...	2,43,764.83
(ii)	Construction of Maharshi Karve Road near Churchgate Railway Station as per realignment ...	6,30,490.75
(iii)	Construction of Gollanji Hill Road between Road No. 50, Scheme No. 57, Sewri Wadala and Sewri Cemetry as per Development Plan ...	85,175.34
(iv)	Compound paving in cement concrete inside F/South Ward Office Compound... ..	62,371.55
(v)	12.17 M. wide approach road to proposed cemetry at Gandhi Nagar, Off. Dr. E. Moses Road ...	85,841.73
<i>IV.—Road Widening</i>		
(i)	Adding open setback lands to Altamount Road between Washington House and Carmichael Road in Cement Concrete etc. ...	92,727.59
(ii)	Adding setbacks to roads at—	
(a)	Near Kemp's Corner	
(b)	Walkeshwar Road, Opp. Fionika	
(c)	Lady Jagmohan Marg near C. S. No. 454 and 458 Nepean Sea Road ...	
(d)	Senapati Bapat Marg between N. M. Jobi Marg and Fergusson Road ...	
(e)	Dongarsi Road near Municipal School ...	
(f)	Junction of Mount Pleasant Road and B. G. Kher Road ...	
(g)	Junction of Manav Mandir Road and B. G. Kher Road ...	
(h)	L. D. Ruparel Marg near Guide Building ...	
(i)	Proctor Road junction with V. P. Road ...	
		3,65,483.99
<i>V.—Other Works</i>		
(i)	Construction of approaches of Mamasahab Warerkar Bridge ...	1,89,008.39
(ii)	Private Street between Chinchpokli Cross Road and Dhaku Prabhuchli Wadi and Street behind Old Muratha Hospital in Asphalt Macadam and construction of S. W. Drains ...	1,70,618.51
	Total ...	55,19,578.26

APPENDIX No. 3. (Contd.)

Serial No.	Name of the work.	Estimated cost.	Actual expenditure upto 31-3-73
		Rs.	Rs.
B—Works in progress.			
<i>I.—Road resurfacing work in Asphaltic Concrete.</i>			
(i)	Jagannath Bhatankar Marg between Madke Buwa Chowk to Senapati Bapat Marg ...	3 68,670.00	...
(ii)	Dharavi Road from Mahim Level Crossing to Western India Tanneries ...	5,76,782.82	...
<i>II.—Construction of New Roads.</i>			
(i)	Roads in back bay Reclamation Scheme Block No. III in cement Concrete & Asphaltic Concrete including construction of S. W. Drains, Sewer etc. ...	16,57,722.12	12,15,117.89
(ii)	13.41 M. wide road connecting Sane Guruji Marg and Dr. E. Moses Road and road passing through Municipal Dhobi Ghat behind Shantinagar ...	6,34,351.50	2,16,613.63
(iii)	30.48 M. wide road in Asphaltic Concrete covered drainage channel between Jagannath Bhatankar Marg and N. M. Joshi Marg. ...	4,51,229.00	3,39,460.84
(iv)	80' Road off Arthur Bunder Road near Radio Club ...	4,72,716.00	1,02,029.33
(v)	Road connecting Rambhau Bhogle Marg and Chinchpokli Gross Lane in Asphaltic Concrete including laying Sewer and S. W. Drains etc. ...	2,79,813.60	29,175.00
(vi)	Construction of 24.38 M. wide road from G. D. Ambekar Marg to Dr. S. S. Rao Road in asphaltic concrete. ...	9,98,529.00	...
<i>III.—Road Widening</i>			
(i)	Adding setback lands to G. D. Ambedkar Marg from Acharya Donda Marg to Wadia Society in asphaltic concrete ...	17,76,651.00	3,56,527.97
(ii)	Adding setbacks to roads in 'D' Ward—		
	(a) L. D. Ruparel Marg near Nanek Building ...		
	(b) L. D. Ruparel Marg near Divyaloka Building ...		
	(c) Lady Jagmohan Marg in front of Bank of Baroda Building ...		
	(d) Lady Jagmohan Marg Opp. Shalinagar Apartments ...		
	(e) Little Gibbs Road in front of Aeropolis Apartments ...		
	(f) Junction of Padamsi Road and Paowalla Street, Opp. Vijay Chambers. ...		
		5,86,295.00	48,225.00
(iii)	Adding setbacks roads anywhere in City		
	(a) Tokersey Jivraj Road, Opp. Bharat Industrial Estate ...		
	(b) Cawasji Institute, Opp. Metro Cinema ...		
	(c) Sayaji Mills No. 2 & Shri Ram Mills at Fergusson Road ...		
	(d) 4th Pasta Lane ...		
		4,06,904.30	...
	Total ...	82,09,664.34	23,07,149.66

APPENDIX No. 4.

Statement showing the progress of works of sewers and S.W. drains carried out through contractors during the year 1972-73, in Zone I Area.

Sr.	Particulars	Total																
		150 No.	250 mm.	300 mm.	350 mm.	375 mm.	400 mm.	450 mm.	475 mm.	500 mm.	600 mm.	700 mm.	800 mm.	900 mm.	1000 mm.	1100 mm.	1200 mm.	1300 mm.	1400 mm.
I—Sewers																		
1	Total length of sewers of various sizes.	3749	871	1636	530	25	...	125	212	203	...	150
		R.M.	R.M.	R.M.	R.M.	R.M.	...	R.M.	R.M.	R.M.	...	R.M.
2	Total number of manholes provided on sewers.	551																
3	Total number of vent shafts provided on sewers	26																
4	Cost incurred on sewers	Rs. 9,02,503																
II—S. W. Drains.																		
1	Total length of S.W. drain of various sizes.	1407	30	340	104	330	78	115	130	280
		R.M.	R.M.	R.M.	R.M.	R.M.	R.M.	R.M.	R.M.	R.M.
2	Total No. of manholes provided on S.W. drains.	65																
3	Total No. of vent shafts provided on S.W. drains	6																
4	Total No. of water entrances provided on S.W. Drains	58																
5	Cost incurred on S. W. drains.	Rs. 16,77,034																
6	Improvement of common house gullies in A, B, C, D, and E Wards.	120																

APPENDIX No. 5.

I.—Statement showing drainage construction works in City completed during the year 1972-73.

Serial No.	Name of work.	Estimated cost.	Actual expenditure
		Rs.	Rs.
1	Cutting of high ground at Dharavi Purification Plant	...	5,00,000.00
2	Construction of open drain 4'-4" x 6'-0" along T. Kataria Marg at Mahim	...	60,000.000
3	Providing 230 mm. and 300 mm. sewer in Stage-V, Sion Sewerage Scheme	...	2,96,046
4	Providing prestressed grating in E, F and G Wards	...	4,68,045
5	Repairs to collapsed portion of triple barrelled drain along 100' road to the South of Mahalaxmi (Union Construction).	...	3,36,042
6	Proposed 400 mm. S. W. Drain along Laxmibai Jagmohan-das Marg and 1200 mm. S. W. drain along L.D. Ruparel Marg and extension of 1200 mm. drain	...	3,00,696
7	Desilting of dhapa drain at A, D & E Wards	...	2,90,249
8	Construction of additional manholes at A, B and C Wards	...}	5,74,937
9	Construction of additional manholes at D & E Wards	...	
		Total	28,26,015

APPENDIX No. 5.—Contd.

II.—Statement showing Drainage Construction Works in the City in progress during the year 1972-73.

Serial No.	Name of work.	Estimated cost.	Actual expenditure
		Rs.	Rs.
1	Proposed 600 mm. and 800 mm. dia. sewer north of Banganga. ...	3,16,916	1,07,409
2	Proposed 800 mm. sewer from Princess Dock Ejector to proposed pumping station at Church Street (Part - II) ...	7,01,530	2,89,069
3	Providing gunite treatment at Dr. A. B. Road, Pumping Station ...	7,18,518	3,77,928
4	Construction of double barrelled dhapa drain in Section B' C' C' along Jackeria Bunder Road ...	5,57,210	85,053
5	Construction of double barrelled dhapa drain in Section B'-B' along Jackeria Bunder Road ...	9,96,975	1,45,999
6	Do. do. Section A''-A' and portion B''-B' ...	6,42,408	
7	11.57 M. × 3.35 M. Open Channel from Matunga Labour Camp to Dharavi ...	22,03,087	6,43,852
8	Conversion of remaining basket type privies into W. Cs. in F & G Wards ...	4,68,929	2,26,489
9	Desilting of 525 mm. and 750 mm. and an avoid sewer in Mahim Dharavi and Sion Areas ...	2,73,247	4,97,466
10	Construction of additional manholes in F & G Wards ...	3,85,315	1,67,810
11	Construction of culverts across 18.29 M. wide Dharavi Road 13.40 M. Jasmine Mill Road ...	8,55,990	...
12	Providing additional treatment unit to treat 22.5 Million litres per day sewage at Dadar Purification Plant ...	7,11,083	5,08,266
13	Proposed 230 mm. and 300 mm. sewer at Vithal Narayan Purao Marg on the side of Eastern Express Highway Stage-II & III ...	3,44,472	1,72,242
14	Remaining work of providing and laying 230 mm. and 300 mm. sewer and 450 mm. × 450 mm. dhapa at Antop Hill Area Part-I ...	3,34,583	73,022
15	Improvement of common house gullies in 'D' Ward ...	7,89,911	7,51,583
16	Do. in A & B Wards ...	5,56,773	
17	Do. in C Ward ...	5,88,264	
18	Do. in E Ward ...	5,69,747	
19	Improvement of common house gullies in F. & G Wards ...	2,55,804	
20	Proposed 800 mm. dia. pipe sewer and 450, 600, 800 mm. dia. S. W. Drain along Dharavi Road. ...	2,24,177	46,206
21	Repairs to the existing digestic tank at Dharavi Purification Works, Sion ...	77,358	23,831
22	Proposed 230 mm. and 300 mm. dia. pipe sewer in Stage IV of Sion Sewerage Scheme for the area on the South of V. N. P. Marg on the sides of Eastern Express Highway, Sion ...	3,20,714	20,537
23	Proposed 230 mm. (9'') and 500 mm. (20'') dia. pipe sewers for the area on V. N. P. Marg (Sion Trombay Road) on the sides of Express Highway at Sion, Stage-I ...	3,58,657	1,41,563
Total ...		1,32,51,668	42,79,025

APPENDIX No. 6.

Statement showing details of the work of cleansing of Main Sewers in Zone I during the year 1972-73.

Month	Length of main sewer in R. Metres,	Silt Removed in Cft.
April 1972	1372.21	328.29
October	251.98	472.37
November	1604.42	870.45
December	1402.74	976.14
January 1973	1083.89	650.52
February	2015.10	570.07
March	5437.28	533.57
	<u>13428.12</u>	<u>4401.41</u>

APPENDIX NO. 7.

Statement showing the performance of Colaba Purification Plant during 1971-72

Month	Total Sewage pumped in M. Litres.	Sewage treated in M. Litres.	Grit removed in Cu. Mtr. Plant & Pumping.	Screening in Cu. Mtr.	K. W. H.		Gas generated in Cu. Metre average.	Sludge to digestion Tank in Litres.	Digested sludge conserved in Litres.
					Plant	Pumping			
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)
April 1972	414.32	102.29	8.5	2.92	16,650	2,240	7,867	50,22,000	...
May 1972	234.35	113.23	8.9	2.96	15,110	1,984	7,614	4,86,000	...
June 1972	250.91	117.89	8.9	3.00	15,750	3,132	7,867	50,22,000	...
July 1972	340.10	193.22	11.6	3.80	14,340	2,967	7,614	48,60,000	...
August 1972	509.45	164.40	10.8	3.50	15,670	4,294	7,867	50,22,000	...
Sept. 1972	270.33	87.46	6.7	2.10	9,730	2,622	7,867	45,54,000	...
Oct. 1972	258.47	133.34	9.2	2.60	17,600	2,445	7,614	48,60,000	...
Nov. 1972	174.63	53.67	2.3	2.15	8,480	2,229	7,614	50,22,000	...
Dec. 1972	252.07	49.57	1.8	1.75	14,350	2,412	7,867	48,60,000	...
Jan. 1973	233.94	133.93	9.3	2.80	14,860	2,166	7,867	50,22,000	...
Feb. 1973	238.13	93.73	6.9	2.45	19,090	2,190	7,867	50,22,000	...
March 1973	227.32	99.03	7.2	2.55	16,100	2,038	7,867	46,98,000	...
Total	3403.82	1347.76	92.1	32.58	1,77,730	30,719	93,392	5,88,84,000	...
Average	283.65	112.31	7.68	2.71	11,477.5	2,559.9	7,782	49,07,000	...

APPENDIX No. 8.

Statement showing the performance of sewage pumping stations in the city in charge of E. E. Mech. (N and P.) during 1972-73

Name of Pumping Station,	Installed capacity in M.G.D. Lit./Sec.	Average of Min. level during the year Mtrs.	Average of average level during the year Mtrs.	Total sewage qty. pumped during the year M. Lit.	Average sewage qty. pumped per day M. Lit.	Electrical energy consumed during the year KWH	Cost of Electrical energy consumed during the year.	Cost of operative staff during the year.	Cost of repairs & Maint. during the year.	Cost of out-let charges.	Total cost of erecting Maint. electr. during the year	Cost per million liters of sewage pumped.
							Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Dadar Purification Works.	386.8 L/S	0.45	2.02	11,517	31.27	3,03,360	28,213	21,536	17,780	5,277	73,116	6.38
Dharavi Purification plant.	45 M.G.D. 2353.5	3.80	4.78	33,045	90.5	9,28110	1,18,254	1,004	42,142	5,284	171,764	5.20

APPENDIX No. 9.

Statement showing the Gas Utilization at Dadar Purification works during the year 1972-73.

Sr. No.	Type of consumption	Gas consumption in Cu. M.	Rate/ Cu. M.	Cost of Gas	Meter rental
			Rs.	Rs.	Rs.
1	Municipal Hospitals and staff ...	804710.5	0.15	120932.00	3125.00
2	Other domestic ...	213580.1	0.19	40525.00	4989.00
3	Commercial ...	418767.3	22.5	117077.00	1295.00
	Total ...	1437057.9		278534.00 X	9409.00 Y
			Total	X+Y	287943.00

APPENDIX NO. 10.

Statement of the Analytical Data of Dadar Purification Works for the year 1972-73.

(1)	Sewage Treated.	...	4745.98 M. G. D.
(2)	Grit removed	...	86320.00 cft.
(3)	Screening Removed	...	15303.00 cft.
(4)	Sludge to Digestion tank	...	43020,000 Gals.
(5)	Dry matter added to Digestion tank	...	216,000 Gals.
(6)	Volatile matter added to digestion tank.	...	112638000
(7)	Digested sludge removed	...	...
(8)	Total gas generated.	...	62050000
(9)	Gas / Gal of sludge added	...	1.42
(10)	Gas/Lb of volatile matter added	...	5.51
(11)	Gas /10,00,000 gals of sewage treated	...	13080
(12)	Total electric consumption (Excluding Pg. Stn.)	...	1323,340 K. W. H.
(13)	Gas/Lab of dry matter added	...	3.42
(14)	H. P. required / M. G. D. of sewage treated/Hr.	...	3.8
(15)	Total expenditure (including Pg. Stn. and gas service etc.,)	...	
	(a) Cost of last electric energy consumed	...	Rs. 161446.00
	(b) Salaries and wages	...	3,60,684.00
	(c) Materials supplies (including Laboratory)	...	60389.00
	(d) Work carried out through external agencies	...	1,24,288.00
	(e) Miscellaneous expenses	...	4,303.00
	(Postage Conveyance, P. W. D. Inspection, Licence and Telephone),		
	KWH for plant pumping=16,26,700 kwh.		
	KWH for P. St. =303,350 kwh.	Total	7,11,110.00

APPENDIX No. 11.

Analytical Data—in respect of the Laboratory at Dadar Purification Work.

	Sewage		Final Effluent		
	Old Plant	Ext. Plant	Act. Sludge	Filter-I	Filter-II&III
1 Fourhours Oxygen absorption	122 ppm	67.00 ppm	16.1 ppm	34.1 ppm	30.08 ppm
2 Suspended solids	548 ppm	270.00 ppm	15.0 ppm	64.0 ppm	78.00 ppm
3 Dissolved Oxygen.	nil	nil	4.00 ppm	0.16 ppm	...
4 B. O. D. at 20° C in 5 days	455.00 ppm	252.00 ppm	6.8 ppm	74.6 ppm	91.8 ppm

APPENDIX No. 12.

Statistical Data in Respect of Dharavi Purification plant during 1972-73

(i) Total sewage flow pumped	...	22485 M. Litres.
(ii) Grit removed	...	594 C. M.
(iii) Screenings removed	...	529 C. M.
(iv) Sludge to digestion tank	...	85738500 Litres.
(v) Digested sludge on beds	...	Nil.
(vi) Digested sludge to S. W. D.	...	1197,000 Litres.
(vii) Total digested sludge removed	...	11,97,000 Lit.
(viii) Total electrical energy consumption	...	1095387 KWH.
(ix) Cost of electrical energy	...	Rs. 120872
(x) Gas used as gaseous fuel	...	1,37,209 cu. metre.
(xi) Revenue obtained from sale of gas	...	Rs. 25,134
(xii) Sludge manure sold during the year	...	Nil.
(xiii) Revenue realized from sale of manure.	...	Nil.
(xiv) Total revenue realised=(XI) + (XIII)	...	Rs. 25,134.

APPENDIX No. 13.

Statement showing the details of working of Pumping and Compressor Stations in the City in the charge of E. E. Mechanical (South) during 1972-73.

Serial No.	Name of the Station	Installed capacity in L. P. M. or Cu. M./Min.	Total quantity of Sewage pumped in M. Litres or the air Compressed in Cu. M. during the year.	Average Quantity of Sewage pumped in M. Litres or the air compressed in Cu. M. per day.	Electrical energy consumed during the year.	Cost of Electrical energy consumed during the year. Rs.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Pumping Stations.						
1	Matunga Pumping Station	75,040	13545.44	37.11	7,51,400	92,378
2	Wadala Pumping Station	53,630	8096.28	22.19	4,88,750	82,990
3	Mahim Pumping Station	44,620	14130.39	38.72	2,41,628	53,429
4	Tulsipipe Pumping Station	48,920	6599.33	18.10	2,20,504	43,290
5	Chinchpokali Pumping Station	39,480	1084.03	2.96	65,659	8,984
6	Nepean Sea Road Pumping Station	27,900	2247.37	6.15	1,16,780	16,953
7	Salt Pan Pumping Station	54,600	12,676	3.52	1,70,831	11,280
8	Globe Mill Pumping Station	63,200	5954.86	16.31	1,77,900	29,320
9	Gadge Maharaj Chowk Pumping Station	7,540	12936.66	35.44	1,86,850	33,707
10	Harvey Road Pumping Station	12,640	1044.26	2.85	1,51,870	7,521
11	Sion Pumping Station	6,810	858.52	2.30	1,02,236	13,804
12	Duncan Causeway Pumping Station	15,190	216.46	0.59	16,738	2,286
13	Tank Bunder Pumping Station	4,540	447.90	1.22	42,739	7,491
		...	68448.26	187.46	25,33,735	4,03,433
Compressor Stations.						
14	Victoria Garden Air Compressor Stn.	100	17269056	47.312	6,61,680	59237.37
15	Carrol Road Air Compressor Station	26	1895634	51.93	63,022	16949.37
	Total	...	19164690	52.505	7,24,702	76186.74

APPENDIX No. 14.

Summary of works carried out by Asphalt Plant during 1972-73.

Mode of Repairs,	Area in Sq.mt.	Amount.
		Rs.
Repair with 3: sheet asphalt	... 227	5,163.75
Repair with binder Semidense etc.	... 24660	3,32,478.00
Asphalt roads repaired with chip or grit coat	... 107183	8,84,925.52
Bituminous roads repaired with chip or grit coat	... 72041	4,92,718.31
Seal coat laid on footpath	... 2608	18,867.20
Miscellaneous works carried out	... 4759	36,500.45
Trenches repaired	... 1556	13,782.40
Pot holes repaired	... 7079	49,675.32
Macadam laid on different Roads.	... 982	7,921.61
Cracks filled on different Roads	... ..	5,495.14
Undulation and humps removed on different Roads	... ..	3,541.59
	221095	18,51,069.29

APPENDIX NO. 15.

Statement showing the details of Asphalt Plant Production during the year 1972-73.

Month	MAIN PLANT									PEGSON PLANT.						Working days.		
	Macadam Kg.	Semidense Kg.	Binder Kg.	Surface Kg.	Chip Coat Kg.	Grit Coat Kg.	Seal Coat Kg.	Premix 1" Kg.	Premix 1/2" Kg.	Total Kg.	Makadam Kg.	Binder Kg.	Chip Coat Kg.	Grit Coat Kg.	Premix 1" Kg.		Premix 1/2" Kg.	Total Kg.
March 72	...	...	45,240	8,95,440	1,55,840	...	...	...	...	10,96,520	...	...	...	...	...	...	...	25
April 72	...	...	2,89,570	4,60,240	4,24,270	...	23,910	2,410	...	12,00,400	...	...	...	...	...	...	...	24
May 72	13,540	...	11,100	6,76,390	3,71,190	14,600	13,570	...	4,410	11,04,800	...	...	...	...	...	...	...	25
June 72	...	...	...	6,81,120	1,56,210	53,900	...	22,650	4,140	9,28,020	13,540	...	...	...	1,30,780	9,220	1,53,540	26
July 72	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4,30,820	3,98,830	8,29,650	25
August 72	...	...	...	...	...	...	...	...	...	...	...	...	1,31,930	...	1,20,270	1,38,330	3,90,520	15
Sept. 72	...	...	...	...	...	...	...	...	...	...	...	22,130	5,41,640	8,090	88,260	8,310	6,68,430	24
October 72	...	...	1,050	...	9,03,780	39,480	4,030	...	15,360	9,63,700	...	...	2,22,820	...	...	10,050	2,32,870	25
Nov. 72	...	59,620	2,84,400	6,00,000	2,57,460	1,13,970	14,570	...	...	13,30,020	...	...	...	...	...	...	...	23
Dec. 72	...	...	1,09,700	1,28,3030	...	...	...	...	...	13,92,730	...	...	...	...	...	...	...	24
Jan. 73	92,510	1,28,300	5,44,470	4,72,160	1,52,690	1,71,990	...	...	4,940	15,67,060	...	...	...	...	...	...	...	26
Feb. 73	...	3,04,410	3,24,140	1,52,760	6,33,370	15,020	30,050	...	...	14,59,750	...	...	...	...	...	...	...	24
Total	1,06,650	4,92,730	16,09,670	52,21,140	30,64,810	4,08,960	86,130	25,060	28,850	11,00,43,000	13,540	22,130	8,96,380	8,090	7,70,130	5,64,740	22,75,010	286

Maint Plant 1,10,43,000
 Pegson Plant 22,75,010
 Grand Total 1,33,18,010

Working days. 286
 Non working days. 66
 Strike Period : 13 days.

APPENDIX No. 16

Statement showing the rubble crushed and metal production during the year 1972-73.

Month	Rubble in cft.	Metal 1½" cft.	Metal 1" cft.	Metal ½" cft.	Grit & Dust cft.
March 1972	30,300	22,725	3,030	3,030	1,515
April 1972	29,300	21,975	2,930	2,930	1,465
May 1972	36,200	27,150	3,620	3,620	1,810
June 1972	20,900	15,675	2,090	2,090	1,045
July 1972	19,200	14,000	960	1,920	1,920
August 1972	11,900	8,925	1,190	1,190	595
September 1972	22,900	17,175	...	2,290	3,435
October 1972	25,800	15,480	2,580	5,169	2,580
November 1972	28,000	22,400	...	2,800	2,800
December 1972	33,000	26,400	...	3,300	3,300
January 1973	53,400	42,720	...	5,340	5,340
February 1973	42,500	29,750	4,250	4,250	4,250
	3,53,400	2,64,775 *2,000	20,650	37,920 *3,000	30,025 *3,000

1. ½" Collected from Compound. ... 2,66,775
2. 1" Metal crushed and produced } 2,000 cft. during September 72.
½" Metal & Grite & Dust. } = 3000-- ½"
= 3000-- G.Dust

APPENDIX No. 17.

The automatic traffic signals were installed on the following sites during 1972-73.

- (1) Maheshwari Road Opp. Sandhurst Road Railway Station.
- (2) B. Jayakar Marg junction J. S. Shankarsheth Road.
- (3) Khan Abdul Gaffar Khan Road and Dr. A. B. Road junction.
- (4) Kirti College, Dadar (Veer Sawarkar Marg junction K. Dhuru Street.)
- (5) Ferguson Road, Parel.
- (6) Lane control signal opposite Race Course.

APPENDIX No. 18.

The regular lines were prescribed on the following roads under Sections 297(i)(a) and 297(i)(b) during the year 1972-73.

Serial No.	Name of the Road.	Width.
1	The junction of Maharshi Karve Road and Madam Cama Road	39.60 M.
2	Proposed revised regular line along Maharshi Karve Road near Church Gate Station	22.60 M.
3	Lane between Maharshi Marve Road and Marine Lines	3.05 M.
4	Widening of Road No. 34 Scheme No. 37 Sewree Wadala	18.30 M.
5	Proposed Link Road between Powai Road and Winter Road	25.90 M.
6	Widening of Tokarsi Jivraj Road between Acharya Donde Marg and Golenij Hill Road	18.30 M.
7	Widening of Swatantryaveer Savarkar Marg between Sitaladevi Temple Road and T. B. Hospital	27.40 M.

APPENDIX No. 19.

Private Streets in which works have been completed.

- 1 The Private Street leading to Western Railway Stores Depot off Dr. E. Moses Road. ... Works completed.
- 2 The Private Streets near Strand Cinema portion AB, CD, E. ... Works completed.

APPENDIX No. 20.

Private Street in respect of which action under Section 305 of the Bombay Municipal Corporation Act was in progress.

1. Private Streets in Tokersey Jivraj Wadi off Tokersey Jivraj Road, Sewri ... Work in progress.
2. Private Street between Chinchpokli Cross Lane and Dhaku Prabhuchiwadi near Pallonji Chawl ... Work in progress.
3. Private Street between Kakadwadi and V. P. Road ... Work in progress.
4. Private Street off B'halabhai Desai Road leading to Dhakleshwar Temple... Work in progress.
5. Private Street by the South side of Kaiser-I-Hind Mill off Rambhau Bhogle Marg. ... Works in progress.

APPENDIX No. 21.

Private Streets in which preliminary action is taken to improve the same under Section 305 of the B. M. C. Act.

Serial No.	Name of the Street:	Remarks.
1.	Private Street between Mazgaon Road and Belveder Road in Bhardiwadi.	Prosecution under Section 471 filed in Presidency Magistrate's Court, Mazgaon.
2.	Private Street known as K'ambatta Lanes, near Victoria Garden Post Office off Dr. Ambedkar Road.	Works are being carried out under Section 489.
3.	Private Streets known as Tata Road No. 1 and 2 in Swadeshi Mills Estate between Mama Parmar Road, Jagannath Shankershet Road and Raja Ram Mohan Roy Road.	Prosecution under Section 471 filed in Presidency Magistrate's Court, Girgaon.

APPENDIX No. 22.

Statement showing the number of tenements constructed by private parties during the year 1972-73.

Wards.	No. of one room tenement.	No. of two room tenement	No. of blocks.	Total
'A'	1	Nil.	70	71
'B'	27	10	4	41
'C'	Nil.	Nil.	Nil.	...
'D'	11	68	247	326
'E'	26	242	18	286
'F/S'	1	2	28	31
'F/N'	Nil.	5	25	30
'G/S'	Nil.	10	56	66
'G/N'	Nil.	21	107	128
Total	66	358	555	979

APPENDIX No. 23.

Detailed report of total out put of Municipal Foundry and the revised rates for castings for the year 1972-73.

Serial No.	Type of castings.	Nos.	Weight in Kgs.	Rate	Per	Amount.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
				Rs.	P.	Rs. P.
1	C. I. Manhole frames & covers complete	760	184680.0	144.00	Each	10,940.00
2	C. I. O. P. Boxes	5	135.0	30.80	"	154.00
3	C. I. S. T. Large Boxes	26	390.0	17.40	"	452.40
4	C. I. Round Boxes	5	90.0	17.40	"	87.00
5	C. I. Gas Boxes	7	133.0	1.50	Kg.	199.50
6	C. I. gratings 20"×19"×2½"	9	612.0	1.50	"	918.00
7	Do. 19½"×18"×2"	4	204.0	1.50	"	306.00
8	Do. 19"×19"×2"	6	307.0	1.50	"	460.50
9	Do. 18½"×18½"×2"	5	255.0	1.50	"	382.50
10	Do. 18½"×18"×2"	5	230.0	1.50	"	345.00
11	Do. 8"×8"×½"	25	60.0	4.30	"	107.50
12	Do. 6"×6"×½"	200	240.0	3.70	Each	740.00
13	Do. 5" dia.	40	16.0	2.10	"	84.00
14	C. I. Machinable castings	...	26000.0	2.00	Kg.	52,000.00
15	C. I. Non-Machinable castings	...	800.0	1.50	"	1,200.00
16	C. I. Wheels 6"×2"	33	165.0	2.00	"	330.00
17	C. I. Dhapa frames	12	348.0	2.00	"	696.00
18	C. I. Clerk Chairs K. D. Rly.	23	621.0	2.00	"	1,242.00
19	C. I. Steps	300	2000.0	4.80	Each	960.00
Non Ferrous						
20	Gunmetal casting 88-10-2 complete	...	437.0	25.80	Kg.	11,274.60
21	Gunmetal casting 87-7-3-3 do.	...	5760.0	22.40	"	1,29,024.00
22	Brass casting	...	2100.0	14.00	"	29,400.00
23	Aluminium casting	...	40.0	16.80	"	672.00
24	Copper casting	...	55.0	14.00	"	770.00
25	Aluminium House number plates	518	80.0	4.50	Each	2,331.00
26	Filling in white metal Bearings	8	...	67.20	"	537.60
Total			225758.0			3,44,113.00

APPENDIX No. 24.

Statement showing the details of work carried out by Electrical Planning & Design Section during 1972-73.

Item	Description	Nos. of Estimates prepared	Amounts.	Nos. of Draft Tenders sent.	No. of Tenders Advertised		No. of Tenders Recommended		Amount.	
					Elect. Deptt.	with Civil	Elect. Deptt.	With Civil.	Elect. Deptt.	With Civil.
			Rs. P.						Rs. P.	Rs. P.
1	Schools	3	1,84,900.00	1	2	2	2	...	1,66,872.00	
2	Housing	2	30,875.00	3	2	...	2	...	25,722.00	
3	Lifts	4	4,40,000.00	5	4	...	2	5,47,146.00	...	
4	Hospitals Maternity Homes, Staff Qtrs.	7	5,71,313.00	2	2	...	7	...	1,72,823.00	
5	Markets	1	29,600.00	1	1	...	1	23,828.00	...	
6	Ward Offices	2	30,875.00	...	3	...	1	...	25,722.00	
7	Fire Stations	2	23,400.00	2	2	...	2	...	16,750.00	
8	Welfare centres	1	56,400.00	1	1	...	1	...	54,830.00	
9	Miscellaneous	6	2,97,011.00	2	2	1	2	...	31,536	
Total			16,64,374.00	17	7	13	3	17	5,70,974.00	4,94,260.00

APPENDIX No. 25.

Statement showing the details of works carried out by the Building Construction (Electrical Section) Zone I during 1972-73.

Serial No.	Description of the work	No. of works completed	Total cost		Nos. of works in progress.	Total cost.	
			Rs.	P.		Rs.	P.
1	(A) Electrification of and providing electrically driven water pumping sets at:—						
	(a) Residential Building.	1	33,784.00		2	1,34,000.00	
	(b) School	4	1,40,248.00		2	1,97,988.00	
	(c) Markets	2	34,626.00		...	34,626.00	
	(d) Dispensary & Welfare Centre	2	27,312.00		...	27,312.00	
	(e) Hospital and Maternity Homes	1	10,000.00		1	2,11,000.00	
2	(B) Supply and installation of electrically driven water pumping sets at residential colonies	1	21,176.00		...	21,176.00	
3	(C) Supply and installation of electric lifts at residential buildings, hospitals, offices, etc.	1	84,000.00		3	2,02,913.00	
	Total	12	3,51,146.00		8	8,29,015.00	

APPENDIX No. 26.

Statement showing the details of works carried out by Electrical Section Plant and Machinery during the year 1972-73.

Serial No.	Nature of work	No. of work orders received.	No. of Estimates prepared	Total cost of Estimates.	No. of works executed Deptly.	Total cost	No. of Tenders-Quotations invited.	Total cost	No. of Misc purchase and repairs	Total cost.
(1)	(2)	(3)	(4)	(5)	(6)	(8)	(8)	(9)	(10)	(11)
				Rs.		Rs.		Rs.		Rs.
1	Providing electrical wiring installations electrical connections for power, lighting, Rewiring, etc.	410	26	4,21,776	218	80,689	7	25,776	...	...
2	Supply and installations of water pumping sets	...	39	1,41,303	...	...	10	13,871	...	...
3	Supply and installations of lifts, Inter-com-units, Geysers Capacitors, Kitchen Equipment, etc. condensers.	...	50	1,27,830	...	...	4 (1 Tender)	31,062	...	...
4	Supply and installation of ceiling, Table, Exhaust & Pedestal Fans, Air-circulators etc.	23	7	56,143	7	56,148	16	52,464	...	...
5	Supply & installation of Fluorescent Fittings, Duoflux Fittings, gate lights, Flood lights etc.	...	...	...	...	...	18	27,815	7	8,319
6	Purchase of cables and wires & other electrical accessories	71	...	...	10	13,005	53	57,948	61	11,305
7	Supply of Busbars, Electric Motors, M. S. Boxes, Conduit pipes, Switchfuses, Starters, etc.	...	5	1,789	...	...	17	29,979	...	...
8	Repairs, rewinding of electrical Motors, pumps, repairs to ceiling fans; starters, Switchfuses & other electrical appliances and machines	328	...	...	220	72,974	35	1,22,395	90	80,374
9	Servicing and maintenance and repairs of electric lifts and Inter-com-Units	...	...	...	...	...	11	18,446	...	...
	Total	832	127	7,48,846	455	2,22,816	171 (1 Tenders)	3,69,757	198	1,01,689

APPENDIX No. 27.

Statement showing the details of work carried out by Electrical Section Ward Maintenance during the year 1972-73.

Serial No.	Type of Buildings	No. & Type of Estimates					Total cost of estimates.	Works carried out by tenders/quotations				Total cost
		Electrification works	Providing Water Pumping sets.	Providing Electric Fans and Fittings	Providing Sundry Systems & Projectors.	Electrification works.		Providing pumping Sets Star-ters, etc.	Providing Electrical Fans & Fitting	Providing Sound Systems		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
						Rs.					Rs.	
1	Chawls, Staff Quarters & Labour Camps	40	8	...	...	7,63,396	25 (8 Tenders)	17	...	...	5,00,226
2	Schools	22	6	24	24	28,36,461	14	15	41 (1 Tender)	25	3,61,488	
3	Markets and Industrial Estates	8	1	1	...	1,63,464	8 (2 Tenders)	1	4	...	93,664	
4	Offices & Mayor's Bungalow	15	1	1	...	6,04,943	6	...	6	1	38,806	
5	Maternity Homes & Dispensaries & Clinics.	11	...	...	...	44,198	4	1	2	...	14,146
6	Cemeteries	...	...	...	...	...	4 (1 Tender)	...	...	...	44,179
7	Fire Brigade Stations	1	...	...	...	8,138	2 (1 Tender)	1	...	...	13,502
8	Birla Kreedra Kendra, Welfare Centres, Gymnasium etc.	1	...	...	...	1,916	2	...	1	...	4,282
9	Gardens & Fountains	26	10	...	...	4,90,256	18 (7 tenders)	11	8	...	1,21,445
10	P. S. Cs.	3	...	...	...	5,790	3	...	...	...	7,180
11	Refuse siding, Dumping Grounds Dhobi Ghat, Transport Garages Dog Kennels, Godown etc.	7	...	...	...	87,176	5 (1 Tenders)	...	...	...	27,813
	Total	134	26	26	24	50,05,828	91 (20 Tenders)	46	62 (1 Tenders)	26	12,26,731	

APPENDIX No. 28.

The details of work carried out by the Refrigeration Section for the year 1972-73. (Zone-I, Zone-II and Zone-III).

Nature of Proposal	No. of estimates prepared	Amount		No. of Tenders recommended	Amount		Total	
		Rs.	P.		Rs.	P.	Rs.	P.
(A) Loan Works :-								
(1) Purchase of New equipments	19	17,57,500.00		2	8,00,700.00			
(a) Central Air-conditioning Plants								
(b) Packaged do. do.								
				Total	15,50,500.00			15,50,500.00
(B) Revenue Works :-								
(1) Purchase of New equipments								
(a) Packaged air-conditioning plants.				1	58,240.00			
(b) Window units				29	1,40,685.00			
(c) Water Coolers				1	27,560.00			
(2) Repair Works				17	44,450.00			
(3) Maintenance Servicing				5	6,165.00			
				Total	2,77,100.00			2,77,100.00
Total	19	17,57,500.00		67				18,27,600.00

APPENDIX No. 29.

DEONAR ABATTOIR

(a) Works completed in all respects during the year 1972-73.

Serial No.	Name of the work.	Contract Allotment.
		Rs.
1.	Construction of sheep and cattle Market sheds at Deonar Slaughter House Phase-II	13,33,198.84
2.	Construction of Roof over all the four live stock Market sheds at Deonar Slaughter House	15,11,875.00
3.	Filling and levelling in grazing yard area, constructing water drinking troughs and providing asphalt passages from unloading platforms to Market Sheds.	5,89,762.81
4.	Electrification of live stock market sheds at Deonar Slaughter House	1,04,321.93
	Total	35,39,158.58

(b) Works in progress in the year 1972-73.

Serial No.	Name of the work.	Contract Allotment.
		Rs.
1.	Construction of Loading and unloading platforms and antimortum inspection pens at Deonar Slaughter House (Cattle side)	2,66,767.53
2.	Supply & installation of Slaughter House machinery and electrical equipment (Indigenous component) only commissioning of refrigeration plant	20,000.00
	Total	2,86,767.53

(c) Works for which tenders were invited during 1972-73.

Serial No.	Name of the work.	Estimated Cost.
		Rs.
1.	Proposed staff quarters for Deonar Slaughter House (600 tenements) including full development of the plot	93,39,600.34
2.	Construction of Administration Building at Deonar Slaughter House.	7,38,500.00
3.	Construction of remaining four live stock market sheds at Deonar Slaughter House	36,85,389.30
4.	Construction of Rest Rooms for live stock merchants at Deonar Slaughter House	7,42,743.85
	Total	1,45,06,233.49

(d) Works for which plans & estimates were prepared during the year 1972-73.

Serial No.	Name of the work.	Estimated Cost.
		Rs.
1.	Construction of Welfare Centre	1,89,246.96
2.	Construction of Dispensary	1,15,893.86
3.	Construction of Shepherd's Rest Houses	2,87,409.33
4.	Construction of resting rooms and buffallow ponds	6,20,393.81
5.	Water proofing treatment to the roofs of all the eight live stock market sheds	3,66,137.75
	Total	15,79,081.71

APPENDIX No. 30.

Statement showing the works of Building Construction in progress and those completed in Zone-II and III during the year 1972-73 (G/N, H, K. & R and F/N, L, M, N & T Wards).

ZONE—II Area.

Serial No.	Name of the work.	Actual cost.
		Rs.
A.—Works completed.		
(a) Housing.		
1	Construction of quarters for the medical staff and Nurses quarters at the newly constructed Hospital at Juhu Vile Parle Development Scheme (Work of pile Foundation)	4,82,934.00
(b) Building other than Housing		
1	Extension to the existing maternity home at Goregaon	4,40,060.00
2	Providing additional amenities at Daulat Nagar Cemetery, Borivli (East)	3,19,326.00
3	Extension to the existing school building at Vakola, Santacruz (East)	7,08,997.00
4	Extension to the existing school building at Mahatma Gandhi Road, Vile Parle (East)	4,74,389.00
5	Construction of a temporary open Air Market Plot No. A-6, at Juhu Vile Parle Development Scheme	2,04,216.00
6	Construction of Western Approach to the over bridge at Andheri	19,43,319.00
Total		45,85,241.00

ZONE—III Area

1	Pile foundation for the work of proposed school building at Sahakar Nagar, Chembur	1,33,853.92
2	Supply and installation of 2 Nos. capacity 5 passenger lifts at R. M. O.'s quarters in the premises of L. T. M. G. Hospital, Sion.	78,000.00
3	Construction of 40 tenements at Sion Village	4,42,801.33
4	Proposed 1,92,400 litres suction tank at Sion Koliwada for L. T. M. G. Hospital staff quarters	71,803.26
5	Pile foundation for school building at S. No. 236-A (part) Pant Nagar, Chatkopar, M. H. B. Colony	1,31,000.00
6	Construction of phase 'B' of fruit and vegetable market at Matunga Behind Railway Station (C. R.) (including electrification and pumping station.)	7,67,015.75
7	Filling in low lying area and construction of compound wall for proposed play-ground at Roli Camp near Guru Nanak School Building	4,53,619.93
Total		20,83,094.19

ZONE—II AREA

B—Works in progress.

Serial No.	Name of the work	Estimated cost.	Actual expenditure upto 31-3-73.
(1)	(2)	(3)	(4)
		Rs.	Rs.
(a) Housing			
1	Construction of tenements at Sardhanand Road, Vile-Parle	1,94,465.00	11,573.00
2	Construction of compound wall around the Municipal Housing Colony near Jasmine Mill at Dharavi	1,60,855.00	1,28,400.00
3	Construction of 324 tenements and 12 shops at Powell's land at Kandivli (West)	37,69,073.00	2,06,515.00
4	Construction of quarters for Medical Staff at Bhagwati Hospital Borivli (West)	14,80,325.00	5,80,701.00

Serial No.	Name of the work	Estimated cost.	Actual expenditure upto 31-3-73.
(1)	(2)	(3)	(4)
		Rs.	Rs.
<i>(b) Buildings other than Housing</i>			
1	Construction of Municipal Workshop for Municipal Transport Division at Santacruz (West).	22,85,813.00	11,28,403.00
2	Construction of a school building at Tata Compound, Andheri (West)	7,59,205.00	6,91,453.00
3	Construction of municipal school building at Chinwalla' land off Swami Vivekanand Road, Kandivli (West)	13,95,157.00	9,21,293.00
4	Construction of General Hospital-cum-Maternity Home on plot No. 34, T. P. S. III, Santacruz (East)	37,61,450.00	2,83,681.00
5	Construction of Municipal Market on plot No. 42-B, 43 T.P.S. III, Vile Parle (West)	22,00,614.00	13,19,947.00
6	Extension and addition to the existing school building at Dattapada Road, Borivli (East)	5,07,210.00	3,51,133.00
7	Construction of Municipal school building at S. No. 145, Marol Village, Andheri (East)	14,62,895.00	5,00,258.00
8	Extension of Municipal school building at Old Nagardar Road, Andheri (East)	4,10,775.00	2,44,545.00
9	Extension to School Building at Squatters' Colony Jogeshwari (East)	9,63,553.00	3,95,701.00
10	Manufacturing and fixing R. C. C. Marble Mosaic chairs in various gardens etc.	1,50,895.00	1,22,443.00
11	Construction of Diagnostic Centre on Plot No. 983, T. P. S. IV, Mahim, Gokhale Road (South)	4,00,921.00	1,39,323.00
12	Construction of 2nd floor over the G/North Ward Office Building at Woollen Mill Lane, Dadar.	8,88,651.00	33,054.00
13	Construction of building for Welfare Centre on F. P. No. 82, T.P.S. IV, Mahim, near Shree Cinema, Matunga	5,62,730.00	...
14	Extension to the existing school building at Danda, Khar	5,34,349.00	1,80,956.00
15	Construction of Rescue Shelter garage and staff quarters at Juhu Beach	2,77,071.00	39,723.00
16	Construction of Municipal Market at Morā Bunglow, T.P.S. I, Vile-Parle (East)	16,09,965.00	1,56,708.00
17	Development of Hindu Cemetery at Jogeshwari (East)	5,10,147.20	...
18	Addition to the existing school building at Siddharth Nagar, Goregaon (West)	4,93,294.00	3,44,163.00
19	Addition to the existing school building at Motilal Nagar, Goregaon (West)	4,58,194.00	2,90,603.00
20	Retaining wall at Goregaon (East)	9,28,054.00	1,97,225.00
21	Construction of school building at F. P. No. 32, T.P.S. I, Daftary Road, Malad (East)	20,13,632.00	5,58,623.00
22	Construction of Maternity Home and Dispensary at Nivetia Road, Malad (East)	10,63,500.00	43,661.00
23	Extension to the existing school building at Akurli Road, Kandivli (East)	6,48,331.00	3,48,138.00
24	Construction of Maternity Home at Akurli Road, Kandivli (East)	5,00,000.00	23,674.00
25	Extension to Bhagwati Hospital, Borivli (West)	10,67,661.00	1,11,064.00
26	Extension to the school building at Ranchoddas Road, Dahisar (West)	3,46,334.00	1,05,363.00
27	Additional floor over the existing dispensary at Lokmanya Tilak Road, Dahisar (West)	2,00,000.00	23,674.00
	Total	3,20,02,125.00	95,22,401.00

Serial No.	Name of the work	Estimated cost.	Actual expenditure upto 31-3-73.
(1)	(2)	(3)	(4)
		Rs.	Rs.
ZONE—III AREA			
1	Construction of school building at Bail Bazar-Kurla (including electrification and pumping arrangements) ...	9,29,375.16	5,19,130.02 (Rs. 3,11,952.79 for period between 1-4-72 to 31-3-73)
2	Construction of 4 buildings, 36 tenements each one sub-station, suction tank, pump-room including electrification and pumping arrangements part-I at Deonar Colony ...	12,28,300.45	10,58,362.78 (Rs. 8,11,876.53 for the period between 1-4-72 to 31-3-1973.)
3	Construction of 7 buildings, 36 tenements each at Deonar Colony including electrification and pumping arrangements Part-II ...	18,39,519.41	16,97,091.33 (Rs. 12,88,367.44 for the period between 1-4-72 to 31-3-73.)
4	Extension to the Municipal Marathi School at Magan Nathuram Road, Kurla including electrification and pumping arrangement	6,26,765.80	3,73,301.61
5	Proposed expansion of Bhabha Hospital, Kurla ...	6,59,504.04	31,145.68
6	Providing pilefoundation for school building at Nehru Nagar, Kurla	3,00,386.50	1,05,173.56
7	Development project of Roli Camp Sion Matunga (Estate) Scheme No. 6. Construction of 230 tenements and 20 shops ...	22,66,258.74	11,62,348.01 (Rs. 6,50,141.33 for the period between 1-4-72 to 31-3-73.)
8	Construction of Bharatiya Krida Mandir (Stadium) ...	6,00,000.00 (1/3 share as grant-in-aid).	2,00,000.00
9	Construction of Medical College building at L. T. M. G. Hospital, including electrification and pumping arrangements ...	41,68,072.88	20,55,717.49 (Rs. 9,29,744.20 for the period between 1-4-72 to 31-3-73.)
10	Construction of additional floor on school building at Sion-Matunga Estate Plot No. 271-272 and 272(A).	4,40,753.03	2,98,189.32
11	Extension to 'N' Ward office building at Jawahar Road, Chhatkopar (East) ...	10,15,484.36	5,02,912.66 (Rs. 3,90,874.36 for the period between 1-4-72 to 31-3-73.)
12	Construction of building for proposed 'T' Ward office at Devidayal Road, Mulund (West) ...	17,86,110.22	7,36,392.63 (Rs. 5,52,076.71 for the period between 1-4-72 to 31-3-73.)
13	Construction of School Building at James Beach at Bhardpur ...	17,11,408.47	5,06,277.18
14	Extension to the school building on plot of Maneklal Mehta at Chhatkopar (West) including electrification and pumping arrangements	7,76,632.65	3,04,540.75
15	Construction of school building on plot of S. No. 1200 (part) and 216 (part) at Purshottam Kheraj Road, Mulund (West) ...	20,52,975.28	1,84,248.86
16	Expansion of Smt. N. T. Agarwal Municipal General Hospital building at Lal Bahadur Shastri Marg, Mulund (West) ..	3,95,283.25	36,413.72
17	Construction of additional suction tank of 8,18,000 litres capacity in park site Municipal Colony, Vikhroli ...	1,78,619.00	50,831.37
18	Expansion of Acworth Leprosy Hospital at Wadala ...	7,97,075.13	3,72,236.82 (Rs. 3,17,543.47 for the period between 1-4-72 to 31-3-73.)
19	Construction of Municipal school building at Reynolds Road, Wadala (East) ...	7,98,983.24	6,62,711.90
20	Construction of school building on plot Nos. 130 to 121 of Sewri Wadala Estate (including electrification and pumping arrangements). ...	12,26,073.47	2,80,128.93
21	Construction of 2,81,500 litres overhead tank on tower, 2,72,400 litres suction tank and one pumping room at sector 'C' Roli Camp, Sion, Koliwada including electrification and pumping arrangements). ...	3,32,466.52	1,06,247.24
	Total ...	2,41,01,147.60	1,12,43,421.36

APPENDIX No. 31.

Statement showing the works of Road Construction in progress and those completed in Zone-II and III in the year 1972-73.

ZONE-II AREA.

Serial No.	Name of the work.	Actual cost.
		Rs.
(a) Works completed.		
1	Widening and improving parsi panchayats at Road, Andheri including S. W. Drains...	1,85,408.00
2	Resurfacing existing cement road in C. C. and widening the remaining portion of 78' road to its full width from 44' road to Estrella Battery Circle, Dharavi ...	3,52,051.00
3	Reinstatement of trenches taken over by water department along Senapati Bapat Marg from Mahim upto Matunga Road Station ...	2,30,597.00
4	Construction of S. W. Drain on Tejpal Road, Subhash Road, Tejpal Scheme Main Road, Tejpal Road to 1 to 5 Vile Parle (East) ...	4,50,784.00
5	Construction of S. W. drain on Nariman Road, Nanda Patker Road, Dayaldas Road, Play-ground Road, Tilak Vidyalaya Road, Azad Road, Mahant Road, Vile Parle (East) ...	3,96,850.00
6	Laying asphaltic concrete over S. V. Road from Andheri Naka to Oshivra ...	11,17,306.00
7	Construction of 13.4112 M (44') wide road in semi grouting in Dharavi Development Scheme ...	1,40,640.00
8	Widening of Jawahar Nagar Road No. 2, at Goregaon including S.W. Drain ...	1,15,000.00
9	Providing S. W. Drains in Liberty Garden at Malad. ...	1,32,511.00
10	Construction of S. W. Drains along part portion of L. T. Road and Chandawarkar Road, Borivli (West). ...	77,000.00
11	Adding one more span to the Culvert on S. V. P. Road, Opp. Apna Hotel at Borivli ...	53,067.00
	Total ...	32,51,214.00

ZONE—III AREA

I.—Resurfacing in asphaltic concrete or cement concrete.

1	Resurfacing with cement concrete Sion Road between Telephone Exchange Building and L. T. M. G. Hospital ...	1,00,658.00
2	Resurfacing with asphalt concrete Tilak Bridge from N. C. Kelkar Road to Sir Bhalchandra Road, Dadar ...	2,34,659.00

II.—Road widening and improving with S. W. Drains

1	Widening and improving Mathuradas Vasanji Road with S. W. Drain, Kurla ...	5,09,567.00
2	Widening and improving Govandi Station Road with S. W. Drains ...	8,38,437.00
3	Proposed Octroi & Truck Terminal at Bombay Panvel Road near Panvel Bridge ...	5,88,167.00
4	Widening and improving Mahatma Phule Road and providing S. W. drain in Mulund (East) ...	3,22,336.00
5	Construction of 18.288 metres wide shaikh mishry Road from Durgha to Metropolitan Spring Mills at Wadala ...	2,83,553.00
6	Construction of 9.144 metres wide roads in Raoli ...	99,396.00
7	Widening and improving Lokmanay Tilak Road, Mulund (East) ...	2,33,729.00
8	Construction of 18.29 mts. wide road No. 33-A between Road No. 18 & 23 in Semi grouting including foot-paths on both sides ...	2,60,034.00
9	Widening and improving road leading to Chittaranjan Nagar upto Rajawadi, Vidya-Vihar (East) ...	1,21,628.00
10	Construction of 18.30 mts. road leading to Slaughter House, Deonar, Construction of drains ...	1,16,553.00

APPENDIX No. 31.—Contd.

Serial No.	Name of the work.	Actual Cost.
		Rs.
11	Widening and improving the road leading to Vidyavihar Rly. Station off Lal Bahadur Shastry Marg, Vidyavihar (West) ...	6,07,714.00
12	Construction of 18.30 mts. wide road between Ramkrishna Chemburkar Marg and Deonar providing earth work embankment for part portion ...	79,700.00
13	Widening and improving Loop Road at Punjabi Colony, including foot-path, Koliwada ...	68,932.00
14	Resurfacing with asphalt macadam, M. G. Road and Netaji Subhash Road, Mulund	2,32,437.00
15	Resurfacing with premix chip coat at the existing balck top width of L. B. S. Marg, between Bhandup and Mulund. ...	1,92,614.00
16	Improving the surface of the carriageway of Ramkrishna Chemburkar Marg from Burma Shell Level crossing to Mahul Village, Chembur in asphalt macadam ...	3,07,275.00
<i>III.—Providing S. W. Drains</i>		
1	Providing S. W. drains in Municipal Colony, Deonar ...	5,23,568.00
2	S. W. drain at K. D. Railway, Deonar ...	1,01,607.00
3	Construction of S. W. drain at Station Road, Vikhroli	29,975.00
4	Construction of S. W. drain at Bhanudp Village. ...	44,218.00
5	Providing S. W. drains on Lal Bahadur Shastry Marg between Bail Bazar Road and Magan-Nathuram Road, Kurla ...	7,49,721.00
6	Construction of S. W. drains at Katcharwadi area, Kurla ...	92,653.00
7	Construction of open S. W. drains at Kanjur Village, Bhandup ...	93,993.00
8	Providing S. W. drains at Tembepada Road, Bhandup ...	1,24,050.00
<i>IV.—Other works</i>		
1	Improving of Road leading to Rifle Range, Chatkopar under Section 63-K ...	1,06,548.00
2	Construction of road connecting Swadeshi Mill road and Rangari Chawl and providing S. W. drains at Chunabhatti Kurla, under Section 63-K ...	83,195.00
		71,46,947.00

ZONE—II AREA

Serial No.	Name of the work	Estimated cost.	Actual expenditure upto 31-3-1973
		Rs.	Rs.
<i>(b) Work in progress.</i>			
1	Rebuilding remaining portion of Oshivra Bridge, Jogeshwari ...	16,53,550.00	4,38,355.00
2	Widening of Old Nagardas Road Andheri including S. W. drains	5,87,441.00	4,06,146.00
3	Widening of Aarey Road, Goregaon including S. W. drains ...	16,69,533.00	9,45,282.00
4	Remaining passages in Dadnapada, Khar ...	1,43,841.00	87,394.00
5	Construction of Madh Marve Road, Malad including S. W. Drains	23,08,766.00	11,77,354.00
6	Widening of Marve Road from Madh Marve to Relief Road, Malad	6,23,975.00	4,96,698.00
7	Widening of Daftary Road, Malad including S. W. Drains ...	7,83,783.00	2,37,909.00
8	Construction of S. W. drains, at Motilal Nagar Nos. 1 and 2, Goregaon ...	5,14,270.00	2,30,634.00
9	Concreting private passages in Jawahar Nagar, Khar ...	5,91,019.00	72,042.00

APPENDIX No. 31.—Concl'd.

Serial No.	Name of the work	Estimated cost.	Actual expenditure upto 31-3-1973.
		Rs.	Rs.
10	Construction of S. W. Drains at 1st and 2nd Road, Khar ...	2,41,600.00	14,187.00
11	Construction of S. W. drains at Phirojshah Road, Besant Road etc. Santacruz ...	9,04,700.00	81,551.00
12	Construction of bridge along walbhat road, Goregaon ...	2,60,870.00	...
13	Widening and improving of Nehru Road, Santacruz (East) including S. W. Drains. ...	10,97,210.00	60,429.00
14	Improving and widening of C. S. T. Road, Santacruz (East) ...	8,01,075.00	1,05,760.00
15	Construction of 9.15 M. wides service road in West of W. E. H. Santacruz (East) ...	21,80,850.00	90,750.00
16	Construction of S. W. drains along part portion of L. T. Road and Chandavarkar Road, Borivli ...	77,000.00	72,457.00
17	Widening of Shankar Lane, including S. W. drains at Kandivli ...	3,78,224.00	...
	Total ...	1,48,17,707.00	45,16,938.00

ZONE—III AREA

I.—Concrete work

1	Resurfacing with cement concrete, Maharani Laxmibai Chowk, Sion ...	4,98,267.00	2,04,033.00
2	Widening of Sion Main Road No. 26A & 26B by addition of Central Reservation to the road between Aurora Junction to Jain Society in Cement concrete ...	18,33,790.00	81,750.00

II.—Road widening and improving with S. W. drain.

1	Approaches to Govandi Bridge at Deonar ...	35,00,000.00	24,22,630.00
2	Construction of proposed Sewri Ghatkopar Road ...	7,73,043.00	2,38,100.00
3	Widening and improving Gokhale Road, Sant Tukaram Road and Sant Ramdas Road, Mulund (East) ...	4,71,249.00	2,83,298.00
4	Widening and improving 30' and 44' roads in Gavade Vinze Scheme in Mulund ...	7,04,186.00	5,52,914.00
5	Widening and improving Ramkrishna Chemburkar Marg (G. M. Road), from Salt Chowky to Chembur Levelcrossing ...	4,31,851.00	1,67,664.00
6	Improving the road at Chirag Nagar and construction of open S. W. drains, Ghatkopar ...	2,59,153.00	56,839.00
7	Widening and improving Dumping Road between Rajendra Prasad Road and L. B. S. Marg and providing S. W. drain at Mulund (West). ...	6,65,760.00	1,79,314.00
8	Reduction in central reservation, Sion Road 26A and 26B between Maharani Laxmibai Chowk and Jain Society ...	11,40,522.00	3,79,965.00
9	Construction of 18.30 mts. (60') road vide Shaikh Mishry Road from Metropolitan Spring Mills to the extension of Road No. 16, Wadala ...	12,39,791.00	...
10	Construction of part portion of 18.30 mts. (60') road between Ramkrishna Chemburkar Marg (G. M. Road) and Deonar on the north of Kurla Mankhurd Railway ...	4,79,017.00	77,250.00
11	Construction of 15.39 mts. road and Shaikh Mishry Road in asphalt macadam including foot-path on both sides in Raoli Antop Hill area. ...	1,91,771.00	...
12	Widening and improving the surface of the carriageway with asphalt macadam of Dr. Choithram Gidwani Road between Ramkrishna Chemburkar Marg and Golf Club ...	3,18,195.00	...
13	Widening and improving with asphalt macadam of Dr. Choithram Gidwani Road from Golf Club to Panjarapole and providing S. W. drain ...	20,89,834.00	...

III.—Providing S. W. Drains.

1	Widening the culvert on Central Salsette Road, Kurla (East) ...	2,43,980.00	1,04,992.00
2	Providing S. W. drain along Lal Bahadur Shastri Marg between Kurla Court to S. G. Barve Marg Kurla ...	6,80,662.00	2,56,922.00
3	Providing S. W. drains at Lal Bahadur Shastri Marg between Bail Bazar Road and Magan Nathuram Road, Kurla ...	9,10,048.00	5,07,533.00
	Total ...	1,44,51,119	54,13,004.00

APPENDIX No. 32.

Statement showing the works of Drainage Construction in progress and those completed in Zone-II and III in the year 1972-73.

ZONE—II AREA.

Serial No.	Name of the work	Actual Cost.
		Rs.
(a) Works Completed.		
1	Providing and laying 14" dia. sewer for Bazar Road Market to Bunderwadi Pumping Station	1,47,545.14
2	Constructor of Pumping Station Kherwadi Bandra (East)	17,00,000.00
3	Providing and laying 9" and 12" sewer in Pali Hill	1,49,000.00
4	Providing and laying 230 mm. and 300 mm. sewers in Area 'A' Malad (West)	2,80,000.00
5	Providing and laying 230 mm. sewers in Area-B Malad (West)	3,07,118.98
6	Providing and laying 450 mm. sewers in Area-C Malad (West)	2,65,000.00
7	Providing and laying 300 mm. and 230 mm. Sewers in Area-D, Malad (West)	3,99,622.00
8	Providing and laying 450 mm., 400 mm. sewers in Area-E, Mald (West)	2,99,000.00
9	Providing and laying 300 mm. & 320 mm. sewers in Area-F, Malad (West)	2,12,656.00
10	Providing and laying sewers in 44'-0" wide D. P. Road, Malad (West) Sunder Nagar...	2,97,928.83
11	Providing and laying 1100 mm. dia. R. C. pipe sewer along Relief Road in Area 'H', Part-I Kandivli (West)	3,92,690.00
12	do. do. do. do. Part-II	3,90,160.00
13	do. do. do. do. Part-III	3,20,000.00
14	Providing and laying 1200 mm. R. C. pipe sewers at Goregaon (West), Part-II	3,82,116.00
	Total	55,42,837.85

ZONE-III AREA

1	Providing and laying 1200 mm. dia. R. C. H. P. Sewer from Railway Culvert No. M/18/1 upto Mulund (South) pumping station etc. at Mulund Part-I.	4,01,000.00
2	do. do. do. do. Part-II	5,14,562.34
3	Providing and laying 450-600 mm. dia. R. C. H. P. sewer along Devidayal Road at Mulund (West)	5,08,247.00
4	Providing and laying 230-300 mm. dia. S. W. pipes sewer in Area-A Mulund (East)	2,32,933.20
5	Providing and laying 230 mm. dia. S. W. pipe sewer in Displaced Persons Colony at Chembur	3,81,703.72
6	Providing and laying 300 mm. dia. S. W. pipes sewer in Union Park Area, Chembur...	1,08,624.44
7	Providing and laying 230-300 mm. dia. S. W. and 450 mm. dia. R. C. H. P. sewer in Garodia Nagar Ghatkopar Part-I	83,209.39
8	do. do. do. do. Part-II	1,31,386.67
9	Training of Nalla from the culvert across Ghatla Village Road to the culvert across Kurla Mankhurd Railway at Chembur (East) Part-I	2,67,287.82
10	do. do. do. do. Part-II	3,59,832.41
11	Training of Govandi Nalla from the junction of V. N. Purao Marg with Govandi Station Road to the Demographic Institute at Deonar, Part-I	2,32,327.30
12	Training of Nalla between Culvert No. 20 below Tansa pipe line and south of Chittaranjan Nagar, Vidyavihar (East)	4,60,709.76
13	Construction of channel from culvert on approach road to Sahakar Nagar to Tansa Pipe line at Chembur	2,36,327.03

APPENDIX No. 32—Contd.

Serial No.	Name of the work.	Actual Cost.
		Rs.
14	Training of Nalla from Railway culvert No. M/9/5 to S. G. Barve Marg (C.S.T. Road) at Kurla, Part-I	2,54,434.31
15	do. do. do. do. Part-II	1,45,102.17
16	Training of nalla from existing culvert across S. G. Barve Marg to the culvert across Railway Refinery Siding at Kurla (East)	2,95,142.23
17	Providing S. W. drain from Christian village to L. B. Shastry Marg along Sonapur Lane at Kurla (West)	1,52,970.00
18	Providing S. W. drain from Sane Guruji Vachanlaya to culvert across across highway at Chunabhatti, Kurla,	1,86,535.00
19	Providing S. W. drain at Sane Guruji Vachanlaya at Kurla	1,87,232.29
20	Guniting treatment to the Digestion Tank at Ghatkopar Sewage Purification Work...	68,897.67
	Total Rs ...	52,08,464.38

Zone—II Area

Serial No.	Name of the work	Estimated Cost	Actual expenditure upto 31-3-1973
		Rs.	Rs.
	(b) Work in progress		
1	Providing and laying 350 mm. R. C. pipe sewers from Bazar Road Municipal Market to Bunderwadi Pumping Station at Bandra (West)	1,28,618.00	64,982.74
2	Providing and laying 1050 mm. dia. C. I. rising main from Kherwadi pumping station	18,27,988.00	13,84,661.41
3	Construction of Kherwadi pumping station at Bandra (East)	19,96,429.00	14,34,163.51
4	Providing and laying 300 mm. and 230 mm. dia. S. W. pipe sewer at Pali Hill Bandra (West)	1,74,854.00	1,44,832.40
5	Providing and laying 1200 mm. dia. R. C. pipe sewer across W. H. Express Highway	1,30,871.00	1,23,187.45
6	Providing and laying 250 mm., 300 mm. S. W. pipe sewer and 400 mm. R. C. Hume Pipe Sewer T. P. S. VI, Santacruz (A)	3,10,205.39	45,381.08
7	Desilting 1200 mm. R. C. Hume Pipe Sewer along Western Express Highway from Vile Parle to Bandra	1,35,435.00	...
8	Providing and laying 230 mm. and 300 mm., 350 mm. dia. pipe sewer in Area-A, B of T. P. S. V. of Vile Parle (East)	6,01,853.00	3,42,129.48
9	Providing and laying 230 mm. and 300 mm. S. W. pipe sewer in area C, D, E at T. P. S. V. of Vile Parle (East)	5,80,989.00	3,79,105.03
10	Providing laying 230 mm. S. W. pipe in area G & F, T. P. S. V. Vile Parle (East)	3,69,993.00	1,65,887.76
11	Providing and laying 900 mm. dia. sewer along west of Western Express Highway Parts I and II Vile Parle (East)	6,36,665.00	4,68,139.29
12	P/L Do. Do. Do. ... Parts III and IV Do. Do. ...	7,55,896.00	6,46,626.05
13	P/L Do. Do. Do. ... Parts V and VI Do. Do. ...	12,43,532.00	1,10,872.19

APPENDIX No. 32.—Contd.

Serial No.	Name of the work	Estimated Cost	Actual expenditure upto 31-3-1973
		Rs.	Rs.
14	Providing and laying 230 mm. and 300 mm. S. W. sewer in area F S G, J. V. D. P. Scheme, Vile Parle (West) ...	3,69,992.00	2,71,282.61
15	Do. Do. Area B & D. Do. ...	3,99,793.00	2,98,680.09
16	Do. Do. Area F, G & H. Do. ...	5,20,334.00	2,60,612.75
17	Providing and laying 350 mm. R. C. C. sewer and 300 mm. instead of 250 mm. sewer in Juhu Area Vile Parle (West) ...	5,14,217.00	2,78,082.61
18	Providing and laying 350 mm. R. C. sewer and 300 mm. instead of 250 mm. S. W. pipe sewer in Juhu area 'B' Vile Parle (West)	6,10,680.40	2,89,608.63
19	Remaining work providing and laying 600 mm. R. C. pipe sewer in area (L) at Andheri (East) ...	1,84,574.00	1,61,209.06
20	P/L 350 mm. and R. C. C. pipe sewer from Royal Hotel to Juhu Church ...	6,44,268.00	5,26,190.96
21	P/L. S. W. sewer along Chakala Road from Sarvodaya Society to Airport Colony ...	71,264.00	54,615.33
22	Constuction of S. W. Drain in portion fo sub-way, Andheri...	1,97,068.00	2,24,672.00
23	Construction of nalla from Western Express Highway to culvert at Link Road, Aerodrome area, Santacruz (East), Part-II ...	4,48,983.00	4,26,125.32
24	Do. Do. Do. Part-I ...	6,11,054.00	3,50,693.99
25	P/L 500 mm., 450 mm. and 350 mm. R. C. pipe sewer and 230 mm. S. W. pipe sewer in area 'B' Versova Andheri (West)...	5,56,420.00	77,092.50
26	Training of Kol-dongri nala Andheri (East) ...	7,93,000.00	...
27	P/L. 230 mm. and 300 mm. sewer in area 2, 3, 4 & 5 at Goregaon	4,17,417.00	2,42,172.65
28	P/L. 120 mm. R. C. H. P. sewer in Part-I, Goregaon (West) ...	6,27,393.00	2,36,812.04
29	P/L. 1200 mm. R. C. pipe sewer in Part-III, Goregaon (West) ...	7,53,695.00	2,21,418.21
30	P/L. 1000 mm. R. C. H. P. sewer in Area 12-A, Goregaon (West)	5,84,306.00	1,83,552.97
31	P/L. 1000 mm. R. C. H. P. sewer in Area 12-B, Goregaon (West)	6,09,738.00	3,18,118.14
32	P/L. 900 mm. R. C. H. P. sewer in Area 12-C, Goregaon (West)	4,35,949.00	2,55,825.93
33	P/L. 900 mm. R. C. H. P. sewer in Area-11, Goregaon (West) ...	11,04,592.00	2,35,521.29
34	Providing and laying sewer in Area 13 & 14, Goregaon (West) ...	5,36,051.00	...
35	P/L. 230 mm. and 300 mm. sewer in area 19 & 20, Goregaon (West)	6,78,376.00	...
36	P/L. 230 mm. & 300 mm. sewer in area 21 & 22, Goregaon (West)	6,12,793.00	...
37	P/L. 230 mm. & 300 mm. S. W. pipe sewer along Aarey Road, Goregaon (West) ...	71,527.00	19,800.00
38	P/L. 400 mm. dia. R. C. and 300 mm. and 230 mm. S. W. pipe sewer at Area 'K' Kandivli (West) ...	5,13,264.00	1,96,953.38
39	P/L. 230 mm. S. W. pipe sewer and 400 mm. R. C. pipe sewer along M. G. Road, and by roads at area 'D' Kandivli (West)...	4,41,063.00	1,81,578.00
40	Do. Do. Do. Do. ... Hemu Kalani Road (remaining works) in area-A, Kandivli (West)	8,96,371.00	2,47,341.00
	Total ...	2,31,17,510.79	1,08,67,937.85

APPENDIX No. 32.—Concl'd.

Serial No.	Name of the work	Estimated cost.	Actual expenditure upto 31-3-73.
		Rs.	Rs.
Zone—III Area			
1	Providing and laying 230 mm. dia. and 300 mm. dia. S. W. pipe sewer in Brahman Wada Kurla ...	6,94,755.21	...
2	Providing and laying 300 and 230 mm. dia. S. W. pipe sewer along D. P. Road in S. No. 14 at Chembur (Part-II) ...	1,32,622.35	3,120.00
3	Training of nallas (A-C) and remodelling of culvert at A at Barve Nagar, Ghatkopar (West) ...	7,14,616.67	3,58,969.57
4	Do. Do. (B-C) ...	7,64,059.35	3,17,348.38
5	Training of Govandi Nalla from the junction of V. N. Purao Marg with Govandi Station Road to Demographic Institute at Deonar Part-II ...	1,27,965.87	...
6	Training of Kesar Baug Nalla at Mulund ...	9,42,244.42	7,41,725.26
7	Dumping ground nalla at Mulund ...	5,01,464.78	3,28,380.50
8	Training of Nalla along Godrej Compound Wall (from A to B) etc. at Park Site Colony, Vikhroli (West) ...	2,87,133.91	47,111.03
9	Pumping station at Mulund ...	12,18,959.67	6,39,072.56
	Total ...	53,83,822.23	24,35,727.30

APPENDIX No. 33.

The progress of works of sewers and S. W. Drains carried out through Contractors in Zone-II & III area during the year under review is as under:—

Serial No.	Particulars.	Total	150 mm.	230 mm.	300 mm.	330 mm.	375 mm.	400 mm.	450 mm.	600 mm.	700 mm.	900 mm.	1000 mm.	1100 mm.	1200 mm.	1500 mm.	
						Sewers											
1	Total length of sewers of Various sizes. ...	34533	4479	17078	5508	1133	...	515	754	542	293	960	560	994	1678	9	
2	Total No. of man-holes provided on sewers ...	1072															
3	Total No. of vent shafts provided on sewers ...	183															
4	Cost incurred on sewers ...	Rs. 1,30,68,181.90.															

APPENDIX No. 34.

Estimates prepared for improvement of private roads which were in public use for more than 10 years.

Serial No.	Name of the Road.	Estimated cost.
		Rs.
	'K' Ward.	
1	Improving Hindu Friends Society Road No. 5, Jogeshwari (East)	15,445.00
	'L' Ward.	
2	Gaffor Khan Estate	27,260.00
2A	do. do.	24,577.00
3	Kirani Lane of Saki Vihar Road	1,60,000.00
	'M' Ward.	
4	Road leading to old building No. 37 Chembur Camp.	13,729.00
5	Road leading to R. C. Bk. No. 39 Chembur camp.	7,285.00
6	Road leading to pump house, Chembur camp.	9,415.00
7	Passage from R. C. Bk. to Vaswani Dispensary	2,362.00
	'P' Ward.	
8	Widening and improving the surface of internal roads in Pandurang Wadi, Goregaon (East)	39,931.00
	'R' Ward	
9	Road leading to Ketkipada, Dahisar	30,550.00
10	Road leading to Madona Colony from S. V. Patel Road, Borivli	7,640.00
11	Govan Road from Laxman Mhatre Road to River, Part-I, Dahisar	36,310.00
12	do. do. Part-II	14,775.00
13	Overipada Road from S. V. Road to Ovripada, Dahisar	21,625.00
14	Road from Telepakhadi to Thakur Pakhadi, Eksar, Borivli	26,185.00
15	Chandavarkar Extension Road, Borivli	14,700.00
	'T' Ward.	
16	Sanmansing Road, Bhandup	1,98,896.00
17	Khuresh Nagar Road, Bhandup	53,868.00
18	Nardas Nagar Road, Bhandup	1,04,663.00
19	Sai Nagar Road	32,738.00
20	Road between pipe line and Gandhi Road	1,04,663.00
21	Jamil Nagar Road	2,59,525.00
22	Construction of Passage near Suyog Co-operative Mulund (East)	27,959.00

APPENDIX No. 35.

Statements showing the private roads taken over by the Corporation in the Suburbs and Ext. Sub.

Serial No.	Name of the road.
'L' Ward.	
	Internal Road of M. H. B. Colony known as Nehru Nagar at Kurla (East)
2	Internal roads in at Asalpha M. H. B.
'M' Ward.	
3	Road passing through Sarvodaya Estate.
'N' Ward.	
4	Kajupada Road
5	Azad Nagar Road.
6	Ashok Silk Mills Road.
7	Road leading to Jadhav Nivas from Shree Bhavan.
8	Navsewa Saheb Road from Home-guard compound to Chandivali Bridge.
9	Road leading to 100 proposed road from Gangawadi
10	Road leading to Diamond Terrace from Gangawadi.
11	Road leading to school from Sainath Nagar.
12	1st cross road from Sainath Nagar.
13	1st cross road from Village Road.
'T' Ward.	
14	Sanmansing Road , Bhandup.
15	Khuresh Nagar Road, Bhandup.
16	Nardas Nagar Road, Bhandup.
17	Sai Nagar Road.
18	Road between pipe line and Gamdevi Road.
19	Jamil Nagar Road.
20	Construction of passage near Suyog Co-opertive Mulund (East).

APPENDIX No. 36.

Action under Section 305 of the B. M. C. Act, to improve the private streets in Suburbs and Extended Suburbs.

Serial No.	Name of the street.	Remarks regarding progress.
'N' Ward.		
1	Extension to Purshottam Jamnadas Sadan Road	... Road work completed.
'T' Ward.		
2	Welbai Scheme No. 1 and 2	... Notice under Section 305 were served.
3	Murar Road, Mulund	... ..
4	Datar Colony, Bhandup	... Notices were being served.
5	Baba Pradhymna Sing Road	... ..
6	Extension to L. T. Road, Mulund (East)	... ..

APPENDIX No. 37.

Statement showing the works which were either completed or in progress (under Loan Works) during the year (Works other than sewage).

Serial No.	Name of the work.	Estimated cost.
		Rs.
'P' Ward.		
1	Adding set-back along Quarry Road at properties known as Deerā Compound, Malad	5,115.00
2	Adding set-back and Improving the surface of Lala Lajpatrai Road of Goraswadi ...	25,598.00
3	Adding set-back and Improving the surface of part length of Turel Pakhadi Road at Mani Bhuvan, Malad (West) ...	17,967.00
4	Adding set-back and improving the surface of Solicitor Road, Malad ...	38,983.00
5	Filling of well on road at East side of Moti Baug, Quarry Road, Malad. ...	2,248.00
6	Adding set-back and improving surface of Kedarmal Road, Malad (East) ...	46,851.00
7	Adding set-back on Khot Kuva Road at Tipco Malad ...	8,546.00
8	Adding set-back on Liberty Garden Road No. 1, Opp. Mani Bhuvan, Malad (West) ...	9,895.00
9	Adding set-back at Mandir and raising the existing road at Khotkuva Road, Malad (East) ...	6,909.00
10	Adding set-back and Improving the surface of Nanabhai Laxmanji Road from N. L. Road to Bunder Road, Malad. ...	49,516.00
11	Adding set-back and Improving the surface of Nanabhai Laxmanji Road from Haruskhan Road to N. L. Cross Road, Malad. ...	49,561.00
12	Construction of Liberty Garden Road No. 3, Malad (West) ...	49,051.00
13	Widening and improving the surface of Podder Road from Gurudwar to Quarry Road, Malad ...	35,821.00
14	Construction of S. W. Drain in the set-back portion of S. V. Road junction of Topiwala property Goregaon ...	7,725.00
15	Raising Amarsi Road to meet with the existing road, Malad (East) ...	5,129.00
16	Raising of Khot-kuva Road at stoping portion low-lying land Malad ...	9,989.00
17	Raising the remaining portion at Khotkuva Road, from Quarry Road to Nallah ...	8,682.00
18	Adding set-back on Quarry Road and improving the surface Opp. Nevatia Road, Malad	45,674.00
19	Construction of retaining wall along the regular line at Tipco on Quarry Road, Malad	47,349.00
'R' Ward.		
1	Widening and improving M. Gandhi Road Extn. from Dahanukar wadi to Relief Road Kandivli, Part-I ...	46,600.00
2	do. do. do. do. Part-II ...	46,600.00
3	Widening and improving Kasturba Road, Kandivli Part-I ...	45,200.00
4	do. do. do. Part-II ...	42,100.00
5	do. do. do. Part-III ...	38,800.00
6	do. Akurli Road Extn. between Western Express Highway, Subway and Mahindra & Mahindra, Kandivli, Part-I ...	44,300.00
7	do. do. do. do. Part-II ...	41,300.00
8	do. do. do. do. Part-III ...	39,600.00
9	do. do. do. do. Part-IV ...	34,700.00
10	do. do. Jambli Gully, Borivli Part-A ...	32,400.00
11	do. do. do. do. do. Part-B ...	21,700.00
12	do. do. do. do. do. Part-C ...	22,300.00

APPENDIX No. 37.—Contd.

Serial No.	Name of the work.			Estimated cost.
				Rs.
13	do.	Kasturba Cross Road, No. 7, Borivli	Part-I ...	44,700.00
14	do.	do. do. do.	Part-II ...	42,000.00
15	do. Board, Borivil	Road leading to Food Godown at Maharashtra Housing	...	40,000.00
16	do.	M. H. B. Road, Borivli (East)	Part-I ...	36,900.00
17	do.	do. do. do.	Part-II ...	37,400.00
18	do. Borivli	Carter Road No. 3 from Dattapada Road to Ambaji Temple	...	20,000.00
19	do.	Kasturba Cross Road, No. 1, Borivli	Part-I ...	38,300.00
20	do.	do. do. do.	Part-II ...	37,200.00
21	do.	Dattapada Cross Road No. 3, Borivli	...	19,500.00
22	do.	Asra Colony Road, Borivli	...	22,900.00
23	Filling in the embankment at Akurli Road Extn. beyond Express Highway Subway, Kandivli			9,500.00
24	do.	do. do. do.	...	9,100.00
25	do.	do. do. do.	...	9,700.00
26	do.	do. do. do.	...	4,300.00
27	Asphalting the remaining portion of Jambli Galli, Borivli			15,400.00
28	Widening and improving Reghunath Mhatre Road, Dahisar			22,300.00
29	do.	do. Khajuria Road near Bhadrnagar, Kandivli	...	24,400.00
30	do.	do. Khajuria Road between Khajuria Property and Kilachand property, Kandivli	...	48,400.00
31	do.	do. Khajuria Road in-front of Khajuria Property, Kandivli	...	46,200.00
32	Widening and improving Khajuria Road, Opp. Kilachand property, Kandivli			48,400.00
33	Widening and improving Ch. Ashok X Road No. 1 near P & B Lab. Kandivli			29,300.00
34	do.	do. Ch. Ashok X Road No. 1 upto Polydor, Kandivli	...	30,500.00
35	do.	do. Khajuria Tank Road, Kandivli	...	21,900.00
36	do.	do. Side berms of Government Industrial Estate from Hindustan Steel to Plot No. 2, Kandivli	...	40,400.00
37	do.	do. From Plot No. 2 to Petrol Pump, Kandivli	...	40,600.00
38	do.	do. from Petrol Pump to International Shirts, Kandivli	...	26,300.00
39	do.	do. S. V. Road from Bridge to Rahim Baug, Dahisar	...	39,100.00
40	do.	do. Rahim Baug to Ration Shop, Dahisar	...	39,700.00
41	do.	do. Ration Shop to Ambewadi X Road, Dahisar	...	37,500.00
42	do.	do. Ambewadi upto Anuj Plastics, Dahisar	...	48,200.00
43	do.	do. Umedashram Road, Borivli	...	37,200.00
44	Shifting to Temple at Wamanrao Bhoir Road, Dahisar			4,200.00
45	Construction of Electric Cabin at Shimpoli Road, Borivli			1,200.00
46	Shifting of Mali Shed along S. V. Road, Borivli			1,600.00

APPENDIX No. 37.—Concl'd.

Serial No.	Name of the work.	Estimated cost.
		Rs.
47.	Soakpit at Patil Wadi, Jambli Gully, Borivli	1,400.00
48.	Reconstruction of Ota of the Temple at Shanker Lane, Kandivli	1,000.00
49.	Shifting Electric Cabin behind Dattapada Municipal School, Borivli	1,700.00
50.	Shifting Electric Cabin at S. V. Patel Road, Borivli	400.00
51.	Providing sub-station Building at Borivli Hill Reservoir, Borivli	16,000.00
52.	Shifting Septic Tank at Jambli Gully, Borivli	2,600.00
53.	Repairing of Temple at Shanker Lane, Kandivli	1,100.00
54.	Construction of Police Chowkey at Octori Checknaka, Dahisar	16,200.00
55.	Reconstruction of South-side wall of the structure abutting Mhatre Nalla, Borivli	1,300.00
56.	Repairing the broken drain at Shimpoli Village, Borivli	2,300.00

MUNICIPAL CORPORATION OF GREATER BOMBAY


GRAPH SHOWING NO. OF LIGHTS, TOTAL WATTAGE AND EXPENDITURE ON STREET LIGHTING IN EACH WARD OF SUBURBS DURING YEAR 1964-65 TO 72-73.

INDEX :-

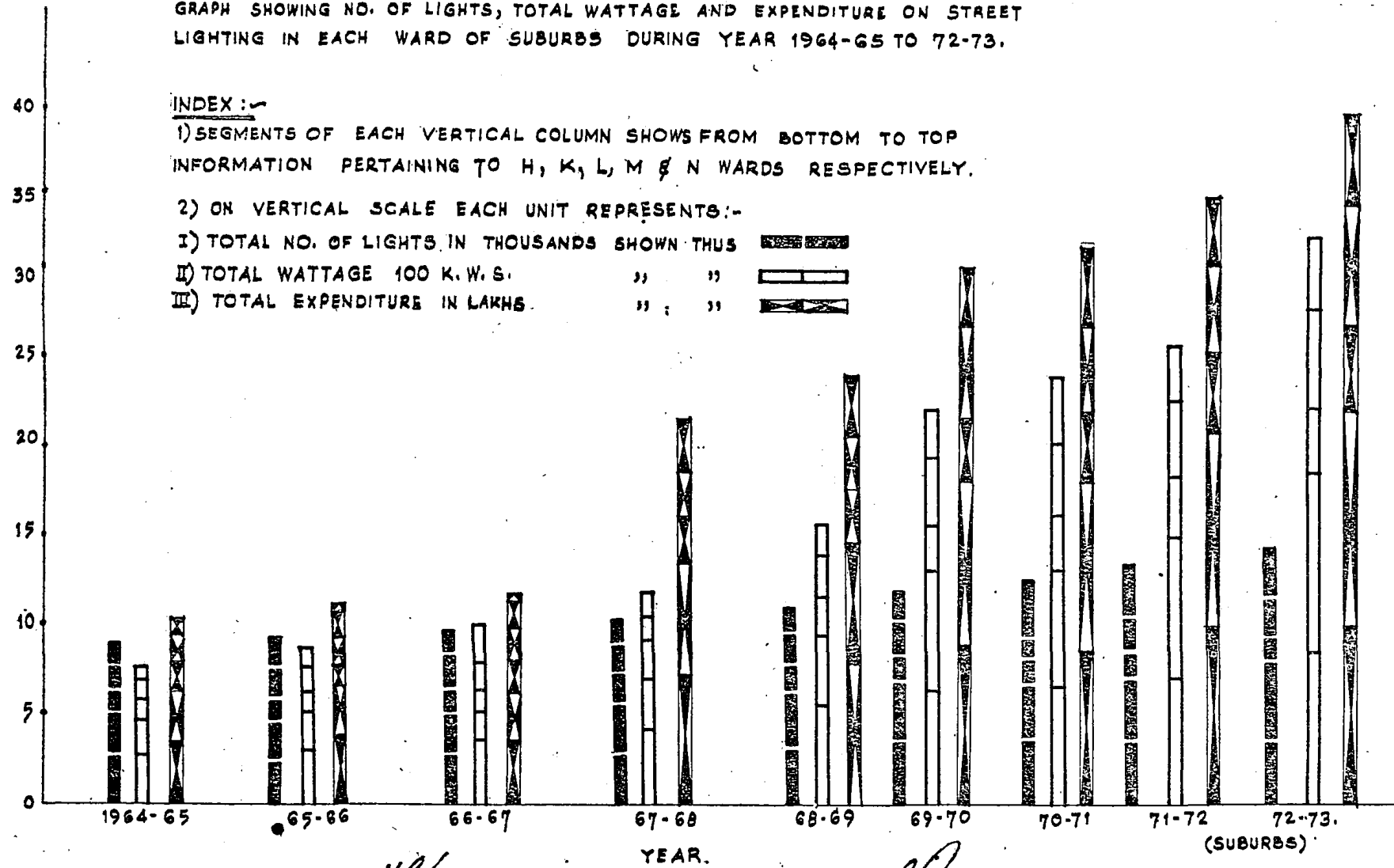
1) SEGMENTS OF EACH VERTICAL COLUMN SHOWS FROM BOTTOM TO TOP INFORMATION PERTAINING TO H, K, L, M & N WARDS RESPECTIVELY.

2) ON VERTICAL SCALE EACH UNIT REPRESENTS :-

I) TOTAL NO. OF LIGHTS IN THOUSANDS SHOWN THUS 

II) TOTAL WATTAGE 100 K.W.S. " " 

III) TOTAL EXPENDITURE IN LAKHS " " 



A. E.
A. E. (TRAFFIC & LIGHTING)

E. E.
E. E. (TRAFFIC & CO-ORDINATION)

MUNICIPAL CORPORATION OF GREATER BOMBAY

GRAPH SHOWING NO. OF LIGHTS, TOTAL WATTAGE AND EXPENDITURE ON STREET LIGHTING
IN EACH EXTENDED SUBURBS DURING THE YEAR 1964-65 TO 72-73.

INDEX:-

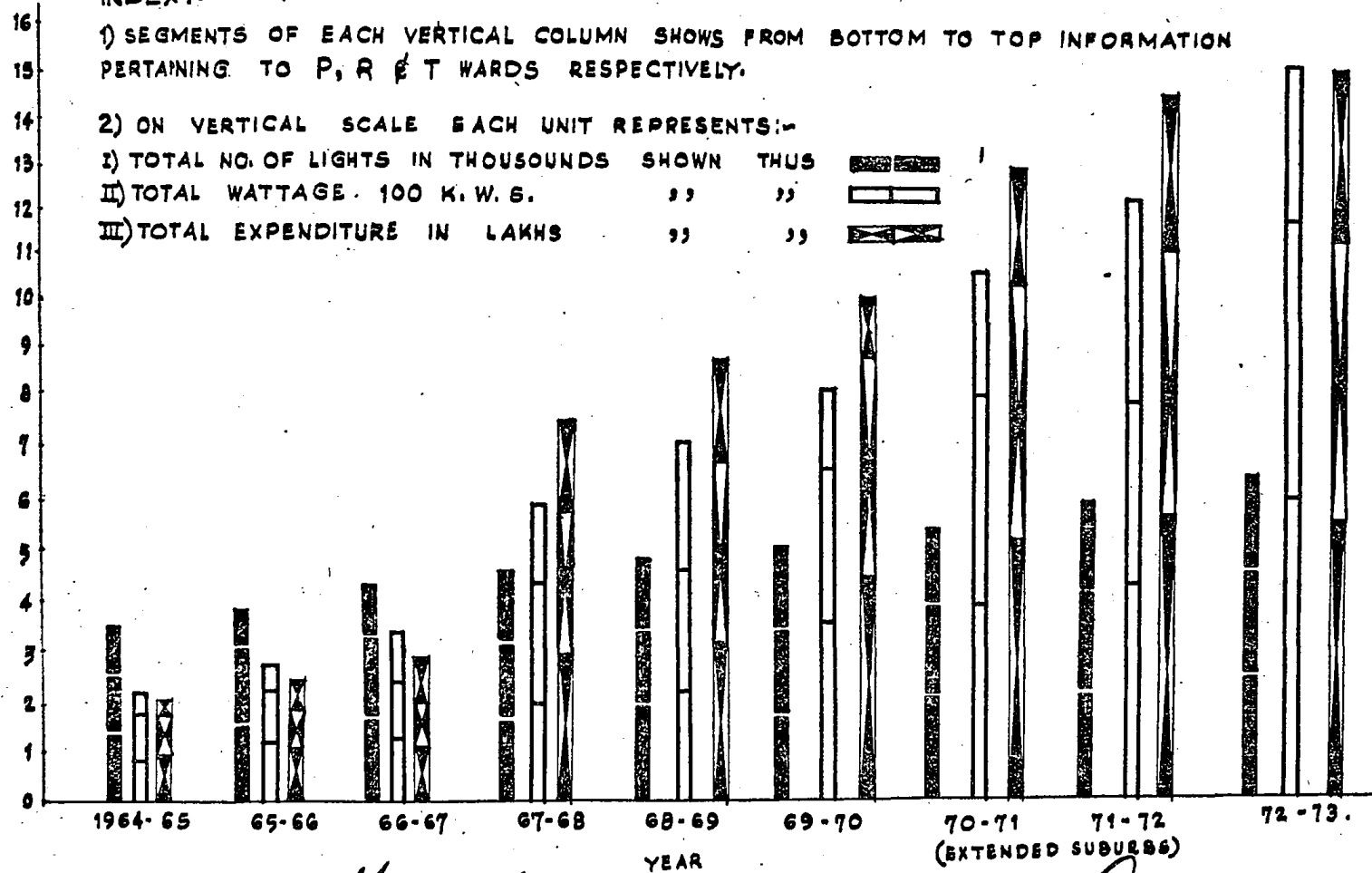
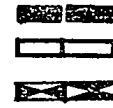
1) SEGMENTS OF EACH VERTICAL COLUMN SHOWS FROM BOTTOM TO TOP INFORMATION
PERTAINING TO P, R & T WARDS RESPECTIVELY.

2) ON VERTICAL SCALE EACH UNIT REPRESENTS:-

I) TOTAL NO. OF LIGHTS IN THOUSANDS SHOWN THUS

II) TOTAL WATTAGE - 100 K.W. S.

III) TOTAL EXPENDITURE IN LAKHS



A. E.

A. E. (TRAFFIC & LIGHTING)

E. E.

E. E. (TRAFFIC & CO-ORDINATION)

APPENDIX No. 40.

The regular lines were prescribed on the following roads under Section 297(i) (a) and 297 (i) (b) during the year under report.

Serial No.	Name of the Road.	Width
1	Widening of Sonawalla Road and Walbhat Road at Goregaon (East)	18.30
2	Plan showing Kunjur Village Road	18.30
3	Widening of Gorai Uttan Road	18.30
4	Widening of Sardar Vallabhbhai Patel Road and Jatashankar Dosa Road	18.30
5	Lokmanya Tilak Road between Mulund Railway Station to Gopal Krishna Gokhale Road	18.30
6	Manori Gorai Road	18.30
7	2nd Road at Khar	18.30
8	Madh Marve Road.	17.05 13.40 23.75
9	Passage off Mount Mary Road.	9.1 metres.
10	Passage off Sherly Mala Road	6.08
11	Shantawadi Road, Andheri	6.08
12	Sahakar Road, Jogeshwari (West)	13.4 metres.
13	Bhulabhai Desai Road	9.1 metres.
14	Khajuria Tank Road	9.1 metres.
	Khajuria Tank X Road	9.1 metres.
15	Laxmi Narayan Lane	9.1 metres
16	Road No. 5 and 6 at Daulat Nagar Borivli (East)	13.4 metres.
17	Parsiwadi Lane, Ghatkopar	9.10 M.
18	Chirag Nagar Road	9.10 M.
19	Bhandup Dispensary Road	9.10 M.
20	Permanand Ratansi Lane	9.10 M.
21	Sant Dnyaneshwar Road	9.10 M.
22	James B. G. Road	9.10 M.
23	Tank Road	9.10 M.
24	Kurla Village Gaothan Road	13.40 M.
25	Ganesh Baug Lane	13.40 M.
26	Road leading to Shastri Building of R. C. Marg near Telephone Exchange	9.10 M.
27	Match Factory Lane, Kurla	13.40 M.
28	Chembur Gaothan Village Road	9.10 M.
29	Road leading to Deonar with junction of R. C. Marg to Borla Village.	13.40 M.

APPENDIX NO. 41.

Statement showing the number of tenements constructed by private parties during the year 1972-73.

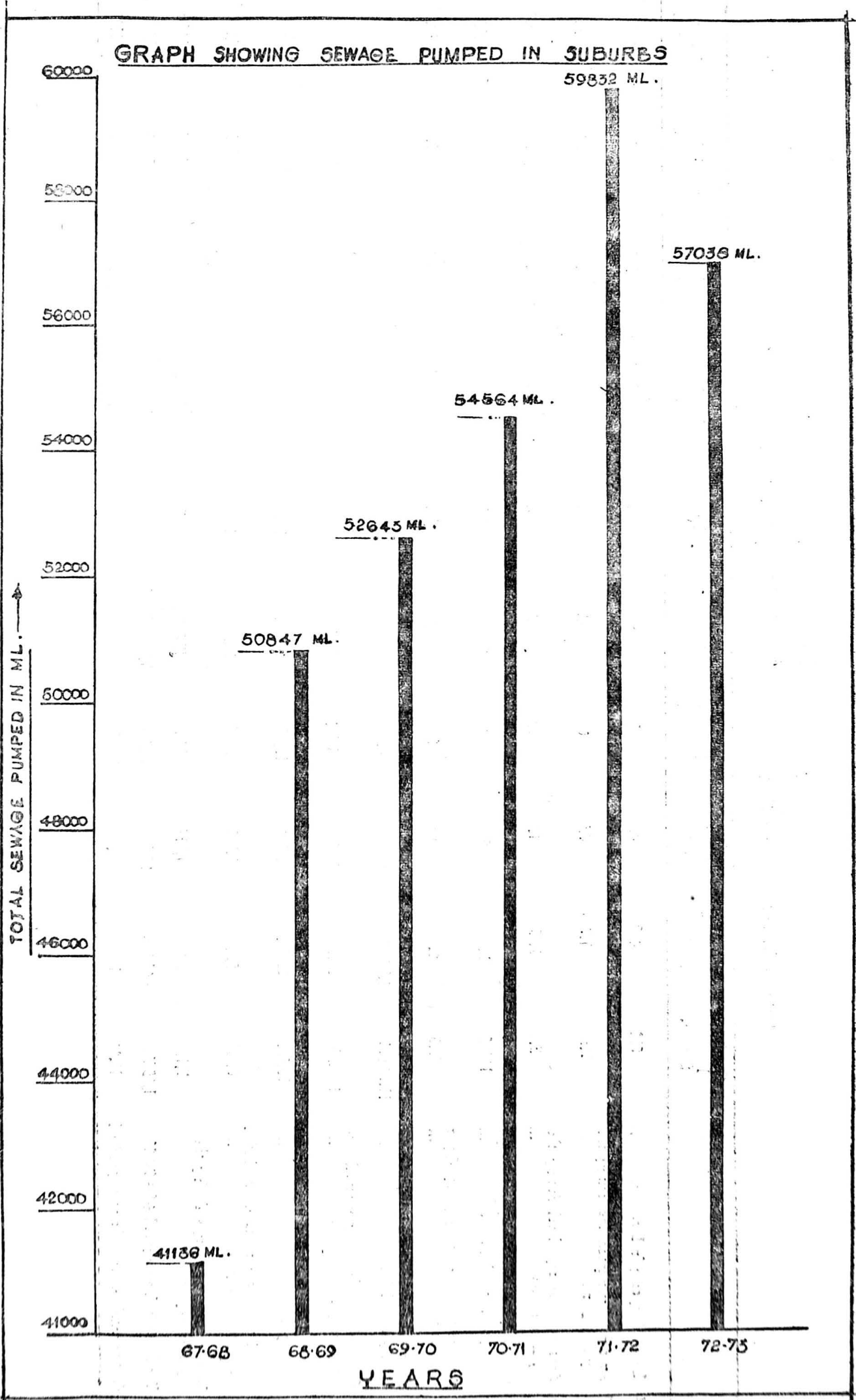
Ward.	No. of one room tenements	No. of two rooms tenements	No. of larger tenements usually known as blocks.	Total
H	146	506	2007	2659
K	418	2236	3960	6614
P	92	831	1079	2002
R	468	969	432	1596
L	41	83	15	139
M	38	170	130	338
N	203	834	387	1424
T	132	470	264	866
Total	1538	5828	8274	15638

APPENDIX NO. 42

Statement showing the performance Sewage Pumping Stations in Subs.in charge of E. E. Mech. (N & P) during 1972-73

	Ghatkopar Pumping Station.	Kurla Pumping Station.	Deonar Pumping Station.	Vikharli Pumping Station.	Versova Pg. stn.	Khar Pg. stn.	Bunderwadi Pg. stn.	Jai Bharat Pg. stn.	Climbai Pg. stn.	Malad. Pg. stn.
1 Installed capacity in Ltrs./Sec. ...	871	442	424	78	1,248	832	351	305	78	2,632
2 Average of minimum level during the year in metres. ...	2m	1.0	0.5	0.6	4.8	1.85	2.35	0.90	0.88	3.2
3 Average of average level during the year in metres ...	3.4	2.75	1.6	1.8	5.5	3.41	4.38	3.43	2.90	5.2
4 Total sewage quantity pumped during the year in million litres ...	16405	3096	583	84	21,100	6,192	2,794	1,629	515	4,640
5 Average sewage quantity pumped per day in million litres ...	46.6	9.48	1.6	0.23	59	17.00	7.8	4.4	1.4	12.7
6 Electrical energy consumption during the year in KWH ...	11,74,600	1,37,896	58,324	4,718	6,60,720	4,07,460	1,24,35	10,630	22,336	7,246
7 Cost of electrical energy consumed during the year in rupees ...	1,21,502	24,050	14,262	1,180	71,160	53,402	28,722	20,643	3,353	39,000
8 Cost of operative staff during the year in rupees ...	28,590	28,660	37,090	18,090	28,080	31,452	35,383	31,452	31,452	3,000
9 Cost of repairs and maintenance during the year in rupees ...	8,470	5,934	2,967	2,967	24,600	10,016	9,335	4,402	4,753	4,000
10 Cost of overhead charges during the year in rupees ...	7,159	2,610	1,717	1,717	13,000	9,377	7,760	7,816	7,907	8,000
11 Total cost during the year 7+8+9+10	1,65,721	61,254	56,036	23,954	1,36,840	1,04,247	81,200	64,318	47,465	54,000
12 Cost per million litres of sewage pumped	10.10	19.79	96.12	285.17	6.4	16.83	29.06	39.48	92.75	11.7

APPENDIX No. 43.



APPENDIX No. 44.

Statement showing the details of Works carried out by Electrical (Planning & Design Section) (Subs), during the year 1972-73.

Sr. No.	Description.	No. of estimates prepared.	Amounts		No. of Draft Tenders sent.	No. of tenders Advertised.		No. of tenders estimated		Amounts.	
			Rs.	P.		Elect. Dept.	with Civil.	Elect. Dept.	With Civil.	Elect. Dept.	With Civil.
(1)	Schools ...	11	9,17,750.00		11	...	7	...	4	...	3,33,744.00
(2)	Housing ...	4	3,01,000.00		2	...	2	...	...	...	...
(3)	Lifts ...	7	5,49,950.00		5	2	...	1	...	50,640.00	...
(4)	Hospitals Maternity Homes, Staff Quarters ...	6	6,78,000.00		8	...	3	...	6	...	2,93,428.00
(5)	Markets ...	1	8,075.00		1	...	1	...	1	...	7,835.00
(6)	Ward Offices ...	1	1,44,900.00		1	...	1	...	...	...	...
(7)	Fire Stations ...	2	68,100.00		1	...	1	...	1	...	8,970.00
(8)	Welfare Centres ...	2	64,470.00		1	...	1	...	1	...	31,628.00
(9)	Miscellaneous ...	3	1,25,200.00		2	...	2	...	2	...	1,27,709.00
	Total ...	37	28,57,445.00		32	2	18	1	15	50,640.00	8,03,314.00

APPENDIX No. 45.

Statement showing the details of works carried out by Building Construction Zone II and Zone III (Electrical Section) during the year 1972-73.

Serial No.	Description of the work.	No. of works completed.	Total cost.		No. of works in progress.	Total cost.	
			Rs.	P.		Rs.	P.
	Electrification of and providing electrically driven water pumping sets at :-						
1	Schools ...	Zone II Zone III	4 1	1,13,788.00 64,220.00	6 5	1,10,183.00 1,89,614.00	
2	Ward Offices ...	Zone II Zone III	... ...	... ...	... 1	... 78,260.00	
3	Hospital Dispensary Maternity House and staff Quarters	Zone II Zone III	1 1	12,206.00 17,400.00	1 3	513.00 12,15,169.00	
4	Markets ...	Zone II Zone III	1 1	O'd cable got removed through B. S. E. S. free of cost. 57,632.00	1 ...	Sub-Station site is finalised. ...	
5	Housing ...	Zone II Zone III	... 1	... 38,724.00	... 3	... 3,44,017.00	
6	Gardens ...	...	...	...	...	...
7	Cemeteries ...	Zone II Zone III	1 ...	11,303.00 ...	... ...	... ...
8	Miscellaneous ...	Zone II Zone III	... ...	... ...	1 1	22,313.00 27,030.00	
9	Providing electric lifts	Zone II Zone III	1 1	44,280.00 78,000.00	... 2	... 1,53,000.00	
	Total ...		13	4,17,553.00	24	21,40,099.00	

ESTATE & LAND MANAGEMENT DEPARTMENT

SUMMARY OF THE ANNUAL ADMINISTRATION REPORT FOR THE YEAR 1972-73

This is the Report for the year 1972-73.

Following is the factual and statistical information about working of the deptt. during the year.

(1) Money spent by the Corporation

Budget 'B' }
(Revenue) } Rs.3, 93,09, 661

(2) Results achieved—

(a) Recoveries of Rent from tenants and lessee Rs. 1,49,91,205.

(b) Other Recovery Rs. 3,00,000.

(3) Suggestion for remedying any deficiencies—

Amendment to Section 105-B in Municipal Act has been proposed so as to avoid procedural delay on account of legal procedure laid down under Section 105-B of the B. M. C. Act, for Recovery of Rent.

(4) Such other special information.

The deptt. is concerned with the management of Municipal properties, recovery of rent, allotment of tenancies and leasing of plots.

S. S. SANJIRI
W. O. (Estates)

ESTATE AGENT AND LAND MANAGEMENT DEPARTMENT

I—CHANGES IN LAYOUT

There were no changes in the Layouts of the Ex-Trust Estates.

II—REVIEW OF THE EX-TRUST AND MUNICIPAL SECTION

A—Ex-trust Section.

There were no changes in Schedules X, Y and Z Lands. The changes effected in the other Ex-trust Estates are shown in Appendix 1.

The undeveloped land at present with the Corporation is approximately 494 acres which covers the land at Dharavi Scheme 56.

B.—Municipal Section.

2 plots in Municipal Scheme have been disposed of in the year 1972-73 as shown in Appendix 2.

The statement below indicates the progress of the disposal of the Municipal land during the previous years.

Year.	No. of plots.	Area in Sq. metres.	Capital value. Rs.
1969-70	2	2,244.46	3,91,354.00
1970-71	1	222.96	...
1971-72	4	7,071.90	10,74,595.00

III—SLUM CLEARANCE

No new tenements were completed during the year under report:—

IV.—INDUSTRIAL ESTATES

The construction of Industrial Estates has been taken by the Corporation for rehabilitation of the industrial Units required to be shifted from the lands required for Municipal purposes.

No new gala for Industrial Estates were completed during the year under report.

V.—NEW HOUSING SCHEMES.

The following new tenements were completed during the year under report:—

- 40 Tenements at Sion Village
- Housing of Squatters. The number of squatters families authorised for residing at Mankhurd and ogeshwari Colonies were 2,315 and 1,959 respectively.

The recoveries of rent in both the colonies were Rs. 2,27,244 and Rs. 1,71,410 during the year against the demand including the arrears of Rs. 14,85,484 and Rs. 6,29,345 respectively.

- The recoveries of rents of the dormitory at Palton Road amounted to Rs. 48,524 during the year

VI.—Disposal of Lands.

(1) Long Leases.

Four Plots were let out during the year. The total area of the land thus disposed of admeasured 1,261.40 sq. Metres valued at Rs. 1,12,670.50. The total No. of plots disposed of upto the end of 1972-73 was 4351 with an area of 52,94,244.19 sq. Metres and valued at Rs. 13,94,60,193.50 yielding an annual ground rent of Rs. 57,05,658.00. In respect of plot for which premium or commutation amount had not been received, the rate at which the ground rent was commuted was 22½ years purchase of plots let before 23rd November 1920 and 18 years' purchase thereafter upto May 1948. The ground rent for the plot was charged at 5% per annum (instead of 6% per annum charged since 1920) on the value of land and the amount of commutation was fixed at 21 times the annual ground rent (*vide* Corporation Resolution No. 157 dated 6th May 1948).

Where the period of commutation expired, the lessees were allowed to commute at the rate of 21 times the annual ground rent reserved (*vide* Corporation Resolution No. 1031 dated 11th February 1948), but now commutation is being discouraged. The rate of ground rent is charged at 7% (*vide* Corporation Resolution No. 557 dated 20th September 1962) from the 1st July 1962, and commutation is stopped.

The progress in the disposal of Trust lands on permanent basis the year is shown in Appendix No. 3.

The details of leasehold plots disposed of are shown in Appendix 3A/A Statement of permissions granted in respect of leased plots for the year is shown in Appendix No. 4.

The amount received by way of commutation of ground rent and premium etc., during the year was Rs. 1,00,762

A comparative statement showing the number of permanent leasehold plots with the demand and collection as on 31st March of the past four years is shown in Appendix 5.

The amount received by way of commutation of ground rent and premium during the year 1969-70 to 1972-73 are shown in Appendix No. 6.

As can be seen in the appendix No. 5 *vide* item No. 89 percentage of 13.13 arrears could be attributed mostly to the usual tendency on the part of the prospective lessees to withhold payment of ground rent to the extent to cash security deposited by them with a view to getting the same adjusted towards the ground rent. The main items of arrears which constitute a part berack of Rs. 21,31,123 pertaining to 'B' Budget shown in Appendix No. 7 and of Rs. 39,966 pertaining to 'A' Budget shown in Appendix No. 8 can be classified as under:—

	Rs.
(1) Ground rents withheld by lessees to the extent of their security deposits. ...	1,45,228
(2) Ground rents in respect of plots occupied by Government of Maharashtra and Defence Department ...	1,01,314
(3) Ground rent in respect of properties vested in the Deputy Custodian of Evacuee Property. ...	563
(4) Ground rent in respect of Plots against which disputes have been raised and their cases are under consideration ...	4,82,202
(5) Ground rent due from Western and Central Railways. ...	12,308
(6) Ground rent due from Municipal Departments ...	38,932
Total Rs. ...	7,80,547

(2) Short Leases.

No temporary leases were granted during the year under report.

The number of vacant land tenancies both ex-Trust and Municipal Estates excluding those given in Mankhurd and Jogeshwari Colony were 5245 and 945 respectively at the close of the year. The demand for vacant land tenancies in ex-Trust Estates and Municipal lands for the year under report was Rs. 7,55,217 and Rs. 6,52,435 and the recovery was Rs. 8,29,477 and Rs. 7,14,410 irrespectively inclusive of arrears.

VII—MANAGEMENT OF PROPERTY AND COLLECTION OF REVENUE

A.—Trust Section.

(a) *Chawls permanent*—The gross demand of tenements in the Chawls for the year was Rs. 34,45,437 on 31st March 1973 as against Rs. 32,29,833

The concessional rent includes the rents of rooms let out to the peons of the different departments in lieu of house rent allowance and rent free quarters allowed to 193 sweepers of this department.

The collection on account of rents from the permanent chawls during the year amount to Rs. 32,20,458 deducting there from the charges on account of outgoing amounting to Rs. 54,40,755 net less comes to Rs. 22,20,457

A statement showing yearwise receipt and expenditure pertaining to 'B' Budget properties is shown in Appendix No. 9

The capital expenditure incurred on the chawls including the value of the land is Rs. 246 lakhs. The Corporation have to pay interest and sinking fund charges at the rate of 4.61 per cent. per annum on the capital expenditure prior to 1919-20 and 6.35 per cent per annum on the capital expenditure incurred in subsequent years and 4.24 per cent in respect of those constructed after 1950. This amounts to 12.96 lacs per annum (*vide* Appendix 10). After adding the amount of net less into the amount of interest and sinking fund charges as shown in Appendix No. 10 the A/c for the chawl show a loss about Rs. 27,95,563 (as shown in the said Appendix column No. 11).

(b) *Semi permanent sheds*—The gross demand in respect of 7,437 rooms in the Semi Permanent Sheds including Labour Camps for the year was Rs. 19,50,015. The net demand after excluding the concessional rent and vacancies was Rs. 8,30,230. The revenue actually collected comes to Rs. 22,34,912 which was equivalent to 75.43 per cent. of the total recoverable rent including arrears of Rs. 29,62,709 for the previous year.

Pursuant to the Standing Committee Resolution No. 80, dated the 15th April 1946, 193 scavengers out of 570 belonging to the Department were allowed rent free occupation and the remaining members were in receipt of house rent allowance.

The percentage of outgoing in respect of the Chawls and semi-permanent sheds are shown in Appendix 11 on the basis of annual rental of Rs. 33,67,325 for chawls and Rs. 22,80,088 for semi-permanent sheds total outgoing being 169.07 per cent. and 145.71 per cent. respectively.

Amounts transferred to Rent Equalisation Fund and Amenity Fund was Rs. 1,78,178 and Rs. 59,391 respectively. The difference between the standard rents worked out on 5 per cent. of the cost of land and 10 per cent. on the cost of construction of post-war residential tenements and the subsidised rents actually charged are to be met from the Rent Equalisation Fund.

Revenue collected from tenements constructed for slum clearance was Rs. 24,81,528 (Appendix 7A) against the demand of Rs. 33,81,695 inclusive of arrears. The tenements constructed under slum clearance (City and Suburbs) are shown in Appendix No. 12.

Acquired properties—At the commencement of the year there were 437 acquired or surrendered buildings in charge of this department containing 6375 tenancies. At the close of the year, corresponding figures were 439 Buildings, and 6634 tenements.

The gross demand of 6634 tenements in the acquired and re-entered buildings was Rs. 16,89,127. After excluding the amount for concession in rent and vacancies the net demand for the year was Rs. 16,76,316.

The revenue actually collected amounted to Rs. 13,82,835 which was equal to 69.39 per cent of the total recoverable amount including arrears of Rs. 19,92,712 for the previous year.

Summary of revenue.—The total collection of revenue from leasehold plots and rent and ground rent from Building and Vacant land tenancies and slum clearance properties are shown in Appendix No. 7 and Appendix No. 7A.

Requisitioned Buildings—The management and collection of rent in respect of 17 properties having 414 tenancies requisitioned from private landlords for A. R. P. purposes were continued to be looked after by this department. The demand inclusive of arrears in respect of these tenancies for the year was Rs. 1,39,465 and the recovery was Rs. 75,512 which was equal of 54.14 per cent. of the total recoverable amount.

During the year under review, the demand and recovery of taxes aggregated to Rs. 48,906 and Rs. 60,774 respectively. The arrears due for collection at the close of the year stand at Rs. 3,74,120.

B—MUNICIPAL SECTION.

Details of the total collection of revenue in respect of Municipal properties under Budget 'A' are shown in Appendix No. 8.

Tenements constructed under Budget 'A' for Municipal General Staff are shown in Appendix No. 13.

S. S. SANJGIRI,
W. O. (Estates).

APPENDIX No. 1

Statement showing the total areas of developed lands in the Ex-Trust Estates.

Change in	As at the	As at the
	beginning of 1972-73	end of 1972-73
...	Square metres in thousands	square metres in thousands
DEVELOPED LAND		
Area permanently leased	5063.24	6324.64
Area of Trust Chawls Sites	158.86	158.86
Area Sold	7.53	7.53
Area reserved for a Municipal Markets	0.97	0.97
...	5230.60	6492.00
Rent of permanently leased area (in rupees in thousands)	5094.91	7184.94

APPENDIX No. 2

Number of plots disposed of in different Municipal lands in the City during 1972-73.

Land.	C. S. No.	Area in Sq. Mtr.	Capital value. Rs.	Annual ground rent, Rs.	Value paid if any, Rs.
(1) Final Plot No. 390 of T. P. Scheme Mahim	...	183.97	33,970.50	2,377.94	...
(2) Land bearing final Plot No. 145 of T. P. S. III, Mahim	...	79.43	19,000.00	1,330.00	...
Total	...	268.40	52,970.50	3,707.94	...

APPENDIX No. 3

Statement showing the disposal of Ex-trust Plots during 1972-73 :—

Particulars.	No. of plots.	Area in Sq. meters.	Capital value	Annual rent
			Rs.	Rs.
Plots leased on Rental basis	3	9,300	59,700.00	3,477.00
Plots disposed of in 1971-72 or earlier but surrendered to the Municipality	...	...	...	...
Corresponding figures for disposal of plots				
1971-72	3	56,463.02	40,73,711.00	3,40,600.00
19 0-71	1	705.13	31,625.00	2,214.00
1969- 0	...	...	...	...

APPENDIX No. 3A

Number of plots disposed of in the different Ex-trust Estates during 1972-73 :—

Estates.	Plot No.	Area in sq. mts.	Capital value.	Ground rent per annum	Premium received if any.	Remarks.
			Rs.	Rs.		
(1) Ist Nagpada	12-A	343.00	24,600	1,722	...	...
(2) Plot No. B and adjoining passage to the Janata Kendra at S.P. Sheds Mahalaxmi	'B'	650.00	3,5100	1,755	...	...
Total	...	993.00	59,700	3,477	...	...

APPENDIX No. 4

Statement of permissions granted in respect of leased plots for 1972-73:—

Description.	No. of proposals.	Premium	Ground rent.
		Rs.	Rs.
Motor Garages	37	...	3,232.00
Additional floors	45	10,552.00	10,609.00
Change of users and Miscellaneous proposals such as encroachments, Basement floors, Canopies, temporary structures, Gallery Projections, Réwas Projections, Otis Projections, Lifts and Mezzanine floors etc...	126	16,833.75	15,972.00
Fines	...	8,302.00	...
Transfer fees	...	8,400.00	...

APPENDIX No. 5

Comparative statement of demand, collection, etc., in respect of permanently leased plots:—

Particulars.	1970	1971	1972	1973
(1) Number of Tenancies	3,721	3,739	3,745	3,752
(2) Opening balance of arrears in lacs of rupees	26.03	20.13	19.77	21.73
(3) Demand for the year in Lacs of rupees	43.35	44.37	45.96	46.72
(4) Total demand including arrears in lacs of rupees	69.38	64.50	65.74	68.45
(5) Amount collected in lacs of rupees	46.12	47.74	48.22	51.24
(6) Percentage of collection to the demand including arrears	66.48	74.02	73.34	74.86
(7) Percentage of collection to the demand for the year	106.40	107.60	104.90	109.69
(8) Percentage of arrears to amount for collection	33.52	30.65	33.65	31.13

APPENDIX No. 6 Capital Account. Figures in Lakhs.

Particulars	1969-70		1970-71		1971-72		1972-73	
	In the year	To end of the year	In the year	To end of the year	In the year	To end of the year	In the year	To end of the year
RECEIPTS								
Loan	...	2,378.56	...	2,378.56	...	2,378.56	...	2,378.56
Discount or Premium	...	-15.50	...	-15.01	...	-15.01	...	-15.01
Sale Proceeds	3.00	810.49	21.66	832.35	3.16	835.51	6.38	841.89
Appropriation from General Account	18.87	-185.74	44.56	-141.18	45.10	-96.08	143.34	47.26
Special contribution from Government	...	159.00	...	159.00	...	159.00	...	159.00
Release of Debentures lodged with Govt.	...	42.60	...	42.60	...	42.60	...	42.60
Extraordinary receipts	...	25.10	...	25.10	...	25.10	...	25.10
Miscellaneous	...	...	...	...	...	...	...	...
Total	21.87	3115.60	66.42	3181.42	48.26	3219.68	149.72	3379.40
EXPENDITURE								
I.—On Govt. and Municipal Property—								
Schedule 'W'	...	13.50	...	13.50	...	13.50	...	13.50
Do. 'X'	...	16.20	...	16.20	...	16.20	...	16.20
Do. 'Y'	...	4.70	...	4.70	...	4.70	...	4.70
Police Accommodation Schemes	...	91.60	...	91.60	...	91.60	...	91.60
Total	...	126.00	...	126.00	...	126.00	...	126.00
II.—On the Trust own acquired lands—								
Cost of Management and Estab.	4.33	333.93	1.04	331.97	2.08	337.05	3.33	340.78
Acquisition of land	1.9	1,054.66	...	1,054.65	-2.86	1,057.52	.11	1,057.63
Chawls	21.92	574.85	10.60	585.63	12.99	588.62	28.48	627.10
Roads	5.65	705.80	4.53	711.33	6.51	717.84	8.79	725.63
Other works	...	91.07	0.78	91.85	4.49	96.34	8.20	104.57
Mill companies chawls	...	7.50	...	7.70	...	7.70	...	7.70
Total	33.86	2,768.99	17.15	2,781.14	28.93	2,815.0	48.91	2,853.58
III.—Miscellaneous—								
Office Buildings	...	4.50	...	4.50	...	4.50	...	4.50
Other items	...	12.30	...	12.30	...	12.30	...	12.30
Total	...	16.80	...	16.80	...	16.80	...	16.80
IV.—Disposal of Profits								
V.—Debentures lodged with Govt.								
VI.—Repayment of Loan								
Total	97.42	780.58	89.10	819.68	12.6	882.14	38.40	921.04
Total Expenditure	131.28	3,692.37	106.25	3,798.62	41.89	3,840.51	87.11	3,927.82
Balance	109.41	-77.37	-30.83	-617.20	6.37	-61.081	67.41	548.42

APPENDIX No. 7.

Summary of Revenue of 'B' Budget properties for 1972-73 :-

Particulars.	Collection of Revenue.		
	Permanent	Temporary	Total
Demand for the year	... 46,72,476	78,55,439	1,25,27,965
Arrears	... 21,72,945	71,86,874	93,59,819
Total	... 68,45,421	1,50,42,333	2,18,87,784
Amount collected	... 51,24,406	82,19,552	1,33,44,058
Variation in demand for the previous year carried out during the year	+4,31,615 -21,417	+3,53,576 -17,92,784	+8,25,191 -18,14,201
Amount written off under S. C. R. No. 2039 of 22-10-71	... ..	307	307
Arrears as on 1st April 1973	... 21,31,123	54,23,286	75,54,409
Arrears as on 1st April 1972	... 21,72,945	71,86,874	93,59,818
Arrears as on 1st April 1971	... 19,77,946	69,30,244	89,08,190

Note.—Figures in appendix No. 7 are subject to reconciliation.

APPENDIX No. 7A

Summary of revenue of 'B' Budget properties under Slum Clearance for 1972-73 :-

Particulars.	Collection of Revenue		
	City	Suburbs	Total
Demand for the year	... 17,45,227	6,78,962	24,24,189
Arrears	... 6,63,142	2,95,362	9,58,504
Total	... 24,08,369	9,74,324	33,82,693
Amount collected	... 18,86,131	5,95,397	24,81,528
Variation in demand for the previous year carried out during the year	+48,229 -18,766	+21,012 -1,445	+69,241 -20,211
Amount written off	... ..	...	...
Arrears as on 1st April 1973	... 5,51,721	3,98,494	9,50,215
Arrears as on 1st April 1972	... 6,63,142	2,95,362	9,58,504
Arrears as on 1st April 1971	... 5,66,276	7,56,260	13,22,536

Note.—Figures in Appendix No. 7A are subject to reconciliation.

APPENDIX No. 8

Summary of Revenue of 'A' Budget Properties for 1972-73 :-

Particulars.	Collection of Revenue.		
	Permanent	Temporary	Total.
Demand for the year	... 2,48,008	34,38,067	36,86,135
Arrears	... 1,04,141	17,39,887	18,44,035
Total	... 3,52,216	51,77,954	55,30,170
Amount collected	... 3,18,127	3,11,075	39,29,202
Variation in demand for the previous year carried out during the year	+15,632 -9,755	+1,80,944 -5,80,013	+5,96,576 -5,95,778
Arrears as on 1st April 1973	... 39,906	15,61,810	16,01,776
Arrears as on 1st April 1972	... 1,04,148	17,39,887	18,44,035
Arrears as on 1st April 1971	... 1,07,417	18,87,964	19,95,381

Note.—Figures in appendix No. 8 are subject to reconciliation.

APPENDIX No. 9

Analysis of General Account

(Figures in columns 2 to 12 shown in lakhs)

Year.	REVENUE						EXPENDITURE					Balance appropriated Capital account.	REMARKS.
	Rents.	Municipal contribution.	Share of tobacco duty.	Interest on investment.	Miscellaneous.	Total.	Maintenance.	Municipal rates and taxes.	Interest and sinking fund.	Miscellaneous.	Total.		
(1)	(2)	(3)	(3A)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1898-1899	1.9	...	...	...	...	1.9	1.1	...	...	...	1.1	1.8	
1899-1900	0.7	...	...	0.8	...	1.5	0.2	0.2	...	0.4	1.1	1.1	Rent received in 1898-99 was mainly rent under Schedule 'Z'.
1900-1901	0.9	4.8	...	1.6	...	7.3	0.3	0.2	...	2.7	4.6	4.6	
1901-1902	1.2	4.8	...	1.5	...	7.5	0.4	0.2	2.2	3.1	4.4	4.4	
1902-1903	1.4	5.0	...	3.1	...	9.9	0.4	0.2	2.5	4.7	5.2	5.2	
1903-1904	2.6	3.5	...	2.3	...	8.4	0.4	0.4	4.1	6.6	1.8	1.8	
1904-1905	5.8	2.0	...	2.7	...	10.5	0.7	0.9	5.7	9.8	0.7	0.7	
1905-1906	9.7	2.5	...	1.9	...	14.1	1.4	1.3	8.1	12.9	1.2	1.2	
1906-1907	8.5	3.0	...	2.1	0.1	13.7	1.9	1.1	10.1	11.2	-0.6	-0.6	
1907-1908	8.1	3.6	...	2.4	0.1	14.2	2.2	1.0	11.2	12.1	-1.2	-1.2	
1908-1909	9.4	4.5	...	1.2	0.1	15.2	2.5	0.8	12.1	13.0	-1.2	-1.2	
1909-1910	11.4	7.8	...	1.5	0.2	20.9	3.3	1.0	16.0	16.0	0.5	0.5	*Includes interest paid to Government and the Municipality under Section 68 (I) of the old Act as shown below :-
1910-1911	14.4	8.9	...	1.5	0.1	24.9	3.1	1.0	19.1	20.4	1.6	1.6	
1911-1912	16.6	8.6	...	2.2	0.1	27.5	3.0	1.3	20.2	23.3	2.9	2.9	
1912-1913	18.0	9.2	...	2.0	...	29.2	2.7	1.0	20.5	24.3	4.9	4.9	
1913-1914	20.9	9.3	...	2.0	...	32.7	2.4	1.2	21.4	25.3	16.09	16.09	
1914-1915	23.0	9.8	...	1.5	0.1	34.4	2.7	1.5	22.4	26.9	7.5	7.5	
1915-1916	24.3	10.2	...	1.5	...	36.5	2.9	1.6	23.6	28.6	7.9	7.9	
1916-1917	27.2	11.0	...	2.5	0.1	40.8	3.1	1.7	25.8	30.8	10.0	10.0	
1917-1918	29.8	11.0	...	2.9	0.1	43.8	3.6	1.7	25.6	31.1	12.7	12.7	
1918-1919	33.2	11.5	...	2.0	0.1	46.8	3.6	2.0	25.2	31.0	15.8	15.8	
1919-1920	35.7	15.2	...	1.7	0.2	52.8	3.7	2.2	24.1	30.6	22.2	22.2	
1920-1921	37.5	15.7	...	5.4	0.5	59.1	4.0	2.4	29.4	36.8	22.3	22.3	
1921-1922	43.4	15.8	...	3.4	0.1	65.0	6.4	2.9	32.6	42.5	2.5	2.5	
1922-1923	45.0	17.9	...	4.9	0.1	67.9	7.9	3.5	64.1	75.0	-7.1	-7.1	
1923-1924	44.2	19.1	...	7.6	0.2	71.1	9.6	3.2	74.2	87.6	-16.5	-16.5	
1924-1925	50.5	20.2	...	6.4	0.4	77.5	9.0	4.4	80.6	94.6	-17.1	-17.1	
1925-1926	48.7	22.3	...	6.8	0.2	78.0	8.6	3.4	93.7	105.9	-27.9	-27.9	
1926-1927	49.5	22.4	...	7.2	3.2	82.3	9.6	3.6	90.5	103.4	-21.1	-21.1	
1927-1928	48.5	23.1	...	6.3	2.3	80.2	11.3	3.8	90.2	105.3	-25.1	-25.1	
1928-1929	47.6	23.0	...	3.8	1.0	75.4	10.6	2.7	90.4	103.7	-28.3	-28.3	
1929-1930	51.0	22.9	...	2.7	0.1	76.7	10.2	2.9	89.3	103.7	-24.3	-24.3	
1930-1931	50.2	23.1	...	2.7	0.2	76.2	10.2	3.4	92.1	105.7	-29.5	-29.5	

*Includes interest paid to Government and the Municipality under Section 68 (I) of the old Act as shown below :-

Year:	Government.	Municipality.	Total.
	Rs.	Rs.	Rs.
1909-10	65,350	41,241	1,06,591
1910-11	46,440	37,841	84,281
1911-12	61,858	37,276	99,134
1912-13	68,194	37,431	1,05,625
1913-14	54,644	27,668	82,312
Total	2,96,486	1,81,457	4,77,943

*Includes an amount of Rs. 1.23 lakhs still to be adjusted.

1931-1932	49.3	23.5	...	1.4	0.1	74.3	10.5	3.3	4.3	...	18.1	+58.2
1932-1933	49.3	23.5	7.4	1.1	0.1	81.4	11.8	3.0	96.5	...	111.3	-29.5
1933-1934	49.2	32.9	11.4	3.9	...	97.4	7.5	4.4	98.2	...	110.1	-12.7
1934-1935	50.9	33.4	10.9	3.3	...	98.5	9.6	4.2	98.6	...	112.4	-13.9
1935-1936	50.3	33.4	9.8	2.8	0.1	96.4	9.5	3.8	102.3	20.8	136.4	-40.0
1936-1937	51.2	32.2	11.8	4.9	0.2	100.3	10.3	3.6	85.2	...	99.1	+1.2
1937-1938	50.6	34.4	12.4	4.6	0.6	102.6	10.5	3.3	83.1	...	96.9	+5.7
1938-1939	52.0	34.3	10.4	4.2	0.4	101.3	15.0	3.2	80.9	...	99.1	+2.2
1939-1940	53.5	37.1	9.9	3.4	0.4	104.3	16.1	3.4	80.2	...	99.7	+4.6
1940-1941	52.5	35.7	5.4	3.9	0.6	98.1	18.1	3.6	80.3	...	102.0	-3.9
1941-1942	52.3	36.9	10.0	4.0	0.3	103.5	14.3	3.4	80.0	...	97.7	+5.8
1942-1943	54.2	24.7	4.1	4.0	0.3	87.3	14.4	3.2	79.6	6.3	103.5	-16.2
1943-1944	54.7	26.3	10.0	4.0	0.4	95.4	15.2	3.2	79.5	...	97.9	-2.5
1944-1945	60.0	27.3	10.0	4.4	0.3	102.0	17.3	4.1	78.1	...	99.5	+2.5
1945-1946	60.3	28.4	7.5	4.3	0.5	101.0	20.0	4.4	77.6	...	102.0	-1.0
1946-1947	60.1	30.0	8.6	4.7	0.3	103.7	23.1	4.6	76.6	...	104.3	-0.6
1947-1948	67.9	30.0	9.2	5.5	0.3	112.9	24.2	4.4	77.1	...	105.7	+7.2
1948-1949	59.0	31.7	2.0	5.4	0.6	98.7	31.0	4.7	77.0	...	112.7	-14.0
1949-1950	60.7	32.9	10.0	5.9	0.7	110.2	29.8	4.7	76.3	...	110.8	-6
1950-1951	59.4	34.6	10.0	5.8	0.5	110.3	32.1	4.9	77.4	...	114.4	-4.1
1951-1952	60.8	36.3	10.0	5.8	0.6	113.5	28.5	5.9	76.5	...	110.9	+2.6
1952-1953	63.58	35.84	7.42	5.32	0.73	112.89	33.8	9.1	75.89	...	118.79	-5.9
1953-1954	68.13	36.99	10.0	5.25	0.66	121.03	37.49	7.5	76.15	...	121.14	-1.1
1954-1955	71.83	39.62	10.0	5.07	0.83	127.35	40.42	7.37	75.95	...	123.74	+3.61
1955-1956	68.61	39.89	6.38	3.78	0.64	119.30	45.86	2.45	75.62	...	123.93	-4.69
1956-1957	68.68	43.75	5.00	4.10	0.93	122.46	44.46	7.38	75.19	...	127.03	-4.57
1957-1958	67.24	44.53	14.56	4.39	0.26	130.98	40.14	7.71	76.12	...	123.97	+7.01
1958-1959	67.22	46.04	7.56	2.86	0.38	124.06	41.58	6.65	75.92	...	124.15	-0.9
1959-1960	69.78	47.44	7.64	1.95	0.70	127.51	41.31	7.85	75.82	...	124.98	+2.53
1960-1961	78.19	47.27	5.11	1.39	0.55	132.51	47.97	7.75	76.81	...	132.53	-0.02
1961-1962	78.45	54.67	5.13	3.21	0.68	142.14	45.62	7.86	81.36	...	134.84	+7.30
1962-1963	80.13	54.84	...	2.25	0.69	137.91	44.02	9.02	81.69	...	136.73	+1.18
1963-1964	84.20	56.36	...	3.76	0.59	144.91	57.04	8.47	87.98	...	143.49	-8.58
1964-1965	85.55	54.85	10.00	3.96	1.93	156.29	58.68	12.11	89.39	...	160.18	-3.89
1965-1966	104.96	80.14	...	1.86	1.03	187.99	79.53	14.26	87.85	...	181.64	+6.35
1966-1967	106.48	84.86	10.00	3.38	0.54	205.26	87.75	16.10	94.91	...	198.76	+6.50
1967-1968	100.31	95.95	3.47	0.11	0.63	200.27	98.74	21.04	101.14	...	220.92	-20.65
1968-1969	106.13	101.08	9.60	(o.n.) 0.05	1.02	217.18	71.09	14.03	101.71	...	194.83	+2.05
1969-1970	122.79	121.78	0.39	3.95	3.63	251.94	10.82	17.13	10.12	...	233.07	+18.87
1970-1971	124.37	183.17	...	1.63	7.24	316.41	149.26	20.36	102.25	...	271.87	+44.54
1971-1972	132.07	202.00	...	6.42	4.28	342.99	164.30	35.12	98.47	...	277.89	+45.10
1972-1973	14.21	219.20	...	7.63	16.39	536.3	256.47	38.26	93.35	...	393.68	+143.35
Total to the end of 1972-1973	3877.43	2719.47	293.66	259.52	205.53	7355.01	2115.15	419.52	4592.19	32.40	7159.26	-195.75

Particulars of Municipal (Improvements) Chawls Cost, Net Annual Returns

Serial No.	Name of the Chawl.	Year in which the site of chawls is appropriated or construction of chawls	Total area of chawls sq. Metres	Rate per sq. yd. as in the year given in column 3.	Value of the site (Cols. 4 & 5)	Constructional cost of the Chawls including 3 per cent. of management and establishment	Cost of work value of the land management and establishment charges columns 6 and 7	Interest and Sinking Fund charges on Capital outlay at 4 1/2 per cent. on column 8 up to 1919 and thereafter at 6 3/4 per cent.	Gross annual rent
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	1-4 Agripada A Chawls	1900	Sq. Metro 6091.21	Rs. 8	Rs. 50,995	Rs. 1,85,505	Rs. 2,36,500	Rs. 10,903	Rs. 40,293
2	5-16 Agripada B Chawls	1903	9970.85	6	71,550	5,41,639	6,13,189	28,269	53,383
3	31-32 } Agripada C Chawl	1903	5226.65	6	37,506	2,79,182	3,16,688	14,599	1,03,323
4	45-46 } Agripada C Chawl	1903	5226.65	6	37,506	2,79,182	3,16,688	14,599	1,03,323
4	19-24 Chandanwadi Chawl	1904	8080.36	15	1,44,960	3,76,915	5,21,875	24,059	97,385
5	25-27 } Inamwada A Chawls	1905	11239.26	13.8	1,81,467	4,98,562	6,80,029	31,349	1,06,855
6	29, 30 & 31 } Inamwada A Chawls	1905	11239.26	13.8	1,81,467	4,98,562	6,80,029	31,349	1,06,855
6	50 Inamwada B Chawl	1905	793.49	13.8	12,811	19,368	32,179	1,483	94,755
7	33-37 Mandvi-Kaliwada Chawls	1908	3485.83	75	3,12,675	2,76,040	5,88,715	27,140	94,755
8	52 Workmen's Cottages Matunga	1905	789.31	5	4,720	12,083	16,803	774	1,845
9	17-18 Nagpada A Chawls	1903	2148.02	7	17,983	82,358	1,00,341	4,676	17,367
10	39 Nagpada A Chawl	1904	1755.04	7	14,693	9,776	1,14,469	5,277	18,783
11	28 Princess Street Chawls	1907	1237.47	30	44,400	42,417	86,812	4,002	9,523
12	42-44 } Superibaug Chawls	1910	6756.77	4.8	36,364	3,39,878	3,76,242	17,345	55,716
13	47-49 } Superibaug Chawls	1910	6756.77	4.8	36,364	3,39,878	3,76,242	17,345	55,716
14	52-57 Chinch Bandar Chawls	1913	7103.76	26 66(d)	2,26,560(a)	3,79,622	6,06,182	27,945	87,496
14	86-95 Cottage Blocks (old)	1920	2324.44	10	27,800	36,069	63,869	4,056	4,735
15	58-61 Clark Road Chawls	1921	3495.86	15	62,715	4,39,814	5,02,529	31,911	47,877
16	62 Pais Street Chawls	1921	2858.73	15	51,285	1,70,863	2,22,148	14,106	21,018
17	63-66 Mominpura Chawl (Old)	1921	6488.37	15	1,16,409	4,31,655	5,48,055	34,801	42,846
18	67-72 Three room tenements Scheme 5	1922	4689.85	6	33,654	2,64,717	2,98,371	18,946	29,903
19	73-78 Two room tenements, Scheme 6	1922	3540.17	6	25,404	2,91,972	3,17,376	20,153	25,509
22	79-83 Cottage Blocks (new)	1922	6528.50	6	46,848	69,312	1,16,160	7,376	4,170
21	Bl. bks 1-19 Ballas Road Chawls	1922	29853.19	19	6,78,376	25,75,065	32,53,441	2,06,594	2,46,946
22	1-16 Manganon Chawls	1922	24315.50	10	2,90,810	21,77,079	24,67,839	1,56,711	1,75,733
23	1 Mominpura Chawls (N.W.)	1923	3270.10	20	78,220	3,14,276	3,92,496	24,923	36,274
24	1-23 Love Lane Chawls	1925	11176.50	18.8	2,47,269	11,36,407	13,83,696	87,865	1,36,421
26	1-19 Sydeham Road Chawls	1925	10698.28	16	2,84,720	7,78,071	9,82,791	68,407	86,704
26	1-2 Palton Road Chawls	1940	2721.60	28	81,375	2,32,508	3,19,898	19,981	78,960
27	3 Palton Road Chawls	1922	9551.86	50	98,777	3,48,544	4,41,321	28,024	78,960
28	A-1 S. Vri Chawls	1956	5554.41	25	1,66,075	5,06,514	6,73,589	28,129	61,384
29	Narayan Chawls	1957	3362.08	40	169,840	5,69,481	7,20,321	29,110	37,777
30	Shan Chawl	1958	927.27	40	44,960	1,40,842	1,85,202	7,957	14,468
31	Wadhwa Chawls 112 Tenements	1959	2897.19	40	1,38,640	6,27,269	7,65,899	38,474	61,556
32	Wadhwa Chawls 272 ..	1960	10050.68	40	4,81,680	15,55,841	20,37,621	86,391	1,40,462
33	Wadhwa Chawls 144 ..	1961	6765.13	5	4,04,590	8,92,806	12,98,566	55,008	74,375
34	Wadhwa Chawls 160 ..	1961	6212.45	50	3,71,300	10,13,999	13,85,499	58,745	77,100
35	Wadhwa Chawls 264 ..	1961	7836.21	50	4,68,600	14,87,658	19,56,268	83,965	93,976
36	69 T. Narbag								19,280
37	Tenements at 144 S. G. Marg								58,472
38	Jamline Mills Rajeshri Shahu Nipar ..								9,17,420
39	10 Steps 40 R. Sion Koliwada								36,130
40	Deonar New colony								2,17,713
41	36 D. Worli								21,708
	Total		2,06,288		98,30,002	1,91,81,087	2,46,16,689	12,36,415	34,46,457

(a) Rs. 8-0-0 for 8 larger rooms (double) rooms having partition inside
 (b) Represents loans
 (c) This figure represents the value of Rs. 40 per sq. yd. of the site situated between the 35 road and the Railway and measuring 6,664 sq. yds. here is arrived at by dividing by 8,436 yds.
 A - Includes rooms rent free in 11 Sweepers
 B - Rooms used for Office and Stores.
 C - do temporarily occupied by Schools.
 D - do do do. Shops.
 E - do do do. Gymnasium
 G - do do do. Godowns
 Calculated at 4.24 per cent.

No. 10

Number of tenements, full letting value

Annual profit or loss— i.e. 69.07 per cent. of column 10-9.	Percentage of est. annual return 69.07 of col. (10) of capital cost (col. 8)	Total Number of rooms.	Number of floors including ground floor.	Floor area of tenements including verandah.	Rent per room as on 31-3-1962 inclusive of increase in taxes.	Economic rent Exclusive of increase in taxes.	Number of rooms living purposes.	Number of rooms let for Shops, Godowns, or Municipal purposes
(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
Rs. 38,733	11.77	312	3	Sq. ft. 175	R. 7 49	8 14 0	276	1-B 5-D & 3-E
-65,141	6.81	658	4	110	10 40	7 10 0	926	20-E
-85,964	22.53	288	4	142	6 45	8 1 0	414	18-E
-87,323	12.89	433	4	177	7 75	8 12 0	633	1-F
		674	4	125	8 95	10 6 0	846	2-D, 9-E
		857	4	135	11 93	9-13, 10-1 10-5	30	2-B, 4-C & 5-D
-1,06,637	10.36	30	4	160	8 31	Rs. 9-13 10-1, 10-5	222	...
-92,587	11.12	278	4	176	9 36	17 5 0	...	10-E-26-G
-2,048	7.58	15	1	120	8 9	12 7 0	144	...
-16,671	11.95	144	4	148	11 24	9 10 0	144	...
-18,900	11.33	64	4	160	8 64	9 0 0	64	...
-10,580	7.58	481	4	136	10 34	14 2 0	479	...
-55,828	10.23	405	2	176	8 64	9 4 0	972	1-B, 1-F
-88,378	9.97	14	1	275	10 35	13 6 0	...	33-C
-7,326	5.12	325	4	176	7 76	38 0 0	320	...
-64,980	6.58	134	4	175	9 36	13 12 0	131	4-E
-28,623	6.53	246	4	175	12 82	15 13 0	241	1-F, 3-E
-64,895	5.40	(b) 160	4	562	11 24	13 8 0	...	6-D
-33,384	4.84	72	3	338	40 27	Rs. 55, 60 & 65	...	...
-37,772	5.55	10	3	325	46 84	Rs. 35, 33, 32	...	...
-10,256	2.48	1,549	3	176	22 81	35	1,513	...
-3,77,160	5.24	1,305	...	176	29 47	Rs. 16-5, 8-6, 17-14	1,263	20-C 7-D & 9-E
-2,778,098	4.82	234	...	176	10 66	Rs. 15-6, 15-14	227	36-C, 4-D & 7-E
-49,977	6.38	...	...	176	12 83	13 8 0	792	7-E
-1,82,091	6.81	821	4	176	9 46	Rs. 15-9, 15-1, 16-9, 17-1, 7-9	387	6-D, 2-E & 1-F
-1,22,293	6.89	391	4	176	10 66	Rs. 15-7, 16, 16-8, 32, 33, 35	125	1-B, 1-C, 1-D & 1-E
-1,02,483	7.22	156	4	328	26 74	Rs. 15-7, 16, 16-8	76	24-E
-70,488	6.30	86	4	180	10 38	Rs. 35	194	7-G
-55,308	8.62	194	2	180	11 09	Rs. 35	120	4-E, 6 G
-17,939	5.40	120	4	190	25 03	Rs. 35-10	24	...
-73,991	5.55	24	4	237	27 06	a. 4	24	...
-1,83,385	4.76	112	4	273	28 91	...	...	...
-1,06,879	4.26	292	4	...	24 28	...	...	...
-1,11,908	3.84	144	4	...	21 86	...	...	...
-1,47,854	3.32	224	4	...	29 48	...	...	...
		60	...	...	50 33	...	60	...
		144	...	...	31 50	...	40	10E
		50	...	...	47 00	...	578	3B, 1G
		582	...	...	64 00	...	...	...
		36	...	...	66 50	...	...	...
		1040	...	...	67 80	...	...	...
		50	...	...	07 00	...	...	...
-87,95,968	243.52	13,484	...	...	...	...	...	...

• 5-B, 61-C 35-D, 180-E, 4-F, 72-G

APPENDIX No. 11

Statement of percentages of outgoings in respect of Chawls and S. P. Sheds :-

Particulars:	Permanent Chawls		Permanent ground floor rooms & S. P. Sheds	
	1971-72	1972-73	1971-72	1973-72
Sanitary Staff				
Pumpmen	22.90	21.09	29.98	23.95
Cost of Management and Establishment	7.50	7.50	7.50	7.50
Municipal Rates and Taxes	44.04	47.79	64.37	45.33
Repairs and Maintenance including lighting	55.38	92.69	53.07	68.93
Vacancies	...	...	...	...
Total	129.82	169.07	154.92	145.71

APPENDIX NO. 12

Statement of tenements constructed for Slum Clearance Scheme (City & Suburbs)

Serial No.	Locality.	Year of Construction	No. of structures	Number of Tenements		Subsidised rents Charged	Standard Rent	
				Residential	Shops Godowns		Rs. P.	Rs. P.
Municipal Scheme :-								
1	Falton Road Chawl No. 4	1956	1	83	20	31.27	46.04	165.85
2	Hajen Road Transit Camp.	1957	19	137+9	...	24.59	29.24	29.24
3	Tank Pakhadi Transit Camp	1958	27	254	...	24.59	29.24	29.24
4	Dharavi	1959	5	120	...	27.24	...	...
5	Shopping Block at Haines Road...	1960	1	...	4	...	22.69	63.20
							73.64	92.05
6	do. do. Milk Street...	1962	1	...	17	16.48	...	30.91
7	Shopping Block at Tulsiwadi ... Body-Guard line	1963	1	...	15	...	...	...
8	Shopping Blocks at Water St. ...	1963	1	...	10	...	...	Varying from 35.15 to 43.91
Government Aided Schemes								
1	Haines Road	1959	7	112	...	29.24	...	57.5
2	Haines Road	1959	5	80	...	29.24	...	...
3	Sukhalaji Street	1960	1	76	...	30.34	...	...
4	Sion, Scheme 6	1960	1	40	...	29.25	...	...
5	Body Guard Lines	1960	6	96	...	31.24	52.23	51.22
	Dharavi	1961	5	168	...	29.24	...	...
7	Foras Road	1961	1	42	13	29.24	...	...
8	Rawli Camp	1961	18	288	...	29.25	...	74.84
9	Rane Compound Arthur Road	1961	6	208	...	29.11	...	...
10	Water Street, Byeulla	1961	7	112	...	29.24	...	...
		1962	2	32	...	31.24	...	...
11	Haines Road	1961	2	80	...	29.24	...	...
12	Sion Scheme 6	1962	2	80	...	29.25	...	...
13	Body Guard Lines	1962	8	128	...	32.48	...	...
14	Bapty Road	1963	1	40	...	31.24	...	75.40
15	Haines Road	1963	6	96	...	31.24	...	70.85
16	Rawli Camp	1964	14	224	...	31.24	...	...
					11	67.99	...	135.40
17	Sion Village Blk E	1964	1	24	...	31.24	...	60.66
18	Kamathipura C Bk Bapty Rd.	1964	1	22	...	31.24	...	62.00
19	Do. Bapty Rd. 'A' Block	1964	1	26	11	31.24	...	85.00
							...	78.60
							...	75.30
20	Kamathipura M1 Area stable street	1965	1	41	11	31.24	...	85.7
21	60 t. at Falkland Road 8th X Lane	1966	1	60	...	...	...	87.87
		1966	3	60	...	38.67	...	83.86
22	60 t. at Haines Road	1966	3	60	...	37.67	...	64.53
23	Rawli Camp	1967	6	240	...	39.67	...	68.29
24	Rawli Camp	1969	5	132	8	...	...	...
25	Rawli Camp near Koliwada level crossing Opp. S. S. S. Nagar.	1969	1	32	10	153 for shops— 6.00 rooms	...	...
26	Kamathipura M1 area stable street	1970	1	45	12	51.50	...	...
27	Peru chawl Lalbaug Gas Work Lane	1970	1	30	...	...	...	...
28	60 t Rawli camp	1971	3	60	...	51.50	...	...
29	Rawli camp BKE 3 & A. 7	1972	2	44	...	...	...	75.00
Suburbs								
30	Vikroli	1961	16	396	...	29.24	...	55.56 & 61
31	Do.	1963	12	348	...	31.24	...	52.53 & 54
32	Kherwadi Bandra	1964	17	272	...	31.50	...	58.50
33	Tenements along Eastern Express Highway Chaitkopar	1965	108	1004	...	...	...	...
34	60 t. at Bombay Agra Road Chaitkopar	1966	3	60	...	...	...	...
35	320 t. at Santacruz	1966	20	320	...	31.50	...	58.50

APPENDIX No. 13

Statement of Tenements constructed from Budget 'A' for Municipal General Staff :—

Serial No.	Locality.	Year of construction.	No. of structures	No. of tenements	Subsidised Rent		Standard rent.
					Maximum	Minimum	
					Rs.	Rs.	Rs.
					(Subsidised rent at Rs. 12 per 100 sq. ft.)		
1	Gilder Lane Tenements, Bombay Central.	1958	4	144 (61)* (80)	54.79 38.24 26.09	38.79 27.24 19.59	93.59 65.30 42.31
2	Elphinstone Road	1958	3	72	26.09	19.91	42.41
3	Surya Cinema Tenements Naigaum	1958	2	48	26.09	19.91	42.41
3	Chinchpokli Tenements Arthur Road.	1959	2	32	33.13 31.5 35.04 32.94	26.82	53.73
5	Maratha Hospital Compound, Byculla.	1959	4	64	35.21 37.04	26.70 26.70	53.18
6	Worli, Tenements Dr. Annie Beasant Road.	1961	7	112	33.04 32.44 34.82 34.19	26.82	67.65 67.65 71.30 72.96
7	40 tenements Maratha Hospital Compound.	1965	2	40	33.30 32.86 31.24 35.12	—	73.68 72.72 75.75 77.67
8	Maratha Hospital Compound, Byculla.	1962	2	16 8@	41.68 38.56 68.95	— —	71.94 66.61 115.30
9	88 Tenements near Wadala Railway Station.	1966	3	88 22	—	23.73	137.54 (Shops) 57.62 (Rooms).
Suburbs.							
1	Khar Tenements Hasnabad Lane.	1961	5	60	37.09 40.16	—	67.31 73.38
2	18 Tenements at Khar	1968	—	18	39.33 42.17	—	71.80 90.50
3	Tata Compound Andheri	1970	3	80	—	—	93.00

* Three room tenements. Rest are two rooms tenements.

@ Four room tenements.

As per new formula rent to be charged at 10 percent of total emoluments or Standard rent whichever is less if the allotment is made on and after 19-8-1971. (C. R. No. 547 of 19-8-71)

HYDRAULIC ENGINEER'S DEPARTMENT

SUMMARY

I.—Expenditure :

(1) Expenditure incurred for Establishment	Rs. ...	82,73,622
(2) Expenditure incurred for the works relating to Revenue Budget	Rs. ...	72,86,106
(3) Expenditure incurred for the works relating to Loan Works Budget	Rs. ...	97,72,089

II.—Results achieved :

(A) (1) Total length of pipe lines laid	...	55,773 Mts.
(2) Total No. of water meters	...	68,320 Nos.
(3) Total No. of Stand Pipes	...	4,155 Nos.
(4) Total No. of Short Supply Complaints	...	46,000 Nos.
(5) Total No. of metered connections	...	3,222 Nos.
(6) Total No. of unmetered connections	...	2,446 Nos.
(7) Total No. of Boosting stations	...	31 Nos.
(8) Total No. of Pumping Stations	...	3 Nos.
(9) Total No. of burst occurred	...	32 Nos.
(10) Total No. of plans prepared by A. E. S.	...	239 Nos.
(11) Total No. of estimates prepared by A. E. S.	...	316 Nos.
(12) Total estimated amount	Rs. ...	7,16,67,113
(13) Compounded Charges for water used for construction purposes,		
1,321 Nos.	Rs. ...	12,73,965 City
440 Nos.	Rs. ...	21,03,633 Subs
Total ...1,761 Nos.	Rs. ...	33,77,598
(14) Total No. of zones tried by Leak Detection Branch for Waste prevention	...	41 Nos.
(15) Total length of trunk mains	...	729 Km. (453 miles)
(16) Total No. of Head Works	...	6 Nos.
(17) Name of the new Project Completed	...	Upper Vaitarna
(18) No. of Filtration Plants	...	2 Nos. (Tulsi and Ulhas)
(19) No. of Chlorination Plants	...	7 Nos.
(20) No. of Service Reservoirs in commission	...	10 Nos.
(21) New Reservoirs put into commission	...	3 Nos.
(22) Total Reservoirs constructed so far	...	14 Nos.
(23) Reservoirs in progress	...	5 Nos.
(24) Plants and Machinery maintained at different places	...	74 Nos.

II.—Results achieved : (contd).

(B) (1) Average quantity of water supplied per day to Greater Bombay for all purposes.	...	1,065.89 M.L.
(2) Average quantity of water supplied per day for domestic purposes to Greater Bombay	...	107.26 M.L.
(3) Average quantity of water supplied per day for Industries	...	235.29 M.L.
(4) Total quantity of water brought to Greater Bombay	...	3,89,052.00 M.L.

- (5) Average loss by evaporation per day in 7 dry months from all sources ... 110.87 M.L.
- (6) Total loss of water per day from 5 sources due to evaporation, leakage and absorption ... 270.66 M.L.

(7) Total rainfall:—

Vaitarna	...	1495.00 M.M.
Tansa	...	1677.60 M.M.
Vehar	...	1831.55 M.M.
Tulsi	...	2036.32 M.M.
Powai	...	1911.90 M.M.

(8) Highest levels of lakes reached:—

Vaitarna	...	163.16 Mts.
Tansa	...	127.76 Mts.
Vehar	...	75.31 Mts.
Tulsi	...	137.10 Mts.
Powai	...	59.55 Mts.

III.—Suggestions:—

- (1) Upper Vaitarna Project was completed and its full advantage would be taken to augment the water supply by 120 mgd bringing the total to 340 mgd. in 1973-74 if next monsoon in 1973 happens to be satisfactory.
- (2) Work on 'S' Scheme is started as per suggestion of Messrs. Binnie and Partners Co. Ltd. (India) which would yield 100 mgd. in first stage by 1977 bringing the total to 440 mgd.
- (3) Programme of Leak Detection and Waste Prevention is expanded so as to detect leaks, repair them and prevent wastage of water thereby conserving water as much as possible. Flying Squad is also operated house to house to check and prevent wastage at consumer's tap at his house. New mains and old mains are tested and commissioned when they are water-tight. A number of zones, outlets and inlets to reservoirs are being tested for their water-tightness. Water meters, water pipes and fittings are also tested in Municipal Workshops at Byculla, Ghatkopar Malad and Bandra before they are used. Leaks and bursts are immediately attended to.
- (4) More and more reservoirs are being constructed and put into commission so that water supply in various zones (76 Nos.) formed in Greater Bombay may be given through service reservoirs for equitable and uniform distribution. At present ten reservoirs are functioning, four Nos. are completed and to be commissioned shortly. Five Nos. are in progress.
- (5) About Quality Control of Water Supply, water filtration is done at Ulhas and Tulsi only, and chlorinated at different places. Samples are taken periodically and point chlorination is done if necessary. In future it is proposed to treat Upper Vaitarna, Vaitarna, Tansa and 'S' Scheme water at Bhandup. Vehar water also would be filtered through new treatment plant of 20 mgd. at Vehar Lake.

IV.—Other special information:—

- (a) In-line boosting station was constructed at Malabar Hill Slopes to increase the duty of Malabar Hill Reservoir from 34 mgd to 58 mgd which would be further increased to 72 mgd on availability of water from Upper Vaitarna. It has got 5 pumps of 2250 H. P. (450 H.P. each and 24 mgd capacity total) plus 2 Stand by of half size capacity.
- (b) A 1200 mm. (48") diam. manifold is laid in Babulnath Road connecting all the inlets and outlets to and from Malabar Hill Reservoir which would be useful in case of emergency.
- (c) Due to insufficient rains in lake catchment areas, the water supply was to be cut off in 1972-73 from 265 mgd to 240 mgd which otherwise would have been 340 mgd. due to completions and commissioning of Upper Vaitarna Scheme.
- (d) Number of posts at higher level e.g. Dy. H. E. (C), E. E. (O. & R.), E.E.W.W. (P. & C.)—I were created in 1972-73 in Hydraulic Engineer's Department.

K. D. MULEKAR,
Hydraulic Engineer.

HYDRAULIC ENGINEER'S DEPARTMENT

I.—GENERAL DESCRIPTION OF WATER WORKS SERVING GREATER BOMBAY

Greater Bombay covering an area of 435 Sq. Kilometres (168 Sq. Miles) derives its water supply mainly from artificial lakes impounding the rainwater falling in their catchments during the monsoon each year.

The larger of these, formed by dam, built across the Vaitarna and Tansa Rivers which rise in the Western Ghats and flow in to the Arabian Sea, are located on the main land. The smaller ones the Vihar, Tulsi and Powai Lakes are located within the limits of Greater Bombay itself, on the island of Salsette.

All these sources are at such elevations that water can be conveyed from them by gravity to the various focal points of distribution in the Greater Bombay area. Some marginal quantities are however derived by pumping from the Ulhas River which during the fair season depends entirely on the tail race waters of the privately owned generating station of the Tata Hydro-electric Company at Bivupuri.

II.—BRIEF HISTORICAL REVIEW OF SOURCE DEVELOPMENT

The first source to be developed was the Vihar Lake in 1859, the supply until then having been drawn only from local wells and tanks. The demand for piped water through initially limited, rose rapidly, necessitating the developments of the Tulsi Lake in 1878. The supply potential of the Vihar Lake was 61.36 m.l.d. (13.5 m.g.d.) and that of the Tulsi lake 18.18 m.l.d. (4 m.g.d.). Both these sources were located on the Salsette Island itself.

The next stage of development required water to be conveyed from the main land over much longer distances and across the intervening Thana Creek. The first stage of the Tansa Scheme was completed in 1892, the conveyance of the water having been achieved by constructing a masonry duct running along the contours of the hills at a gradient of 150 mm.(6") per mile with an inverted siphon main of 1200 mm. (43") diam. where ever valleys had to be negotiated. There were also a few tunnels along the alignment. The water was carried out over the creek portion by a bridge. By this arrangement, the supply to Bombay increase by about 77 m.l.d. to 82 m.l.d. (17 to 18 m.g.d.) thus being the carrying capacity of the conveyance system.

The second stage of the Tansa development was undertaken in 1912 and completed in 1915. The work involved was of raising the dam by 2.90 Mts. (9.58 ft.) and laying an additional main of 1250 mm. (50") diameters siphons. This brought the total capacity of Tansa to about 182 m.l.d. (40 m.g.d.)

The Tansa completion work consisting of raising the dam by another 1.62 mt. (5.42 ft.) constructing a new outlet well and laying 2 Nos. 1800 mm. (72") diam. rivetted steel mains by a somewhat different alignment to convey another 327 m.l.d. (72 m.g.d.) to Bombay was undertaken in 1922 and completed in 1927.

The water supply situation was comfortable till the outbreak of the 2nd World War in 1939. After that, shortages developed necessitating the implementation of the Vaitarna-Tansa Scheme in 1948. Just before this, automatic shutters were provided on the spill-way of the Tansa Lake increasing its full supply level by 0.61 Mt. (2 ft.).

The new augmentation scheme consisted of building a dam on the Vaitarna River in the neighbouring catchment of Tansa, a tunnel through the intervening range of hills for conveying water to Tansa and an additional main from Tansa to Bombay. The size of this main was 2,400 mm. (96") diam. It was of welded steel construction and shall design with ring girders and roller supports. It was for the first time such a design was adopted in the country and the main about 76.22 kms. (47.37 M.) was the longest pipe-line of such a larger diam. anywhere in the world. A total combined capacity of the Vaitarna and Tansa complex on completion of the augmentation scheme in 1956 was about 909 m.l.d. (200 m.g.d.)

Before the next stage of the development could be financed, it became necessary as a temporary measure to derive 91 m.l.d. (20 m.g.d.) by pumping from Ulhas River. This work was undertaken in 1966 and completed in 1967.

The next stage of augmentation has already been undertaken under the Upper Vaitarna Scheme which comprises of building dams in the Upper reaches of the Vaitarna Catchment and laying of a 2700 mm. (108") diam. pipe line from the lower end of the tunnel connecting Vaitarna and Tansa to convey additional quantity of about 546 m.l.d. (120 m.g.d.) to Bombay.

The Powai Lake which was developed in 1889 has not been mentioned in the above review, as it was hardly ever used as part of the system owing to the rather inferior quality of its water. During recent years, it is being used for supplying to the stables in the Aarey Colony and for growing paragrass in the surrounding areas.

III.—DETAILED DESCRIPTION OF HEAD WORKS AND CONVEYANCES SYSTEM

(a) **Vaitarna Head Works**—The Vaitarna Head Works consist of a gravity dam spanning a gorge of 555 Mts. (1820 ft.) and having a height of 82 metres (269 ft.) above the bed of the river. It is built of mass concrete which had been pre-cooled to the temperature of about 15.60 centigrade (60°F) at the time of construction, this being the first instance of this type of construction in the country.

The spill way section consists of 8 gates each of 12 metres (40 ft.) width and 8 Mts. (26 ft.) height. Four of these gates are electrically operated and the remaining four work by buoyancy. For emergency repairs to gates prefabricated stop-logs have been prepared and kept ready mounted on the dam and for lowering these into position, a 14 ton capacity Goliath Crane has been installed running along the dam. The dam is also provided with under sluices and has two inspection galleries at different levels. There are arrangements for measuring the deflection of the dam under different condition of loading the reservoir.

Intake arrangements.—The Intake Tower is provided with two gates (one being an emergency gate and these until recently comprised the sole control from this source into the 3000 mm. (10 ft.) diam. horse shoe tunnel emanating from this source. During the year under review two more pairs of penings in the Intake tower at the levels of 152.40 mts. (500 ft.) and 146.30 (480 ft.) were provided. Thus the total number of additional opening in the Intake Tower are now at levels 158.50 metres; 152.40 mts. 146.30 mts. and 140.20 metres (520 ft. 500 ft., 480 ft. and 460 ft.) THD so as to enable the water to be drawn from the level nearer to the surface.

The length of the tunnel between Vaitarna and Tansa is 9.24 kms. (6 miles) being made up for three sections with 3150 mm. diam. steel pipes spanning the Balwant and Tasu Nalas which run across the alignment. The tunnel divides into two branches at a Bifurcation Chamber wherein gates have been provided on each arm. One arm proceeds towards Tansa Lake where it terminates in a forebay at the entrance to the open channel leading into the Tansa Lake. The second arm is connected to a 3000 mm. (120") diam. pipe line which meets the 2400 mm. (96") diam. pipe line from Tansa at a point at short distance away from the Tansa Outlet Well.

Halfway along the alignment of the 3000 mm. (120") diam. pipe line, a Breakpressure tower has been provided to limit the head in the Vaitarna System to about 146 mts. (480 ft. THD) and thus to protect the Tansa system against excessive head in case, it becomes necessary for operational reasons to interconnect the two systems.

During the year under review, the Break-pressure tower kept plugged to take advantage of the higher level of Vaitarna to bring more water in the City with adequate pressure.

Commissioning of Upper Vaitarna Main.

The work of laying 2750 mm. (108") dia. main by Project Department was nearing completion and additional portion between Belnala to Kirvali was put into commission.

Aid from Upper Vaitarna Dam.

About 1,49,730 MI (32,937 m.g.) of water was transferred from storage at Upper Vaitarna lake and therefore, it has helped to minimise the shortage of water due to scanty rain fall during 1972 monsoon.

Measures taken for conserving water.

Due to short fall of rain during the year under report 10% cut was effected in the daily draw off from the sources from November 1972. As also the supply hours of Industries in Thana Complex including Local bodies was curtailed to the extent of 12 hours a day from September 1972 to met with the situation.

The Vaitarna Head Works are manned by a total staff of 84 including a Medical Officer. The power required for domestic use, work-shop etc., and for the operation of the spillway gates is generated departmentally at Vaitarna, the power house consisting of 3 Nos. 100 K. Watts capacity diesel generators, which generate power of 440 volts and transmit over the area through over-head lines aggregating about 4.82 Kms. (3 miles). Besides the inspection bungalow and staff quarters, there are also furnished bungalows which are utilised by members of the public visiting the site.

Turbidity levels in Vaitarna Lake.

During the monsoon of 1972, the maximum level of turbidity measured at the lowest intake point was 80 ppm. The turbidity of the surface water consisted the maximum value of 12 ppm.

(b) Tansa Head Works.

The Tansa Head Works consist of a gravity masonry dam having a length of 2,835 mt. (9,300 ft.) above the bed of the river. The spillway section consists of 38 gates each of 15.24 mt. (50 ft.) and 1.22 mt. (4 ft.) height. These shutters operate automatically, falling into open position when the lake level reaches their lip and being brought into the shut position with the help of counter weights, as soon as the level falls slightly below the lip. There is an arrangement of drawing water at seven different levels the lowest outlet being 1200 mm. (48") dia. opening at level 114 mt. (375 ft. THD) re-entering the outlet well which is located 86 metres (250 ft.) away from one end of the outlet well and connected with it by pipeline downstream side of the dam. This last outlet was specially made in 1947-48 in order to be able to draw upon the lake to a lower level in emergencies.

From the outlet, the following pipes take off:—

1. No. 2400 mm. (96") dia. Vaitarna Main.
- 2 Nos. 1800 mm. (72") dia. Tansa East and West Mains.
- 1 No. 1200 mm. (48") dia. main leading into a masonry duct.

The Tansa Head Works are manned by a total staff of 110 persons, special furnished Inspection Bungalow commanding panoramic view of the lake and a pavilion has also been provided for picknickers.

(c) Ulhas Head Works

The Head Works of the Ulhas Scheme consist of an Intake channel, the floor level of which is at a Head of 25 metres (82 ft. THD), leading into a feeder channel from which the pumps installed in the Mohane Pump House, on the right bank of the Ulhas River, derive their water. There are 8 pumps of 250 HP, including two stand by units. From this Pump House, the water is pumped into a 1200 mm. (48") dia. pipeline and carried across the Kulu river on a bridge and terminates at the treatment works at Pogion. These works comprise of a rapid sand gravity filtration plant very recently built. From the clear water reservoir of this treatment plant, the water is pumped into the Tansa Trunk main system through a second pumping installation at Pogion, there being 10 pumps of 250 HP installed at this place including 4 stand by units.

Support from Ulhas River :

This plant was put out of commission from 21st November 1972 to 30th December 1972 for maintenance works such as painting of underwater steel structures and repairs thereof and cleaning of sump well mudat Mohone.

The maximum water pumped from Ulhas River during the year under review was 24350.42 Mega litres (5356.45 Mgs.) The maximum and minimum turbidity of water during the year was 106 ppm. and 8.45 ppm. respectively. The Ulhas Head Works are manned by total staff of 95 persons both at Pogaon and Mohone Pump House including 20 m.g.d. filtration plant.

Famine Relief Works

In order to give employment to the famine affected persons, the following works were taken in hand in Jamboli and Pogaon Divisions:—

- (a) Providing concrete blocks under 1800 mm (72") dia. East & West mains at an estimated cost of Rs. 10,70,900.
- (b) Removing earth below the 1800 mm (72") steel mains where concrete blocks are provided at an estimated cost of Rs. 1,53,000;
- (c) Painting of 2400 mm (96") Trunk main in Jamboli Division at an estimated cost of Rs. 2,20,000;
- (d) Construction of Office-cum-Dispensary Building at Pogaon at an estimated cost of Rs. 95,000.

(d) **Vehar Head Works.**—The Vehar Head Works consists of three earthen dams aggregating the total length of 709 metres (2326 Ft.), the maximum dam height being 25.60 Mt. (84 ft.). There is also a spillway section in masonry having an Agee profile and a length of 108 Mts. (354 ft.). The intake is through a tower having 4 bell mouth openings at different levels the lowest one being at level 7007 mm. (230.50 ft.). T. H. D. The intake tower is connected to 1050 mm. (42") dia. pipe line which has been laid through a tunnel for a length of 61.38 Mts. (201.42 ft.) to connect it with the 1800 mm. (72") dia. and 1200 mm. (48") dia. Vehar mains which emanate from this system at the other end of the tunnel. Vehar Head Works are manned by a total staff of 30 persons. The bungalows and gardens have now been provided with electric lights and instead of diesel operated pumps electrically driven booster pumps have been installed and run for pumping up water for the use of the Inspection Bungalows and gardens. There are in all five Inspection bungalows at Vehar in addition to numerous Pavilions and Picnic spots which have been made for the benefit of public who frequently visit the place in large numbers, particularly on Holidays. Gardens and Lakes were closed to the public since 27th February 1973, on account of the Emergency till to date. A pump house is constructed for low level pump. The strainers over the bell mouth as well as the storage tanks in the garden were washed and cleaned. The pitching was repaired wherever necessary. Water samples are being collected at every 3 hours due to the Emergency. Mayor of Ajmer and his party visited Vehar during this year. About 3,00,000 visitors visited Vehar this year.

During the year under report, there was moderate rainfall at Vehar and the lake was not filled.

(e) **Tulsi Head Works.**—The Tulsi Head Works consists of a masonry dam of 192 metres (630 ft.) length and 28 Mts. (92 Ft.) high, an earthen dam of 588 Metres (1930 ft.) length of masonry spillway section of 43.28 metres (142 ft.) length. The secondary spillway which has its still above the sill of the regular spillway also exists on the masonry dam. The intake tower is through a tower having bell-mouth at different levels, the lowest outlet normally used being at level 125.37 Metres (411.33 ft.). The intake is connected to the 1050 mm. (42") dia. pipe-line which passes through a tunnel section before it enters the treatment works on the down stream side of the dam. Those treatment works consists of a repaid sand filtration plant constructed in 1926 and having a capacity of 18 M.L. (4 M.G.D.). The Tulsi Head Works are manned by a staff of 20 persons. There is no electric power at the site and water is pumped into the wash water tanks at the treatment plants with the help of diesel engines. The Tulsi Head Works are only approachable by a trolley line, a branch having been laid for this purpose taking off from the main line running from Ghatkoparto Tansa. The masonry dam, is however, approachable by a road recently constructed through the National Park. There is no Inspection bungalow at Tulsi. The lake did not fill completely due to less rainfall. The dam is closed to public since 27th February 1973 on account of the Emergency.

(f) **Powai Head Works.**—Powai Head Works consists of a masonry dam of 198 Metres (650 ft.) length and 9.14 Metres (30 ft.) height, including a spillway section of 177 Metres (580 ft.) length. The intake is through a well built intergrally with the dam, with openings at levels, the lowest being at 50 Mts. (165 Ft. T.H.D.). The staff at Powai Head Works consists of 43 persons most of whom are malis looking after Powai Park which is situated adjacent to the dam and which is a favourite picnic resort. The lake overflowed from 4th July 1972 to 16th July 1972, from 24th July 1972 to 27 July 1972, from 29th July 1972 to 31st July 1972, from 2nd August 1972 to 7th August 1972, from 23rd August 1972 to 25th August 1972, from 10th September 1972 and at last on 16th September 1972 i.e. for 36 days in total. A Rabbit House was constructed near Deer Park for keeping rabbits in the year 1972. The work of removing silt from Powai Park is started by the contractor from 1st April 1972 to 30th May 1972 and 1st March 1973 and so far about 10,000 cu. Mts. of earth has been removed.

(g) **Conveyance Lines.**—Details about the conveyance lines are given in Appendix XII. The system, is fairly complicated one consisting of tunnels, masonry duct sections, syphon mains of cast iron and steel rivetted mild steel pipe lines laid either directly on the ground or on concrete pedestals and welded steel pipes ring girders and roller and roller supports. The sizes vary from 1200 mm. (48") dia. to 3150 mm. (126") dia.

(h) **Maintenance of Plant, Equipment and Motor Trolleys.**—Six heavy and eight light motor, trolleys and two diesel locomotives were maintained and operated during the year, at an approximate cost of Rs. 93,357.92. The total distance covered by them was 1,54,623 Km. Motor vehicles and equipments such

as compressors, welding plants and concrete mixers, generating sets, outboard engines for boats, pumping units, venturi metres, together with other plants and machinery as detailed in Appendix XIII were maintained.

(i) **Disinfection of Bombay's Water Supply.**—The power house at Central Chlorination plant, Powai, having three generating sets each of 24 K. W. (40 H.P.) capacity, driven by diesel engines was maintained. These sets serve as "Stand-By" for emergency use in case of failure of electricity. The electric supply from Messrs. Thana Electric Supply Co. was mostly available throughout the year. The city's water supply was chlorinated at Central Chlorination plant at New Powai and smaller units at Mulund, Bhandup, Veravali and a Tulsi Lake. The dosages of chlorine at different plants were as under:—

Serial No.	Name of the Plant	Supply	Dosages
1.	Central Chlorination Plant	Vaitarna Tansa & Vehar	2 to 2.5 p.p.m.
2.	Tulsi Chlorination Plant	Tulsi	3 to 3.5 p.p.m.
3.	New Bhandup Chlorination Plant	Vaitarna, Tansa.	2 to 3.0 p.p.m.
4.	Old Mulund Chlorination Plant	do.	2.5 to 3.0 p.p.m.
5.	Veravali Chlorination Plant	do	3.0 p.p.m.
6.	New Mulund Chlorination Plant	do.	3.0 p.p.m.

Besides Chlorination, the Tulsi supply was also given Alum Treatment for coagulation. The dose of Alum varied from 0.56 to 1.0 grains per gallon of water. The total quantity of chemicals used in all the above plants including those in City also was as under:—

(a) Liquid Chlorine	...	812.37 M.T.
(b) Alum	...	89.375 M.T.

The following chemicals were kept in reserve for Emergency use:—

(a) Bleaching Powder	...	4850 Kgs.
(b) Potassium Permanganate	...	50 Kgs.
(c) Copper Sulphate	...	1350 Kgs.
(d) Soda Ash	...	75 Kgs.
(e) Hydrated Lime	...	5336 Kgs. (184 Bags)

The total expenditure made upto 28th December 1973 is Rs. 5,43,515.35.

(j) **Medical Aid:** During the year, there were two dispensaries and one First Aid Centre working in the Outside City and Head Works Division of this department with one Medical Officer, two Pharmacists and one Dresser. Attendance at the dispensaries, one at Ghatkopar and one at Kapurbavdi and First Aid Centre at Powai was as follows:—

Serial No.	Name	New Patients	Old Patients	Total
1.	Ghatkopar Dispensary	3,983	12,529	16,512
2.	Kapurbavdi Dispensary Pogaon and Mohona	972	13,436 1,242	15,650
3.	First Aid Centre at Powai	1,115	2,033	3,148

During the year M. M. O. C. paid 32 visits (weekly) to the Northern Division.

Common diseases were Anomia, Dysentey, Diarrhoea, Fever and Bronchitis, Accidental Injuries, Worms, Skin Diseases and Pulmonary Tuberculosis.

Works of Importance Carried out

1. Isolation of 2400 mm. (96") dia. Vaitarna main, for taking 900 mm. (36") dia. cross connection out with 2400 mm. (96") dia. Upper Vaitarna main and repairs to expansion joints and repairs to lead joints of cross connection sluice valve between:—
 - (a) Mulund and Bhandup Anchor Block.
 - (b) Bhandup and Powai Anchor Block.
 - (c) Powai and Sahar Anchor Block.
 - (d) Sahar and Bandra Anchor Block.
 - (e) Bandra to Futka Tank.
 2. One 450 mm. (18") dia. cross connection cut on 1200 mm. (48") Veravali inlet to Veravali Low Level Reservoir was taken with under pressure cutting machine.
 3. 1450 mm. (57") East and West mains in Kurla Andheri road for a length of about 58 metres each were gunited through the agency of Messrs. Janak Construction Company.
 4. The work of relaying 600 mm. (24") dia. C. I. Tulsi main at Maroshi bridge was started.
 5. 20 expansion joints of 2400 mm. (96") Vaitarna main were provided with protective covers.
 6. Five leak expansion joints of 1200 mm. (48") Vehar main from Vehar lake to Saki Naka repaired and one replaced totally.
 7. Extensive patchplating was carried out on Tansa Steel mains between:—
 - (a) Mulund-Bhandup Anchor Block.
 - (b) Bhandup-Powai Anchor Block.
 - (c) Powai-Sahar Anchor Block.
 - (d) Sahar-Bandra Anchor Block.
 8. Regrading of 1200 mm. (48") and 1250 mm. (50") dia. New Tansa and Old Tansa was carried out for a length of 150 metres between Burma Shell Bridge to Swing Bridge.
 9. Due to scanty rainfall and low levels in Tulsi lake alternative supply was given, by passing Tulsi filters.
 10. Filling, flushing, inspection and commissioning of 2400 mm. (96") dia. Upper Vaitarna main between:—
 - (a) Mulund to Bhandup Anchor Block.
 - (b) Bhandup to Powai Anchor Block.
 - (c) Powai to Sahar Anchor Block.
 - (d) Sahar to Dharavi Anchor Block.
- Pressure testing was carried out between Bhandup Anchor Block to Maroshi Anchor Block and from Maroshi Anchor Block to Dharavi Anchor Block. The defects noticed in pressure testing were rectified subsequently.
11. Construction of a new pump house for 3 additional pumps at Central Chlorination Plant Powai.
 12. Construction of a masonry retaining walls in Bhandup cutting started.
 13. Due to emergency, steps taken to test the water samples of all the lakes every 3 hours. Inspection rounds in boat were also conducted in these lakes.

V.—DISTRIBUTION DIVISIONS

(i) Distribution Division (City)

General.—Distribution Division deals with distribution and regulation of water supply within City limits. It also deals with investigation of short supply complaints, granting permission for new connections, additional fittings and their certifications, taking court actions for enforcement of Sections of Bombay Municipal Corporation Act relating to public and private water supply, rewashering of leaky taps, issue of notices for defective fittings and metering of water supply.

Each Ward, A to E, was in charge of one Assistant Engineer except B and C Wards, which were in charge of one common Assistant Engineer. Wards F and G divided into two sub-divisions each sub-division in charge of an Assistant Engineer.

Control Room.—The existing control room at Babula Tank is equipped for the entire Greater Bombay Water Works, continued to be in charge of an Engineer designated, as Assistant Engineer, Water Work Distribution and Control. He is responsible in all matters covering control of all water supply for the entire Greater Bombay including lakes.

For the purpose of distribution of supply, the City is divided into five main divisions, each division receiving supply from (a) Malabar Hill Reservoir (b) Bhandarwada Hill Reservoir (c) Golanji Hill Reservoir (d) Worli Hill Reservoir (e) Directly from Trunk mains.

The details of area served by four Reservoirs and the direct supply area shown in Appendix XVII. The timings as operated on 15th October 1972 are given in Appendix XVIII.

The average quantity of water per day brought to the City, Suburbs and Extended Suburbs was as follow:—

	In Mega Litres.	in Million Gallons
City	624.03	137.30
Western Suburbs	184.43	40.58
Eastern Suburbs	157.26	34.60
Extended Suburbs (West)	84.63	18.62
Extended Suburbs (East)	15.54	3.42

Short supply Complaints.—During the year 32,205 Nos. of complaints were received as against 32,794 number of complaints during the last year as detailed in Appendix XIX.

Reservoirs—

Malbar Hill Reservoir.—During the year an In-line Booster Pumping Station was constructed on 1800 mm. (72") M. H. R. inlet main on the slope of the hill opposite Parsi Tower of Silence at B. G. Kher Marg. The pump house comprises of ground and one upper floor R. C. C. Framed structure. On ground floor five pumps of 4.54 mega litres (1 million gallons) per hour capacity each and two pumps of 2.27 mega litres (½ million gallons) per hour capacity each driven respectively by 450 H. P. motors are provided. The pumps are fed by two numbers of 1200 mm. (48") diameter suction mains and deliver water to common busbar main of 1800 mm. (72") diameter. The delivery busbar is connected to the existing 1800 mm. (72") inlet by a 1800 mm. (72") diameter rising main laid across B. G. Kher Marg. On the upstream of the rising main connection a 1350 mm. (54") diameter non-return valve and 380 mm. (15") diameter anti-vacuum air valve have been installed. The BEST sub-station has been located on the first floor northern wing and on the southern wing the office, store and the hall have been accommodated. A. R. C. C. approach bridge has been provided from B. G. Kher Marg with an overhead gantry for transporting machinery.

Golanji Hill Reservoir.—The work of the extension of the existing pump house was taken up departmentally from October 1971. There are 3 pumps existing having capacity of 2 Nos. 100 H. P. each and 1 No. of 80 H. P. In the extension two additional pumps of 175 H. P. each and 1 pump of 100 H. P. capacities have been provided. The existing 450 mm. (18") suction and delivery busbar of 450 mm. (18") were extended to connect the suction and delivery pipe lines of newly provided pumps. The work of construction of pump house and providing electrically driven pumps with fittings was completed in March 1973.

Municipal Commissioner's Notices and Prosecutions.—Municipal Commissioner's Notices for improvement of water supply under Section 274(1) of the Bombay Municipal Corporation Act were issued in 124 cases, under Section 271(2) in 33 cases in respect of premises which without adequate water supply. The number of prosecutions launched during the year was 176. The number of convictions was 93.18 cases were withdrawn after compliance with notice and 54 cases were pending disposal at the end of the year. The total amount of fine recovered was Rs. 2,728. Besides, about 3,809 notices under Section 278(2) of the Bombay Municipal Corporation Act were served on the owners for defects in the water fittings excluding those in respect of unauthorised work infringing the provisions of Section 287(A) and (B) of the Municipal Act and non-compliance of Water Bye-laws and as a result of these 946 prosecutions were launched. The number of convictions was 720 and the amount of fine recovered was Rs. 6,459.

Disconnection of water supply.—The number of cases reported to the Standing Committee for severing water connections for non-payment of taxes and using unmetered water supply was 804 against 1,163 in the previous year. In 98 cases, the supply was cut off. In the remaining cases, the execution of disconnections orders was not carried out, as the consumers complied with the municipal requirements.

Fire Attendance.—The total number of calls received by the Babula Tank Control from the Fire Brigade Department for City, Suburbs and Extended Suburbs were 1878 against 1805 received in the previous year. Out of these 184, were false, 60 calls were on account of house collapse and 101 calls were on account of serious fires including one brigade call. As per the estimates of the Fire Brigade Department, the quantity of water actually used to put out the fires was about 4.25 Ml. (0.9 mg.). The total number of fire vans were five and were stationed at (1) 'A'—Ward (2) Babula Tank (3) 'E' Ward (4) 'F/South' Ward (5) 'G'/'South' Ward.

Flying Squad.—As a result of low pressure in Municipal water mains and increase in number of pavement dwellers, hydrants were found open in various localities in the City by use of crude keys. Apart from the wastage of water and low pressures, this created problems as hydrants were rendered inoperable due to damage

to the spindle gates. In order to minimise wastage due to unauthorised opening of hydrants, two flying squads each consisting of one Overseer, Two Police men and two Labourers operated during the period from 22nd May 1972 to 13th July 1972. It was discontinued with the breaking of the monsoon. During this period, 349 hydrants were closed, 67 spanners and keys, 48 masaks, 1218 utensils, buckets and vessels were confiscated. Revenue received from returning utensils to the public on payment of small fees was about Rs. 1,512 and through auction of unclaimed confiscated utensils was Rs. 1,357.

Due to deficit rain-fall in the last monsoon i. e. in the year 1972 resulting into low levels in the lakes supplying water to Greater Bombay, it was necessary to conserve water brought from these lakes. As a part of the conservation scheme, three flying squads were started earlier with effect from 2nd January 1973 as a special case. Upto 31st March 1973, 674 hydrants were closed, 91 spanners and keys, 46 Masaks, 2766 utensils, buckets and vessels were confiscated. Revenue derived from returning utensils to the public, on payment of small fees was about Rs. 5,130.

Stand Pipes.—Metered stand pipes were given for a group of not less than 20 persons on receipt of their application. During the year 170 new stand pipes were given and 21 were cut off bringing the total number of stand pipes at the end of the year to 500. The details are given in Appendix XXII.

II.—DISTRIBUTION DIVISION (SUBURBS AND EXTENDED SUBURBS)

Distribution System.—The Suburbs and Extended Suburbs are supplied water by gravity through several tapping points on the trunk mains coming from the lakes. For distribution purposes, the areas are divided into two zones viz. Western and Eastern. Former derives supply from the tappings on the 2,400 mm. (96") dia. Vaitarna, 1,450 mm. (57") dia., West Tansa 600 mm. (24") dia., Tulsi Main between Powai and Bandra and the later through tappings on the 1,800 mm. (72") West Tansa Main,—1200 > 800 > 600 > mm. (48" > 32" > 24") Vihar Main and 1200 mm. (48") New and old Tansa Mains. The hours of supply of different localities in the Suburbs and Extended Suburbs are shown in Appendix—XVIII.

(a) Tunnels

Borivali Dahisar, Kandivali, Malad and Goregaon (West) areas were supplied from 3.96 metres (13') dia. tunnel.

(b) Tulsi Supply

In addition to Aaray Milk Colony, the supply from Tulsi lake was given to Goregaon (East) and part of Malad (East) in a staggered manner. The supply timing is shown in Appendix XVIII.

(c) Reservoirs

The Pali Hill Reservoir.—The Pali Hill Reservoir is continued to supply water by pumping to the hilly areas of Pali Hill. This reservoir is being used on fill and draw basis like the one at Worli and Golanji Hill.

600 mm. (24") Danda outlet was used by partially opening it for about 3 hours to boost pressure in Danda areas of 'H' Ward.

Trombay Hill Reservoir.—This reservoir is being utilised occasionally during system breaks down 900 mm. (36") > 600 mm. (24") Panjra pole outlet was used partially for supplying for municipal slaughter house at Deonar.

Fire Attendance.—The quantity of water used to put out the fire was about 13.21 MI and 0.009 MI. (2.90 mg. and 0.001 mg.) respectively.

Quantity of Water Supply.—Statistics as regards quantity of water supplied to the areas in Suburbs and Extended Suburbs during the year are shown in Appendix IX and X.

Stand Pipes.—Metered stand pipes were given for a group of not less than 20 persons on receipt of their applications. During the year 604 and 251 new stand pipes were given and 11 and 8 were cut off, bringing the total number of stand pipes at the end of the year to 2865 and 790 in Suburbs and Extended Suburbs respectively. The details are given in Appendix XXII.

Short Supply Complaints.—The number of short supply complaints received for various reasons and attended to during the year from the areas in the Suburbs and Extended Suburbs was 12,060 and 2,941 respectively, as detailed in Appendix XIX-A.

Notices and Court Cases.—4 Notices for Suburbs and 6 for Extended Suburbs under Section 271(2) and 51 Notices for Suburbs and 350 Notices for Extended Suburbs under Section 274(1) of the Bombay Municipal Corporation Act were issued. 662 and 651 Notices were issued respectively in Suburbs and Extended Suburbs for the defective fittings, chokes in service pipes, unauthorised works, etc. The court action was taken in 36 and 2 cases respectively. The amount of fine recovered was Rs. 440 and 60 for Suburbs and Extended Suburbs respectively.

Disconnection Orders.—Disconnection Orders were issued in the Suburbs and Extended Suburbs 355 and 195 respectively.

VI.—MAINTENANCE DIVISION.

Maintenance Division (Inside City).

The Maintenance Division at 566, N. M. Joshi Marg, Byculla, continued attending to major works of repairs and bursts on big sized mains, maintenance of testing house, meter workshop, pumping and chlorination at reservoirs and other places in the City etc. This division continued attending to emergent works connected with repairs to pipes even after office hours and on Sundays and Holidays.

The total length of 981.70 Kms. (609.36 miles) of water mains of sizes 80 mm. (3") and above was maintained during the year. There were 6 bursts and 70 leaks on large sized mains and 84 Nos. sluice valves packing leaks during year. The details of bursts are shown in Appendix-XIV.

Plant & Machineries: Plant and machinery maintained during the year are shown in Appendix.—XIII

Old and New Pumping Stations at Reservoirs.—

(i) Malbar Hill Reservoir :—

The existing pumps viz. eleven Nos. of 100 H. P., two Nos. 75 H. P. and one No. of 400 H. P. were maintained in the existing pump houses. A new In-line Boosting Station has been constructed at Malbar Hill having 2750 H. P. capacity viz. five pumps of 450 H. P. each, two pumps of 250 H. P. each. This pumping station will be commissioned shortly. The total pumping capacity of Malbar Hill Complex is now 4040 H. P.

(ii) Bhandarwada Hill Reservoir.—

The existing two pumps viz. one of 275 H. P. and one of 300 H. P. were maintained. The total capacity of pump house remained at 575 H. P.

(iii) Golanji Hill Reservoir.—

The existing three pumps viz. two Nos. of 100 H. P. and one of 80 H. P. were maintained. In addition to this three new pumps viz. two Nos. of 175 H. P. each and one of 100 H. P. were installed, in the extension of the existing pump house. The total installed capacity of the pump house has now become 730 H. P.

The aggregate capacity of pumping units at the reservoirs in the City was 5345 H. P. and total maintenance cost incurred was Rs. 4,13,055. In addition to the above pumping units five small booster pumping stations having total capacity of 484 H. P. were also maintained. Six small pumping sets having total capacity 575 H. P. were maintained for playing fountains and watering the reservoir gardens.

Chlorination Plants Re-chlorination was done at various places in the City for maintaining required residual chlorine in the water mains. Auxiliary Chlorination Stations at (a) Futka Tank, King's Circle, (b) Malbar Hill Reservoir, (c) Bhandarwada Hill Reservoir, (d) Worli Hill Reservoir, and (e) Golanji Hill Reservoir functioned satisfactorily. Further five portable chlorination plants were used on the water mains in the City, wherever additional disinfection was found necessary due to suspected contamination etc. The total quantity of chlorine consumed during the year was about 1580 cylinders containing chlorine of 105.80 M. Tons approximately.

Testing of Water Mains. The total number of pipes and fittings tested during the year was approximately 5,83,522 out of which 3,00,861 pieces belonging to private parties and remaining for the Municipal works realising a revenue of Rs. 83,383.00. The corresponding figures during the previous year were 4,57,062 pieces and Rs. 70,045 respectively.

Meter Shop. The total No. of meters maintained was 26023. The total number of meters repaired during the year was 10,594. Total number of meter tested was 26,483 out of which 21,983 were Municipal meters.

New Meters: The total number of new meters purchased during the year was 2,417.

Boosting Pumps for hire to public. In order to give interim relief to consumers whose pumps had gone out of order, 15 Nos. of pumping sets (1 to 5 HP) were maintained and given on hire for short duration. Three numbers of plastic tanks each of 42,987 litres (11,000 gals.) capacity were also offered on hire to public. About 40 hand pumps were fixed on various wells in the City limits to use well water for other than drinking purposes so as to conserve potable water.

Improving the water supply in Municipal Bldgs. 30 New connections were made during the year. 650 odd jobs such as cleaning of water connections arresting wastage, rewashering of taps and replacement of old pipes etc. were carried out

Maintenance of Water Works Bldgs. The routine maintenance work such as, painting, minor repairs, replacement of storage tanks and fittings, repairs to flooring, etc. were carried out during the year.

Cleaning wells. In order to conserve potable water, 360 wells were cleaned during the year for the use of water for purposes other than drinking.

Water connections in the City.—The work of granting new water connections was carried out by the Maintenance staff of the respective Wards. The total number of new water connections granted during the year was 2724 as shown in Appendix XVI, as against 3272 in the previous year. The grand total of water connections existing in different premises in the City came to 1,05,160, as against 1,03,772 in the previous year. Similarly water connections cut off during the year were 336 as against 70, during the previous year.

(II).—MAINTENANCE DIVISION (SUBURBS AND EXTENDED SUBURBS):

The Maintenance Division at L. B. S. Marg at Ghatkopar continued to execute and attend major works of repairs and bursts on big sized mains ranging from 300 mm. to 1200 mm. (12" to 48") diam., maintenance of testing house, meter workshop, reservoirs and pumping stations in Suburbs and Extended Suburbs. This division continued to attend emergent works connected to repairs to pipes, sluice valves, boosting stations and miscellaneous works connected to water works even after office hours and also on Sundays and Holidays.

Maintenance of water mains:—722.86 K. m. (449.32 miles) and 321.36 Km. (199.66 miles) of water mains of sizes varying from 50 mm. (2") to 900 mm. (36") in Suburbs and Extended Suburbs respectively, were maintained. 25 Nos. of bursts on mains from 150 mm. (6") to 750 mm. (30") were attended to. The details of bursts on mains 600 mm. (24") and above in diameter is shown in Appendix XIV.

Cleaning of Wells.—The total number of wells cleaned in Western & Eastern Suburbs was 588.

Maintenance of Pumping Stations.—25 Pumping Stations as detailed in Appendix XV-A were maintained and Vihar Pumping Station having an installed capacity of 2760 H. P. was operated for 1375 hours during the year, as shown in Appendix XV-B.

Testing of Water Pipes and Fittings.—The work of testing small galvanised iron pipes (30,998-Nos.) and fittings (1,20,759 Nos.) was carried out at Ghatkopar and Bandra. The revenue from testing of pipes and fittings submitted by private parties amounted to Rs. 1,15,598.00.

Repairs to Water Meters.—There are two meter workshops under this branch one at Ghatkopar and the other at Malad, where meters were tested, cleaned, overhauled and repaired. The total number of Municipal meters repaired during the year was 7670. The total number of meters tested at Ghatkopar was 22,432, and 1,452 were tested at Malad. Revenue derived from testing and sealing of meters was Rs. 42,749.65 at Ghatkopar and Rs. 8,303.50 at Malad.

Water Connections.—The particulars of connections made during the year are given in Appendix XVI. The total number of new connections granted was 2035 in the Suburbs and 909 in the Extended Suburbs. The total number of connections at the end of the year was 36,910 in the Suburbs and 13,007 in the Extended Suburbs.

Plant and Machinery.—Details of Plant and machinery maintained during the year is shown in the Appendix XIII.

VII.—CONSTRUCTION DIVISIONS

The Works Division (Inside City).—carried out the works of laying of water mains and other construction works as per the provisions in Loan Works Budget. It also carried out the work of diverting of the water mains, laying of additional water mains in connection with resurfacing of roads and other emergent works, on behalf of the private parties, sister departments, Government bodies and making new connections, 80mm. (3") diameter and above in sizes, were also carried out by this division.

These works were carried out departmentally, the total strength of the staff being 656. The cost of the budgetted works executed is about Rs. 20,39,490 and the cost of the unbudgetted works Rs. 26,52,134. List of plant and machinery and tools with this Division is as shown in Appendix XIII.

Total length of pipes of various sizes laid is as shown in Appendix XXI.

Works Division in Suburbs and Extended Suburbs.—Is divided into three zonal units, viz. Zone I—comprising of L, M, N & T Wards, Zone II of H and K Wards, and Zone III of P and R Wards. During the year, the cost of budgetted works carried out for Suburban wards was Rs. 20,76,403 and Rs. 30,59,552 for the Wards of Extended Suburbs. The cost of unbudgetted works was Rs. 2,61,000 for Suburbs and Rs. 3,29,571 for Extended Suburbs.

Details of Plants and Machinery maintained by three divisions is given in Appendix XIII and the length of pipes laid in Appendix XXI.

VIII.—CORE UNITS

On 15th May 1969 various basic units of the department were grouped together with a common headquarters at the new Ward Office Building at Babula Tank in order to facilitate the Co-ordination of their working and to provide better liaison with the Central Distribution Control Unit also located nearby. The divisions comprising the core were the following:—

- (1) Planning;
- (2) Quality Control and Waste Prevention;
- (3) Industries;
- (4) Productivity;
- (5) Security Division.

Activities of various divisions are given in what follows. Although the Sub-divisions maintained their individual identity after the merger many grouped activities were also possible, notable amongst these being the commencement of the comprehensive leakage control programme and the distribution studies undertaken through the firm of Tata Consulting Engineers.

(1) **Planning Division.**—(a) The main activity of this division continued to be zoning in conformity with the revised working plan for the augmentation stage of 1981. The population forecast was made again on a realistic basis in the light of 1971, Census figures and in the light of the figures supplied by Messrs. Binnie & Partners, Consultants to the Municipal Corporation in their report for the 1981 stage of Development. Detailed reports on the proposed zones were prepared for 8 more zones bringing the total to 63, out of the total number of 74 zones covered under the revised plan. 8 more zones previously analysed for 1971 stage were tested for the 1981 stage of development and further strengthening works were proposed. The work of network analysis continued to be done with the help of C. D. C. 3600 electronic computer at the Tata Institute of Fundamental Research at Colaba. The total computer time used during the administrative year was 59 minutes and 51 seconds.

(b) In addition, the planning division was also entrusted with the work of issuing 'No. Objection Certificates' to the new developments after scrutinising them from distribution point of view for about 7 months.

(c) The Planning division attended to various local problems of distribution of water supply in various wards and also scrutinised and suggested the distribution net works in private and public layouts, proposed town planning schemes etc.

(2) **Quality Control and Waste Prevention Division.**—This branch continued the linked activities of sounding of water mains for leakage detection and tracing of points of contamination in water supply. The gauging of flows in trunk and distributory mains was also done by it with the help of pitometers.

Routine Sounding of Mains and allied Activities.—In Greater Bombay area the total length of mains covered under the sounding programme excluding special sounding done for various investigations to study leakage losses was 1216 km. (755 miles). The total number of defects detected by the sounding gangs was 3434 of which 502 were above ground. The number of hydrants flushed was 27,747.

Pitometer Works.—Twelve Pitometer Units were in the field from April 1972 to March 1973. The staff worked for 4032 units days during the year as compared to 4164 unit days last year. The total number of points gauged was 365, which were made up of the following:—

- (1) Gauging the quantity of water conveyed by the trunk and distributory mains for finding out the average daily break up of the total supply in the different zones of Greater Bombay and for the purposes of day-to-day control: 198.
- (2) Gauging in connection with leakage evaluation and consumption studies: 18.
- (3) Periodical checking of the pipe flows at various points of the distribution system: 77.
- (4) Gap settling cases of big size private party connections for the billing purposes in 'A' to 'T' Wards: 64.
- (5) Venturi calibration of 740mm. (96") Vaitarna main at Powaj: 8.

Sampling.—In each of the wards of the City & Suburbs, there were as in the preceding year two groups of sampling points from which water was sampled at regular intervals for the purpose of bacteriological and chemical examinations.

Bacteriological Standards of Water Supplies.—The sampling points being on service mains were expected to be representative of the quality of water supply obtainable in different parts of the City, Suburbs and Extended Suburbs. Samples of water were collected by the mobile squads of trained personnel of the Municipal analyst's staff. The sampling was done daily but not on Sundays.

As against the previous year's figures 91.50 per cent samples free from coliform bacteria, the year's figure was 87.8. The total number of routine samples collected for bacteriological examination was 4982 compared to 5290 last year. This was exclusive of 3853 special samples collected from the areas where reports of contaminated water had been received. 4486 samples were also collected this year from the service reservoirs of M. I. Bar Hill, Bandurwada Hill, Worli Hill, Golanji Hill and Pali Hill as compared to 4680 samples collected last year. 96.08 per cent of these samples were free from Coliform organism compared to 96.52 per cent during the previous year.

Chemical Analysis.—The total number of samples of water collected for chemical analysis during the year both from the lakes and the distribution system was 338.

Investigation of complaints of contamination of supply.—Whenever contamination of the supply of any locality was suspected, investigations were immediately initiated to trace the fault and remedy the defect. Leaking and broken underground fittings were traced with the help of sounding rod. Flushing of hydrants in the affected area was also done to speed up normalisation of conditions and mobile chlorination units were also used.

(3) **Industries Division.**—Industries Division deals with granting of water quotas to various industries in the City, Suburbs and Extended Suburbs.

During the year under review, due to deficit rainfall and consequent low lake-levels, it became imperative to conserve water. The water supply to industries in Greater Bombay was therefore curtailed. The permitted 10% excess consumption over the functional water quota of such industries was withdrawn temporarily from 1st July, 1972, to September 1973. Also a new in industries were brought on quota scheme during the year.

(4) Productivity Division :

(a) **Introduction of modified billing frequencies:** The modified billing frequencies have been introduced to all the 9 City Wards from 1st April 1972. The unit did all the preparatory work to bring about this change-over. The staff concerned was briefed about the changes suggested. The monitoring of this was done by the unit.

The inclusion of proportional meter rent charges in regular water charges bills has been introduced. The productivity unit did all the preparatory work for this change-over. The existing billing forms and an advice sheets were duly modified to accept this change.

A new billing form and registers of billing section has been designed by the Productivity Unit. The new forms include all the modifications listed above. The form design has been accepted.

(b) **Mechanisation of Water Charges Bills.**—The Productivity Unit under H. E.'s direction associated itself in the mechanisation of water billing system. The unit worked with the C. A.'s staff in deciding the FORMAT for mechanisation of water bills.

(c) **Sub Committee on Meter Assemblies.**—The report submitted by the sub-committee on meter assemblies has been accepted, of which one item was standard meter chamber. The design of meter chamber as suggested has been totally accepted and a model chamber for guidance was constructed.

(d) **Association with Tata Consultancy Services.**—As per direction of Hydraulic Engineer, the unit associated itself with the "Tata Consultancy Services" in their project on Management & Control of Water Supply and Sewerage Projects. The work is in progress.

(e) **Preparation of Manual of Water Works Section.**—The work of preparation of Manual of Water Works Section has been continued throughout the year.

(f) **Training Scheme.**—A scheme for in-service training of Meter Readers was formulated by the unit.

(5) Security Division :

(a) **Above ground static tanks.**—In all there are 31 above ground static tanks. Out of these 4 tanks were in good condition and the remaining 27 tanks were leaking. One tank at Mamala Tank Road was repaired departmentally with the help of specialised contractor in the line of water-proofing. The work of rendering water-proof another tank at playground behind Sion Bus Depot was also entrusted to the same contractor. In the meantime sealed quotations were invited for 25 tanks 14 tanks in 'F' and 'G' Wards and 7 tanks in 'A' to 'E' Wards were rendered water-proof through another contractor and the remaining 4 tanks in 'A' to 'E' Wards through the first contractor. Portion of roof slabs over the tanks were broken and the same were also got repaired through contractors entrusted with the work of constructing approach roads to the static tanks. The tanks thus repaired have been kept filled with water.

(b) **Underground Static Tanks.**—This department had taken over the charge of 36 underground static tanks constructed by the Government of Maharashtra. Out of these it was observed that seventeen tanks were leaking profusely. Recently the B. & C. Department of Government of Maharashtra has rendered four of them water-proof and the work on remaining tanks is still to be carried out. Joint testing of tanks was arranged between the Government and Municipal Engineers for testing the leaky tanks to their current position with regard to the water-tighten.

(c) **Wells.**—As a precautionary measures, due to deficit rain fall in the last 1972 monsoon, 350,275 and 313 wells in the City, Eastern Suburbs and Western Suburbs respectively were cleaned and disinfected departmentally free of cost up to the end of March 1973. Well-water was allowed for construction, processing, gardening and non-domestic purposes.

38 numbers Municipal hand pumps were fixed in the City Wards in order to facilitate the drawing of water from the wells. These hand pumps were fixed on payment of Rs. 100 each as a security deposit towards safety of the same.

IX—LEAK DETECTION DIVISION.

This Division is working on carrying out Leak Detection Programmes in City, Suburbs and Extended Suburbs. This programme is launched as per advice of M/s. Binnie and Partners, the World Bank Consultant and commenced since 1971, so as to avoid heavy leakages in trunk mains and distributory system.

List of Zones completed so far, is given in Appendix 'A'.

This Branch is now functioning all over City, Suburbs and Extended Suburbs and about 33 Zones are completed during the course of this year. Electronic Instruments for locating of mains and also location of leaks are being used. More instruments are being ordered. The whole work is being done by 18 Units.

Now mains are charged only after carrying out necessary tests for leakages.

Many contamination cases of water were attended by one separate Mobile Unit of this Branch. The detailed information i.e. wastage of water before and after the repairs, cost of the work, revenue made available by arresting the leakages of the Zones completed are given in the Appendix 'A'.

Total length of distributory mains tested during the year approximately works are as follows:—

Sr. No.	Size	Length in Meteres	Length in R.fts.	Sr. No.	Size	Length in Meteres.	Length in in R ft.
1	750 mm. (30")	397	1,300	7.	200 mm. (8")	1520	4,985
2	700 mm. (27")	885	2,900	8.	150 mm. (6")	30874	1,01,226
3	600 mm. (24")	2062	6,760	9.	100 mm. (5")	783	2,566
4	450 mm. (18")	4417	14,724	10.	100 mm. (4")	17711	58,068
5	300 mm. (12")	10140	33,246	11.	80 mm. (3")	7233	23,715
6	250 mm. (9")	13644	44,735				

Total length of newly laid mains which are tested by this Unit before charging are as below:—

(1)	150 mm. (6")	...	4,110 Mt.	(13,100 Rft.)
(2)	225 mm. (9")	...	666 Mt.	(2,200 Rft.)
(3)	300 mm. (12")	...	1,119 Mt.	(3,730 Rft.)
(4)	450 mm. (18")	...	300 Mt.	(1,000 Rft.)

MUNICIPAL CORPORATION OF GREATER BOMBAY.

Work of Leak Detection—Work Done Upto 31st March 1973.

Appendix 'A'

Serial No.	Name of the Zone	Per cent loss in Zone before the leakes are repaired.	Per cent loss after the leakes are repaired.	Quantity of Water saved Lits./day.	Amount spent for stopping the leakages.	Amount saved during year by stopping leaks.	Remarks
1	2	3	4	5	6	7	8
1	Napean Sea Road Zone	24.81	2.35	8,54,092	45,639.00	81,475.20	These 8 units were started and completed in the year of 1971-72.
2	Siri Road Zone	10.00	1.50	1,39,350	30,000.00	13,152.74	
3	Peddere Road Zone	7.03	1.90	5,15,970	34,251.00	56,498.65	
4	Carmichael Road Zone	13.80	2.69	2,38,958	21,078.74	26,168.60	
5	Dockyard Road Zone	13.40	2.80	4,30,320	46,780.00	58,910.00	
6	Mount Road Zone	15.80	4.54	11,05,440	55,614.00	1,21,041.00	
7	Chembur Zone	17.60	4.33	4,73,225	33,988.00	45,121.00	
8	Mulund Zone	23.00	5.40	6,48,370	16,738.00	1,10,640.00	
9	Mandvi Zone	26.50	9.23	2,70,500	29,511.00	35,550.00	
10	Globe Mill Passage Zone	8.90	2.20	9,00,000	22,000.00	1,68,480.00	
11	Raghavji Road Zone	33.18	4.07	13,12,054	28,763.79	1,43,681.50	
12	Shivdas Champsey (Dongri) Marg.	10.10	3.36	1,03,500	16,721.11	25,812.00	
13	Abdul Gafarkhan Road (G/S Ward.)	35.35	6.30	9,68,700	15,015.60	70,715.00	
14	Bhulabhai Desai Road (D—Ward.)	21.24	5.30	15,55,400	30,577.00	1,73,966.00	
15	Strand Zone	16.56	5.05	1,99,800	16,387.00	21,969.00	
16	Maheshwari Road 'B' Ward Dongari	9.46	3.05	1,72,500	19,455.92	28,561.25	
17	Hanuman Rd., Vile Parle	40.30	9.60	5,14,836	11,480.00	57,133.45	
18	Shradhanand Road.	23.80	7.30	3,77,547	10,880.00	42,033.40	
19	Mahatma Gandhi Road	33.60	4.10	6,68,256	11,750.00	74,394.30	
20	Ram Mandir Road	33.60	7.40	5,28,511	13,540.00	58,834.35	
21	Subhash Road	54.80	10.20	6,59,753	11,130.00	73,438.00	
22	Garden Road.	37.30	12.30	2,93,648	11,895.00	32,689.40	
23	Nehru Road.	28.50	6.50	6,07,178	11,860.00	67,590.70	
24	Play Ground Road	26.90	7.90	3,20,344	12,260.00	35,660.50	
25	Nawroji Hill Road 'B' ward.	12.78	3.23	1,68,000	9,713.06	24,528.00	
26	Nesbit Road Outlet 'E' ward.	11.90	3.00	59,000	11,007.08	10,195.00	
27	Ridge Rd., Outlet 'D' ward.	15.03	4.60	54,679	31,888.57	6,044.00	
28	Cuffe Parade Rd., 'A' Ward	9.05	3.12	80,840	13,838.01	5,840.00	
29	G. D. Ambekar Marg 'F/S' Ward.	12.30	5.50	79,200	24,555.00	9,256.00	
30	Parel Village Road 'F/S' Ward.	5.81	2.90	24,000	17,408.00	102.40	
31	Kalbadevi Road Zone 'C' 'C' Ward.	...	...	...	...	...	All these zones are tested by extensive sounding method. The pressures in the area are developed considerable after repairing the leaks.
32	Grigam Zone 'D' Ward.	...	...	...	...	...
33	Reay Road Outlet	...	...	...	...	...
34	Palton Road 'A' Ward.	...	...	...	...	...
35	Tardeo Road ('E Zone 'D') Ward.	...	...	...	...	...
36	Shiwaji Park Zone 'C/N' Ward.	...	...	...	...	...
37	Bandra Hill Road 'H' ward.	...	...	...	...	...
38	Matunga Zone 'F/N' ward.	...	...	...	...	...
39	Babula Tank Road Outlet 'B' Ward.	...	...	...	...	...
40	Gokhale Road (South) 'C/N' Ward.	...	...	...	...	...
41	Lamington Road Zone 'D' Ward.	...	...	...	...	...

X.—SURVEY AND DESIGN DIVISION.

This division is entrusted with the work of maintaining records of water and other structures. Preparing plans and estimates of all engineering works to be carried out, maintaining statistics of (i) lake levels, (ii) storages (iii) discharges, (iv) rainfalls, (v) chemical and bacteriological etc. maintaining records of Water Works lands, preparing estimates of water charges for probable quantity of water used for building construction purposes, verifying tenders, contracts and measurement of contract work, maintaining a library of engineering books and periodicals and attending to miscellaneous administrative matter of technical nature.

Preparation of Plans and estimates—Several proposals for laying water mains, for improvement and expansion of the distribution system were formulated during the year. Plans and estimates below were prepared.

Budget	No. of Plans	No. of Estimates	Estimated cost in Rs.
(City) Division I	124	150	2,73,85,286.00
(Suburbs) Division II	79	123	2,46,84,960.00
(Extended Suburbs) Divisional III	36	43	1,95,96,867.00
Total	239	316	7,16,67,113.00

Compounded charges for water used for construction purposes.—1,321 estimates of compounded, charges for water used for construction purposes in the City were framed as against 1,388 in the corresponding year. The total estimated Amount was Rs. 12,73,965 as against Rs. 15,51,756 in the preceding year. On similar lines 440 estimates for the Suburban and Extended Suburban Areas against 4,079 in the preceding year were framed amounting to Rs. 21,03,633 as against Rs. 21,52,309 in the preceding year.

XI.—METERING.

21,647, 33,613 and 13,020 meters of sizes varying from 15 m.m. (1/2") to 300 m.m. (12") in City, Suburbs and Extended Suburbs respectively, were on the connections as detailed in Appendix XX. The number of meters exchanged was 14,504, 6,627 and 3,604, those fixed on new connections were 993, 1,395 and 198 and meters removed from the existing connections were 368, 162 and 629 for City, Suburban and Extended Suburbs respectively.

Progressive metering programme:—The number of new properties metered during the year 140, 161 and 136 for City, Suburbs and Extended Suburbs respectively. Premises metered during the year pertain to trades and new residential buildings on flat systems.

Revenue from metered connections:—The total revenue derived from water supply by meter measurement was Rs. 5,22,86,908, Rs. 3,15,86,496 and Rs. 1,00,82,556 in City, Suburbs and Extended Suburbs' Respectively.

XII.—ESTABLISHMENT.

The total number of scheduled superior staff during the year was 378 under Division-I (Budget 'A') and the establishment cost thereof amounted to Rs. 28,18,535. The labour staff during the year numbered about 2508 and its establishment cost was Rs. 62,32,822. The temporary staff both superior and inferior was 855 with establishment cost of Rs. 941,975.

Under Division II and III, the total number of Scheduled superior staff during the year was 182 and 74 and the establishment cost thereof amounting to Rs. 9,78,852 and Rs. 4,35,295. The labour staff during the year numbered about 440 and 172 and its establishment cost was Rs. 13,98,500 and Rs. 5,04,171. The temporary staff both superior and inferior was 52 and 59 respectively with a total establishment cost of Rs. 3,19,633 and Rs. 1,20,406.

K. D. MULEKAR,
Hydraulic Engineer.

XIII—LIST OF APPENDICES

Serial No.	Description.
I.—	Statistics of Lakes.
II.—	Statement showing evaporation losses of different lakes.
III.—	Map showing lakes and trunk mains providing water supply to Greater Bombay.
IV.—	Graphs showing annual rainfall of Vaitarna lake.
V.—	Do. of Tansa Lake.
VI.—	Do. of Vehar Lake.
VII.—	Do. of Tulsi Lake.
VIII.—	Do. of City (at Colaba).
IX.—	Supply Statistics.
X.—	Statement showing the quantity of Municipal water used for different purposes.
XI.—	Details of Hydraulic Gates in the Head Works Division
XII.—	Statistic of trunk mains, embankments, culverts and bridges.
XIII.—	Statement showing Plant and Machinery maintained in various Divisions.
XIV.—	Statement showing details of bursts of mains on 600 mm. (24") and above in the City, Suburbs and Extended Suburbs.
XV-A.—	List of Municipal Boosting Stations in City, Suburbs and Extended Suburbs.
XV-B.—	List of Municipal bulk pumping stations in outside City and Ulhas Divisions.
XVI.—	Statement of water connections of different sizes made during the year.
XVII.—	Plan showing zones of water supply.
XVIII.—	Statement showing hours of supply in different localities in the City, Suburbs and Extended Suburbs.
XIX.—	Statement showing short supply complaints in City.
XIX-A.—	Statement showing short supply complaints in Suburbs and Extended Suburbs.
XX.—	Statement showing details of meters in City, Suburbs and Extended Suburbs.
XXI.—	Details of works carried out by construction branch in City, Suburbs and Extended Suburbs.
XXII.—	Details of stand pipes in City, Suburbs and Extended Suburbs.
XXIII.—	Organisation chart of H. E.'s Department (as on 31st March 1973).

APPENDIX I

Statistics of the Lakes for 1972-73

Serial No.	Particulars	Vaitarna	Tansa	Veher	Tulsi	Powai
1	Distances from Bombay (Town Hall) in Kilo Metres (miles) by road.	119.09 (74)	105.21 (65)	23.96 (18)	35.40 (22)	27.35 (17)
2	Waterspread at full supply level in square kilometres (square miles).	8.55 (3.30)	19.11 (7.33)	7.23 (2.81)	1.35 (0.52)	2.10 (0.81)
3	Total catchment areas in square Kilometres (square miles) ...	450.65 (174.00)	135.38 (52.50)	18.96 (7.32)	6.76 (2.61)	6.63 (2.53)
4	Total rainfall in Millimetres (Inches)	1475.00 (58.85)	1,677.60 (66.04)	1,831.55 (72.10)	2,035.32 (80.17)	1,911.90 (75.28)
5	Average rainfall of the preceding five years in Millimetres (Inches).	2374.70 (93.46)	2,521.92 (99.55)	2,219.55 (88.17)	2,772.19 (109.53)	2,701.52 (106.85)
6	Fluctuation in rainfall as compared with preceding 5 years in Millimetres (Inches).	125.47 (4.94)	176.27 (6.94)	-78.23 (-3.08)	-161.87 (-6.57)	20.32 (0.80)
7	No. of rainy days, [rainfall of 2.5 mm. (0.10") and above]...	57	29	61	48	41
8	(a) Number of days in which rainfall was moderate [between 7.6 mm (0.3") and 34.9 mm (1.37")].	24	27	20	15	50
	(b) Number of days in which rainfall was heavy [between 35.0 mm (1.38") to 64.9 mm (2.55")].	9	3	...	6	3
	(c) Number of days in which rainfall was very heavy [between 65.0 mm (2.56") and 81.9 mm (3.24")].	1	5	3	14	3
	(d) Number of days in which rain fall was very heavy 85.0 mm. (3.33") and above...	1	4	...	...	...
9	Maximum rainfall in millimetres (Inches)	173.41 (6.82)	247.60 (9.82)	251.45 (9.9)	327.00 (12.87)	392.64 (15.40)
10	Dates of maximum rainfall	2-7-1972	2-7-1972	30-6-1972	2-7-1972	2-7-1972
11	The lakes commenced to overflow when the rainfall amounted to mm. (inches).	659.71 (26.35)	...	...	...	1,261.33 (49.5)
12	Dates on which the lakes started overflowing	8-7-1972	...	...	...	4-7-1972
13	Dates on which the lakes stopped overflowing	15-9-1971	...	...	...	16-9-1972
14	Number of days the lakes overflowed	47	...	...	...	36
15	Quantity of water that overflowed over the waste weir in Mega Litres (Million Gallons)	1,80,459 (39,703)	...	...	...	3,715 (817)
16	Full supply levels of the lake above Town Hall Datum in Metres (Feet).	163.06 (533.00)	123.62 (422.00)	87.67 (261.70)	139.15 (456.60)	59.43 (195.00)
17	Total contents of the lake above the lowest outlet at full supply level in Mega Litres (Million Gallons) ...	1,80,291.00 (39,660)	1,81,838.00 (40,661)	41,823 (9,200)	10,428.00 (2,294)	5,455.00 (1,200)
18	Highest levels above Town Hall Datum during the year in Metres (Feet).	163.16 (533.30)	127.75 (419.6)	71.31 (247.09)	137.10 (449.0)	59.55 (195.33)
19	Dates on which the highest level was reached	10-7-1972	18-9-1972	18-9-1972	13-9-1972	12-9-1972
20	Levels of the lowest outlets in Metres (Feet)	126.73 (416.88)	114.30 (375.00)	71.07 (230.50)	121.22 (397.75)	53.20 (175.00)
21	Lowest levels above T.H.D. reached during the year in Metres (Feet).	147.25 (483.10)	120.31 (394.72)	71.00 (232.95)	131.78 (433.36)	55.88 (183.34)
22	Dates on which the lowest levels were reached	1-7-1972	27-6-1972	19-6-1972	24-6-1972	20-6-1972
23	Contents of the lakes above the lowest outlets at the lowest level reached in Mega Litres (Million Gallons).	71,935.00 (15,54)	55,977.00 (12,203)	1,911.00 (427)	2,857.00 (627)	1,105.00 (243)
24	Lake levels above T. H. D. in Metres (Feet) on 1st October 1972.	161.80 (530.85)	127.15 (418.43)	75.11 (243.45)	136.86 (440.02)	59.32 (194.65)
25	Contents of the lakes above the lowest outlet in Mega Litres (Million Gallons) on 1st October 1972.	1,46,734.00 (37,273)	1,64,511.00 (36,193)	15,402.00 (3,383)	6,545.00 (1,600)	5,331.00 (1,166)
26	Quantity of water required to fill up the lakes, to full supply level from the lowest level reached in Mega Litres (Million Gallons).	33,553.00 (7,381)	20,302.00 (4,466)	26,876.00 (5,912)	3,892.00 (634)	155.00 (34)
27	Percentage run off into the lakes from the catchment as per rainfall registered at the lakes.	72.36	63.71	74.69	57.98	...
28	Quantity of water brought into the City and Suburbs including Extended Suburbs during the year in Mega Litres (Million Gallons)	1,91,874 (42,212)	1,19,317 (26,247)	9,356 (2,051)	6,227 (1,350)	...
29	Average quantity of water brought into the City and Suburbs including Extended Suburbs per day in Mega Litres (Million Gallons)	527 (116)	327 (72)	25 (6)	18 (4)	...
30	Total loss of water due to evaporation leakage and absorption in Mega Litres (Million Gallons) during the dry-period of 7 months.	63,893 (14,055)	61,898 (14,056)	5,442 (1,197)	1,532 (337)	...
31	Average loss of water per day due to evaporation and other losses during the dry months in Mega Litres (Million Gallons)	90 (19.6)	157 (35)	18.16 (4)	17.5 (2.3)	...
32	Total loss of water due to evaporation only in Mega Litres (Million Gallons) for 7 dry months of the year	7,001.00 (1,540.00)	12,651.00 (2,784.00)	31,149.00 (693.00)	702.00 (154.00)	...
33	Average loss of water per day due to evaporation only in mega Litres (Million Gallons) for the 7 dry months of the year	310 (7.00)	60.00 (13.00)	15.00 (3.00)	3.00 (0.72)	...

APPENDIX-II

Statement showing Evaporation Losses of different lakes during the year 1972-73

Month	Evaporation in Metres				Evaporation in Mega-Litres			
	Vaitarna	Tansa	Vihar	Tulsi	Vaitarna	Tansa	Vihar	Tulsi
April 1972	0.189 (0.2.0 ft.)	0.137 (0.447 ft.)	0.156 (0.513 ft.)	0.112 (0.335 ft.)	1237.68 (272.25 M.g.)	1,916.30 (421.54m.g.)	485.23 (106.72m.g.)	100.60 (22.13m.g.)
May 1972	0.220 (0.722 ft.)	0.171 (0.562 ft.)	0.196 (0.643 ft.)	0.137 (0.450 ft.)	1383.66 (305.47 m.g.)	2,220.60 (488.48m.g.)	565.06 (124.29m.g.)	111.28 (24.48m.g.)
June 1972								
July 1972								
August 1972		Not recorded			Not recorded.			
September 1972								
October 1972								
November 1972	0.105 (0.346 ft.)	0.104 (0.341 ft.)	0.105 (0.345 ft.)	0.106 (0.347 ft.)	833.65 (183.33 m.g.)	1,770.70 (389.51m.g.)	380.27 (83.65m.g.)	109.42 (24.06m.g.)
December 1972	0.108 (0.353 ft.)	0.110 (0.360 ft.)	0.107 (0.357 ft.)	0.113 (0.371 ft.)	850.51 (187.09m.g.)	1,779.42 (391.43m.g.)	38.85 (8.5 m.g.)	110.10 (24.22m.g.)
January 1973	0.032 (0.303 ft.)	0.099 (0.3.5 ft.)	0.102 (0.335 ft.)	0.013 (0.350 ft.)	708.10 (155.83 m.g.)	1,522.08 (334.82m.g.)	369.17 (81.21m.g.)	102.37 (22.52m.g.)
February 1973	0.115 (0.382 ft.)	0.108 (0.354 ft.)	0.103 (0.0338 ft.)	0.030 (0.2.6 ft.)	781.45 (17.90m g.)	1,561.04 (34.3)m.g.)	380.50 (83.70m.g.)	79.19 (17.42m.g.)
March 1973	0.180 (0.591 ft.)	0.138 (0.452 ft.)	0.155 (0.50.7 ft.)	0.114 (0.373 ft.)	1,203.95 (254.18 m.g.)	1,884.07 (414.4 m.g.)	580.79 (127.76m.g.)	89.37 (19.66m.g.)
Total—	1.00 (3.317 ft.)	0.67 (2.843 ft.)	0.926 (3.040 ft.)	0.782 (2.563 ft.)	7,001.33 (1,540.11 M.G.)	12,654.21 (2,783.62 M.G.)	3,148.84 (692.65 M.G.)	702.33 (154.49 M.G.)

Grand Total—23,506.68 Mega Litres (5,170.87 Million Gallons) in dry season (212 days) for all Lakes.

110.87 Mega Litres (24.39 Million Gallons) per day for all Lakes.

33.00 Mega Litres (7.25 Million Gallons) per day for Vaitarna.














59.68 Mega Litres (13.13 Million Gallons) per day for Tansa.

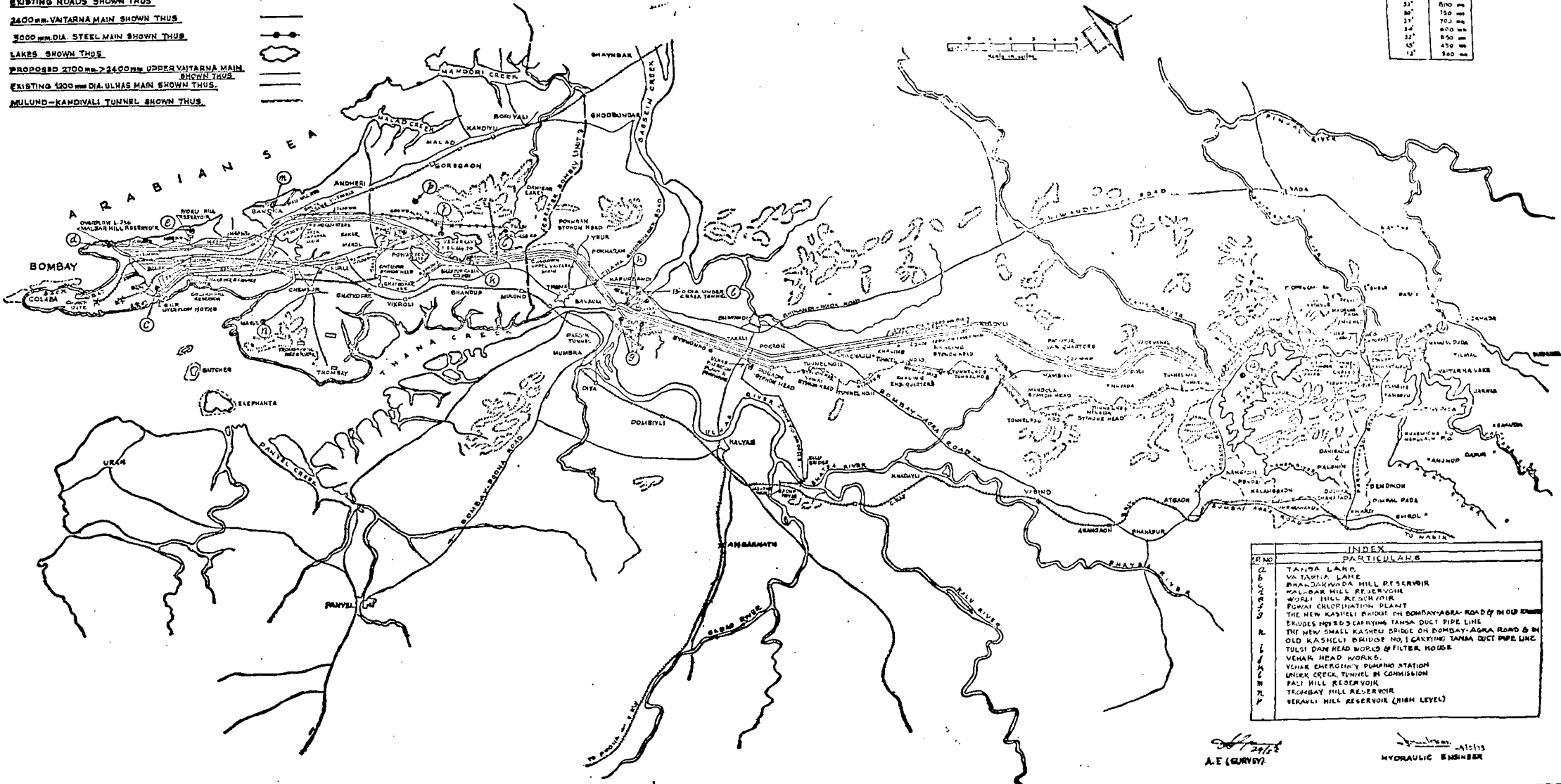
14.86 Mega Litres (3.27 Million Gallons) per day for Vihar.

3.27 Mega Litres (0.72 Million Gallons) per day for Tulsi.

LAKES & TRUNK MAINS PROVIDING WATER SUPPLY TO GREATER BOMBAY

NOTES.

- 2-1800 mm DIA. TANSA MAIN SHOWN THUS 
- MASONRY DUCT V. SYNTHON LINE SHOWN THUS 
- 600 mm DIA. VEHAR MAIN SHOWN THUS 
- 600 mm DIA. TULSI MAIN SHOWN THUS 
- HORSE SHOE SECTION C-71 8 METRES TUNNEL SHOWN THUS 
- TANSA-BELNALA ROAD SHOWN THUS 
- EXISTING ROADS SHOWN THUS 
- 2400 mm VATARNA MAIN SHOWN THUS 
- 3000 mm DIA. STEEL MAIN SHOWN THUS 
- LAKES SHOWN THUS 
- PROPOSED 2700 mm > 2400 mm UPPER VATARNA MAIN SHOWN THUS 
- EXISTING 1200 mm DIA. ULHAS MAIN SHOWN THUS 
- MULUND-KANDIVALI TUNNEL SHOWN THUS 

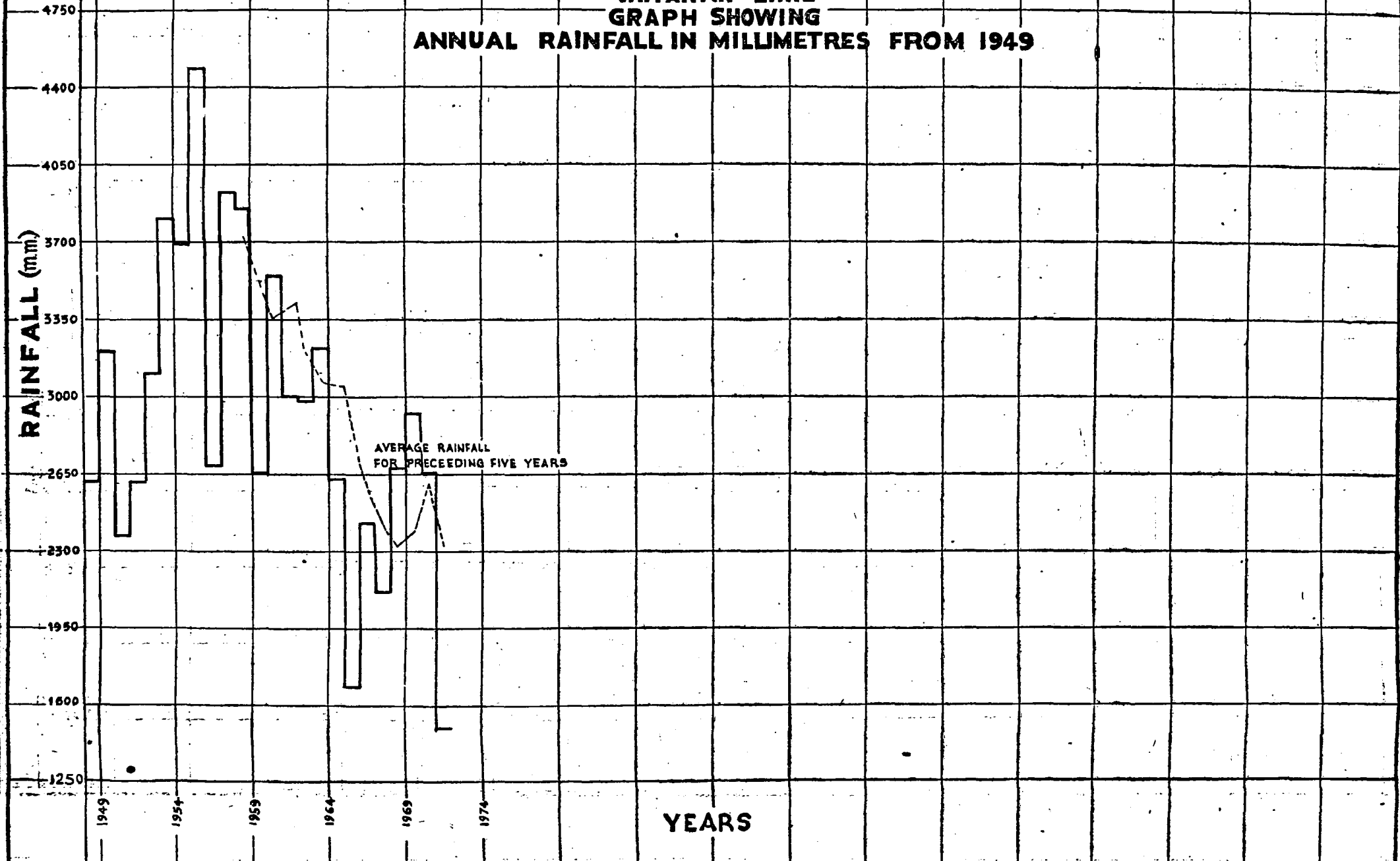


DIAMETERS IN METRES	DIAMETERS IN INCHES
120"	3000 mm
100"	2700 mm
96"	2400 mm
91"	2300 mm
87"	2200 mm
82"	2050 mm
78"	1950 mm
73"	1850 mm
69"	1750 mm
64"	1650 mm
60"	1500 mm
56"	1400 mm
52"	1300 mm
48"	1200 mm
44"	1100 mm
40"	1000 mm
36"	900 mm
32"	800 mm
28"	700 mm
24"	600 mm
20"	500 mm
16"	400 mm
12"	300 mm

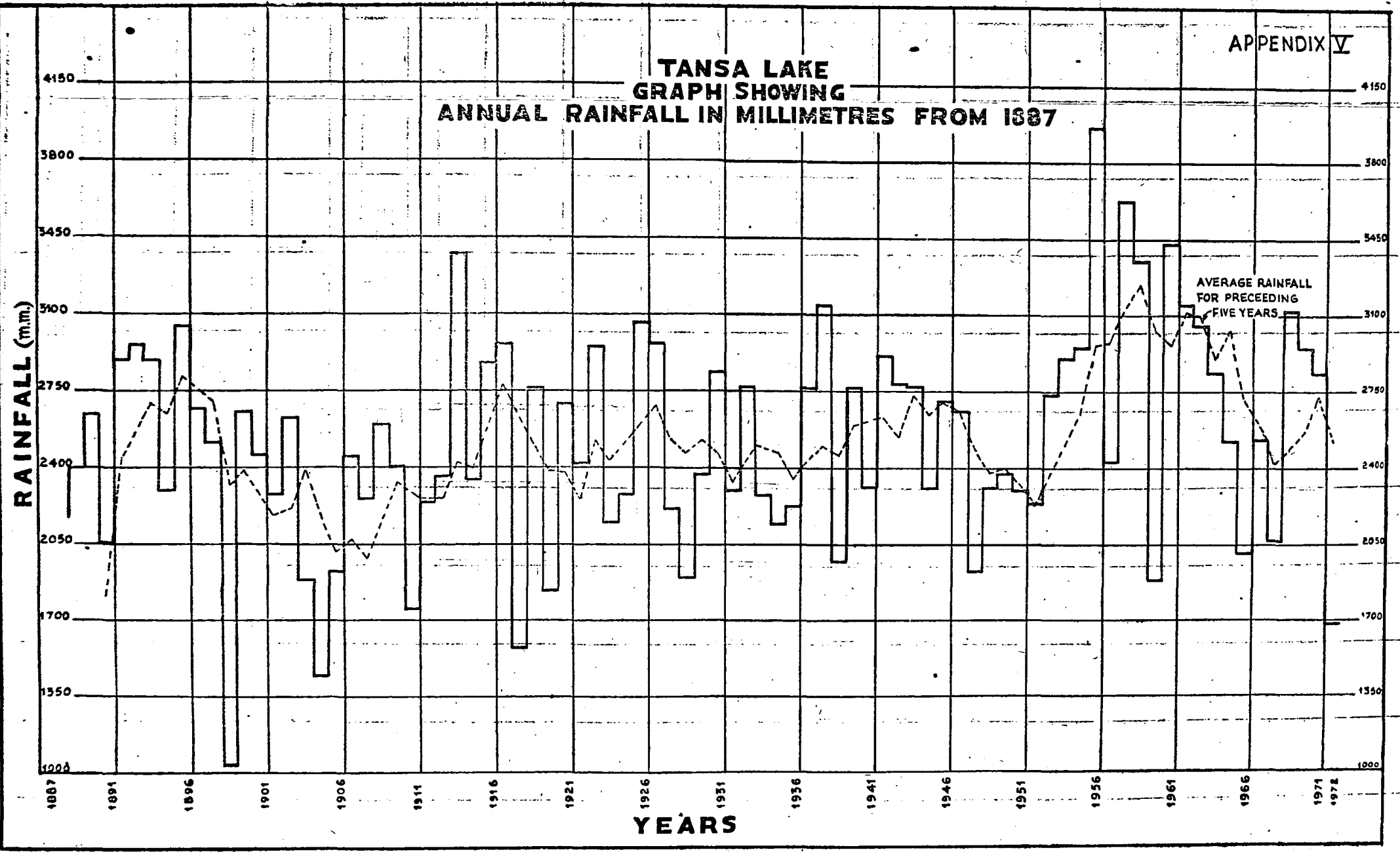
SR NO.	PARTICULARS
1	TANSA LAKE
2	VA TANTA LAKE
3	BRANDHWARA HILL RESERVOIR
4	MALAD HILL RESERVOIR
5	WORLI HILL RESERVOIR
6	POWER COORDINATION PLANT
7	THE NEW KASHIJI BRIDGE ON BOMBAY-AGRA ROAD @ MID. BRIDGE
8	BRIDGE @ MID. BRIDGE ON BOMBAY-AGRA ROAD @ MID. BRIDGE
9	THE NEW SMALL KASHIJI BRIDGE ON BOMBAY-AGRA ROAD @ MID. BRIDGE
10	OLD KASHIJI BRIDGE @ MID. BRIDGE ON BOMBAY-AGRA ROAD @ MID. BRIDGE
11	TULSI DAM HEAD WORKS & FILTER HOUSE
12	VEHAR HEAD WORKS
13	VEHAR EMERGENCY PUMPING STATION
14	UNKER CREEK TUNNEL IN COMMISSION
15	PALI HILL RESERVOIR
16	TRUMBAY HILL RESERVOIR
17	KEKAWLI HILL RESERVOIR (HIGH LEVEL)

A.E. (SIGNED)
HYDRAULIC ENGINEER

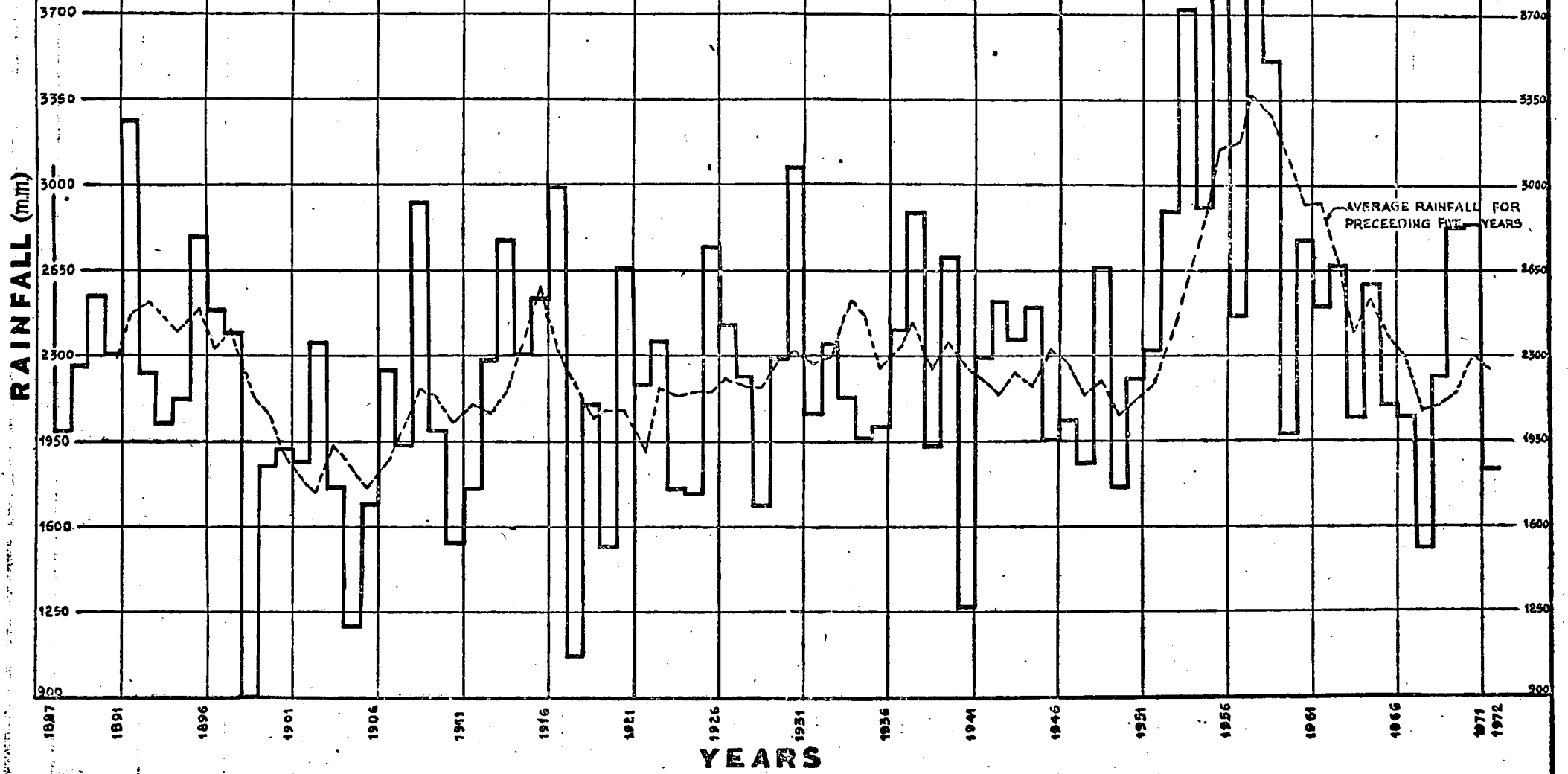
VAITARNA LAKE GRAPH SHOWING ANNUAL RAINFALL IN MILLIMETRES FROM 1949



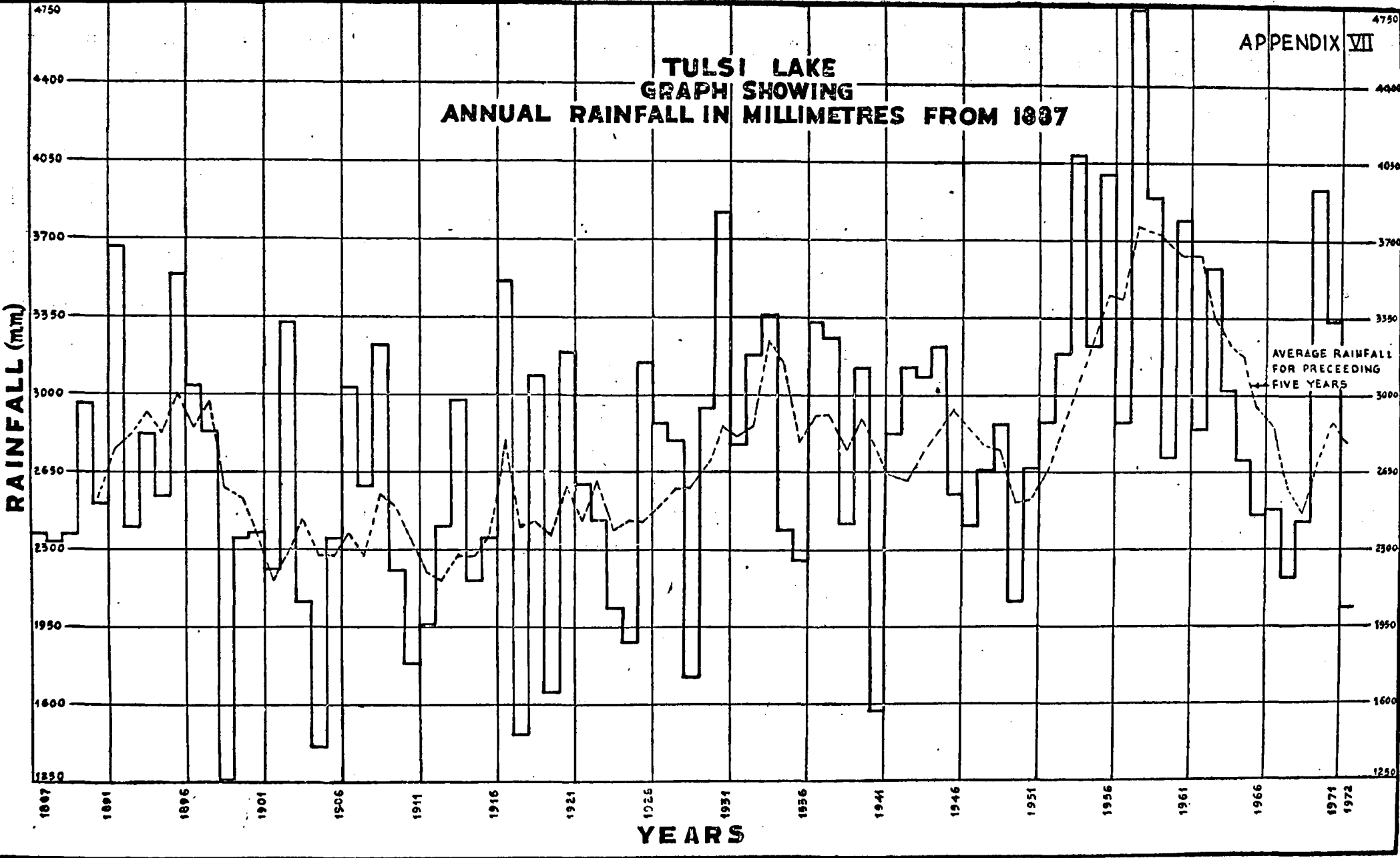
TANSA LAKE GRAPH SHOWING ANNUAL RAINFALL IN MILLIMETRES FROM 1887



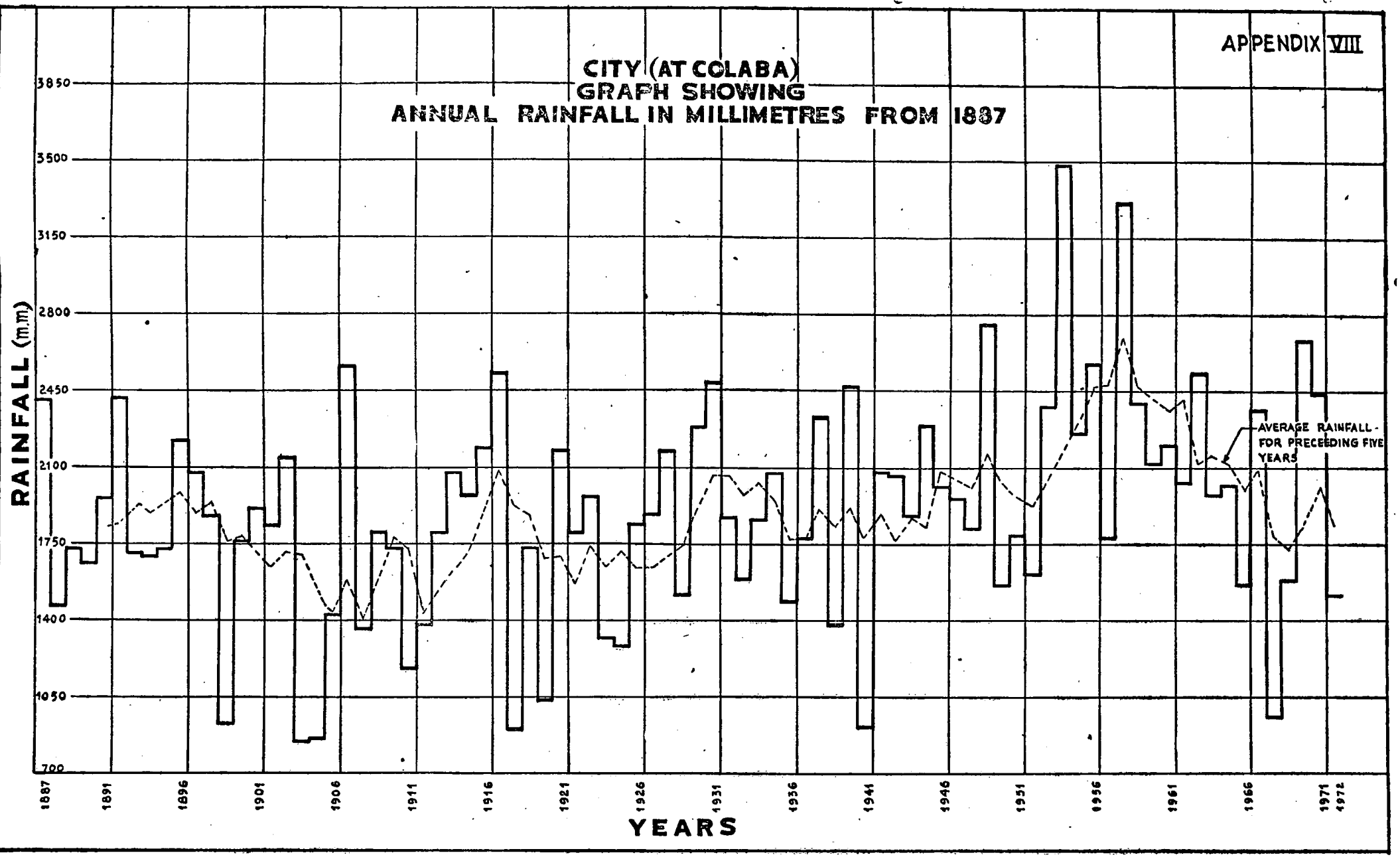
**VEHAR LAKE
GRAPH SHOWING
ANNUAL RAINFALL IN MILLIMETRES FROM 1867**



**TULSI LAKE
GRAPH SHOWING
ANNUAL RAINFALL IN MILLIMETRES FROM 1887**



**CITY (AT COLABA)
GRAPH SHOWING
ANNUAL RAINFALL IN MILLIMETRES FROM 1887**



APPENDIX IX

Supply Statistics (1972-73)

(1) Quantity of water supplied to the Greater Bombay during the year in Mega Litres	3,89,052.00 (85,600.00 M.G.)
(2) Quantity of water supplied to the City proper during the year in Mega Litres	2,27,765.17 (50,113.35 M.G.)
(3) Quantity of water supplied to the Greater Bombay during the previous year in Mega Litres...	4,25,956.45 (93,700.00 M.G.)
(4) Decrease over the previous year's supply in Greater Bombay in Mega Litres	36,822.28 (8,100.00 M.G.)
(5) Quantity of water supplied to the Thana Municipality, Nowpada and Kopri Colony in Mega Litres, not included in Item No. (1) above	7,775.00 (1,709.72 M.G.)
(6) Total quantity of water supplied to all concerns outside the limits of Greater Bombay, in Mega Litres including Item No. (5) above	17,309.00 (3,806.25 M.G.)
(7) Average daily supply during the year to City proper in Mega Litres...	624.03 (137.30 M.G.)
(8) Average daily supply during the year to Western Suburbs in Mega Litres	184.43 (40.58 M.G.)
(9) Average daily supply during the year to Eastern Suburbs in Mega Litres	157.26 (34.60 M.G.)
(10) Average daily supply during the year to Extended Suburbs West in Mega Litres	84.63 (18.62 M.G.)
(11) Average daily supply during the year to Extended Suburbs East in Mega Litres	15.54 (3.42 M.G.)
(12) Average daily supply during the year in Greater Bombay in Mega Litres	1,065.89 (234.52 M.G.)
(13) Decrease over previous year's average daily supply to Greater Bombay in Mega Litres	97.62 (21.48 M.G.)
(14) Estimated mid year (1972-73) population of City as given by Director of Public Health, Government of Maharashtra	30,97,000
(15) Do. Suburbs Do.	23,86,000
(16) Do. Extended Suburbs Do.	8,09,000
(17) Do. Greater Bombay Do.	62,92,000
(18) The maximum supply per day during the year on 6th November 1972 in Mega Litres	1,016.92 (223.70 M.G.)
(19) The minimum supply per day during the year on 12th December 1972, in Mega Litres	725.52 (161.80 M.G.)
(20) Total quantity of water conveyed by the two 1800 mm (72") dia and 2400 mm (96") dia mains during the year in Mega Litres including 58,589.26 M.L. (12,888.10 M.G.) tapped outside Greater Bombay and 17,309.00 M.L. (3,806.35 M.G.) tapped upstream of Powai Venturi at Mulund	3,28,521.00 (72,255.25 M.G.)
(21) Average quantity of water conveyed daily by the two 1800 mm. (72") and dia. 2400 mm. (96") dia. mains in Mega Litres	852.59 (187.55 M.G.)
(22) Total quantity of water transferred from Duct to Vehar in Mega Litres	7,037.00 (1,548.00 M.G.)
(23) Total quantity of water transferred (by pumping) from Ulhas River to Vehar in Mega Litres	7,612.00 (1,674.00 M.G.)
(24) Total quantity of water transferred from Vaitarna to Tansa in Mega Litres	Nil.
(25) Total quantity of water transferred from 2400 mm. (96") diam. main to Vehar in Mega Litres	Nil.
(26) Total quantity of water transferred from Upper Vaitarna to Vaitarna during the year in Mega Litres.	1,42,753.00 (31,712.00 M.G.)

APPENDIX IX—concl'd.

(27) Total quantity of water conveyed by the Duct during the year in Mega Litres	Nil
(28) Average quantity of water conveyed daily by the Duct in Mega Litres	Nil
(29) Total quantity of water conveyed by 1,200 mm. (48") dia. Vchar main during the year in Mega Litres	9,353.74 (2,057.60 M.G.)
(30) Average quantity of water conveyed by 1,200 mm. (48") diam. Vchar main during the year in Mega Litres	25.59 (5.63 M.G.)
(31) Total quantity of water conveyed by 600 mm. (24") diam. Tulsi main during the year in Mega Litres	6,226.14 (1,399.00 M.G.)
(32) Average quantity of water conveyed daily by 600 mm. (24") diam. Tulsi main during the year in Mega Litres	17.04 (5.63 M.G.)
(32) Quantity of water supplied for domestic purposes during the year to City in Mega Litres	1,41,544.75 (31,142.96 M.G.)
(34) Quantity of water supplied for domestic purposes during the year to the Suburbs in Mega Litres	78,017.83 (17,165.64 M.G.)
(35) Quantity of water supplied for domestic purposes during the year to the Extended Suburbs in Mega Litres	22,674.82 (4,993.36 M.G.)
(36) Quantity of water supplied for domestic purposes during the year to Greater Bombay in Mega Litres	2,42,257.40 (53,301.96 M.G.)
(37) Average quantity of water supplied for domestic purposes per head per day to the City in Litres	125.16 (27.54 gallons.)
(38) Average quantity of water supplied for domestic purposes per head per day to Suburbs in Litres	82.53 (19.70 gallons.)
(39) Average quantity of water supplied for domestic purposes per head per day to the Extended Suburbs in Litres	76.81 (16.90 gallons.)
(40) Average quantity of water supplied for domestic purposes per head per day to Greater Bombay in Litres	107.26 (23.60 gallons.)
(41) Average daily supply for all purposes per head per day to the City in Litres	171.25 (37.63 gallons.)
(42) Average daily supply for all purposes per head per day to the Suburbs in Litres	121.71 (26.78 gallons.)
(43) Average daily supply for all purposes per head per day to the Extended Suburbs in Litres	105.21 (23.15 gallons.)
(44) Average daily supply for all purposes per head per day to Greater Bombay in Litres	143.94 (31.68 gallons.)
(45) Percentage of water for domestic purposes to total supply in Greater Bombay	63.34
(46) Percentage of water supplied for other purposes to total supply in Greater Bombay	36.66

APPENDIX X

Statement showing the quantity of Municipal water used for different purposes during the year 1972-73 for City, Suburbs and Extended Suburbs.

Serial No.	Particulars	CITY			SUBURBS			EXTENDED SUBURBS			Remark
		Quantity in Mega Litres	Quantity in Million gallons	Percentage	Quantity in Mega Litres	Quantity in Million gallons	Percentage	Quantity in Mega Litres	Quantity in Million gallons	Percentage	
1	Milch Cattle Stables ...	4.09	0.90	0.00	1,310.25	288.12	1.04	33.49	73.33	0.92	
2	Other Stables ...	14.45	3.84	0.00	...	...	...	...	...	...
3	Textile Mills ...	20,194.43	4,440.79	8.88	1,105.43	243.08	0.88	32.52	7.15	0.09	
4	Dyeing, Printing Bleaching Mills ...	1,945.30	427.27	0.85	848.80	186.65	0.68	77.00	16.94	0.21	
5	Gymkhanas, Play Grounds, etc. ...	277.33	60.98	0.12	17.41	3.82	0.01	0.20	0.04	0.00	
6	Race Course ...	232.25	51.07	0.10	...	...	...	...	...	...
7	Industries ...	7,410.53	1,630.27	3.26	5,755.03	1,265.53	4.63	4,152.21	913.07	11.35	
8	Laundries and Dhobi Ghats ...	720.28	158.39	0.30	277.21	60.97	0.22	11.07	2.43	0.02	
9	Lodging and Boarding Houses ...	328.57	72.25	0.14	120.83	26.57	0.09	17.76	3.90	0.04	
10	Hotels ...	673.99	149.53	0.30	262.60	57.75	0.21	...	...	...
11	Restaurants ...	2,176.41	478.60	0.96	878.59	193.20	0.70	252.53	55.53	0.69	
12	Floor Mills ...	80.43	17.68	0.03	0.84	0.18	0.00	...	...	...
13	Private Hospitals ...	550.79	121.13	0.24	101.28	22.28	0.08	41.66	9.12	0.11	
14	Railways ...	7,292.36	1,603.60	3.22	3,384.29	744.20	2.72	439.94	96.74	1.20	
15	Bombay Port Trust ...	6,931.44	1,524.23	3.05	299.54	65.87	0.24	...	...	...
16	Private Markets ...	69.36	15.25	0.03	24.83	5.46	0.02	0.92	0.20	0.00	
17	Bakeries ...	96.27	21.17	0.04	72.99	16.05	0.05	12.84	2.82	0.03	
18	B. E. S. & T. Undertaking properties ...	754.59	165.94	0.35	116.10	25.53	0.09	192.18	42.26	0.53	
18A	B. S. E. S. properties ...	...	...	...	44.86	9.87	0.03	33.96	7.91	0.09	
19	Municipal Dhobighat ...	538.13	118.34	0.23	...	...	...	...	...	...
20	Cultivating lands ...	...	...	...	0.73	0.16	0.00	...	...	...
21	Construction Works (Metered) ...	68.11	14.99	0.02	300.57	65.09	0.24	150.87	33.17	0.42	
22	Construction Works (Unmetered Estimated) ...	1,698.62	373.54	0.74	1,998.30	439.42	1.60	806.55	177.36	2.21	
23	Aarey Colony & Worli Dairy ...	...	...	...	...	...	...	1,819.85	400.18	4.99	
24	Fertilizer Corporation ...	...	...	...	6,432.72	1,414.57	5.17	...	...	...
25	Refineries ...	...	...	...	2,083.60	458.18	1.67	...	...	...
Total supply for Industrial and Trade purposes ...		52,066.73	11,449.47	22.84	25,436.80	5,593.55	20.38	8,377.59	1,842.23	22.90	
26	Fire purposes ...	4.25	0.93	0.00	13.21	2.90	0.01	0.01	0.00	0.00	
27	Municipal Construction Works ...	13.63	3.00	0.00	225.75	49.65	0.18	0.45	0.10	0.00	
28	Road watering cleaning and cleansing and flushing gullies ...	Nil	Nil	...	Nil	Nil	...	Nil	...	...
28A	Municipal Markets ...	...	...	...	64.77	14.24	0.05	9.47	2.08	0.02	
Total Supply for Non-domestic purposes ...		52,084.61	11,453.40	22.85	25,740.53	5,660.34	20.62	8,387.51	1,844.41	22.92	
29	Domestic supply to City Suburbs, and Extended Suburbs										
(a)	Metered including residential ...	46,419.25	10,215.45	20.38	62,938.25	13,846.72	50.47	21,760.02	4,788.34	59.53	
(b)	Unmetered ...	95,106.57	20,927.51	41.77	17,356.99	3,818.92	13.91	931.81	205.02	2.55	
30	Assumed unaccounted losses such as leakage, bursts, de-watering of mains during construction and repairs works, unauthorised use of fire hydrants, ...	34,154.74	7,516.99	15.00	13,689.57	4,116.34	15.00	5,482.15	1,206.64	15.00	
Grand total ...		2,27,765.17	50,113.35	100.00	1,24,725.34	27,442.32	100.00	36,561.49	8,044.00	100.00	

Note 1 - The total quantity of water supplied to the City, Suburbs and Extended Suburbs, is, i.e. Greater Bombay was 4,25,956.45 Mega litrs. (93,700 M. G.).

APPENDIX XI

Details of the Hydraulic Gates in the Head Works Division

Place.	Where fitted.	Nos.	Type.	Size.	Maximum head of operation.
Vaitarna	... S ll ay	... 4	Tainter gates (Electrically operated).	12.19 Mts. × 7.93 Mts. (40' × 26')	8.08 Mts. 26.5 feet.
"	... Do.	... 4	Tainter Gates (Bouyancy operated).	"	7.74 Mts. 25.40 feet.
"	Under Sluices	... 2	Stoney gates (Main).	4.72 Mts. × 1.98M Mts. (15'-6" × 6'-6")	50.90 Mts. 167.00 feet.
"	Do.	1	Circulating rollers type.	5.91 Mts. × 1.98M Mts. (19'-6" × 6'-6")	Balanced load operation.
"	Intake Tower	... 1	Stoney gate. (Main).	3.96 Mts. × 1.98M Mts. (13'-0" × 6'-6")	37.17 Mts. 128.5 feet.
"	Do.	... 1	Circulating roller type (Emergency).	5.03 Mts. × 1.97 Mts. (16'-6" × 6'-5½")	Do.
Bell-nalla	... Bifurcation Chamber.	2	Do.	3.99 Mts. × 2.29 Mts. (13'-1¼" × 7'-6")	Do.
Tansa	Automatic Shutters (with concrete counterweights) spillway.	38	Automatic shutters	15.24 Mts. × 1.22 Mts. (50' × 4')	1.22 Mts. 4 feet.

APPENDIX—XII

Statistics of trunk mains embankments, culverts and bridges, etc.

Sr. No.	Description	Head Works—Division		Outside City Division Kilometres (Miles).	Ulhas Water Works Kilometres. (Miles).	Total Kilometres (Miles).
		Vaitarna Kilometers (Miles)	Tansa. Kilometers (Miles).			
(1)	Length of steel mains ...	0.30 (0.19)	58.74 (36.50)	61.60 (38.37)	168.60 (104.75)	571.94 (355.38)
(2)	Length of C. I. Mains ...	...	...	40.05 (24.88)	26.70 (16.58)	66.76 (41.46)
(3)	Length of Masonry duct ...	...	12.06 (7.50)	4.32 (2.67)	23.30 (14.47)	39.68 (24.64)
(4)	Length of Tunnels ...	6.22 (3.88)	3.04 (1.89)	0.90 (0.50)	3.60 (2.23)	12.86 (8.00)
(5)	Length of embankments ...	...	16.09 (10.00)	37.05 (23.00)	49.40 (30.68)	102.54 (63.68)
(6)	Length of Trolley Tracks...	...	16.09 (10.00)	41.20 (25.50)	52.40 (32.55)	109.69 (68.05)
(7)	Bridges and Culverts ...	2 Nos.	54 Nos.	182 Nos.	244 Nos.+1 No. = 245 Nos.	483 Nos.
(8)	Length of Ulhas Steel mains between Mohone and Pogaon ...	...	...	...	13.30 (8.25)	13.30 (8.25)

APPENDIX—XIII.

Statement showing Plant and Machinery maintained in various Divisions.

Serial No.	Particulars.	Works Division	Maintenance Branch City	Outside City Division	Head Works.	A.E.M. (Subs.)	Total.
1	2	3	4	5	6	7	8
1	Portable diesel driven welding set	...	1	2	...	5	8
2	Portable welding transformer	...	2	1	...	4	7
3	Portable arc-welding sets	...	6	6	...	...	12
4	Portable compressor unit	...	3	2	...	2	9
5	Garage air compressor	...	2	1	...	2	5
6	Portable 6" dewatering unit	...	3	1	...	2	9
7	Portable 2" pumping unit	...	4	5	...	1	10
8	Portable 3" pumping unit	...	3	4	5	11	23
9	Portable 4" pumping unit	...	4	6	2	1	13
10	Portable 6" Pumping unit	...	3	3	...	...	6
11	Portable lighting set	...	1	1	...	1	3
12	Portable generating set 75 KW (Diesel)	...	...	2	...	...	2
13	Portable concrete mixer	...	1	1	...	1	5
14	Sump pump Portable (Pneumatic)	...	1	1	...	2	4
15	Lathe machines	...	4	3	...	3	10
16	Battery charger	...	2	2	...	2	6
17	Radial drilling machine	...	1	1	...	1	3
18	Shaping machine	...	1	1	...	1	3
19	Electric Blower Unit for smithy... shop	...	1	1	...	1	3
20	Hack saw machine	...	1	1	...	...	2
21	Band saw machine	...	...	...	...	1	1
22	Pedestal drilling machine	...	1	1	...	...	2
23	Grinding machine (Bench type)	...	2	2	...	2	6
24	Flexible grinding machine (Portable)	...	1	1	...	1	3
25	Booster Pump (Electric)	...	33	1	...	1	35
26	Hydraulic Testing machine	...	3	...	...	...	3
27	Portable chlorination Plant	...	5	...	...	2	7
28	Pipe-cutting machine	...	8	...	...	2	10
29	Carpentry lathe	...	1	...	...	...	1
30	Multipurpose carpentry machine...	...	1	...	...	...	1
31	Mechanical forge hammer	...	...	1	...	...	1
32	Threading machine (Electrical)	...	2	...	...	...	2
33	Flow Recorder	...	1	...	...	...	2
34	Tool Grinder (Pneumatic)	...	...	...	...	1	1
35	Tool grinder (electric)	...	1	...	...	...	1
36	Heavy duty grinder	...	1	...	...	...	1
37	Plate bending machine	...	1	...	...	...	1
38	Power hammer	...	1	...	...	...	5
39	Paving beaker	...	5	...	...	8	12
40	Mechanical Jack hammer	...	4	...	...	...	2
41	Pile driver	...	2	...	...	...	2
42	Mobile crane	...	1	...	...	...	1
43	Bar bending machine	...	1	...	...	...	1
44	Concrete vibrator	...	3	...	1	...	4
45	Cement gun	...	2	...	...	...	1
46	Petrol driven motor trolleys	...	...	14	...	...	14
47	Diesel rail locomotives	...	...	2	...	...	2
48	Jeep	...	...	1	1	2	4
49	Out board petrol engine for boats	...	...	5	...	...	5
50	Boats for vehar, Powai & Tulsi ...	...	...	3	...	...	3
51	Diesel drive pumping unit 10 H.P.	...	...	1	...	...	1
52	Diesel driven pumping unit 20 H.P.	...	...	...	2	...	2
53	Diesel driven pumping unit 40 H.P.	...	...	...	2	...	2
54	Hydraulic trolley back 10 ton capacity	...	...	1	...	...	1
55	Hydraulic trolley back 5 ton capacity	...	...	2	...	...	2
56	Venturi recorder A. M. Type	...	1	...	...	...	1
57	Pumping unit for Vehar (40 H.P.)	...	...	1	...	...	1
58	Venturi meters	...	...	11	...	...	11
59	Pumping Unit diesel for vehar	...	...	2	...	...	2
60	Electric blower for switches	...	...	...	...	1	1
61	Transformer oil fitting equipment	...	...	...	...	1	1
62	Dilectric strength tester	...	...	...	...	1	1
63	500KVA, 22KV/440V power transformer	...	...	...	...	3	3
64	Rock drilling machine (pneumatic)	...	...	...	...	1	1
65	Portable generating set (Petrol) 1.5 K.W.	...	...	1	...	...	1
66	Portable generating set (Diesel) 3 K. W.	...	...	3	...	...	3
67	Time punching machine	...	...	1	...	...	1
68	Well cleaning unit	...	...	...	...	1	1
69	Truck	...	...	...	...	...	...
70	(a) Welding Set (Diesel) (b) Welding Set (Elect.)	...	...	...	1 2	...	1 2
71	Road roller 10T	...	...	...	1	...	1
72	Tunnel Inspection vehicle	...	...	...	1	...	1
73	Water cooler	...	...	...	...	1	1
74	Electrically driven Kirloskar pumping unit	...	3	...	...	...	9

APPENDIX XIV.

Statement showing the details of bursts of mains on 600 mm. (24") and above in City, Suburbs, and Ext. Suburbs.

Serial No.	Date	Site	Ward	Size of main.
1	27-4-1972	Netaji Subash Road Opp. Keval Mahal Building	... A	1200 m. m. (48") New joint leak.
2	6-5-1972	Opp. Children's home Jail Road (North)	... B	600 m. m. (24")
3	28-12-1972	Near Babulnath Market at Dady Sheth Road.	... D	800 mm. (32") main.
4	27-4-1972	Senapati Bapat Marg, Jn. Elphinstone Road.	... C/S	1450 mm. (57") west main.
5	27-7-1972	Vileparle East along Western Highway.	... K	750 mm. (30")
6	21-1-1973	Vileparle, Western Express Highway.	K	750 mm. (30")
7	30-3-1973	At the junction of S. V. Road, Vileparle West.	K	600 mm. (24")
8	11-9-1972	Along L. B. Shastri Marg Vikhroli, Opp. Vikas Metal Works.	N	600 mm. (24") Prestressed cement pipe.
9	16-12-1972	Dattapada Road Bhandup	T	600 mm. (24")
10	23-12-1972	Along L. B. Shastri Marg at Bhandup Opp. Iswan Co-op. Society.	T	600 mm. (24")
11	26-12-1972	Opp. Guest Keen Williams along with L.B.S. Marg Bhandup.	T	600 mm. (24")
12	26-10-1972	Near Shastri Nagar Opp. Air Port, Vile-parle East.	K	750 mm. (30")
13	21-1-1973	Western Express Highway Vileparle (East).	K	750 m. m. (30")
14	10-2-1973	Near Rama Krishna Ashram at South Avenue Road Junction - West Avenue Road Khar (West).	H ...	600 mm. (24") Santacruz outlet.
14	10-2-1973	Near Rama Krishna Ashram at South Avenue Road Junction - West Avenue Road Khar (West).	H ...	600 mm. (24") Santacruz outlet.
15	12-2-1973	Western Express Highway Opp. Shastri Nagar Vileparle (East).	... K	750 mm. (30") Varavli Hill Reservoir outlet.
16	8-8-1972	Malad in front of Shankar Temple.	... P	600 mm. (24")
17	12-12-1972	At Akrauli Road Kandivli East.	... P	600 m. m. (24")
18	12-2-1973	Along Western Express Highway near culvert Southern end of Vileparle East.	K	750 M.M. (30")
19	5-9-1972	Near Shankar Temple Malad West.	... P	600 mm. (24")
20	11-11-1972	At Kandivli Railway Yard at the Shunting side south end and on Eastern side.	... P	600 mm. (24")
21	15-6-1972	Kilachand Road. Kandivli	... P	600 mm. (24")
22	22-6-1972	Akurli Road Kandivli (East) Opp. Greaves Creighton.	... P	600 m.m. (24")
23	18-7-1972	Kilachand Road Kandivli	... P	600 m. m. (24")
24	11-9-1972	Opp. Indian paper Mill Lal Bahadur Shastri Marg, Vikhroli.	N	600 mm. (24")
25	24-10-1972	Kilachand arm of the tunnel Kandivli.	... P	600 mm. (24")
26	14-11-1972	Western Express Highway Kandivli (East).	P	900 mm. (36")
27	16-10-1972	Mahadevbhai Desai Road Kandivli (East)	... P	600 mm. (24")
28	16-12-1972	Jangal Mungal Road Bhandup.	T	600 mm. (24")
29	22-12-1972	Opp. Deua Bank, Station Road Junction Lal Bahadur Shastri Marg, Bhandup.	T	600 mm. (24")
30	16-12-1972	Near Mangatram Petrol Pump, Lal Bahadur Shastri Marg, Bhandup.	T	600 mm. (24")
31	27-1-1973	Kandivli (East)	P	600 mm. (24") Kilachand arm of the tunnel.
32	17-3-1973	Shankar Temple, Swami Vivekanand Road, Malad (West).	P	600 mm. (24")

APPENDIX XV-A

List of Municipal Booring Stations in City, Suburbs and Extended Suburbs.

Serial No.	Site	No. of Pumps	Horse Power of Pumps.
1	Worli Koliwada	1	54 H.P. Diesel.
2	Fosbery Road (Near 'L' Shed) ...	1	75 H.P. Electric.
3	N. M. Joshi Marg	1	100 H.P. Electric.
4	B. D. D. Chawl (N. M. Joshi Marg).	3	25 H.P. Each (Total 75).
5	5th Pasta Lane	4	2 Nos. 40 H. P. Each. 2 Nos. 50 H. P. Each.
6	Hill Road Pumping Station, Bandra ...	2	40 H.P. Each Electric.
7	Pali Hill Pumping Station Bandra ...	3	60 H.P. 2 Nos. Electric. 25 H.P. 1 No. Electric.
8	Juhu Vileparle Development Scheme Pumping Station, Juhu.	2	50 H.P. Each Electric.
9	Guzdar Hall pumping Station, Andheri ...	2	50 H.P. each Electric.
10	Dadabhai Pumping Stn. Versova Rd. Andheri.	2	25 H.P. each Electric.
11	Tel'y Gully pumping Stn. Andheri ...	2	25 H.P. each Electric.
12	Caves Road Pumping Stn. Jogeshwari ...	1	40 H.P. Electric.
13	Majaswadi Pumping Station, Jogeshwari ...	1	30 H.P. Electric.
14	Kunj Niwas, Pumping Station, Jogeshwari ...	1	13 H.P. Electric.
15	Sidharth Negar Pumping Stn. Goregaon ...	2	90 H.P. Each Electric.
16	Quarry Road, Pumping Station, Malad ...	2	25 H.P. Each Electric.
17	Zakeria Road Pumping Station, Malad ...	2	25 H.P. Each Electric.
18	Pushpa Park Pumping Station, Malad ...	1	25 H.P. Electric.
19	Sainath Pumping Station, Malad ...	2	50 H.P. Each Diesel Engin.
20	Malavani Pumping Station, Malad ...	2	50 H.P. Each Electric.
21	Anik Village Pumping Station, Chembur ...	2	6 H.P. Each Diesel Engin.
22	Ghatla Pumping Station, Chembur ...	2	90 H.P. Each Electric.
23	Sindhi Colony Pumping Station, Chembur ...	3	15 H.P. 2 Nos. Electric, 25 H.P. 1 No. Electric.
24	Janata Colony Pumping Station, Deonar ...	2	25 H.P. Each Electric.
25	Deonar Pumping Station, Deonar Colony ...	2	40 H.P. Each Electric.
26	Chunabhatti Pumping Station, Kurla ...	2	25 H.P. Each Electric.
27	Kurla Market Pumping Station, Kurla ...	2	25 H.P. Each Electric.
28	Rifle Range Pumping Station, Chatkopar ...	2	40 H.P. Each Electric.
29	Barve Negar Pumping Station, Chatkopar ...	2	40 H.P. Each Electric.
30	Parkside Colony, Pumping Station, Vikhroli...	2	40 H.P. Each Electric.
31	Shiv Tekadi, Jogeshwari. ...	1	10 H. P.

APPENDIX XV-B

List of Municipal Bulk Pumping Stations in Outside City and Ulhas Divn.

Serial No.	Site	No. of Pumps	Horse Power of Pumps.	
1	Vehar Pumping Station ...	170 H.P. 15 H.P. 120 H.P. 100 H.P. 80 H.P. 210 H.P. 160 H.P.	1 Electric. 3 " 3 " 2 " 3 " 2 Diesel. 6 "	170 H.P. 405 H.P. 360 H.P. 200 H.P. 240 H.P. 420 H.P. 960 H.P.
		20 Pumps	2755 H.P.	
2	Mohone Pump House, Ulhas River	250 H.P.	10 Electric.	2000 H.P.
3	Pogaon Pump House ...	250 H.P.	10 Electric.	2500 H.P.

APPENDIX XVI

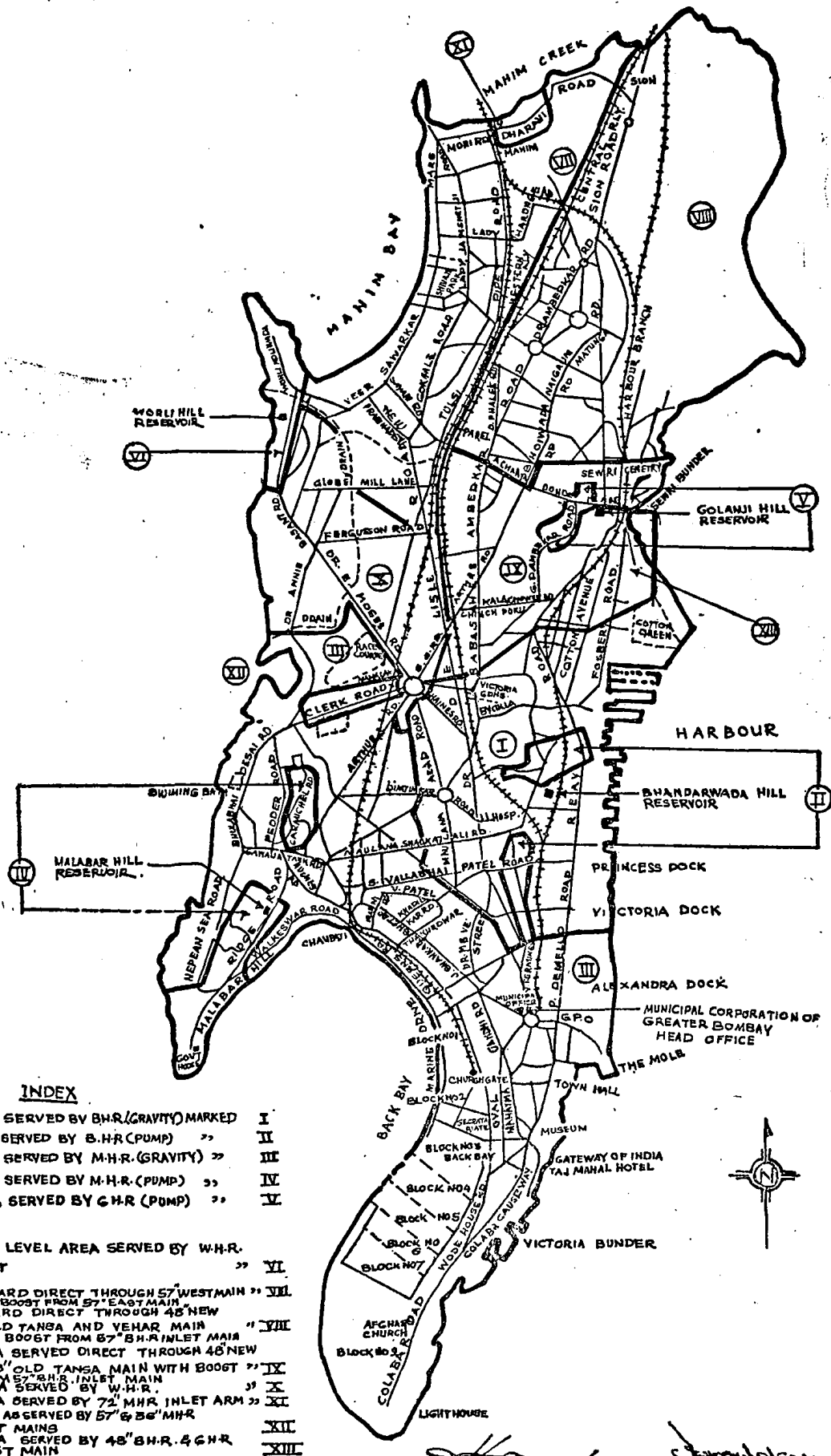
Statement of water Connections of different Sizes made during the year in City, Suburbs & Extended Suburbs.

SIZE OF CONNECTIONS

Ward	15 mm. (1/2")		20 mm. (3/4")		25 mm. (1")		30 mm. (1 1/4")		40 mm. (1 1/2")		50 mm. (2")		80 mm. (3")		100 mm. (4")		150 mm. (6")		Total			
	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered		
A	44	7	21	29	46	42	48	5	21	35	7	21	...	7	...	2	...	224	111			
B	21	13	7	58	4	67	...	5	7	1	3	...	...	...	...	...	...	42	144	
C	28	24	10	131	9	190	...	8	1	5	4	2	...	...	...	...	...	52	360	
D	65	54	28	110	43	124	...	9	32	10	18	12	1	...	...	...	...	184	319	
E	23	14	5	73	8	116	...	11	19	11	3	...	3	...	3	...	1	...	65	225		
F/South	35	9	10	22	14	59	...	12	2	2	...	2	4	...	...	...	...	65	106	
F/North	34	52	37	28	17	17	...	...	11	4	2	...	...	...	...	...	...	101	101	
G/South	28	28	16	27	20	37	6	28	8	4	2	...	...	...	...	...	...	80	124	
G/North	45	47	29	93	48	109	16	10	13	4	2	5	...	...	...	...	...	153	268	
Total for City	323	248	163	571	206	761	70	88	93	62	69	28	29	...	10	...	3	...	966	1,758		
H	110	69	84	5	43	...	18	...	7	...	1	...	1	...	...	...	...	264	74	
K	423	85	115	42	39	6	47	3	6	...	2	...	3	...	...	...	...	635	136	
L	114	42	47	1	13	5	...	...	11	...	2	...	...	...	1	...	2	...	190	48
M	51	207	7	34	3	9	1	5	...	3	...	...	...	1	...	...	...	62	259	
N	190	63	55	1	34	...	...	...	16	...	6	...	1	...	...	...	1	...	303	64
Total for Suburbs	889	466	308	83	132	20	66	8	40	3	11	...	5	1	1	...	3	...	1,454	581		
P	224	22	90	...	24	...	...	...	23	...	...	...	...	...	...	...	...	...	361	22
R	97	36	49	10	16	3	...	...	18	2	16	...	...	...	1	...	1	...	198	51
T	161	32	52	2	20	...	8	...	...	...	...	...	1	...	1	...	...	...	243	34
Total for Ex. Suburbs	482	90	191	12	60	3	8	...	41	2	15	...	1	...	2	...	1	...	802	107		
Grand Total	1,693	804	662	666	398	764	144	96	174	67	96	23	35	1	13	...	7	...	3,222	2,446		
																			All Total		5,668	

226

ZONES OF WATER SUPPLY



INDEX

- 1 AREA SERVED BY B.H.R.(GRAVITY) MARKED I
- 2 AREA SERVED BY B.H.R.(PUMP) " II
- 3 AREA SERVED BY M.H.R.(GRAVITY) " III
- 4 AREA SERVED BY M.H.R.(PUMP) " IV
- 5 AREA SERVED BY G.H.R.(PUMP) " V

- 6 HIGH LEVEL AREA SERVED BY W.H.R. INLET " VI
- 7 G WARD DIRECT THROUGH 57" WEST MAIN " VII
- 8 F WARD DIRECT THROUGH 48" NEW & OLD TANGA AND VEHAR MAIN WITH BOOST FROM 67" B.H.R. INLET MAIN " VIII
- 9 AREA SERVED DIRECT THROUGH 48" NEW & 48" OLD TANGA MAIN WITH BOOST " IX
- 10 AREA SERVED BY W.H.R. " X
- 11 AREA SERVED BY 72" M.H.R. INLET ARM " XI
- 12 AREA AS SERVED BY 57" & 36" M.H.R. INLET MAINS " XII
- 13 AREA SERVED BY 48" B.H.R. & G.H.R. INLET MAIN " XIII

PREPARED BY G.V. Kulkarni

[Signature]
29/5-67
A. E. SURVEY

[Signature]
HYDRAULIC ENGINEER

APPENDIX NO. XVIII

Statement showing Water supply timings in City, Suburbs and Extended Suburbs

Serial No.	Ward	Locality	Hours of Supply
1	A	(a) Colaba and areas South of Museum ...	5-30 P.M. to 7-30 P.M.
		(b) Fort and areas North of Museum ...	8-30 P.M. to 10-30 P.M.
	(c) Netaji Subhash Road, Churchgate and Backbay area ...	7-30 P.M. to 10-30 P.M.	
	(d) Supply to Military area, Colaba ...	1-30 A.M. to 4-15 P.M. (High Pr.)	
			9-00 A.M. to 10-30 A.M. (Low Pr.)
			(e) Saboo Siddique Road, Musafarkhana Road ...	6-00 P.M. to 8-00 P.M.
		(f) Backbay Reclamation ...	1-00 A.M. to 2-30 A.M.
2	B	(a) Dengri areas ...	3-45 A.M. to 6-45 A.M. & 6-00 P.M. to 7-00 P.M.L.P.
		(b) Umerkhandi areas including Dr. Maheshwari Road and Mavji Rathod Road ...	8-30 P.M. to 11-30 P.M.
		(c) Mohammdali Road, Pydhoni, Imamwada, Abul Rehman, Stt., Babula Tank Road areas, etc. ...	5-00 A.M. to 6-45 A.M.
		(d) P. D'Mello Road, Sant Tukaram Road and areas East of Central Railway Line ...	6-00 P.M. to 8-00 P.M. & 5-30 A.M. to 6-30 A.M. 3-30 P.M. to 6-00 P.M. (Low Pr.)
		(e) Mandvi ...	4-00 A.M. to 6-45 A.M.
	C	(a) Kalbadevi, Dhobi-talao, Kharatalao, Shamaldas Gandhi Marg (Princess Stt.), Fanaswadi, Kumbharwada and Chitara Bazaar areas ...	5-00 A.M. to 6-45 A.M. 8-15 P.M. to 10-30 P.M.
		(b) Portion of Netaji Subhash Road (Backbay supply) ...	
	D	(a) Gamdevi Girgaum, Thakurdwar, Prarthana Semaj, Khetwadi, Tardeo, Maulana Saikatali Road, Nausahir Bharucha Marg, Dr. Dadarabhai Bhadkamkar Marg, Sukhlaji Street areas and August-Kranti Marg, (Gowalia Tank Rd.) upto Bus Terminus ...	5-00 A.M. to 6-45 A.M.
		(b) Tardeo, Nausahir Bharuch Marg ...	5-00 P.M. to 7-00 P.M.
		(c) Haystack Road, Keshavrao Khadye Marg (Clerk Road) from Mahaluxmi Bridge to Haji Ali ...	4-00 A.M. to 7-00 A.M. & 5-45 P.M. to 7-15 P.M.
		(d) Raghooji Road ...	4-30 A.M. to 8-00 A.M.
		(e) Forjett Street & August-Kranti Marg (Gowalia Tank Rd.) from Terminus upto East of Kemp's Corner ...	5-00 A.M. to 8-00 A.M.
		(f) Forjett Hill Road ...	8-00 A.M. to 10-00 A.M.
		(g) Walkeshwar Road from Sital Brug to Teen Batti, Dongersi Road, Jamnadas M. Mehta (Harkness) Road, Manav Mandir Road & Winter Road. ...	7-30 A.M. to 1-00 P.M.
		(h) Walkeshwar Road from Teen Batti to Raj Bhavan, Upper Banganga & Raj Bhavan ...	1-00 P.M. to 4-00 P.M.
		(i) Lower Banganga Tank side ...	4-00 P.M. to 7-00 P.M.
		(j) B. G. Kher Marg (Ridge Road) ...	7-30 A.M. to 7-00 P.M.
		(k) Mount Pleasant Road, L. D. Ruparel Marg (Napean Road) and Little Gibbs Road ...	1-00 A.M. to 7-00 P.M.
		(l) Poonai Road ...	
		(m) Altamount Road	
		(i) South Zone ...	5-00 P.M. to 8-30 P.M.
	(ii) Middle Zone ...	8-30 P.M. to 11-00 P.M.	
	(iii) North Zone ...	11-00 P.M. to 1-00 A.M.	
(n) Dr. Gopalrao D. Shimukh Marg (Peddar Road) and August Kranti Marg (Gowalia Tank Rd.) West of Kemp's Corner and part of Sitaram Patkar Marg (Hughes Road) ...	6-30 P.M. to 7-30 P.M. (Low Pr.) 7-30 P.M. to 1-00 A.M. (High Pr.)		
(o) Laxmibai Jagmohandas Marg (Napean Sea Road), Narayan Dabholkar Road and Dr. Bhagwandas Indrajit Road. ...	6-30 P.M. to 1-00 A.M.		
(p) Bhulabhai Desai Road ...	7-30 P.M. to 1-30 A.M.		
(q) Carmichael Road (with boost from 12" Raghooji Outlet from 1 A.M. to 3 A.M. ...	6-30 P.M. to 3-00 A.M.		
(r) Siri Road, Babulnath Road areas ...	5-30 A.M. to 8-30 A.M.		
5	E	(a) Kamatipura, Byculla (West), Nagpada, Sardar Balwantsingh Dhondi Marg, (Nesbit Road), St. Mary Road, N. M. Joshi Marg, Sane Guruji Road (Arthur Road), Dr. Anandrao Nair Road, Maulana Azad Road and Chinchpokli areas, Dr. Ambedkar Road from Veer Mata Jijabai Bhosale Udyan (Victoria Garden) to Byculla Bridge. ...	5-00 A.M. to 6-45 A.M. & 7-50 P.M. to 8-00 P.M. (Low Pr.)
		(b) Dr. Ambedkar Road from Dattaram Lad Marg (Kala-Chowky Road) to Veer Mata Jijabai Bhosale Udyan Victoria Garden) and Ulster Road ...	5-00 A.M. to 6-45 A.M.
	(c) Matharpakhadi areas ...	4-00 A.M. to 6-45 A.M.	
	(d) Belvedere Road and its cross lane and Kachhi Lohana Chawl along Shivdas Champsy Marg. (Mazagaon Road) ...	12-30 P.M. to 3-00 P.M.	
	(e) Motishaw lane and Hathi Baug areas ...	3-00 P.M. to 5-30 P.M.	
	(f) Reay Road from junction Wadi Bunder Road to Matarpakhadi Road, D'Lima Street, Dockyard Road, Gunpowder Road & Nawab Tank Road areas ...	3-00 P.M. to 6-30 P.M. 1-00 P.M. to 3-00 P.M.	

APPENDIX NO. XVIII—Contd.

Serial No.	Ward	Locality	Hours of Supply
		(g) Remaining areas of Reay Road ...	6-00 P.M. to 8-00 P.M. & 5-00 A.M. to 6-45 A.M. (Low Pr.)
		(h) Victoria Road, E. S. Patanwalla Marg, (Connought Road), Rambhau Bhogle Marg (Gorupdeo Road), Sussex Road ...	6-00 P.M. to 10-00 P.M.
		(i) Dr. Mascarenhas Road (Mount Road) and Champsai Bhimji Road ...	6-00 P.M. to 8-00 P.M.
6	F/S	(a) Dr. Ambedkar Road from Parel T. T. to Dattaram Lad Marg (Kalachowky Road), Lalbaug, Dr. S. S. Rao Road and Kalachowky areas ...	4-00 A.M. to 6-45 A.M.
		(b) Naigaum, Bhoiwada and Sewree-Wadala areas (Boost to Bhoiwada is given from 10 A. M. to 11.30 A. M. from Golanji Hill Reservoir) ...	6-45 A.M. to 11-30 A.M.
		(c) Golanji Hill, Parel Back Road and Parel Village areas including 2nd October Colony and Ambedkar Nagar (Golanji Hill Reservoir Pump Supply). ...	4-45 P.M. to 7-00 P.M.
		(d) G. D. Ambedkar Marg (Parel Tank Road) from Bhagwantrao Parulkar Marg (Parel Village Road) to Ambewadi ...	8-00 P.M. to 10-00 P.M.
		(e) Tokarsi Jivraj Road, Sewree Cross Road, Sewri Koliwada areas and Fosbury Road from Haji Bunder Road to I. C. I. Laboratory building including Messrs. Hindustan Lever Ltd. Company. ...	4-00 P.M. to 9-00 P.M.
		(f) Cotton Green, Signal Hill Avenue Road and Haji Bunder Road areas. (Fosbury Pump-Vaitarna supply) ...	4-30 P.M. to 8-30 P.M. & 8-30 P.M. to 10-30 P.M. (Low Pr.)
7	F/N	(a) Sion, Matunga, Wadala, Parsi & Hindu Colonies ...	6-45 A.M. to 11-00 A.M.
		(b) Antop Hill areas (Vaitarna supply) ...	7-30 A.M. to 11-30 A.M.
		(c) Special supply for L.P.T. Wadala areas ...	11-30 A.M. to 7-00 P.M.
8	G/S	(a) Worli B. D. D. Chawls, Lower Parel, Love Grove and Prabadevi areas ...	4-15 P.M. to 6-45 P.M.
		(b) N. M. Joshi Marg between junction Sane Guruji Road and Curry Road Bridge ...	4-00 A.M. to 7-00 A.M.
		(c) Worli Koliwada (Vaitarna Pump Supply)	
		(i) High level areas ...	9-30 P.M. to 11-30 P.M.
		(ii) Low level areas ...	5-00 P.M. to 9-30 P.M. & 4-15 P.M. to 6-45 P.M. (Low Pr.)
		(d) Pochhanawala and Abdul Gafarkhan Road areas ...	6-30 P.M. to 10-30 P.M.
		(e) B. D. D. Chawls, N. M. Joshi Marg (57' East Main Supply)	
		(i) Masjid Gully & Central Gully ...	3-00 A.M. to 4-30 A.M. (Direct) & 4-30 A.M. to 6-00 A.M. (Pump)
		(ii) Police Gully ...	6-00 A.M. to 7-30 A.M. (Pump) & 7-30 A.M. to 8-00 A.M. (Direct)
		(f) Worli Dairy ...	24 hours low pr. supply.
		(g) Worli Hill areas near Worli Dairy. (From 12" Worli Dairy outlet of W.H.R.) ...	12 Noon to 3-30 P.M.
9	G/N	(a) Mahim, Shivjai Park and Dadar areas west of Western Railway lines ...	12-30 P.M. to 1-45 P.M. (Low Pr.) & 1-45 P.M. to 3-45 P.M. (High pr.)
		(b) Areas between Soyani Road and Rao Bahadur S. K. Bole Rd. (Portuguese Church Street) ...	4-15 P.M. to 6-45 P.M.
		(c) Dharavi (West) areas (Vaitarna supply)	
		(i) Jasmine Mill areas, Diamond Gas Co. & Municipal Colony areas ...	4-30 A.M. to 7-00 A.M.
		(ii) Dharavi Road upto Kala Killa ...	7-00 P.M. to 9-00 P.M.
		(iii) Dharavi Cross lane and Kumharwada areas ...	5-00 P.M. to 7-00 P.M.
		(d) Dharavi (East) area (Vehar supply) ...	7-00 A.M. to 10-00 A.M.
		(e) Matunga Labour Camp areas including Central Rly. Workshop areas (Vaitarna Supply) ...	5-00 A.M. to 11-00 A.M.

APPENDIX NO. XVIII—Contd.

Serial No.	Ward	Locality	Hours of Supply From To
10	H	(a) Bandra Hill (i) Mount Mary Road, Byramji Jeejibhoy Road, Bullock Road, Kane Road ...	6-00 A.M. to 11-30 A.M. (Pump)
		(ii) Society Road, Chappel Road, Cemetery Road, John Baptista Road, St. Sabastinan Road and Rebello Road ...	6-00 P.M. to 11-30 P.M. (Direct)
		(b) Pali Hill areas (Pali Hill Reservoir Pump Supply) ...	6-00 P.M. to 11-00 A.M. (Pump)
		(c) Special supply to Road No. to 5 Khar ...	4-30 A.M. to 7-30 A.M. (13" Tapping of Khar Pali tapping)
		(d) Colonies on the East of Western Express Highway ...	7-00 P.M. to 3-00 A.M.
		(e) Remaining areas of 'H' Ward ...	7-00 P.M. to 4-00 A.M.
		(f) Special supply to Kalina Village areas ...	4-30 A.M. to 7-30 A.M.
11	K	(a) Gazdar Hall Pump (18" Salsette main supply) (i) Cama Road & part of Gilbert Hill ...	10-00 A.M. to 2-00 P.M.
		(ii) S. V. Road from Gazdar Hall to Vevaina Bldg., V. P. Road (Andheri-West) ...	6-00 A.M. to 10-00 A.M.
		(b) Baptista Wadi, Mapla Dongri & East of Express Highway, off Parsi Panchayat Road, Shankar Wadi, elevated areas of Gundavli Village (Andheri East) and Shamshan Tekri of Jogeshwari (East) ...	9-00 P.M. to 4-00 P.M.
		(36" Vile Parle outlet-Veravali Outlet)	
		(c) Caves Road pump (18" Caves Road Main Veravali supply) (i) H. F. Society, Natwar Nagar (Jogeshwari East) ...	8-00 A.M. to 1-00 P.M. (Pump)
		(ii) Hardevibai Society, Caves Road (Jogeshwari East) ...	10-00 A.M. to 1-00 P.M. (Direct) & 1-00 P.M. to 3-00 P.M. (Pump)
		(d) Majas Pump (Veravali Supply) (i) Majes Gumphra Tekdi, Pratap Nagar, etc (Jogeshwari East) ...	9-00 A.M. to 2-00 P.M. (Pump)
		(ii) Squatters Colony, Meghwadi and Shyam Nagar. (Jogeshwari-East)- ...	2-00 P.M. to 6-00 P.M. (Pump)
		(e) Kunj Niwass Pump (24" S. V. Road Main Supply) Sahakar Road (Jogeshwari-West) ...	4-00 P.M. to 8-00 A.M. (Direct) & 11-30 A.M. to 2-00 P.M. (Direct) & 8-00 A.M. to 11-30 A.M. (Pump)
		(f) Dadabhai Road and part of Gilbert Hill (Andheri-West) ...	2-00 P.M. to 3-00 P.M. (Direct) & 5-00 P.M. to 4-30 A.M. (Direct) & 3-00 P.M. to 5-00 P.M. (Pump)
		(g) Telly Gully Pump. Telly-Gully, Gundavli Village etc. (Andheri-East) ...	3-00 P.M. to 7-00 P.M. (Pump) & 7-00 P.M. to 4-00 A.M. (Direct)
		(h) J. V. D. S. Pump (18" Nehru Rd. Vile-Parle West Main Supply) (i) From Juhu Hotel to Juhu Reservoir except J. V. D. S. ...	8-00 P.M. to 4-00 A.M. (Direct) & 4-00 P.M. to 8-00 P.M. (Pump) 2-30 P.M. to 4-00 P.M. (Pump) 8-00 P.M. to 4-00 A.M. (Direct)
		(ii) Gandhigram are as (proper Juhu) ...	
		(i) Mahakali Road (Andheri-East) from Mahakali Temple to Holy Spirit Hospital (Veravali Hill Reservoir Supply) ...	5-00 P.M. to 7-30 P.M.
		(j) Mahakali Road from Andheri-Kurla Road to Holy Spirit Hospital (Andheri East) ...	5-00 A.M. to 4-00 P.M.
		(k) Swami Vivekanand Road from Andheri Nake to Sahakar Road, Amboli, Mogra (West) including Ceaser Road, Kevni Pada and Malcolm Baug areas ...	4-00 A.M. to 2-00 P.M.
		(l) Swami Vivekanand Road from Sahakar Road to Oshiyara Bridge (Jogeshwari-West) (36" Patel Engineering arm-Veravali supply) ...	10-00 P.M. to 8-00 A.M.

APPENDIX NO. XVIII—Contd.

Serial No.	Ward	Locality.	Hours of Supply From To
(m)		Swami Vivekanand Road from V. P. Road to Irla Bridge and Juhu Lane (Andheri-East) (18" Salsette Main Supply) ...	24 hours.
(n)		Kaju Wadi (Andheri-East) ...	24 hours.
(o)		Station Road (Jogeshwari-West) and Subhash Nagar (Jogeshwari-East) (Caves Road supply) ...	24 hours.
(p)		Koldongri (Andheri-East) ...	2-00 P.M. to 4-00 A.M.
(q)		(i) Jaiprakash Road (Versova Road) from S. V. Road Andheri Naka to Seven Bungalow including Veera D sai Road, Tap Village, Dadabhai Naowroji Nagar, M. I. G. Colony and Indian Oil Nagar areas ...	12-00 Noon to 5-00 A.M.
		(ii) Jaiprakash Road (Versova Road) From Seven Bungalow onwards and entire Versova Village ...	5-00 A.M. to 12-00 Noon
(r)		Marol Maroshi Road, Marol, Marol Village East of Pipe lines (Andheri-East) (West main supply) ...	7-00 P.M. to 4-30 A.M.
(s)		Entire Sahar Village (Andheri-East) (West main supply) ...	7-00 P.M. to 4-00 A.M.
(t)		Remaining areas of 'K' Ward ...	2-00 P.M. to 4-30 A.M.
12	L	All the areas of the Ward ...	3-30 A.M. to 11-30 A.M.
13	M	(a) Ghatla Pump Supply	
		(i) Portion situated to the East of Agarwadi etc. Payli Pada and Cheetah Camp, Mankurd Village ...	6-00 P.M. to 10-00 P.M.
		(ii) Portion West of Agarwadi i. e. Govandi Village Deonar Municipal Colony etc. ...	3-30 A.M. to 6-00 A.M. (High Pr.) 6-00 A.M. to 9-00 A.M. (Low Pr.)
		(iii) Wadhevi Village and Koliwada-Borla Road area. ...	6-00 A.M. to 9-00 A.M. (Low Pr.) 9-00 A.M. to 12 Noon (High Pr.)
		(iv) Janata Colony (pump of 25 H. P. each) ...	4-00 A.M. to 8-00 A.M.
		(v) Ghatla Village areas (9" tapping 3 Turns open from 18" pump delivery line at Ghatla pump house) ...	6-00 A.M. to 12-00 Noon
		Note:—Deonar Municipal Colony (Suction tank & Pump supply)	
		E. F. G Chawls 5 A.M. to 7-30 A.M.	
		A, B Chawls 7-30 A.M. to 11-30 A.M.	
		C. D. Chawls 11-30 A.M. to 2 P.M.	
		9" Agarwadi tapping supplying to Deonar areas on 18" Sion Trombay Road 6-00 A.M. to 9-00 A.M. Fully Open 9-00 A.M. to 6-00 A.M. 3 turns only	
(b)		Along 36" Refinery main from Kumbharwada upto Atomic Energy Department. ...	24 Hours.
(c)		Along 36" Refinery main from Burmah-Shell Bridge to Kumbharwada, C. S. T. Road and Sion Trombay Road upto Sandu Wadi, (Vehar Supply). ...	4-00 A.M. to 11-00 A.M.
(d)		Colony along trunk mains (Colonies in N Ward also). ...	3-00 A.M. to 11-00 A.M.
(e)		Chembur Colony, Kantiwala B. Road behind Police Station (Suction tank and pump supply 15 H.P. -2 Nos.) and 25 H.P. 1 No.	
(i)		Multistoreyed buildings ...	5-00 A.M. to 12 Noon & 2-00 P.M. to 5-00 P.M.
(ii)		Reconditioned Baraaks ...	5-00 P.M. to 9-00 P.M.
(f)		Rest of the areas in 'M' Ward ...	12-00 MN. to 12-00 NOON & 6-00 P.M. to 12-00 M.N.
14	N	(a) Ghatkopar (North of Sarvodaya Hospital), Vikroli and Bhandup (24" Bhandup-West Main) Supply. ...	12-00 NOON to 4-00 A.M.
		(b) Ghatkopar (South of W. W. Yard-Vehar Supply) ...	3-30 A.M. to 11-30 A.M.
		(c) Remaining Ghatkopar areas (48" N. T. and O. T. supply) ...	3-00 A.M. to 11-00 A.M.
		(d) Barve Nagar, Bhatwadi (Pump Supply) ...	4-00 A.M. to 7-30 A.M.
		(60" Chord main supply) (i) A, B, C, H, J, and K Quarters. ...	& 4-00 P.M. to 7-15 P.M.
		(ii) D, E, F, Quarters. ...	7-30 A.M. to 11-00 A.M. & 7-15 P.M. to 11-30 P.M.
		(e) Rifle Range (Ghatkopar) (Pump Supply) (24" Bhandup West main supply) ...	2-00 P.M. to 8-00 P.M.

APPENDIX NO. XVIII—Contd.

Serial No.	Ward	Locality	Hours of Supply From To
		(f) <i>Park Site Colony, Vikhroli, (Pump Supply)</i>	
		(i) Ground floor structures.	
		(a) 'D' group chawls ...	5-00 P.M. to 7-00 P.M.
		(b) A,B,C,F, group chawls ...	7-00 P.M. to 9-00 P.M.
		(c) Common supply to all chawls ...	12-00 M.N. to 2-00 A.M.
		(ii) Ground and two upper floor buildings ...	9-00 P.M. to 12-00 M.N. & 2-00 A.M. to 4-00 A.M.
		(g) Tagore Nagar and Kannamwar Nagar, (Vikhroli East) ...	8-00 P.M. to 4-00 A.M. (High Pr.)
		(h) Areas between Kanjur Marg (Bhandup) and Sarvodya Hospital (Ghatkopar) Along Lal Bahadur Shastri Marg, including Pant Nagar. ...	& 4-00 A.M. to 11-00 A.M. (Low Pr.)
		(i) Powai Tansa Road (12" Tapping from 60" Chord main...)	12-00 NOON to 4-00 A.M.
		(i) Powai Tansa Road (12" Tapping from 60" Chord main...)	11-00 A.M. to 4-00 P.M.
15	P	(A) <i>Tunnel Supply:</i>	
		(a) (i) Jawahar Nagar, Gajanan Colony, Motilal Nagar, Shastri... Nagar, Sidharth Nagar areas of Goregaon (West) & areas situated to the South of station Road of Goregaon (West)... upto Oshivara bridge including Aarey Road (West) & Unnat Nagar suction tank supply. ...	1-30 A.M. to 4-00 A.M. (Low Pr.) & 4-00 A.M. to 8-00 A.M. (High Pr.)
		(ii) Special supply to Jawahar Nagar (Goregaon West) ...	8-00 A.M. to 10-00 A.M.
		(b) <i>Madh-Marve Supply.</i>	
		(i) Malavani Colonies ...	7-00 A.M. to 10-30 A.M.
		(ii) Malavani Village, I. N. S. Hamla ...	10-30 A.M. to 1-15 P.M.
		(iii) Madh-Island and Erangal areas ...	1-15 P.M. to 3-00 P.M.
		(c) Pushpa Park, Daftari Road areas of Malad (East) ...	10-00 A.M. to 2-00 P.M.
		(d) (i) Areas of Goregaon (West) situated to the North of Station Road (Goregaon) upto Kilachani Road, Kandivali (West) excluding including Madh-Marve Road and Mahatma Gandhi Road (Goregaon-West) and Unnat Nagar direct supply. ...	7-30 P.M. to 12-30 A.M.
		(ii) Malad (West). ...	7-30 P.M. to 11-00 P.M.
		(e) Ramchandra Lane & Adarsh Colony areas of Malad (West) ...	10-00 A.M. - 2-00 P.M.
		(B) <i>Tulsi Supply :</i>	
		(a) Goregaon (East) ...	4-00 A.M. to 9-00 A.M.
		(b) Quarry Road Bhanji Wadi, Khotkua & Kurar Village areas of Malad (East). ...	12-00 Noon to 4-00 P.M.
		(c) Iswarbhai Patel Road (Goregaon-East) ...	9-00 P.M. to 12-00 Noon
		(d) Haji Bapu Road., Nevatia Road, Jitendra Road areas of Malad (East) and Ghas Bazar of Goregaon (East) ...	4-00 P.M. to 12-00 Noon
		(e) Aarey Colony. ...	12-00 M.N. to 4-00 A.M.
16	R	(a) Areas along S. V. Road North of Borivali Rly. level crossing including Dahisar & Bhayandar and excluding Jai Hind Colony and Daulat-Nagar. ...	4-00 P.M. to 7-00 P.M.
		(b) Borivali (East & West) to the South of Borivali Rly. Level crossing and portion of Kandivali (West) upto North of Kilachand Road. ...	4-00 P.M. to 8-00 P.M.
		(c) Areas on S. V. Road South of Kilachand Road, Kandivali (West) including Kilachand Road. ...	7-30 P.M. to 11-30 P.M.
17	T	(a) <i>Mulund Colony.</i> ...	6-00 A.M. to 11-00 A.M. & 2-00 P.M. to 5-00 P.M.
		(b) Hoechst Pharmaceuticals Ltd. towards North along Lal Bahadur Shastri Marg upto Check-Naka and Mulund Town, both East and West of Rly. Lines. ...	12-30 M.N. to 7-00 A.M. (High Pr.) & 7-00 A.M. to 11-00 A.M. (Low Pr.) 8-30 P.M. to 12-00 M.N. (Low Pr.)
		(c) From May and Baker towards North along Lal Bahadur Shastri Marg upto Hoechst Pharmaceuticals Ltd. including Bhandup-Village and Part of Kanjur Marg. ...	2-00 P.M. to 5-00 A.M. (High Pr.) & 6-00 A.M. to 2-00 P.M. (Low Pr.)

APPENDIX XIX

Statement showing short supply complaints in the City (for the last 15 years.)

Months	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73
April ...	316	231	255	455	1,277	1,487	4,471	3772	3,196	3,515	4,034	4,315	5,208	3,223	3,623
May ...	242	595	300	592	1,493	1,683	4,359	3822	3,419	3,154	3,910	3,704	4,327	3,444	2,674
June ...	187	595	253	786	1,549	1,602	4,879	3241	3,622	3,503	5,003	4,084	4,307	3,310	2,422
July ...	242	436	234	620	1,433	1,335	4,338	3155	2,660	2,885	4,182	3,292	3,495	2,331	2,338
August	224	305	409	451	1,295	1,130	3,750	3024	3,271	3,437	3,326	3,400	2,500	2,510	1,931
Sept. ...	246	308	448	663	1,199	1,194	3,666	3076	3,138	3,197	3,638	3,473	3,626	2,247	2,690
Oct. ...	235	275	505	831	1,616	1,351	4,064	3143	3,342	3,316	3,348	3,650	3,581	2,287	2,680
Nov. ...	222	271	503	899	1,376	1,342	3,850	3492	3,233	3,253	3,823	3,329	6,651	2,470	2,559
Dec ...	192	345	617	865	1,282	1,479	3,915	3432	3,308	2,913	3,183	3,691	2,925	2,401	2,944
Jan 72 ...	242	243	634	665	1,463	1,700	3,983	3103	2,946	3,300	3,079	3,365	2,892	2,618	2,356
Feb. ...	179	108	670	816	1,722	1,360	3,574	3245	2,527	2,768	2,967	3,635	2,824	2,600	2,304
March	264	239	531	1,013	1,576	1,309	4,127	4008	2,964	3,525	4,380	3,626	3,365	3,303	2,684
Total ...	2,791	4,053	5,369	8,657	17,231	15,973	48,986	40,453	38,676	33,266	44,873	44,858	45,662	32,794	31,205

APPENDIX XIX—A

Short Supply Complaints in Suburbs & Extended Suburbs.

Month	1970-71		1971-72		1972-73	
	Suburbs	Extended Suburbs.	Suburbs	Extended Suburbs.	Suburbs	Extended Suburbs.
April	1,163	142	1,173	275	1,293	258
May	1,083	118	917	248	1,104	241
June	972	144	1,094	123	1,232	254
July	948	128	893	281	1,107	317
August	755	92	695	137	654	119
September	719	99	1,077	198	844	188
October	1,001	180	1,047	328	964	218
November	882	31	927	231	878	219
December	865	50	1,112	323	1,024	251
January	1,114	64	1,005	193	979	277
February	727	68	812	167	946	234
March	1,171	64	1,219	312	1,035	265
TOTAL	11,412	1,280	11,981	2,816	12,060	2,941

APPENDIX XX

Statement showing details of meters in City, Suburbs and Extended Suburbs.

Serial No.	Ward	Ownership of meter	Total Number of meters on connection as on 1-4-1972	Number of meters exchanged during the year	Number of meters fixed on new connections during the year	Number of meters removed from existing connection during the year	Number of new properties metered during the year	Number of unmetered properties metered during the year	Total Number of meters on connections as on 31-3-1973
1	A	Municipal	2,165	2,133	189	72	...	...	2,282
		Private	713	300	35	8	20	...	740
2	B	Municipal	685	317	44	13	...	...	699
		Private	226	...	34	43	2	...	234
3	C	Municipal	1,174	350	49	14	...	...	1,223
		Private	305	...	3	1	...	...	293
4	D	Municipal	3,555	4,580	138	22	...	1	3,815
		Private	1,029	342	46	1	18	...	1,029
5	E	Municipal	1,738	1,433	51	...	...	...	1,789
		Private	730	224	6	...	...	...	736
6	F/S	Municipal	1,209	993	68	163	...	...	1,286
		Private	332	...	...	...	...	...	368
7	F/N	Municipal	1,524	1,464	83	19	...	...	1,588
		Private	1,055	341	18	5	77	...	1,068
8	G/S	Municipal	1,083	780	71	7	...	1	1,098
		Private	545	196	17	...	16	...	496
9	G/N	Municipal	1,701	834	117	...	...	...	1,818
		Private	1,061	217	24	...	7	...	1,085
Total for City			Municipal 12,689	12,884	810	310	140	3	15,598
			Private 5,283	1,620	183	58	...	...	6,049
Total			17,972	14,504	993	368	140	3	21,647
10	H	Municipal	5,049	1,188	22	6	...	...	5,065
		Private	6,413	1,109	256	32	...	...	6,637
11	K	Municipal	4,321	...	411	119	...	...	4,613
		Private	5,192	...	226	21	...	...	5,396
12	L	Municipal	2,662	1,290	84	...	9	...	2,750
		Private	1,455	565	98	...	...	...	1,548
13	M	Municipal	1,827	611	205	13	...	...	2,032
		Private	1,828	62	68	9	...	...	1,829
14	N	Municipal	1,423	1,078	242	...	152	...	1,658
		Private	2,032	724	61	...	...	...	2,085
Total for Suburbs.			Municipal 15,282	4,167	942	132	161	...	16,118
			Private 16,911	2,460	453	30	...	...	17,495
Total :			32,200	6,627	1,395	162	161	...	33,613
15	P	Municipal	2,509	1,556	...	...	...	18	2,815
		Private	2,311	467	...	...	...	...	2,358
16	R	Municipal	1,710	803	120	...	138	...	2,288
		Private	2,187	534	78	...	...	...	1,859
17	T	Municipal	907	150	...	...	...	...	1,057
		Private	2,559	84	...	629	...	...	2,643
Total for Ext. Suburbs.			Municipal 5,126	2,519	120	...	138	18	6,160
			Private 7,057	1,085	78	629	...	...	6,860
Total :			12,183	3,604	198	629	138	18	13,020
Grand Total			Municipal 33,097	19,570	1,872	442	439	21	37,876
			Private 29,258	19,745	714	717	...	...	30,444
Total :			62,355	39,315	2,586	1,876	439	21	68,320

APPENDIX XXI

Details of the Works carried out by construction Division in City Suburbs and Extended Suburbs

Size of pipes	CITY		SUBURBS		EXTENDED SUBURBS		TOTAL	
	Metres	Feet	Metres	Feet	Metres	Feet	Metres	Feet
80 mm. (3")	1,147.87	3,787.97	1,762.18	5,815.19	24.00	79.20	2,934.05	9,682.36
100 mm. (4")	1,388.81	4,583.07	1,071.25	3,535.12	315.30	1,040.49	2,775.36	2,158.68
150 mm. (6")	9,670.93	31,914.07	7,650.61	25,247.01	5,250.60	17,326.98	22,572.14	74,468.07
250 mm. (9")	6,124.82	20,211.91	2,942.13	9,709.03	1,887.60	6,229.08	10,954.55	36,150.02
300 mm. (12")	5,874.45	19,385.63	2,229.50	7,357.34	1,929.90	6,368.67	10,033.85	33,111.69
450 mm. (18")	1,191.41	3,931.66	2,125.00	7,012.50	2,99.00	7,256.70	5,515.41	18,200.86
600 mm. (24")	214.99	709.46	92.00	303.60	...	...	306.59	1,013.07
750 mm. (30")	636.42	2,100.19	...	...	...	...	636.42	2,100.19
900 mm. (36")	4.57	15.08	...	...	39.60	130.68	44.17	145.76
Total	26,254.27	86,639.09	17,872.67	58,979.79	11,646.00	38,431.80	55,772.94	1,84,050,2.70

	CITY	SUBURBS	EXTENDED SUBURBS
	Rs.	Rs.	Rs.
Cost of Scheduled works carried out (Departmentally and by contract)	20,39,490	20,76,403	30,59,552
Cost of non-scheduled works carried out	26,52,134	2,61,000	3,29,571
Total cost of the works carried out	46,91,624	23,37,403	33,89,123

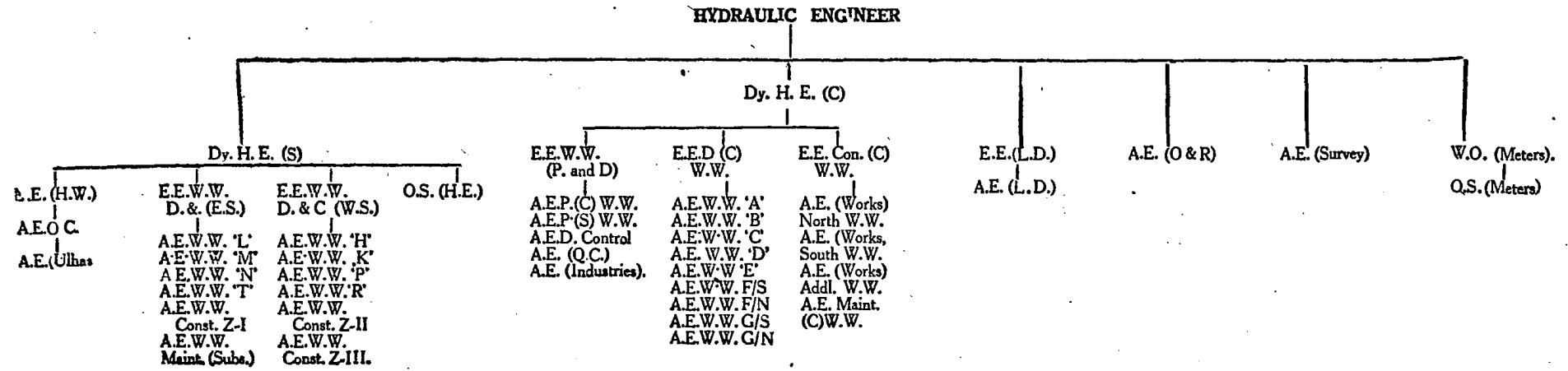
APPENDIX XXII

Details of stand pipes in City, Suburbs and Extended Suburbs.

Serial No.	WARD	No. of existing stand pipes on 1-4-1972.	No. of new stand pipes given during the year.	No. of stand pipes cut off during the year.	Total No. of Stand pipes as on 1-4-1973.
1	A	...	3	1	4
2	B	...	...	...	...
3	C	...	...	...	...
4	D	...	3	3	5
5	E	...	...	...	...
6	F/S	...	63	15	68
7	F/N	...	98	43	139
8	G/S	...	51	15	66
9	G/N	...	132	89	218
	CITY TOTAL	...	350	171	500
10	H	...	614	83	697
11	K	...	760	213	969
12	L	...	303	88	387
13	M	...	140	65	204
14	N	...	459	151	608
	SUBURBS TOTAL	...	2,276	604	2,865
15	P	...	125	81	199
16	R	...	19	28	46
17	T	...	403	142	545
	EXTD. SUBS. TOTAL	...	547	251	790

APPENDIX XXIII

ORGANISATION CHART OF HYDRAULIC ENGINEER'S DEPARTMENT



- (14) Ladders of various sizes ... 91 Nos.
- (15) Breathing Sets ...
- (a) Oxygen ... 34 Nos.
- (b) Compressed Air ... 16 Nos.
- (16) Fire Hose Delivery Rubber lined in stock).
- (17) Gas Masks of various types.

Out of the above appliances and equipments the following were purchased during the year 1972-73

- (1) Other Vehicles ... 2 Nos.

Communications

(A) Telephones :—

In the year 1963-64 the six Emergency lines of the Brigade were spread up as under :—

- (i) Four Emergency lines (No. 101 for fires and other Emergency Calls.
- (ii) Two Emergency lines (No. 102 for Ambulance Calls. This system continued to exit in the year under report. For better functioning the Fire Brigade Control Room is air conditioned.

(B) Wireless Communication System :—

The Brigade has 55 Radio Telephone Sets (5 static sets, 38 Mobile Sets and 10 Walkie-Talkie Sets actually in use and 2 spare Walkie Talkie Sets during the year under report.

(C) Fire Alarms :—

The total number of Fire Alarm was 213 including 28 private ones.

Calls :

The Brigade responded to total No. of calls as shown below with comparative figures of the previous year.

	1972-73	1971-72	Difference
Total Calls ...	4,055	3,857	798 Increase.
Actual Fires ...	2,261	2,114	147 "
Actual House Collapse ...	327	419	92 Decrease.
Rescue Services ...	415	358	57 Increase.
Other Services ...	446	450	4 Decrease.
False Calls—			
Defective Calls due to defects in Fire Alarm System ...	155	154	1 Increase.
Good Intent Calls ...	84	88	4 Decrease.
Malicious Calls ...	367	275	92 Increase.

Out Side City Limit Calls—

There were 3 such calls during the year.

Serious Fires—

There were 21 serious fires during the year (*vide* Appendix I).

House Collapse—

This Brigade attended calls to 327 fallen buildings as against 419 in the pervious year. 21 persons lost their lives and 179 were injured.

The figures of last 4 years are as given below :—

	1968-69	1969-70	1970-71	1971-72	1972-73
House Collapse ...	182	206	371	419	327
Deaths ...	11	23	29	59	21
Injuries ...	105	124	169	238	179

Some serious House Collapses are mentioned in Appendix VI.

Other Services—

There were 446 calls of other Services which included leakage of poisonous gases and dangerous fume, spilling of acids, falling of trees, shocks due to electricity vehicle accidents etc. 69 persons lost their lives in such accidents and 131 persons received injuries.

Rescue Service—

The Brigade attended 415 calls of various types of Rescue Work such as persons fallen in wells, sea etc. trapped in lift cages, drainages, marooned in flooded area etc. 132 persons died in such cases and 178 were injured. Majority of Deaths (104) were by drowning. The Brigade also rescued 75 animals and birds..

Burning Casualties—

There were 371 casualties due to fire out of which 42 persons lost their lives (23 males and 19 females), 211 persons received burns and subsequently recovered. Out of total deaths 15 cases (11 females and 5 males) were of suicide.

Fire Loss—

The total loss due to fires was approximately Rs. 2,29,06,469 out of this the damage to the insured property was Rs. 2,86,12,291. The total property involved was worth Rs. 3,04,14,88,639.

Water Supply—

The approximate quantity of water used for extinguishing fires was about 2,89,70,110 litres out of which 1,75,57,220 litres were drawn from Municipal Mains and rest from sea, wells, ponds etc.

Hydrants—

The number of hydrants for City and Suburbs was—10971

Fire Prevention—

During the year under report 7,049 cases were received as against 7,332 in the previous year. Out of these 6,800 cases were disposed of. The cases received included 5,931 cases from Municipal Department like Licence; Factory and Health. 426 cases for No Objection Certificates for building, 232 cases for No Objection Certificates for public entertainments. 77 cases for No objection certificates required by Commissioner of Police, Inspector of explosives and controller of Drugs, 321 cases of complaints and 262 Miscellaneous cases including reminders.

OTHER ACTIVITIES

(1) Celebration of Fire Service Week

The Bombay Fire Brigade in co-ordination with other Fire Services of the City celebrated the Fire Service week from 8th April 1972 to 14th April 1972.

A number of fire fighting demonstrations were arranged during the above week to educate public in fire fighting. The Officers of Bombay Fire Brigade in this week visited several industries of the City and delivered lectures on Fire Fighting. This Brigade joined hands with other organisations to raise funds for welfare service personnel by selling flags to the public on 14th April 1972. The most remarkable function of the week was the Prayer Meeting at Fire Brigade Headquarters, in presence of Dr. Rafiq Zakaria, the then Minister for Urban Development and Public Health, Government of Maharashtra, to pay homage to the gallant Fire Officers and men who laid down their lives while fighting fires in the disastrous Dock Explosions of 1944.

(2) Republic Day

Fire Brigade Personnel participated in the ceremonial parade route march along with Defence and other services on 26th January 1973. The Fire Brigade Personnel also participated in the Maharashtra Day parade on 1st May 1972.

(3) Annual Drill Competitions

As usual annual fire drill competitions were held. During the year competitions were held in (i) Fire Trailer Pump Drill (ii) Fire Escape and Motor Pump Drill. 35 teams in each competition from different fire stations participated. The finals were held on 22-2-1973. Shri M. W. Desai, Municipal Commissioner presided over the occasion and distributed the prizes. The best performance Rotating Trophy was awarded to Station Officer M. I. Anwer.

(4) Awards and Prizes

The following awards, prizes and certificates were also given on 22-2-1973.

(a) Silver Medal and Cash Prize of Rs. 250 each to the following officers for extra ordinary gallantry shown in rescuing persons trapped on the upper floors of "Sterling Apartments" at Gopalrao Deshmukh Marg, which had caught fire on 25-10-1972

- | | |
|--------------------------------------|----------------------|
| (1) Shri A. S. Kulkarni | ... C. F. O. |
| (2) Shri V. B. Nikam | ... Div. Officer. |
| (3) Shri Krishna Dhondu Kadam | ... Leading Fireman. |
| (4) Shri Narayan Ramchandra Dukhande | ... Fireman. |

(b) Best Fireman Award of Rs. 100 to:

Shri Dattaram Bhourao Mhamunkar, Fireman.

(c) **Commendatory Certificate to :**

Shri S. M. Desai, Asstt. Div. Officer and Shri S. K. Bhandarkar, Station Officer for their excellent work at Rescue Service Call at Colaba Post Sorting Office, where at great personal risk they searched out some letter bombs.

(d) **Cash Prize of Rs. 50 each to the employees securing first place in the Driver Operator's Class and Leading Firemans Class to :**

- (1) Shri Ismail Karimkhan for Driver Operator's Class and
- (2) Shri Janardan Raghoba Kadam for Leading Fireman's Class.

(e) **Long Service and Good Conduct Medals to :**

- (1) Ex. Dr. Op. Mahadeo Atmaram Naik.
- (2) Do. Laxman Narayan Sawant.
- (3) Do. Govind Gangaram More.
- (4) Do. Shantaram Bhagoji Ambre.
- (5) Ex-Leading Fireman. Krishna Laxman Sawant.
- (6) Do. Noormahomed Amulal Kazi.
- (7) Do. Tukaram Babaji Niwalkar.
- (8) Ex-Fireman Lawoo Balariram Padave.

(5) **Awards of Scholarships to children of Brigade Employees :**

As in the previous year under the year under report scholarships ranging from Rs. 10 to Rs. 65 were given to school going children of the Brigade employees who passed the Annual examination with credit from Standard IV to XI. 51 applications for the scholarship were received. Out of the above 30 applications as per merits were considered for grant of scholarship. The scholarships were distributed on 15th September 1972. An amount of Rs. 800 was utilised for the purpose.

(6) **Deputation of Officers**

- (a) Shri R. R. Rao, Station Officer, who was deputed to Home Guards Organisation as a Fire Fighting Instructor with effect from 18th May 1964 continued to be on deputation during the year under report.
- (b) Shri M. G. Sirkhot, Station Officer, who was deputed to Dubai Municipality as Assistant Fire Officer from 1st October 1970 repatriated to the Bombay Fire Brigade on 1-10-1973.

(7) **Fire Fighting Training to Outside Candidates**

- (a) During the year under report practical training in fire fighting and rescue duties was imparted to the Home Guards of Greater Bombay.
- (b) Officers of Bombay Fire Brigade gave a number of lectures on fire fighting in the training school of the Security Guards of Municipal Corporation of Greater Bombay. The Officers also gave a lecture on fire fighting to the trainee officers in the Central Labour Institute.

(8) **Vocational Service Awards :**

Shri Bhaskar Sahadeo Pednekar, Driver Operator, was selected and awarded the Vocational Service Award of the Rotary Club of Bombay. Besides Shri Narayan Vithoo Shinde, Leading Fireman, was selected for the award of the Bombay West Rotary Club introduced this year, the same was presented to him during the year.

AMBULANCE SERVICE

The Ambulance Service attended calls as given below:—

Accidents	...	...	...	...	...	...	...	1,034
Maternity	...	...	...	...	...	...	...	400
Hire	...	...	...	...	...	...	...	3,279
Free Poor Cases	...	...	...	...	...	...	...	6
								4,719

In all 4,320 persons were removed in Ambulances. First-aid rendered on 131 occasions. The total receipts during the year on account of fire cases amounted to Rs. 32,643 including arrears as against Rs 38,162 in the previous year.

BRIGADE ESTABLISHMENT COST

The cost on account of Fire Brigade Department including Ambulance Service but excluding supervision charges of Provident Fund, Pension and proportion of general supervision and revenue and debit charges etc. was Rs. 29,36375.

A. S. KULKARNI
Chief Fire Officer.

APPENDIX No. 1

BOMBAY FIRE BRIGADE

Brief details of Serious Fires during the year 1972-73.

Date and Time	Place	Business	Extinguished by	Damage	Estimated Loss
1	2	3	4	5	6
8-6-1972 0242 hrs.	Nensey & Sons 96, Kadri Park S. V. Road, Irla Vile Parle (W).	Mfg. furniture General stores, Auto repairs.	Fireman with three Motor Pumps.	Large stock of furniture in process and ready, timber upholstery decorative materials, fans, tins of thinner, cosmetics, three auto cars, typewriting machines, office records etc. severely damaged by fire, heat, smoke and water with walls ceilings, pillars etc. of a ground floored structure.	95,000
28-6-1972 1438 hrs.	S. S. Tarsos, Indira Docks Shed No. 22.	Shipping Agents ...	Firemen with ten pumps.	Super structure, deck, pump room, pipes and tanks on after severely damaged by fire, heat, smoke and explosion of an empty Cargo ship (oil tanker), S. S. Tarsos berthed at Indira Docks Shed No. 22 for general repairs.	1,00,00,000
30-7-1972 0800 hrs.	Jiven Silk Mills, Building No. 1, Kurla Andheri Road, Saki-Naka, Bombay 72.	Mfg. Silk Cloth ...	Firemen with five motor pumps and C. D. with one M. P. ...	Large stock of cloth under printing process, dyes and chemicals, printing designs, steam pipes, gray stock etc. severely damaged by fire, heat, smoke and water with doors windows, electric installations, flooring and ceiling of 2nd floor of a three floored R. C. C. building, about 180' x 150' (used as silk mills and factories).	3,60,000
5-8-1972 1239 hrs.	Bombay Paints and Allied Products Ltd., Near Esso Refinery, Cavanpada.	Mfg. paints ...	Firemen with two motor pumps and Esso employees with three hydrant lines.	Machinery and electric motors, a large quantity of paints under process, on ground floor and paints pigments, in drums, tins and bags etc. paper, wrappings, cartons etc. severely damaged by fire, heat smoke and water in a four floored brick walled building about 40 mts. x 80 mts. (used as paints Mfg. Co.)	1,00,000
24-9-1972 0646 hrs.	Juhu Aerodrome, Swami Vivekanand Road, Vile Parle (W).	Air transport ...	Air craft crew with Co2 gas, Civil Aviation F/m with one foam line and B. F. B. firemen with one engine line.	All the four engines, the wings, landing gears, lower portion of the nose of the aeroplane severely damaged by crash, fire, heat smoke and water. A Boeing Jet D. C. 8 No. JA 8013 on an open land at Juhu Aerodrome.	2,00,00,000
29-9-1972 321 hrs.	Diesel Engine at 29/10 Km. near Mithagar Rly. Level Cross near Mulund Rly. Station.	Railways	Fireman with one engine line of foam.	About 2000 of Diesel oil, engine, electric wiring, different gauges, foot board etc. severely damaged by fire, heat, smoke water and foam of a Diesel Engine of C. Rlys. No. 19117 attached to Goods train on Rly. track.	1,05,000
25-10-1972 0815 hrs.	Sattaria Building, M. G. Road Junction Cama Lane.	Shops	Firemen by cutting of current and five jets from four pumps.	Large quantity of cutlery, stationery and general store articles and some quantity of fire works, mattresses, wooden furniture severely damaged by fire, heat, smoke and water with windows, doors, rolling shutters etc. of a two floored R. C. C. building.	95,100
25-10-1972 2200 hrs.	38, Gopalrao, Deshmukh Marg, Sterling Apartments.	Residential	B.E.S. & T. Engineers by cutting off current, and firemen by four lines of motor pump.	Small quantity of town gas destroyed by fire, electric installations wooden panel of the duct, and gas pipe line upto 10th floor severely damaged by fire, heat, smoke and water with walls, false ceiling of a 20-floored R. C. C. building with basement about 60 M. x 40 M. used as dwellings only.	2,20,000
6-11-1972 0429 hrs.	Indian Cork Mill Pvt. Limited, Saki Vihar Road, Powai.	Mfg. cork	Firemen with ten engine lines of ten Motor Pumps.	About 15 feet wall at South side was broken by firemen for fire fighting. Large quantity of Cork bundles severely damaged by fire, heat, smoke and water on area about 150' x 100' feet.	2,00,300
7-11-1972 1232 hrs.	Vaidya Metal Pressing Works Tata Mills Compound Jagannath Bhatankar Marg, Parel.	Metal Pressing works and Masala Mill.	Firemen with three lines of four motor pumps.	Machineries, like table machines, grinder, lathe, and press etc. finished and unfinished articles, stainless steel sheet, furniture, large stock of masala, office records, electrical installation etc. severely damaged by fire, heat, smoke and water with ground floor, timber framed C. I. sheet structure.	1,85,000

APPENDIX No. 1—(Concl'd.)

Date and Time	Place	Business	Extinguished by	Damage	Estimated Loss
1	2	3	4	5	6
					Rs.
25-11-1972 2213 hrs.	Dr. Meisheri Road, Novroji Hill No. 2.	Godown, Auto re- pairing work shop etc.	Firemen with 15 en- ginelines from two motor pumps.	Spare parts, tyres, rags, motor cars, some drums of paints, tool boxes, gears etc. severely damaged by fire, heat, smoke and water. St- ructures were also severely dama- ged.	96,000
2-12-1972 0935 hrs.	Gemini Circus, V. N. Purav Marg, Sion Trombay Road, Chembur.	Circus	... Firemen with five engine lines with five motor pumps	Entire circus tent wooden members of tent wooden flank of gallery, 4 temporary sheds, wooden chairs, electric wiring, electric lamps, cur- tain cloth, roofs etc. severely da- maged by fire, heat, smoke and water on area about 200 mts. x 100 mts.	1,50,000
10-1-1973 2245 hrs.	Shree Niketan Shiv- sagar Estate, Dr. A. B. Road, Worli.	Offices	... Firemen with 9 motor pumps and with seven lines.	145 Steel cupboards, Air condition plants, ductings, furnitures, files, papers, foam chairs, typewriting machines stationary electric instal- lations on seventh, eighth and fifth floors of a nine floored build- ing severely damaged by fire, heat, smoke and water, with glass windows, doors, ceiling and walls of the building.	23,30,000
11-1-1973 2342 hrs.	62/63 Eastern Woolen Mill Compound, Bhawani Shankar Road.	Factories	... Firemen with seven engine lines of seven motor pumps.	A large stock of chemicals printing papers, metal levels, printed cloth, machineries, office records, furni- tures etc. with doors, windows, tiled roof, electric installations sev- erely damaged by fire, heat, smoke water and by breakage.	7,60,000
11-1-1973 0804 hrs.	Samarth Pharmaceuti- cals, Naharsingh Building, Ram Man- dir Road, Goregaon (W).	Factories and Mfg. of pharmaceuti- cals.	Employees with eight fire extingui- shers and firemen with one motor pumps.	Large stock of drugs, pharmaceuti- cals products, raw material, pack- ing material, wooden furniture, air- conditioning machine, electric mixer, office records with electric installatlon, wooden partitions, cei- ling fans, doors and windows sev- erely damaged by fire, heat, smoke and water.	3,55,000
9-2-1973 1815 hrs.	132-134, Reay Road, Bombay.	Timber godowns Fa- ctories and offices.	Firemen with 11 jets of 8 Water pumps.	Machineries, office, furniture, acco- unts books, machine parts, stock of timber etc. with A. C. Sheet roof, C. I. sheet walls, with wooden structure severely damaged by fire, heat, smoke and waetr of a gr. floored structure about 40 mts. x 20 mts.	2,07,000
13-2-1973	218-234, Maulana Azad Road.	Godowns Factories	Firemen with engine lines of 7 motor pumps.	Large stock of cotton yarn in process, power looms, fire wood compres- sors, finished casting materials, varmiculite powder, office furni- ture, records, housed in 11 galas, with entire timber framed doors, windows, etc. three ground floored structure, severely damaged by fire, heat, smoke and water.	2,35,000
13-2-1973 1848 hrs.	New Pralhad Mills Pt. Ltd., Atlas Mills Compound, Reay Road,	Textile Mills	... Firemen with 9 lines from 11 motor pumps and 2 lines of Civil Defence.	Large number of machineries, drums containing chemicals and dyes, finished cloth, records severely da- maged by fire, heat, smoke and water with entire Western portion of gr. floor, brick walled, timber framed structure.	4,50,000
8-3-1973 1245 hrs.	Easo Standard Refinery Co. of India Ltd., Mahul Road, Chembur,	Oil Refinery	... Firemen with 15 hy- drant lines +3 foam lines and 5 enginelines.	Large quantity of hexine, gasolene, naptha, and installation in naptha tanks farm, severely damaged by fire, heat, smoke explosion water and foam.	1,10,00,000
10-3-1973 2344 hrs.	73 & 123, Mustafa Bazar, Sant Savta Marg.	Saw Mills & Timber Godown.	Firemen with 11 jets of 7 M.Ps.	Bondsaw machines, grinders, a large stock of timber in timber framed C. I. sheet ground floored structure severely damaged by fire, heat, smoke and water.	1,87,000
23-3-1973 2355 hrs.	Messrs. Johnson & Johnson Ltd., Dha- ravi Rd., Dharavi.	Factory	... Firemen with three lines of three motor pumps.	Machineries, air conditioning units, electric heater, exhaust fan, wooden and steel furniture, electric wiring, partition, false ceiling, severely damaged by fire, heat, smoke and water. A. C. Sheet roof paint work of walls ceiling etc. also sev- erely damaged by fire, heat, smoke and water and by breakage.	2,08,000

Appendix No. II
BOMBAY FIRE BRIGADE

Summary of calls to Fires (including false alarms) showing the number of times appliances of the Fire Brigade attended and were extinguishing fires during the year 1971-72.

Sr. No.	STATIONS.	NUMBER OF FIRE ALARMS ATTENDED.		HOW CALLED				HOW ATTENDED											HOW EXTINGUISHED.										
		Municipal.	Private.	By Strangers.	By Fire Alarms.	Control Room	Total.	STATION APPLIANCES				AIDING APPLIANCES.							No. of Motor Pumps.	No. of Jets.	B. A. Sets Automatic Sprinkler heads actuated.	Foam Equipment.							
								Motor Pump carrying Escape or Ladder	Extension	Fire Unit	Escape	Extension	Motor Turn table Ladder.	Fire Unit.	Trailer Pumps.	Motor Emergency Tender.	Control Post	Hose Lorry					Sand.	Buckets.	Chemical Extinguishers.	Hand Pumps.	First Aid Appliances.	Hydrants.	
1	Colaba	9	2	14	27	81	122	14	109		81	3	13			1	1		16	7	8		11	2	1	7			
2	For	17	8	16	44	198	258	238				56	4	1		2	3		35	12	5		30	1	19	24			
3	Memonwada	30	2	31	228	392	651	575	203		129	36	21	15		11	4		49	24	16		38	2	21	51			
4	Gowalia Tank	19	5	58	136	245	439	426	1		201	112	59	4		10	4		5	4			45	2	15	5	2		2
5	Byculla	27	2	41	121	225	387	325	162		75	25	4	16		17	6	4		3	20		21	5	53	62			
6	Worli	10		28	85	164	277	253		68	48	137	5	2		9	3	3	49	40	116		37	24	40	93			
7	Dadar	24	2	17	64	320	401	349	140		83	65	2	2	1	5					1		25	15	11	12			
8	Shivaji Park			9	57	108	174	11	155	1	70	15		4				1	1	10	9		21	2	8	14			
9	Indira Dock	17	2	22	31	79	132	96	90		74	25		13				4		10	2		13	9	37	52			7
10	Mandvi	12	1	8	95	11	194	161	51	53	73	43	16			10	2		8	18			26	18	37	43			
11	Sewree	10	6	16	56	87	159	154	2		86	51	2	30		10	2	1	15	15	51			6	43	44	3	4	5
12	Andheri	10		9	24	547	580		488	86		104		9		12	2	1	44	75	192		34	1	73	180			
13	Vikhroli			28		242	270		238	15	46		6			5			24	39	126		21	5	50	66	2		25
14	Chembur			38		159	197	197			15	30	1	7		15	4	3		1			16	24	32	57			4
	Total	185	30	335	968	2938	4241	2799	1639	123	981	702	133	103	1	107	36	13	256	257	529	...	338	116	440	710	7	4	36

Appendix No. III

Monthly summary of Fires and annual losses for the period from 1963-64 to 1972-73.

Year.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Total.	Estimated Loss.
														Rs.
1963-64	169	149	155	122	107	140	157	160	184	210	170	143	1,828	73,25,615
1964-65	152	146	164	121	123	78	148	188	168	151	144	149	1,732	1,18,84,025
1965-66	154	154	139	148	116	115	151	170	133	156	145	171	1,762	11,12,000
1966-67	163	133	115	136	91	114	143	200	180	171	135	169	1,754	95,76,772
1967-68	156	151	204	150	117	124	181	228	147	185	149	194	1,936	1,59,72,216
1968-69	130	166	180	133	124	131	229	190	153	156	191	127	2,010	1,03,71,560
1969-70	123	174	153	143	101	140	140	168	181	145	123	156	1,747	2,00,85,438
1970-71	122	150	210	148	116	143	227	242	215	163	168	220	2,124	5,89,96,893
1971-72	170	229	212	141	130	157	177	193	197	174	169	165	2,114	2,45,47,953
1972-73	160	160	238	159	187	160	213	206	155	175	163	185	2,261	7,29,06,469

**APPENDIX No. IV
BOMBAY FIRE BRIGADE**

Types of Rescue	In Fires	In accidents.	Total
(1) Number of persons rescued alive with burns and/or injuries and subsequently recovered	211	488	699
(2) Number of persons rescued alive with burns and/or injuries but subsequently died	25	83	108
(3) Number of human lives lost before arrival of the Brigade	17	149	166
(4) Number of casualties amongst Fire Service Personnel	19	...	19
(5) Number of animal lives rescued	...	75	75

**APPENDIX No. V
BOMBAY FIRE BRIGADE**

Fire Risk Covered :

(a) Textile, Woollen, Silk and artificial Silk (Rayon etc. Mills)	...	...	207
(b) Ginning Mills	...	...	3
(c) Cotton Presses	...	...	8
(d) Oil Mills	...	...	73
(e) Petrol and Oil Storages and refineries	...	...	54
(f) Match factories, fireworks and explosives manufacturers	...	...	3
(g) Explosives stores	...	...	24
(h) Processes involving dangerous petroleum products	...	...	5
(i) Cinematograph films, Celluloid Plastics and Bakelite Works	...	...	291
(j) Timber and wood working paper manufacture	...	...	292
(k) Chemical Works	...	...	176
(l) Gas and Electricity Undertaking	...	...	21
(m) Docks, Railways, Air-Port installations	...	...	28
(n) Warehouses, Goods Yards, Goods Sheds	...	...	29
(o) Manufacture of Rubber Goods	...	...	241
(p) Manufacture of other goods	...	...	355

Water Facilities :

(1) Hydrants and approximate capacity	...	...	11,466
(2) Water ponds	...	...	35
(3) Refilling Places	...	...	38
(4) Wells, Rivers and Canals	...	...	843
(5) Other facilities like static tanks, storage tanks, etc.	...	...	108

AND
Sea Water
{ around the
island of
Bombay.

APPENDIX No. VI

BOMBAY FIRE BRIGADE

Brief details of serious House Collapses during the year 1972-7.

Date and Time	Place	Business	Casualties		Details
			Death	Injury	
10-5-1972 1001 hrs.	9-Abdul Rehman Street, Junction, Kalsa X Lane.	...	2	4	About sixty feet long stone parapet wall of a six floored building was collapsed on road resulting in injuring seven persons. Four injured persons were already removed hospital and other three persons were removed to hospital in Brigade Ambulance. Loose portion of parapet wall as removed and entire building was vacated.
8-12-1972 1535 hrs.	L. B. S. Marg, Kurla, Shradhanand Ashram, Opp. Premier Co.	Bldg. Contractor	1	16	The entire first floor terrace slab under construction collapsed. Number of persons were injured and some of them trapped under the collapsed R. C. C. slab. In all 15 surface casualties were removed to hospital by private vehicles and police van. One person who was pinned down under R. C. C. slab was rescued by the Brigade and he was removed to hospital in F. B. Ambulance where he was declared dead.
1-1-1973 2215 hrs.	Churchgate Railway Stn. Miharshi Karvo Road, Bombay 20.	Contractor.	2	23	Props (centering) supporting (about 27m. x 12m.) concrete slab being cast for the extended wing of Churchgate Station gave way resulting underneath the heavy mass of concrete and steel scores of workers. Twenty five casualties were removed by the Brigade staff from underneath the mass of concrete and steel slab and were sent to nearby hospitals in Brigade Ambulance and other private ambulances out of which two subsequently died.
18-1-1973 1505 hrs.	776-B, Radha Nivas, Tilak Road, Dadar.	Private	1	25	The additional floors were being under construction over a three floored building when cement concrete structure had collapsed and number of persons were trapped under the fallen slab. The stranded and injured persons were brought by means of ladders. In all there were 26 casualties. First aid was rendered and all injured persons were removed to hospital for treatment out of which one subsequently succumbed to injury.

MUNICIPAL GARDEN

Summary of the Administration Report of Superintendents of Gardens

Actual and Statistical information for the maintenance of Municipal Gardens, Playgrounds, open spaces, traffic islands fountains, band stands and box hedges and statues and animal Zoo during 1972-73.

	<u>Amount spent.</u>
(1) Money spent	Rs. 42,21,327.00
(2) Results achieved	Maintained the gardens and playgrounds etc. as shown below:—

Area	Gardens	Play-grounds.	Gardens attached to Municipal buildings.	Traffic Island Gardens	Foun-tains	Band Stands	Box Hedges	Statues
City	76	93	13	26	14	6	2	12
Suburbs	50	6	4	2	5	1	1	1
Extended Suburbs	15	1	5	...	1	1	...	1
TOTAL	141	100	22	28	20	8	3	14

Grand Total 291

(3) Suggestions for remedying and defeciencies ... We must have security arrangement in all our gardens and playgrounds as in the evening after working hours of Malis, gardens and playgrounds are mis-used by the anti-social elements.

(4) Specific information. ... NIL.

J. G. GARKHEL,
Superintendent of Gardens.

MUNICIPAL GARDEN

The Garden Department maintained 291 sites consisting of 141 gardens, 100 playgrounds/open spaces of various sizes, 22 gardens attached to the Municipal Buildings and 28 traffic island gardens. Besides, 20 fountains, 8 band stands, 3 box hedges and 14 statues in the City, Suburbs and Extended Suburbs are maintained.

Area	Gardens	Play-grounds.	Gardens attached to Municipal buildings.	Traffic Island Gardens	Foun-tains	Band Stands	Box Hedges	Statues.
City	76	93	13	26	14	6	2	12
Suburbs	50	6	4	2	5	1	1	1
Extended Suburbs	15	1	5	...	1	1	...	1
TOTAL	141	100	22	28	20	8	3	14

Grand Total 291

Veermata Jijabai B'osle Udyan continued to remain an attraction to the visitors. The varying colours of flowers, extensive lawns and shady trees provide a feast of colours to the eyes and relaxation of the mind. Two hillocks were created and planted with lawn grass to break the flatness of the area. The statues lying at the back of the Museum were kept at strategic places in the garden and those in broken condition arranged behind the Museum.

Botanical specimen were supplied to the colleges and institutions free of charges and facilities were given to the batches of students from various colleges, schools and institutions for study in the garden.

Five thousand plants were distributed free of cost to cooperative housing societies, public trusts, schools, colleges and public institutions for planting in their premises as a part of our 'grow more tree' campaign. An avenue of bottle palm was planted on the main road of V. J. B. Udyan by the members of the Los-Angeles Sisters City Association.

The cages and fencing around the Zoo enclosures were repaired and painted wherever necessary. The ponds in the Hippopotamus and Rhinoceros enclosures were made more beautiful by providing mosaic-tiles. A bridge was constructed in the tiger's enclosure to make it more natural. The lawn grass cover of the Deer and Antelope enclosure was maintained lush green not only to add to the beauty of the enclosure, but also to provide green fodder for grazing as well as cover to prevent erosion of the soil. The Laboratory houses were also improved by providing exhaust fans to keep the animals in better environmental conditions. Besides, the existing cages in the Laboratory houses were also replaced by improvised one. The post of Zoo-Assistant was upgraded to Veterinary Assistant to assist the doctor to take preventive measures against the diseases of the wild animals and to reduce fatality among them. The feed of the animals/birds was improved to make them more healthy and resistable to various susceptible diseases particularly among the monkeys where the incidents of T. B. has been brought down to a great extent. The facilities for joy-rides on elephants, camels and pony are provided to the visitors to the garden, which are enjoyed by them to the fullest extent. Besides a boating park is also a great attraction to the visitors.

A large number of birds and animals were added to the Zoo which could be purchased locally with the kind cooperation of the Dy. Municipal Commissioner for sanctioning a standing advance of Rs. 1000 for such purchases. The most important among them being 2 crocodiles, 5 lesser hornbills, 4 demoselle cranes, 4 painted storkes, a pair of African lions, a pair of Indian tigers, a pair of capped langur etc. etc.

Efforts were made to pair off the various wild species to breed them in the Zoo and am glad to inform that we were successful in breeding the following animals.

(1) Lion cubs	3
(2) Hippopotamus	1
(3) Sooty Megaby	1
(4) German Wild Boar	6
(4) Spotted Deer	5
(6) Tibetan Goat	1
(7) Gazelle Indian	1
(8) Jungle H.re	1
(9) Antelope Indian	2
(10) Sambhar	2
(11) 4 Horned Antelope	1
(12) Munjack	1

There were 972 animals on display in the Zoo, birds 153, laboratory animals which can be grouped as under:—

Description	For display	Laboratory Animals
(1) Mammals	182	153
(2) Birds	742	...
(3) Reptiles	45	...

Increase/Decrease during the year 1972-73.

Description	Mammals	Birds	Reptiles	Lab. Animals
(1) Born	25	20	...	202
(2) Sold	8	7	...	206
(3) Fed to snake	...	5	...	58
(4) Destroyed	...	...	...	...
(5) Exchanged	...	...	...	...
(6) Purchased	11	95	12	...
(7) Presented	5	2	3	193

Open Air Theatre

The open air theatre was hired out to the public on reasonable rent on 76 occasions during the year under report for dramas, social gatherings and Tamasas etc. and it is becoming popular day by day.

S. K. Patil Udyan

This garden is maintained very well and was used fully throughout the year by the residents from Girgaum and K. J. B. area. Facilities were provided to the students for studying in the garden by allowing them to stay in the garden till 11.00 P. M. during their examination days.

Jawaharlal Nehru Udyan

Landscape garden and fountain with water fall are the main attractive features of Jawaharlal Nehru Udyan and it is gaining popularity day by day.

Lions Municipal Parks at Juhu, Kurla & Chhatkopar

The Lions Park at Juhu, Kurla and Chhatkopar are the main attractions on western suburbs and eastern suburbs and have been provided with modern type of play apparatus. New fountains have been provided at Kurla and Chhatkopar.

Rotary Municipal Garden

Rotary Municipal Children Park at Khar Danda is beautifully laid out with lawns, trees and flower beds. Besides, various play apparatus, a mini-train for children is the major attraction for the children of suburbs and city. New fountain has also been provided at this garden.

Rock Garden behind Hanging Garden

A garden known as 'Rock Garden' is very popular with the residents of Nepeansea Road area locality and very well used by them in the evening.

Hanging Gardens

Sir Pherozsha Mehta, Garden Kamala Nehru Park and Joseph Baptista Gardens are beautifully laid out and are the major attractions for the local as well as foreign visitors.

New fountain have been provided at Veer Kotwal Garden at Tilak Bridge and the whole garden was renovated by planting lawns, shrubs and trees. A fountain was also provided at Lala Tulsiram Park, Mulund

Central hedges are being maintained at the following places:—

- (1) Netaji Subhash Road.
- (2) Hornby Villard.
- (3) Andheri Bridge.

The ornamental railings, lights, mosaic seats pathways were provided in many gardens and playgrounds in the city, suburbs and extended suburbs.

Conducted Games

The Basket Ball, Volley Ball and Football tournaments were conducted by Nagapada Neighbourhood House and Y. M. C. A. at the following Municipal playground.

- (1) Mastan Talao Playground.
- (2) Reynolds Road Playground.
- (3) Wellington Memorial Playground.
- () 2nd Peer Khan Street Municipal Playground.

New tennis court has been constructed at Wellington Lines Garden near museum behind Y. M. C. A., for the benefit of the public.

Maharashtra State Women's Council were given all the facilities to conduct directed games in our gardens and playgrounds for the benefit of local children.

Municipal playgrounds and open spaces were also given to many schools and other institutions for physical training, annual sports and tournaments.

In the Garden Competitions arranged by the Friends of the Trees and Rotary Club of Mulund, a number of prizes were given to Municipal Gardens thereby showing their standard of maintenance and upkeep.

In order to beautify the city, number of fountains were provided in various gardens. Besides, planting of trees on various roads in the city, suburbs and extended suburbs.

J. C. GARKHEL,
B.Sc., (Hons.) Agri.
Superintendent of Gardens.

VICTORIA AND ALBERT MUSEUM

The Museum Committee was constituted for the formation of Victoria Museum at the suggestion of Hon. Sri Lumsden in 1855. The building was constructed subsequently and the Museum was renamed as Victoria and Albert Museum. It was declared open to the public on 2nd May 1872. On 1st October 1885 it was handed over to the Bombay Municipality (now Municipal Corporation of Greater Bombay). The exhibits are classified in different sections such as Agriculture, Armoury, Cottage Industries, Ethnology, Fine Arts, Fossils, Indian Coins, Minerals, Miscellaneous Collections, Old-Bombay Collections, Pre-History, and Religion and Mythology. Coin-cabinet contains Ancient Indian Coins. The Reference Library attached to the Museum contains books on Art, Archaeology, Old-Bombay, History etc. 18 Volume containing specimens of Indian Textile are also made available for reference/perusal on request.

The Museum remains closed on Mondays and eight important public holidays.

Museum Hours :—From 8.30 a.m. to 5.20 p. m. on Sundays and from 10.30 a.m. to 5.20 p. m. on other working days.

Admission fee of five paise is charged per visitor above 12 years of age on all the working days except Thursdays when the admission is free to all.

In order to secure the Museum building from being damaged steps were taken to prevent the leakage of rain-water from the terrace by water-proofing the whole terrace (area of about 961 sq. metres) by laying bitumen felt. The maintenance guarantee is of eight years.

Silk chiffon 96 D Antifungus was purchased for the first time with a view to securing the old pictures from being damaged and to improving the method of preservation of the exhibits. A weighing scale with metric weights was also purchased.

Record of the articles found in the Museum premises was kept since 1969. The rules were got framed for the first time, for the disposal of the unclaimed articles. The Corporation under their resolution No. 2761, of 30th March 1973 approved the proposal to change the name of the Museum as "Dr. Bhaui Daji Lad Museum."

The details as regards the number of visitors, sale proceeds of Admission Tickets etc. are given below :—

Particulars.	1971-72	1972-73
Total number of days when the Museum was kept open	... 303	295
Total number of visitors	... 7,62,214	8,50,040
*Grant-in-aid from the Central Govt.	...Rs. 10,000.00	...
Sale proceeds of Admission Tickets	...Rs. 21,053.75	Rs. 22,708.00
Sale proceeds of Museum Guides and Minor receipts	...Rs. 2.05	Rs. 2.62
Fees for taking photographs of the exhibits	...Rs. 45.00	Rs. 60.00
Sale proceeds of Scrap	... ..	27.00
Total expenditure	...Rs. 59,636.00	Rs. 74,311.00

V. N. BARVE,
For Curator of Museum

MUNICIPAL FREE READING ROOMS & LIBRARIES

There were 24 Free Reading Rooms and Libraries (including one Circulating Library) at the beginning of the year. Two more Free Reading Rooms & Libraries were opened during the year at Kela Chauki and Wadhwa on 1-3-1972 and 16-9-1972 respectively. 20 Free Reading Rooms and Libraries were managed by the Mumbai Marathi Grantha-Sangrahalaya as per the terms and conditions of the agreement executed on 11-8-1971 according to the S. C. R. No. 2271 of 2-1-1971 and C. R. No. 2256 of 18-3-1971. The Mumbai Marathi Grantha-Sangrahalaya was allowed to conduct a library for blind in the library premises at Lower Parel since 1971. The Free Reading Room and Library at Lower Parel was closed temporarily since 1-2-1973 as the work of construction of a new building was taken in hand*.

The spread over of the Free Reading Rooms and Libraries.

	Number of Free Reading Rooms & Libraries.			Total.
	Div. I	Div. II	Div. III	
Managed by Mumbai Marathi Grantha Sangrahalaya ...	16*	2	2	20
Under Chief Librarian.	5	1	...	6
	21	3	2	26

The Free Reading Rooms & Libraries under the Chief Librarian are kept open from 7-30 a. m. to 11-00 a. m. and from 4-00 p. m. to 7-30 p. m. The Free Reading Rooms & Libraries remain closed on Mondays and other public holidays. A reader can take books for home-reading against deposit as per the rules in force. The information as regards the books purchased, number of visitors, income, expenditure etc. is given below:—

Particulars	Div. I		Div. II		Div. III	
	71-72	72-73	71-72	72-73	71-72	72-73.
Books purchased ...	291	219	162	163	...	...
Cost of Books ...	Rs. 1,650	Rs. 1,602	Rs. 995	Rs. 1,492	...	...
No. of Visitors ...	74336	79,626	15336	14,836	...	...
Income ...	Rs. 1,3838	Rs. 10,931	Rs. 3,620	Rs. 1,614	...	Rs. 1,440
Expenditure excluding grant paid to M. M. Grantha-Sangrahalaya ...	Rs. 66,230	Rs. 72,297	Rs. 11,696	Rs. 9,894	...	Rs. 3,168
Grant paid to the M. M. Grantha Sangrahalaya ...	Rs. 1,68,000	Rs. 1,37,000	Rs. 24,000	Rs. 24,000	Rs. 24,000	Rs. 24,000

* Hand over to M. M. Grantha-Sangrahalaya for management as per S. C. R. No. 868 of 26-7-1972 and C. R. No. 1267 of 14-9-1972 and S. C. R. No. 2686 of 23-11-1972 and C. R. No. 705 of 20-9-73.

V. N. BARVE
for Chief Librarian.

CENTRAL STORES

Summary or administrative report of the Central Stores for the year 1972-73.

Expenditure Incurred

For the maintenance of the Central Stores, total expenditure of about Rs. 6,47,322.49 was incurred and an amount of Rs. 71,954 was realised by way of sale of tender forms, remittance, legal charges, forfeiture of the tender deposits etc., during the year under report.

Results Achieved

During the year under report, stores valued at about Rs. 2,74,12,919.17 were purchased, in addition to the opening balance of stores valued at about Rs. 71,52,668.22. The total value of stores issued was about Rs. 2,37,91,236.07 during the year under report (1972-73). At the close of the said year, there is a balance stock valued at about Rs. 1,08,14,351.32. During the year under report about 437 tenders and quotations were invited, about 390 contracts were awarded, about 208 supply orders were placed, about 31,027 indents from various departments were complied with, and 3874 sales memos were preferred for materials supplied to Municipal contractors against department's authorisations. Scrap and obsolete articles amounting to Rs. 14,580.75 were also disposed of by sale during the year under report.

K. S. PESNA
Controller of Stores.

CENTRAL STORES

A broad outline of work handled by each of the six Purchase Officers during the year under report is given below :—

Serial No.	Work handled	Purchase Section						Total
		1	2	3	4	5	6	
1	Tenders invited ...	67	42	65	27	53	31	293
2	Quotations invited ...	37	26	46	11	20	7	147
3	Contracts awarded ...	111	48	81	41	51	55	390
4	Purchase orders placed	716	147	767	178	...	270	2078

The average inventory level and the average stock level in terms of months consumption were as under :—

	General Stores	Capital Stores	Line Suspense Account.
Average Inventory level	... 20,25,611.22	69,77,878.56	Nil.
Average stock level in terms of months consumption.	... 2.5977 months	5.8111 months	Nil.

During the year under report, 612 notices were served on the suppliers who had defaulted either by failing to execute the contract, or failing to supply the ordered materials of a satisfactory quality. In most cases, the notices had the desired effect and the contractors complied with the requirements of the same. However in 2 cases, risk and cost purchases were made and in 5 cases tender or contract deposits were wholly or partly forfeited. In addition to this, in cases where the suppliers failed to supply the materials within the stipulated delivery period without any convincing reason for this delay, penalties were recovered from their bills.

To make vacant site available for the proposed new Stores Building, the dilapidated bungalow of the Controller of Stores in the main Store Yard was demolished and its scrap disposed of by tenders on "As is where is" basis, for Rs. 14,000.

(2) **Bills and Accounts** :—During the course of the year 4258 bills were received, 31027 indents were executed and 3854 sales memos for issue of materials for the contractors' works were issued.

(3) **Disposal of scrap, etc.** :—During the course of the year, scrap and unserviceable articles valued at Rs. 13,949.75 and obsolete and surplus materials valued at Rs. 1031.00 were disposed off by sale.

(4) **Operational cost** :—Total expenditure of the Controller of Stores office was about Rs. 6,47,322.49 during the year under report. The major heads of expenditure are (a) Establishment (83 superior and 34 Labour staff) Rs. 5,55,727.00 (b) Advertisement Rs. 39,610.25, (c) Printing & Stationery Rs. 16,496.47, (d) Miscellaneous expenditure including rents, taxes, service charges, etc., Rs. 31,928.70 and (e) Maintenance & Repairs to buildings & sheds Rs. 3,560.07.

Total revenue of Rs. 71,954.00 was realised by way of forfeiture of tender deposits, rentals, sale of tender forms, legal charges, etc.

Statement "A" showing Stores transactions and statement "B" giving details of major categories of stores during the year under report are appended.

K. S. PESINA
Controller of Stores

APPENDIX 'O'

Statement 'A' showing Stores Transactions during the year 1972-73.

Particulars	Capital Stores	General Stores	Line Suspense Account	Total of Columns 2, 3 & 4
(1)	(2)	(3)	(4)	(5)
	Rs.	Rs.	Rs.	Rs.
Value of Stores as on hand on 1st April 1972.	53,70,769.54	18,21,898.68	Nil	71,92,668.22
Value of stores received including transfers during 1972-73 ...	1,75,48,389.69	97,64,519.48	Nil	2,74,12,919.17
Total ...	2,30,19,159.23	1,15,86,423.16	Nil	3,46,05,587.39
Less—Value of stores issued including transfer during 1972-73 ...	1,44,34,131.66	93,57,104.41	Nil	2,37,91,236.07
Balance on 1st April 1973 ...	85,85,027.57	22,29,323.75	Nil	1,08,14,351.32
Average Annual Inventory ...	69,77,898.56	20,25,611.22	Nil	90,03,509.77
Ratio of average inventory level to average monthly issue	9.8011	2.5977	ND	4.5413 months.

K. S. PESTNA,
Controller of Stores,

APPENDIX "O"

Statement "B" showing the details of stock held on 31st March 1972 and 1973 at Central Stores.

Particulars	Balance on 1-4-1973		Receipt during the year 1972-73		Total		Issued during the year 1972-73		Balance on 1-4-1973		Average Inventory		Average monthly consumption		Average Inventory level in terms of months	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
CAPITAL ACCOUNT																
(1) Cement	2,67,638.73		52,95,425.85		55,63,064.58		54,72,336.78		90,727.80		1,79,183.27		4,56,028.07		0.393	
(2) C. I. Pipes, Manholes, Hydrants Water and Drainage castings, etc.	42,32,065.78		78,86,675.24		1,21,18,741.02		64,48,014.65		56,70,726.37		49,51,396.08		5,37,334.55		9.215	
(3) M. S. Round Bars, Flats, Plates, C. I., G. I., Black Sheets, S. P. Tanks, etc.	2,80,564.74		26,00,067.91		28,80,632.65		8,96,846.19		19,83,786.46		11,32,175.60		74,737.18		15.149	
(4) Pipes, Stoneware and Hume	7,906.38		22,906.44		30,812.22		23,898.91		6,913.91		7,410.15		1,991.58		3.720	
(5) Galvd. Pipes and Fittings	3,08,041.79		11,55,314.04		14,63,355.83		10,38,952.93		4,24,403.00		3,66,222.40		86,579.40		4.230	
(6) Lead Pig and Lead Wool and Lead Pipes	2,71,817.80		6,88,000.21		9,59,818.01		5,53,879.88		4,05,938.13		3,38,877.97		46,156.66		7.342	
(7) Asbestos sheets, Pipes and fittings	2,734.32				2,734.32		202.42		2,531.90		2,633.11		16.87		156.097	
LINE SUSPENSE ACCOUNT																
(8) Water Works Castings on the line	Nil		Nil													
GENERAL ACCOUNT																
(9) Spindle Brass and Fittings	66,010.50		5,80,723.21		6,46,735.71		4,85,485.00		1,61,248.71		1,13,629.61		40,457.08		2.806	
(10) Meter Parts	Nil		Nil		Nil		Nil		Nil		Nil		Nil		Nil	
(11) Bolts, Nuts, Rivets, Nails, Washers and Hardwares, etc.	1,13,151.14		2,76,562.70		3,89,713.84		2,82,860.17		1,06,853.67		1,10,002.41		23,571.68		4.667	
(12) Brooms Goa, Date and Brushes	8,290.03		2,16,769.13		2,25,059.16		2,03,046.09		22,013.07		15,151.55		16,920.51		0.895	
(13) Cables and Wires	35,110.29		1,01,817.78		1,36,928.07		1,02,119.95		34,808.12		34,959.21		8,510.00		4.108	
(14) Elec. accessories, bulbs, fans, Electrodes, Dry Cells, etc.	1,20,713.60		8,03,535.43		9,24,249.03		7,27,769.36		1,96,479.67		1,58,896.64		60,647.45		2.615	
(15) Files and Rasps	3,481.00		9,038.02		12,819.02		4,575.84		7,943.18		5,712.09		381.32		14.976	
(16) Oil Castors, Cocanaut, Sweet, Kerosene, Grease, Lubricating, etc.	15,499.84		5,43,175.31		5,58,675.15		5,23,091.16		35,583.99		25,541.92		43,590.93		0.586	
(17) Timber, ladders, shaft Bhandiwood, Nowghani Poles, Plywood Sheets, etc.	1,384.04		21,663.96		23,048.00		19,903.62		3,144.38		2,264.21		1,658.64		1.365	
(18) Clothing	5,45,962.18		32,69,201.03		38,15,163.21		29,26,086.64		8,99,076.57		7,22,519.38		2,43,007.22		2.973	
(19) Disinfectants, Tropical Chloride, Cleaning Powder, etc.	52,212.44		5,98,103.06		6,50,315.50		5,74,960.33		75,355.17		63,783.81		47,913.36		1.331	
(20) Tools, Machinery, Foot rules, spanners, drills, saws, Auger screws, etc.	46,111.95		1,30,495.42		1,76,607.37		1,31,322.55		45,284.82		45,698.39		10,943.55		4.176	
(21) Soap and Soda	53,094.04		4,60,884.47		5,13,978.71		4,44,997.83		68,980.88		61,037.46		37,083.15		1.646	
(22) Baskets Cane, Bamboo and Wooden	74,302.10		3,98,268.60		4,72,570.70		4,43,154.24		29,416.36		51,859.23		36,929.53		1.404	
(23) Buckets, Dust-bins, Ghamellas Enamelware, Hurricane Lanterns Glassware, etc.	81,748.45		5,85,132.48		6,66,880.93		5,16,871.84		1,50,009.09		1,15,878.77		43,072.66		2.690	
(24) Hose rubber, belting canvas	69,721.99		2,37,795.83		3,07,517.82		2,45,607.37		61,910.45		65,816.22		23,467.28		3.216	
(25) Wires, Brass Rods, Copper Sheets zinc sheets, etc.	3,42,287.16		1,37,480.66		4,79,767.82		3,55,055.19		1,24,712.63		2,33,499.90		29,587.93		7.891	
(26) Leather Hides, Chamois, Chappals Plungers, Boots and Other leather articles	38,174.09		2,95,093.46		3,33,267.55		3,28,949.37		4,318.18		21,246.14		27,412.45		0.775	
(27) Coir goods, cotton goods, yarn spun, waste cotton, packing asbestos etc.	43,032.13		2,81,064.40		3,24,096.53		2,80,997.82		43,098.71		43,065.42		23,416.49		1.841	
(28) Paints, Powders, Linseed Oils and Turpentine	40,261.85		3,27,880.48		3,68,142.33		2,80,774.78		87,367.55		63,814.70		23,397.90		2.727	
(29) Locks of sorts	22,758.08		75,819.83		98,577.91		80,461.95		18,115.96		20,437.02		6,705.16		3.048	
(30) Miscellaneous articles (Polish.) Candles, Glue, Gum, Tiles, Powras, Shovels, Typewriters, etc.	48,591.78		4,14,024.02		4,62,615.80		4,09,912.81		53,602.59		51,097.19		34,084.40		1.498	
Total	71,92,668.22		2,74,12,919.7		3,46,05,587.39		2,37,91,236.07		1,08,14,351.32		90,03,509.77		19,82,603.01		45.413	

K. S. PESINA.
Controller of Stores.

LICENCE DEPARTMENT

Summary of the Administration Report of the Licence Department.

(1) Money Spent by the Corporation

(a) Establishment charges ...	...	...	...	...	30,47,755
(b) Other charges ...	...	...	...	...	95,769

(2) Results achieved—

Total No. of Licences issued during the year and amount realised thereafter under the various Section are as under:—

Section	No. of licences.			Revenue Realised.		
	Div.	Div.	Div.	Div.	Div.	Div.
	I	II	III	I	II	III
313 (I)	36,466	1,579	473	14,92,608	56,641	15,843
313 A B.	68,605	12,736	515	17,13,415	4,79,168	1,58,439
328 & 328A. } 393. } 394, 412A. }	40,76	1,236	251	14,13,874	3,11,762	52,961
	41,033	16,584	8,620	27,75,093	10,40,599	6,65,104

The result of the prosecutions launched for the offences U/S. 393, 394, 412A, 328 and 328A. During the year under report are as under:—

Section	No. of Prosecutions launched.			Fines inflicted.		
	Div.	Div.	Div.	Div.	Div.	Div.
	I	II	III	I	II	III
	26,056	1,302	371	1,54,260	80,870	30,755

During the year under report 2,010 auction sales of the articles seized by the Encroachment Removal Staff but not redeemed by the parties were held and amount of Rs. 32,450 was realised as against Rs. 56,531 last year.

3. Suggestions for remedying any difficulties—Nil.

4. Any other special information.

(a) Co-ordination scheme has been introduced main features of which are as under:—

- (I) Each Ward is divided into various beats and each beat is incharge of a Beat Inspector.
- (II) The Beat Inspector is to perform all the duties in connection with Licensing, factories, advertisements, hawkers, projections, Shops and Estts. and Licensing of Health Deptt. and under Maharashtra Prevention and Food Adulteration Act Rules.
- (B) Mobile Court of Presidency Magistrate started functioning from 1st February 1973 to try on spot and decide cases of Public nuisance.

LICENCE DEPARTMENT.

Licence Dept. functions in various wings viz. (1) Licence Section (2) Encroachment Section (3) S. B. etc projection Section & advt. Section; deals with sections 394, 412 A, 393, 313, 313A 314, 328 & 328A of the Bombay Municipal Corporation Act shops & Estt. deptt. which uptill now under the direct control of S. L. has now been brought under the control of chief Insp. Shops & Estt. with effect from 1-12-1972.

(1) Licence Section.

This section issue licences U/S 394, 412, A and 393 of the B. M. C. Act with a view to regulate the storages of hazardous & combustible commodities trades, steam whistles & steam trumpets on recovery of fees as per the schedule sanctioned by the Corporation vide Corporation Resolution No. 72 dated 2nd May 1967 & 2087 dated 11th March 1968 Development control rules are being applied in cases where the storages & trades come up on or after 1st April 1963.

The total No. of licences issued during the last 3 years U/S 394, 412 A and 393 of the B. M. C. Act is shown in Appendix A.

(2) Encroachment Section.

This section functions with double purpose of controlling hawkers & squatters by licensing U/S 313 A & 313 B of the B. M. C. Act and removing unauthorised hawkers on the roads & footpaths U/Section 314 with the help of encroachment removal lorries; A Committee appointed by the State Government to look in question of curbing the hawker's nuisance in the City since dissolved & the whole issue is now under the consideration of Hawkers Committee appointed by the Corporation.

With a view to coordinate the encroachment removal work A. S. L. is now put in overall charge of encroachment Section since Dec. 1972.

Total No. of licences issued to hawkers & squatters is shown in Appendix 'B'.

Auction Sales:—During the year 2,010 auctions sales of articles seized by the encroachment removal staff but not redeemed by the parties were held out of which 1,155 were in respect of non-perishable goods and 855 in resp. of perishable goods. Amount of Rs. 32,450 was realised as auction sale, proceeds as against Rs. 56,531 last year.

(3) S. B. Etc. projection Section.

This section deals with issue of permission for various types of projections viz. S. B. W & O. H. A., Show cases, steps, cupboards etc. under Section 313(1) of the B. M. C. Act.

Total No. of licences issued & amount realised by way of licence fees during the year is given in Appendix 'C'.

(4) Advt. Section.

This section enforces sections 328 & 328A of the B. M. C. Act & thereby regulates various types of advt. in Greater Bombay.

Total No. of permits issued during the last three years is shown in Appx. 'D'.

(5) Prosecutions

During the year under report 4 536 Prosecutions were launched for the offences against the provision of Section 394, 412 A, 328 & 328A of the B. M. C. Act, Details thereof along with the details of preceeding two years are given in Appendix 'E'.

(6) Mass raids.

During the year 2 Mass raids were taken & results thereof are shown in Appendix 'F'.

Co-ordination Scheme.

At present there are different activities of the different deptts. & inspectors of all these deptts. so far inspections in large areas. This resulted in many visits of various insprs. of various deptts. of the same premises & the insps. had to cover large beats. With a view to remove in convenience to the public & having effective control, activities of various deptts. viz. Licence Factory, Health, & Shops & Estt. Deptts. have now been coordinated.

The main features of the scheme are as under :—

(1) Each ward is divided into various beats & each beat is in charge of a Beat Inspr.

(2) The Beat Inspr. is to perform all the duties in connection with licensing, factories, advts., hawkers, & projections, Shops & Establishments & licensing of Health Deptt. & under Maharashtra prevention of Food Adulteration Act & Rules.

All the Beat Insprs. were given proper training before implementing the Coordination Scheme.

Functioning of Mobile Courts.

Mobile courts of Presidency Magistrates started functioning in the whole area of Gr. Bombay with effect from the 1st Feb. 1973.

The main object in establishing Mobile Courts in Gr. Bombay is to try on spot & decide cases of public nuisance. Ordinarily it is not possible to deal with these problems effectively as persons committing public nuisance are always on the move. The result is that prosecutions launched against them are rendered negatory on account of the difficulties in seizing summonses upon the offenders even seizure of goods from hawkers has proved ineffective. The hawkers get the seized goods released on payment of redemption charges. Mobile Court is only remedy to deal with this problem effectively. It is expected that the establishment of Mobile Courts would help to reduce nuisance of public places & deter the persons from committing nuisances for fear of being caught by the Mobile court & fined on the spot.

(7) Publications

- (1) A guide for licensing of storages & trades vis-a-vis Development control Rules.
- (2) Policy & Procedure for Advt. permits.
- (3) Citizens questions on licences Advt. hawkers.

(8) General.

Renewal of licences U/S 394, 412 A & 313A (S. B. etc. projections) was done during the month of April 1972 as per the usual practice.

APPENDIX 'A'

Statement showing the No. of licences and permits issued and fees recovered in the years 1970-71 to 1972-73.

Particulars	NO. OF LICENCES AND PERMITS									AMOUNT OF FEES REALISED								
	CITY			SUBURBS			EXTENDED SUBURBS			CITY			SUBURBS			EXTENDED SUBURBS		
	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73
(1) Commodities and trades including milk and its products (Section 394 and 412 A) ...	42,709	43,594	40,936	14,895	16,650	16,535	6,643	6,531	8,600	27,45,276.00	28,31,155.00	27,73,720	10,07,925.00	9,97,592.00	10,39,684	7,85,455.00	5,70,917	6,64,764
(2) Blowing steam whistle (Section 393) ...	52	50	47	33	38	49	11	16	20	1,005.00	1,298.00	1,373	1,390.00	780.00	915	355.00	669.00	640
(3) Factory permits (Section 350) ...	...	...	...	...	...	..	..	..	...	...	..	...	...	...	...	...	...	...
Total ...	42,761	43,644	41,033	14,928	16,688	16,584	6,654	6,547	8,620	27,46,281.00	28,32,453.00	27,75,093	10,09,315.00	9,98,372.00	10,40,599	7,85,810.00	5,71,586.00	6,65,400
(4) Transfer of fees (Section 394 and 412 A) ...	1,018	829	1,035	438	210	282	297	148	143	11,240.00	12,733.00	15,678	3,925.00	3,473.00	2,848	1,590.00	1,718.00	1,460
Grand Total ...	43,779	44,473	42,068	15,366	16,898	16,866	6,951	6,695	8,763	27,57,521.00	28,45,186.00	27,90,771	10,13,240.00	10,01,845.00	10,43,447	7,97,400.00	5,73,304.00	6,66,864

APPENDIX 'B'

Statement showing the number of Hawkers Licences issued and amount of fees collected during the years 1970-71 to 1972-73

Description.	Year.	No. of Licences issued.			Amount of fees collected.		
		City.	Suburbs	Extended Suburbs.	City.	Suburbs	Extended Suburbs.
(1) Squatter's fees collected in the reserved areas (under Sec. 313).	1970-71	56,538	6310	222	11,85,452.00 (Total revenue of items 1 & 2). 11,83,169	2,16,270.00	177,232.00
	1971-72	56,127	74,52	193	11,83,169.00 (Total revenue of Items 1 & 2)	2,54,249.00	1,03,661.00
	1972-73	56,033	7,322	354	11,43,268	3,48,068	96,396.00
(2) Fees received from itinerant hawkers licences (under Section 313A).	1970-71	14,890	5,735	207	(Total revenue of Items 1 & 2)	57,207.00	22,435.00
	1971-72	14,871	5,635	199	...	55,470.00	10,895.00
	1972-73	12,572	5,414	161	...	48,290	9,322
Total of Items 1 and 2	1970-71	71,428	12,045	429	11,85,452.00	2,73,530.00	39,667.00
	1971-72	70,998	13,087	392	11,83,169.00	4,09,719.00	1,14,556.00
	1972-73	68,605	12,736	513	11,43,268	3,96,358	1,05,718
(3) Recovery of expenses under 1969-70 Section 490) for removal of Encroachments under Section 314.	1970-71	...	...	...	3,73,145.00	72,155.00	21,470.00
	1971-72	...	...	...	...	...	...
	1972-73	...	...	...	5,68,147	82,810	52,721
Final Total	1970-71	71,428	12,045	429	15,58,597.00	3,45,665.00	61,137.00
	1971-72	70,998	13,087	392	...	...	...
	1972-73	68,605	12,736	513	17,11,415	4,79,168	1,58,439

APPENDIX 'C'

Statement showing the number of Licences issued in respect of Stall Board, etc. Projections in City, Suburbs and Extended Suburbs during the year 1972-73.

Description.	Year.	No. of Licences issued.			Amount of fees collected.		
		City.	Suburbs	Extended Suburbs.	City.	Suburbs	Extended Suburbs.
					Rs.	Rs.	Rs.
		36,466	1,579	473	14,92,608	56,641	15,843

APPENDIX 'D'

Statements showing the number of permits for advertisements issued and amount of fees collected during the year 1970-71 to 1972-73 under Section 328, 328A.

Particulars	NUMBER OF ITEMS									AMOUNT OF FEES (INCLUDING COMPOSITION)								
	CITY			SUBURBS			EXTENDED SUBURBS			CITY			SUBURBS			EXTENDED SUBURBS		
	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73	1970-71	1971-72	1972-73
										Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	
(1) Wall posters boardings and boards ...																		
(2) Movable boards and handcars ...																		
(3) Illuminated advertisement sky-signs ...	7,183	4,896	4,076	1,907	919	1,236	423	178	251	13,75,897.00	18,71,697	14,13,874	2,52,531.00	3,12,738.00	3,11,762	47,432.00	48,250.00	52,961
(4) Non-illuminated sky-signs ...																		
(5) Wall Paintings ...																		
(6) Ground re ...																		
Total	7,183	4,816	4,076	1,907	919	1,236	423	178	251	13,75,897.00	18,71,697	14,13,874	2,52,531.00	3,12,738.00	3,11,762	47,432.00	48,250.00	52,961

APPENDIX--'E'

Statement showing the number of prosecutions launched during the years 1970-71 to 1972-73.

Year	Offence under Section	No. OF CASES REMAINING UNDISPOSED OF			TOTAL NO. OF CASES INSTITUTED			No. OF CASES WITHDRAWN ON COMPLIANCE OF LAW			No. OF CASES WHICH RESULTED IN CONVICTION			AMOUNT OF FINES INFLICTED			No. OF CASES WHICH ARE RESULTED IN ACQUITTAL			No. OF CASES REMAINING UNDISPOSED AT THE CLOSE OF THE YEAR		
		City	Suburbs	Extended Suburbs	City	Suburbs	Extended Suburbs	City	Suburbs	Extended Suburbs	City	Suburbs	Extended Suburbs	City	Suburbs	Extended Suburbs	City	Suburbs	Extended Suburbs	City	Suburbs	Extended Suburbs
													Rs. P.	Rs. P.	Rs. P.							
1970-71	394	1,853	889	692	2,534	932	581	1,484	526	388	1,357	531	262	2,55,185.00	91,970.00	87,545.00	79	9	7	1,507	745	616
1971-72	394	1,507	745	616	2,171	1,407	480	470	466	76	939	448	196	1,77,400.00	97,995.00	40,435.00	39	49	8	2,230	1,189	816
1972-73	...	2,230	1,189	816	1,345	1,191	357	628	256	19	1,004	398	133	1,47,295.00	80,360.00	30,650.00	24	...	09	19,19	1,726	1,012
1970-71	... 328 \	593	929	30	1,027	488	51	626	613	10	281	94	17	1,684	975	535	6	3	1	712	707	53
1971-72	... 328B	712	707	53	576	157	132	285	125	23	140	42	08	3,050	990	170	5	...	...	857	687	114
1972-73	... ..	857	687	114	1,322	111	14	432	48	5	484	28		6,645.00	510.00	105.00	...	...	...	1,263	722	117
1970-71	... 313(1)	211	70	43	107	72	47	91	61	52	213	45	21	3,930	740	...	...	...	...	14	36	17
1971-72	... ,	14	36	17	537	2	13	93	...	...	416	...	5	9604	20	105	13	...	...	29	38	25
1972-73	... ..	21	38	25	192	4	...	71	...	...	135	29	1	3,675.00	...	5	...	...	...	15	13	13

APPENDIX—F

Statement showing the result of Mass raids taken during the year 1972-73.

Serial No.	Under Section	Total number of premises Inspected	Total No. of Licences	No. of cases in which infringements were detected	No. of new cases detected
	394	143	128	14	10
	313 313A	30	19	3	11

Under Section 328 and 328A

(i) Total No. of Advertisements detected. 118.

SHOPS & ESTABLISHMENTS DEPARTMENT

SUMMARY OF THE ADMINISTRATION REPORT OF THE SHOPS AND ESTABLISHMENTS DEPARTMENT.

1. Money spent by Corporation :

- (a) Establishments charges City : Rs. 9,52,460.80
(b) Other charges Subs : Rs. 14,311.76

2. Results achieved:

- (a) Total amount of Registration and renewal and miscellaneous fees received during the year is Rs. 507344.17 for City Limits (Budget A Div. I), Rs. 1,23,353.51 (Budget A Div. II) for Suburban Limits and Rs. 67,851.19 (Budget A Div. III) for Extended Suburbs.
- (b) Total amount of fines imposed by the Courts while convicting the Accused for violating the various provisions of the Bombay Shops and Establishments Act 1948 and Rules framed thereunder during the year is Rs. 1,72,595 for City Limits, Rs. 50200 for Suburban Limits and Rs. 22,915 for Extended Suburban Limits.
- (c) Total amount of Grant-in-Aid received during the year from the State Govt. towards the Administration of the Bombay Shops and Establishments Act 1948 etc. is Rs. 2,22,336.00 for City Limits, (Budget A, Div. I), Rs. 64,209.00 Suburban Limits (Budget A, Div. II), and Rs. 20,689.00 for Extended Suburbs. (Budget A, Div. III).

3. Suggestions for remedying any difficulty. ... Nil

4. Any other special Information:

Co-ordination Scheme has been introduced from 1-7-72 in accordance with which, Shops and Establishments Inspectors are now required to attend to the work of the Licence Department, Health Department and Factory Department and as well as of the Shops and Establishments Department.

M. DE SOUZA-LOUZADO,
Ag. C. I. S. E.

SHOPS AND ESTABLISHMENTS DEPARTMENT

This Department Administers Bombay Shops and Establishments Act 1948, Payment of Wages Act 1936, Minimum Wages Act, 1948 and Workmens' Compensation Act 1923 throughout Greater Bombay and as per M. C.'s orders under No. MPS/9975 (140) of 11-12-72, this Department was separated from Licence Department from 1-12-72 with C. I. S. E. as a Head of the Department.

The total number of establishments registered under Section 7 of the Bombay Shops and Establishments Act 1948 is given in Appendix 'A'.

The number of complaints pending at the close of the previous year, received and investigated during the year and pending at the end of the year is shown in Appendix 'B'.

A statement showing number of prosecutions launched, fines inflicted etc., during the preceding year and the year under report is shown in Appendix 'C'.

Financial—The Government sanctioned a total grant-in-aid of Rs. 3,07,234. for the year 1972-73 as a part of expenditure towards administration of the Bombay Shops and Establishments Act 1948, during the year 1971-72. Out of the above grant, a share of Rs. 2,22,336 was allocated for City (Budget A Division I) Rs. 64,209 for Suburbs (Budget A Division II) and Rs. 20,689 for Extended Suburbs (Budget A Divi-III) The income by way of registration etc. fees for the year 1972-73 was Rs. 5,07,334.17 for city, Rs. 1,23,353.51 for Suburbs and Rs. 67,851.19 for Extended Suburbs. The figures of income for the previous year were Rs. 3,49,895.67 and Rs. 69,683.15 and Rs. 36,496.37 for City, Suburbs and Extended Suburbs respectively. The expenditure on account of the administration of the Bombay Shops and Establishments Act, 1948 and Payment of Wages Act, 1936, etc., during the year 1972-73 was Rs. 6,80,366 for City, Rs. 1,88,993 for Suburbs and Rs. 97,413 for Extended Suburbs (exclusive of Provident Fund and leave contributions and supervision charges.)

Payment of Wages Act 1936—The number of complaints received and disposed of during the year is shown in Appendix D. During the year under report, no case was filed under the Act.

Minimum Wages Act, 1948—The total number of visits paid to the establishments covered under the Act for the enforcement of the Act during the year under report are as under:—

Category	City	Suburbs	Extended Suburbs
Shops	3,392	1,068	323
Commercial Establishments	1,398	197	165
Restaurants and Eating Houses	459	261	129
Theatres	15	9	3
Total	5,264	1,535	620

As a result of intervention of the Inspectors of this Deptt. an amount of Rs. 46,400.78 was distributed to 596 employees from City, Rs. 5,493 to 52 employees from Suburbs and Rs. 1,356 to 9 employees from Extended Suburbs by way of increase in wages, difference, etc., The number of complaints received and disposed of during the year is shown in Appendix E. During the year under report, no court case was filed under the Minimum Wages Act.

Workmen's Compensation Act, 1923—During the year under report, no establishment was visited for the above purpose.

For the purposes of Bombay Shops and Establishments Act and the Minimum Wages Act number of Mass Raids held during year is as per Appendix 'F' respectively.

GENERAL

Renewal of Registration certificates under the Bombay Shops & Establishments Act 1948 was done as usual during December 1972.

R. H. PASTAKIA,
Chief Inspector Shops and Establishments.

APPENDIX 'A'

Category	City	Suburbs	Extended Suburbs
Shops	63,472	22,655	10,640
Commercial Establishments	33,080	4,211	3,873
Residential Hotels	887	86	29
Restaurants and Eating Houses	4,663	2,267	1,006
Theatres etc.	86	28	15
Total	1,02,188	29,247	15,563

APPENDIX 'B'

No. of complaints	City	Suburbs	Extended Suburbs
Pending at the close of the previous year	89	9	1
Received during the year	1,105	285	115
Investigated during the year	1,159	281	97
Pending at the end of the year	35	13	19

APPENDIX 'C'

Year	Cases pending from the previous year	Cases filed	CASES DISPOSED OF					Total	Cases pending at the close of the year	Fines	Average fine per case
			Convictions	Withdrawals	Acquittals	Abated	Warned and discharged				
<i>City</i>											
1971-72...	3,719	5,392	5,466	10	10	...	...	5,486	3,625	Rs. 2,12,107	Rs. 38.03
1972-73...	3,625	4,912	4,225	300	11	...	...	4,536	4,031	1,72,595	41.00
<i>Suburbs</i>											
1971-72...	1,427	1,544	1,693	4	16	...	...	1,713	1,258	62,250	36.77
1972-73...	1,258	1,555	1,468	60	6	...	...	1,534	1,279	50,200	34.00
<i>Extended Suburbs</i>											
1971-72...	270	470	588	6	...	...	...	594	146	19,635	33.39
1972-73...	146	756	655	105	...	...	...	759	142	22,915	35.00

APPENDIX 'D'

Complaints	City	Suburbs	Extended Suburbs
Pending at the close of the previous year	3	2	1
Received during the year	210	40	14
Disposed of during the year	209	39	14
Pending at the end of the year	4	3	1

APPENDIX 'E'

Complaints	City	Suburbs	Extended Suburbs
Pending at the close of the previous year	1	...	...
Received during the year	85	2	...
Investigated during the year	84	2	...
Pending at the end of the year	3	...	...

APPENDIX 'F'

	City	Suburbs	Extended Suburbs
Shops and Establishments Act	411	195	89
Minimum Wages Act ... ..	...	1	...

MARKET DEPARTMENT

Summary of the Annual Administration Report of Market Department

Annual Administration Report of Market Department for the year 1972-73 is summarised as below.

MARKETS AND SLAUGHTER HOUSES IN CITY

There are in all 33 municipal markets and one slaughter house in Bandra. There are also 13 private markets. Total revenue derived out of these institutions is Rs. 1,00,67,070 as against Rs. 98,41,659 in the previous year.

The total expenditure incurred on establishment and maintenance of these institutions amount to Rs. 55,10,001.

Markets in Suburbs and Extended Suburbs.

There are in all 33 municipal markets (including three open air markets) and seven private markets. Total revenue derived out of these institutions is Rs. 21,01,173.16 as against Rs. 22,25,838.37 in the previous year. The decrease in the revenue is mostly because of partial shifting of slaughtering sections from Eastern Suburbs to Deonar Abattoir.

Total expenditure incurred on establishment and maintenance of these institutions amount to Rs. 12,73,640.

Results.

These markets and slaughter houses have supplied human food articles to the citizens viz. meat, beef, pork, fish, vegetables and fruits, etc., in wholesome quality.

Deficiencies

Deficiencies are experienced because of non-availability of plots free from all incumbrances to promote more marketing facilities.

Suggestions.

Growth of market activities can be promoted on still more better footing provided the plots are made available free from all the incumbrances and that the construction material does not prove to be a serious handicap.

Summary of the Annual Administration Report of Deonar Abattoir.

Annual Administration Report of Deonar Abattoir for the year 1972-73 is summarised as below:—

All the Units of the New Abattoir, commissioned during the last year, continued to work throughout the year. Due to relaxation of quota restrictions imposed on the slaughter of horned cattle in the month of October 1972, the slaughtering of horned cattle has been substantially increased from the month of November 1972. The butchers from Eastern Suburban area, after losing various Court Cases filed by them against our directions to shift to Deonar Abattoir, have ultimately shifted from 12th January 1973 and started slaughtering their animals. The total gross revenue was Rs. 10,69,405 during the year under report and total expenditure incurred on Establishment and the Maintenance was Rs. 10,76,900.

The Government have revived the sanction for the closure of the Slaughter House on 13th March 1973 and the steps are now being taken to close down the slaughter houses at Bandra. It is expected that the Slaughter Houses at Bandra can now be effectively closed down. Once the Slaughter Houses at Bandra are shifted to Deonar, the Sheep Unit as well as the Cattle Unit will work to its fullest capacity, yielding the expected revenue.

The Abattoir being the most up-to-date and maintained best hygienically, has been the attraction of the traders from the other countries, who are interested in importing meat from India and it is expected that there will be sizeable export of meat from this new Abattoir to various countries abroad and the Corporation would earn foreign exchange substantially in the near future.

Over 300 tenements have been made available to the Slaughter House Workers and allotment thereof is in progress.

The work of construction of, (i) remaining four sheds of Live-Stock Markets (ii) Additional 600 quarters for Slaughter-House Workers and (iii) Administration Building are expected to be started in the next year. The tenders are already invited and scrutiny is nearly over.

The work of over-head Bridge on the Wadala-Ghatkopar Road near Govandi Railway Station is in progress and still not completed. Once this bridge is completed, the entire traffic especially of trucks bringing live-stock and that of the meat vans can be faster and the meat vans can make more trips.

The work of 60' road connecting Eastern Express Highway near Chembur Ghatkopar Road is also in progress and it is expected that both these works would be completed within few months.

Dr. D. M. BAILUR, G. COMES
G. M. D. A. Ward Officer (Market)

ADMINISTRATION REPORT OF MARKET DEPARTMENT

Dr. D. M. Bailur, B.Sc. (Vet.), M.R.C.V.S. (London) General Manager, Deonar Abattoir was in overall charge of the Markets and Slaughter Houses Department during the year under report.

Shri A. N. Sabnis B.E. (Civil), M.E. (P.H.), A.M.I.E. (India) continued to hold the office of Ward Officer (Markets) till 30th November 1972. On promotion of Shri A. N. Sabnis as E. E. (Structural) Shri G. Gomes, M.I.C. (India), A.M.I.B.E., A.M.I.E.T. (London), L.S.G.D. was appointed as Ward Officer (Markets) and was in charge of this department.

(1) **Markets.**—In all there were 46 markets in the City. 33 Municipal and 13 Private Markets (licenced by the Municipal Corporation of Greater Bombay). The licence fees recovered from the owners of these Private Markets amounted to Rs. 93,818 as against Rs. 95,961 during the previous year.

(2) **Outside Shops.**—There were 234 (195 meat and 9 fish stall) outside meat shops in the City licenced by the Municipal Corporation in addition to meat and fish stalls in Municipal and Private Markets for sale of mutton, beef, pork and fish. The licence fee realised was Rs. 11,350. In all 127 licences were issued to parties for the sale of imported meat, refrigerated meat, frozen fish Ham Bacon and Sausages and the licence fee realised was Rs. 11,880.

(3) **Scale Shed.**—During the year under report the total fee collected at the Scale-Shed, Mahatma Jyotiba Phule Market, amounted to Rs. 16,56,914 as against Rs. 16,12,016 during the previous year.

(4) **Fish Saazon.**—During the year under report the total quantity of fish brought to the market was about 41,709 metric tons as against 55,919 metric tons during the previous year. The decrease in quantity is on account of less arrival of fish during the year under report.

(5) **Cold storage facilities.**—The cold storage plant at Mahatma Jyotiba Phule Market continued to meet the requirements of preservation of fish, vegetables, fruits, meat, eggs, milk and milk products etc. The plant consisted of 3 chambers one for storing fish at 28°F to 31°F, one for mutton at 30°F to 37° and one for vegetable etc. at 35°F to 40°F.

The plant is worked by the FREON 12 system with four wasting House condensing units and direct expansion coolers (OZONE Generator for de-odourising and disinfecting bacetria in chambers is also provided).

The approximate quantity of perishable goods deposited and amount realised by way of fees at the Cold storage during the year under report were as under.

Commodity	Quantity deposited		Amount realised	
	1971-72	1972-73	1971-72	1972-73
	Kgs.	Kgs.	Rs.	Rs.
Fish	1,29,640	8,8035		
Fruits & Vegetables	9,61,500	1243300		
Mutton	1,24,335	140258	17,330.00	17,869
Eggs	33,244	38792		
Milk and Milk products	—	—		

(6) **Receipts.**—The total receipts during the year amounted to Rs. 1,00,69,070 as against Rs. 98,41,659 during the previous year.

(7) **Stalls and Spaces in Markets.**—In all markets in the City There were 4,823 regular stalls provided for sale of different commodities such as flowers, fruits, vegetables, fish, mutton, beef, pork, poultry, eggs etc. The stalls continued to be well occupied throughout the year. In addition to these regular stalls there were about 409 spaces in the Municipal Markets in the City provided for persons doing day to day business. Spaces provided for on daily payment basis also were continuously occupied through out the year.

(8) **All Markets including Private Markets** were regularly supervised. The Veterinary Officers and qualified Public Health (Sanitary) Inspectors carried out the work of inspection of articles of food such as meat, fish, fruit, vegetables, etc., with a view to prevent the exposure of unwholesome food article for sale of human consumption. During the year under report 2,02,348 Kgs. of unwholesome food articles in the aggregate were destroyed.

(9) **Surprise Raids.**—Surprise raids to detect the smuggling and unauthorised slaughter of animals and also the import and sale of contraband meat were carried out by the staff specially appointed for this purpose. During the year 43,261 Kgs. of contraband meat was seized and destroyed. In all 2,016 seizures were effected in different parts of the city and 1,650 prosecutions were instituted. The fine imposed amounted to Rs. 52,713. The amount realised by selling seized animals and skin etc. was Rs. 17,580. In addition to this an amount of Rs. 320 was recovered by way of penalty from different parties, who were found importing animals into the city without requisite permits.

Slaughter Houses

(10) **One main Municipal Slaughter House viz. at Bandra for Slaughter of Horned Cattle, Buffaloes, Sheep and Goats** was continued to be operated during the year. The slaughtering chamber at Sheep Market at N. M. Jashji Marg, meant for slaughter of sheep and goats for religious purposes was continued during the year to meet the demand from the public. The revenue derived from the source amounted to Rs. 2343,411 as against Rs. 27,83,266 during the previous year. The apparent decrease in the revenue is due to shifting of certain slaughtering sections to deonar viz. slaughtering operations from eastern suburb Pig slaughter and partial beef slaughter.

Only one licence has been granted for slaughtering of frogs at Dharavi.

(11) The number of animals brought to the fair ground at Bandra Slaughter House and the number of animals slaughtered were as under.

Animals brought to the fair ground at Bandra Sl. House and Pig Sl. House at Sane Guruji Marg					
Year	Buffaloes	Horned Cattle	Sheep & Goat	Pigs	Piglings
1971-72	12,822	81,803	22,65,395	13,166	71
1972-73	12,926	9,523	24,27,457		

Animals Slaughtered					
Year	Buffaloes	Horned Cattle	Sheep & Goats	Pigs	Piglings
1971-72	12,569	80,492	13,85,471	12,681	71
1972-73	12,466	90,833	14,77,024		

(12) Government Veterinary Staff as usual inspected the horned cattle and buffaloes in the slaughter house as per the provisions of the Animal Preserving Act. Animals intended for slaughter were subjected to proper ante-mortem and post-mortem inspection by qualified Veterinary Staff. Unwholesome meat detected was seized and destroyed by the staff of the Slaughter House.

(13) The Principle causes of ante-mortem rejection of animals were Emaciation, Exhaustion, Pregnancy, Sheep-pox, footrot, Actinomycosis, Leukemia, Opine's disease, Junice and Febrile conditions, Diarrhoea and other diseases of inspections nature rendering meat unfit for human consumption. In case of buffaloes and horned cattle most of rejections were due to animals being young and fit for breeding, milch farm or cart purposes.

(14) The main causes of post-mortem condemnation were cysticercus bovis, liver fluke, Abscesses, Bruises, Sarcocystis, Hydatidosis and other parasitic and Nodular infections of liver and lungs.

(15) The approximate weight of dressed carcassmeat of buffaloes and cattle was 11,511 metric tons, that of sheep and goats 14,741 metric tons. Most of this meat produced was for meeting the demand in the City. The quantity of meat rejected and destroyed as unfit for human consumption was 39.2 metric tons of beef, 26.3 metric tons of mutton which worked out to 0.37 and 0.17 per cent respectively of the total meat.

(16) Immunization of cattles and dogs is being done by a band of Veterinary staff appointed for the purposes.

During the year review 167 dogs and 34705 milch cattles were immunized. The work was carried out at 10 centers.

There were 18 suspected cases of Rinderpest during stable inspection. The curative and prevention treatment to animals is also continued at the Khar Veterinary Dispensary.

(17) Lectures and Demonstrations on food inspection, Meat Hygiene etc., were given to Medical and Veterinary Students of different Medical and Veterinary Collages and also to the students preparing for Public Health Inspectors Examination from Municipal Corporation of Greater Bombay and Local Self Governmen Institute.

APPENDIX 'A'

Statement showing the receipts under different terms during the year 1972-73 and the previous year.

Serial No.	1971-72	1972-73
	Rs.	Rs.
(1) Stallages	27,70,639	31,32,364
(2) Squatter fee	19,75,469	20,54,305
(3) Admission fee collected at Bandra Slaughter House	7,24,640	11,74,386
(4) Slaughter and removal fee collected at Bandra Slaughter House, Sheep Market at N. M. Joshi Marg	20,08,284	12,19,595
(5) Licence fee collected from stalls and shops in Municipal Markets	21,050	18,442
(6) Licence fees for doing different type of business at Bandra Sl. House	26,477	21,141
(7) Licence fees from Private Markets Owners	95,961	93,818
(8) Licence fees from firms dealing in foreign frozen fish and imported meat, ham, bacon and sausages etc.	9,700	11,810
(9) Licence fees from outside meat shops	19,600	11,350
(10) Licence fees from Butchers in Private Markets	7,850	2,805
(11) Licence fees from Brokers in different Municipal Markets	2,42,637	1,97,827
(12) Scales fees at Mahatma Jyotiba Phule Market	16,12,016	16,56,912
(13) Sale of right of blood at Bandra Slaughter House	25,515	25,515
(14) Sale of right of removing bone pieces at Bandra Slaughter House	2,000	2,030
(15) Nokarnama fees	4,284	4,138
(16) Cold Storage fees	17,330	17,869
(17) Law charges	60	60
(18) Ground Rent	72,437	92,104
(29) Chawl Rent	55,095	1,15,963
(20) Miscellaneous	1,49,265	1,16,563
Grand Total	98,41,659	1,00,69,070

Deonar Abattoir

All the Units of the Abattoir continued to function smoothly during the year 1972-73.

The work of construction of 4 animal Market Sheds is nearing completion and one of sheds is in use for stabling horned cattle.

The Government of Maharashtra removed the restrictions on the number of horned cattle to be slaughtered in the Municipal Slaughter Houses with effect from 17th October 1972. These Quota restrictions were in force since 1944. With the removal of the Quota system, the butchers were allowed to slaughter animals as per their requirements at Deonar Abattoir. However, in view of the dilapidated condition of the slaughter houses and inadequate facilities at Bandra, the butchers from Bandra were directed to get the animals in excess of the original quota slaughtered at Deonar Abattoir. Due to this, the number of buffaloes and bullocks slaughtered per week at Deonar was increased from 141 and 12 to 600 and 300 per week respectively.

Number of Importers from the various countries especially from Middle East and European countries have visited Deonar Abattoir and expressed full satisfaction of the working of the Abattoir and the hygienic and sanitary arrangements prevailing thereat. They have started importing meat of the animals slaughtered at this Abattoir. The MAFCO, a State Government enterprise, have also exported Mutton and Beef of the animals slaughtered at Deonar Abattoir to Middle East Countries.

Messrs. Hoechst Pharmaceuticals of Germany Started production of Foot and Mouth Vaccine from the Cattle calves slaughtered at Deonar Abattoir, which was so far not manufactured in India.

The Pharmaceutical concerns have started taking the benefit of this Abattoir. Messrs. Sandoz Ltd. collected the Pancreas from this Abattoir and have produced Pancreatin. The bacterial flora found in this Pancreatin was much lower than the Pancreatin manufactured in U. K. which shows that the hygienic standards of this Abattoir was not only on par with international standards laid down in this respect but was above it.

Messrs. Lab. Grimault collected blood of horned cattle in unclotted condition for the preparation of various tonics etc.

The ovaries and the bile of the animals slaughtered at Deonar Abattoir was also collected for pharmaceutical and industrial purposes.

The small slaughtering chambers attached to various Municipal Markets scattered in Eastern Suburban areas were effectively closed down from January 1973, after the butchers lost the various Court Cases filed by them. In all 6 Judges of the City Civil Court and 6 Justices of the High Court heard the various Suits, notices of Motion, Appeals and Petitions filed by the butchers, either individually or through their Association and Federations.

The Government sanction for the closure of Municipal Slaughter Houses at Bandra and in Western Suburban areas as required under Section 400 of the Bombay Municipal Corporation Act, was revoked by the Government on 15th March 1972 and hence the shifting of Bandra etc., Slaughter Houses could not be done as proposed. However, on 13th March 1973 the Government has again revived the sanction for the closure and the steps are being taken to close down Bandra and other Slaughter Houses in Western Suburban area and shift the slaughtering activities to Deonar Abattoir.

The Government of India have opened their first Demonstration-cum-Training Centre for Gut processing in the compound of Deonar Abattoir in order to improve the quality of Guts for export purposes.

The construction of quarters for the Slaughtermen, absorbed in the Municipal Services was in progress. 72 quarters have been allotted to the Slaughtermen and other Slaughterhouse workers and 25 quarters have been allotted to the Superior Staff. In all 996 quarters are proposed to be constructed.

The number of animals brought and slaughtered at Deonar Abattoir during the year, as compared to the previous year were as follows:—

Animals Brought at Deonar Abattoir

Year.	Buffaloes	Bullocks	Sheep & Goats.	Pig.	Piglings	
1971-72	...	1,484	346	6,894	9,353	43
1972-73	...	14,101	6,059	1,07,600	16,860	56

Animals slaughtered at Deonar Abattoir

Year.	Buffaloes	Bullocks	Male Buff-calves.	Sheep & Goats.	Pigs.	Piglings.	
1971-72	...	1,484	346	...	6,845	9,057	42
1972-73	...	13,572	5,863	329	1,06,147	16,763	49

Total quantity of Meat produced during the year was 4,662,940 tons of Beef, 1061,470 tons of Mutton and 419,320 tons of Pork. The total quantity of Meat condemned on post-mortem inspection was 13,544 tons beef, 3,123 tons Mutton, 5,800 tons Pork which works out at 0.279% in Beef, 0.2% in Mutton, 1.383% in Pork.

Statement showing the Revenue Collected at Deonar Abattoir

	1971-72	1972-73
	Rs.	Rs.
1. Fair Fees	3,984.15	69,034.00
2. Slaughter Fees	74,591.45	4,49,288.25
3. Licence Fees	270.50	3,913.75
4. Service charges for slaughtering of animals	63,357.80	4,45,319.50
5. Miscellaneous Receipts	11,321.90	91,713.10
6. Rent	...	10,137.32
Total	1,53,525.80	10,69,405.92

Dr D. M. Bailur, B.Sc. (Vet.) M.R.C.V.S. (London), continued to hold the Office of the General Manager during the year under report. Shri V. B. Shirodkar B.E. (Electrical) (Hon.) M.I.E. continued to hold the Office of the Executive Engineer (Maintenance) during the year under report.

(SUBURBS) & (EXTENDED SUBURBS)

Shri N. V. Prabhu Matric S.I.E. L.S.G.D. was in charge of the markets in Western Suburbs including Western Extended Suburbs during the year.

Shri M. L. Naik Matric S.I.E. was in charge of the Markets in Eastern Suburbs including Eastern Extended Suburbs during the year.

Summaries of the report with regard to the various improvements made in the markets and expenditure incurred thereon during 1972-73 (Suburban.)

Name of the Markets.	Moneyspent by the Corporation.	Results achieved	Suggestion for remedying any deficiencies.	other special information.
(1)	(2)	(3)	(4)	(5)
	Rs.			
Mulund (East)	13,000.00	Tabular shed for fish and vegetable squatters.	...	
Mulund (West)	55,500.00	Construction of cement platforms & tabular shed over it.	...	
H. B. G. Market	1,312.00	Extension of passage of Mutton Section.	...	
P. S. V. Market	8,232.00	Certain major and minor repairs (Compound wall etc.)	...	
New Kurla	300.00	Three doors to the entrance of the mutton section provided.	(1) Lowering the height of eggs and fowl stalls. (2) Re-wiring of fish section.	
Tilak Nagar	2,000.00	Connecting waste water drains from outside Shop No. 16 and vegetable section to the underground drain with washing and oil painting	(1) Compound wall on the rear side of the market. (2) Collapsible gate in fish section.	
Chembur Naka	...	(1) Painting wooden chowky & iron work at Chembur Naka Market. (2) Repairs to expanded metal at the market.		
Takya Market	...	...	(1) Construction of W. C. Block. (2) Construction of running platform for fish in shed used for teathering the animals.	

* The Veterinary Dispensary at Khar was equipped with some amenities such as replacement of dressing and operating table certain equipments and painting etc.

(SUBURBS)

(1) Markets.—There were 23 Municipal Markets and 2 Private Markets in the Suburbs during the year 1972-73.

(2) Outside Shops.—There were 279 outside meat shops in Suburbs (180 for sale of mutton 91 for beef and 8 for pork) Licenced by the Corporation during the year under report. Besides, 65 licences were issued to private parties for sale of refrigerated fish, mutton beef, pork and pork products by the Corporation.

(3) The number of Municipal Slaughter Houses and slaughtering chamber during the year was Nil and 4 respectively. The total number of animals brought for slaughter at present in slaughter house and slaughtering chambers in Suburbs and number of animals slaughtered thereat after antemortom examination compared with those of previous year were as follows:—

Year	Animals brought for slaughtering at different slaughter houses			Animals slaughtered			
	Buffaloes	Horned cattle	Sheep & goats	Buffaloes	Horned cattle	Sheep & goats	
1971-72	—	6,620	687	1,54,365	6,614	685	1,54,365
1972-73	—	98,225	...	...	97,947

The approximate weight of dressed meat of buffaloes and horned cattle was Nil Metric tons and that of sheep and goat was 1046.92 metric tons.

The unwholesome articles of food such as fish, fruits, vegetables, meat etc., weighing 20 metric tons were destroyed during the year indifferent markets.

The total meat destroyed was 8.66 metric tons as against 15.049 metric tons during the last year.

In all 519 raids were carried out for detecting unauthorised slaughter of animals in the Suburbs. In all 500 cases were filed in which 500 accused were convicted and fined. The amount of fines inflicted during the year was Rs. 9,625.

The total amount realised in auction sale of confiscated animals and sale of skins etc., was Rs. 2,104.

The following improvements were made in Municipal markets and slaughter houses during the year under report:—

Special Repairs.

- (1) Painting wooden Chowky and iron work at Chembur Naka Market.
- (2) Repairs to expanded metal at Mutton Section, Chembur Naka Market.
- (3) Construction of refuse shed at B. T. Market, Bandra.
- (4) Repairs to flooring of Mutton and Beef Section, Bandra Town Market.
- (5) Oil painting and snowcem to Bandra Town Market.
- (6) Special Repairs to the shops of Ex-Bangdiwalla Chawl, Khar Market.
- (7) Messenary Brick compound wall, near Beef Section at Park Site Vikhroli Market.
- (8) Thin partition wall to slaughtering chamber at Park Site Vikhroli Market.
- (9) Oil painting and Lime wash to Park Site Vikhroli Market.

New Works.

- (1) Providing additional gate and access to the Pali Market.
- (2) Providing water storage tank at Kherwadi Market.
- (3) Construction of Sahar Road Market.
- (4) Extension of passage in Mutton Section of Hutatma Baboo Genoo Mandai.
- (5) Providing overhead storage tank over the washing place in Vegetable Section, Khar Market.
- (6) Providing turn style gates at the entrance in between fish section and refuse shed, Khar Market.
- (7) Providing glazed style to the walls and stalls in Mutton Section, Khar Market.

Statement showing the receipts under different items during the year 1972-73.

Serial No.	Particular	Amount received 1971-72	Amount received 1972-73
(1)	Stallage charges	4,43,378.01	4,35,965.94
(2)	Squatters' fees	4,14,731.19	4,39,863.39
(3)	Slaughter fees	5,19,229.50	3,60,688.00
(4)	Miscellaneous Receipts	39,821.41	54,435.28
(5)	Licence fees	40,776.35	23,254.10
(6)	Share of enhanced entrance fees	1,18,922.05	1,23,373.35
(7)	Rent	973.77	1,162.03
(8)	Veternary Department fee	—	3,633.50
	Total	15,77,832.28	14,42,375.59

EXTENDED SUBURBS

(1) **Markets.**—There were in all 10 Municipal Markets (including 3 open Air Markets) and 5 Private Markets licensed by the Corporation.

(2) **Outside shops.**—There were 112 outside meat shops during the year. Out of which 93 were mutton shops, 14 for beef shops and 5 for sale of refrigerated pork and pork products. Besides 8 licences were issued to private parties for sale of refrigerated fish, mutton, beef, pork and pork product by the Corporation.

(3) The slaughtering of animals (sheep and goats) was done at the slaughtering chambers attached to Borivli, Kandivli and Mulund Markets; and at private markets at Goregaon and Malad. The total number of animals brought for slaughter at the Municipal slaughtering chambers during the year was 36,817. The total number of animals slaughtered was 36,515 as against 41,415 slaughtered in the previous year.

During the year 293 Kgs. mutton, 1,723 Kgs. fish, 2,498 Kgs. vegetables and 1,693 Kgs. fruits were destroyed on inspection in the market.

In all 9 raids were carried out for detecting unauthorised slaughter and also of animals in the extended suburbs during the year. In all 8 cases were filed and resulted in conviction. Total fines inflicted were Rs. 275. Besides, 135 Kgs. of meat was seized and destroyed as unwholesome during the year.

The following improvements were made in Municipal Markets and Slaughtering Houses during the year under report:—

Special Repairs

- (1) Rewiring of Akurli Road Market, Kandivli.
- (2) Replacement of A. C. Sheets on the roof at Vegetable Market Mulund.
- (3) Construction of cement platforms and tabular shed over it at Vegetable Market, Mulund.
- (4) Filling of the open spaces between the roofs of permanent structure and a newly constructed shed at Mulund Market (East).

New Works.

- (1) Providing water connection to Akurli Road Market.
- (2) Providing electric points and ceiling fans in the Chowky newly constructed at Vegetable Market, Mulund.
- (3) Provision of one W. C. block and 2 Urinals behind cutlery section at Vegetable Market, Mulund (West).
- (4) Providing additional electric points in the newly constructed shed at Mulund Market (East).

Statements showing the receipts under different items during the year 1972-73.

Serial No.	Particulars	Amount received	
		during 1971-72	during 1972-73
		Rs.	Rs.
(1)	Stallage charges	2,45,874.07	2,53,574.63
(2)	Squatters' fees	2,41,006.72	2,11,202.23
(3)	Slaughter fees	1,34,864.00	1,79,130.00
(4)	Miscellaneous Receipts	3,931.21	6,831.51
(5)	Licence fees	18,319.55	4,067.30
(6)	Rent	4,060.54	3,991.90
	Total	6,48,056.09	6,58,797.57

Dr. G. M. BAILUR
G. M. D. A.

G. GOMES
Ward Officer (Market)

MUNICIPAL PRINTING PRESS

Summary of the Annual Administration Report of the Municipal Printing Press

The Annual Administration Report of the Municipal Printing Press for the year 1972-73 is summarised as follows:—

I—Expenditure—

(1) Establishment	...	Rs.	16,35,036.46
(2) Others	...	Rs.	26,28,998.81

II—Results—

(1) Total number of jobs printed	...	7,167
(2) Total number of stationery jobs supplied	...	1,808
(3) Total number of printed pages for Corporation and its various Committees	...	56,261
(4) Amount charged to Departments	...	Rs. 41,10,994.23
(5) Amount charged to Private Parties	...	Rs. 53,406.78

III—Suggestion—

- (1) Machines were purchased long back and due to constant use in two shifts, they are required to be replaced.
- (2) Additional space, machinery and manpower are required to take up Marathi work which is at present printed by the Contractors. } Proposal for additional space has already been submitted and Budget provision for Rs. 140,000 has also been made for machinery.

A. G. HEMMADI,
Officer on Special Duty,
Municipal Printing Press.

MUNICIPAL PRINTING PRESS

Shri A. G. Hemmadi was in charge of the Press during the year 1972-73.

During the period under report 550½ Metric tons of paper was purchased from the market for the requirements of the various departments.

The statement of the jobs carried out and the pages printed for the Corporation and its various Committees as well as for the B. E. S. & T. Undertaking during the period under report as compared with those in the previous year is given below :

Description	1971-72		1972-73	
	Jobs	Pages	Jobs	Pages
Departmental Printing ...	9333	...	7114	...
Departmental Stationery ...	1521	...	1795	...
Private Parties Printing ...	37	...	45	...
Private Parties Stationery ...	5	...	13	...
B. E. S. & T. Undertaking Printing ...	10	...	8	...
Corporation & its Committees ...		33341E 3202M		36096E 6577M
Corporation Record ...		9909		11156E 1570M
B. E. S. & T. Committee ...	...	...	...	862
	10906	46452	8975	56261

The total quantity of paper consumed during the year, under Report was 485½ Metric tons as against 384½ Metric tons and 417½ Metric tons in the preceding two years.

Description of paper	1970-71		1971-72		1972-73	
	Rate per Kg.	Quantity consumed in metric Tons.	Rate per Kg.	Quantity consumed in metric Tons.	Rate per Kg.	Quantity consumed in metric Tons.
White	Rs. P. 2.35	144½	Rs. P. 3.15	251½	Rs. P. 3 50	338
Nepa	1.84	15½	2.31	24	2 33	25
Other kinds	2.64	124½	3.28	142	3 21	122½
		384½		417½		485½

Transaction of the Press of the year closed with working surplus of Rs. 3,10,245 on the total turnover of Rs. 41,64,401 as against surplus of Rs. 59,416 (1970-71) and surplus of Rs. 74,009 (1971-72) on turnover of Rs. 33,05 lacs and Rs. 35.64 lacs respectively for the previous two years.

The work carried out through Outside Agencies was worth Rs. 37,284 as against Rs. 28,002 for the previous year.

The Press has started the work of Corporation, L. R. G. P. and Markets, etc., Committees in Marathi Letter Press with the existing staff and machinery in the year under report.

Municipal Printing Press has completed about 1618 pages of Marathi Budget in time with the existing staff and machinery resorting to overtime and in addition to this the printing work of the Municipal General Election 1973 was also carried out in the year under report.

The number of labour staff responding to Incentive Bonus Scheme is 80 as against 69 for the previous year.

The labour staff as on 28th February 1973 consisted of 348 workers as against 295 workers on 28th February 1971 and 308 workers on 29th February 1972.

The Press is working in two shifts and the Press Labour relations were very cordial as their grievances were redressed on the spot wherever practicable.

A. G. HEMMADI,
Officer on Special Duty,
Municipal Printing Press.

MUNICIPAL PRINTING PRESS.

Income and Expenditure Account for the year 1972-73.

Expenditure			Income		
	Rs.	Rs.		Rs.	Rs.
Opening Balance			Amount charged to Departments	41,10,994.23	
Materials in hand	8,40,241.23		Amount charged to Private Parties	53,406.78	41,64,401.01
Works in Progress	7,06,092.45	15,46,333.68	Sale of Waste Paper etc.		50,217.00
Expenditure during the year:			Closing Balance:		
Establishment	16,35,036.46		(1) Material in hand	10,75,813.91	
Contingencies	1,11,957.22		(2) Work in Progress	8,78,401.86	19,54,215.77
Repairs & Maintenance	1,06,628.34				
Stores	19,56,519.00				
Electric Power	22,747.06				
Work through Outside Agencies.	37,283.88				
Provident Fund	49,321.27				
Debt Charges	3,09,342.38				
Transport	29,011.92				
Depreciation	110.75				
New Works	6,076.99	42,64,035.27			
Private Works:					
(1) Labour	42,491.55				
(2) Material	5,728.67	48,220.22			
Excess Income over Expenditure:					
(1) Departmental Works	3,05,058.05				
(2) Private Works	5,186.56	3,10,244.61			
		61,68,833.78			61,68,833.78

MUNICIPAL PRINTING PRESS
Balance Sheet as at 31st March 1973

LIABILITIES	Rs.	P.	Rs.	P.	ASSETS	Rs.	P.	Rs.	P.
CAPITAL—									
(1) Advances from the Surplus Cash Balance	5,544	00			(1) Plant and Machinery purchased out of Surplus Cash Balance			5,544	00
(2) Advances from Net Premia Fund	1,68,221	12			(2) Plant & Machinery purchased out of Net Premia Fund			1,68,221	12
(3) —Do—	49,201	19			(3) —Do—			49,201	19
(4) —Do—	22,745	31			(4) —Do—			22,745	31
(5) Advances from Special Funds	1,81,685	55			(5) Do. Out of Special Fund			1,81,685	55
(6) —Do—	7,134	37			(6) —Do—			7,134	37
(7) —Do—	415	00			(7) —Do—			415	00
(8) Advances from Capital Works—Loan Funds, I.—General Supervision, Collection of Revenue Item No. 7, Conversion of Crusher Godown at Carnac Bridge	5,06,193	65			(8) & (9) Plant and Machinery purchased out of I.—General Supervision, Collection of Revenue, Item No. 7, Conversion of Crusher Godown at Carnac Bridge			1,55,903	66
(9) —Do—	1,09,122	24			Do. Books and Dead Stock			11,640	38
(10) Advances from Plant & Machinery Depreciation Fund,	1,39,669	10			Do. Cost of Crusher Building			4,47,771	85
(11) Advances from Capital Works—Loan Funds—Plant and Machinery to be purchased out of Fire and Accident Insurance Fund	51,881	44			(10) Plant and Machinery Purchased out of Capital Works—Loan Funds P. & M. Fire and Accident Insurance Fund			51,881	44
(12) —Do—	97,107	17			(11) Plant and Machinery purchased out of Capital Works—Loan Funds P. and M. Fire and Accident Insurance Fund			97,107	17
(13) —Do—	2,49,116	21			(12) —Do—			2,49,116	21
(14) Advances from Sundries—Miscellaneous Advances	1,11,100	39			(13) Plant and Machinery purchased out of P. & M. Depreciation Fund			1,39,669	10
(15) Advances from Plant & Machinery to be purchased out of Special Fund Item No. 10	1,39,800	00			(14) Plant and Machinery purchased out of Sundries Miscellaneous Advances			1,11,100	39
(16) Advances from Plant & Machinery proposed to be purchased from Special Fund Item No. 1	1,50,697	24			(15) Plant & Machinery purchased out Special Fund Item No. 10			1,39,800	00
	19,89,633	98			(16) Plant and Machinery purchased out of Special Fund Item No. 1			1,50,697	24
Less Amount Repaid	12,03,755	18			Less—Depreciation upto 31-3-1973			19,89,633	98
			7,85,878	80	Work in Progress			12,03,755	18
					Stock of Paper, etc.,			8,78,401	86
					Stock of Paper, etc.,			6,25,479	93
					Mono Metal—Balance as per last year	1,26,177	52		
					Do. Addition during the year	52,132	50		
					Do. Less written off	1,78,310	02	1,69,394	52
					Do. Less written off	8,915	50		
					Lino Metal—Balance as per Last year	1,33,324	90		
					Do. Additions during the year	44,715	51		
					Do. Less—Written off	1,78,040	41		
					Do. Less—Written off	8,902	02	1,69,138	39
					Materials Non-Consumable—				
					Balance as per last year	1,05,289	55		
					Do. Less—Written off	17,857	98	87,431	57
					Books and Dead Stock—				
					Balance as per last year	26,297	30		
					Do. Additions during the year	3,556	72		
					Do. Less—Written off	29,854	02		
					Do. Less—Written off	5,484	52	24,369	50
					Bills due from Departments	39,46,800	00		
					Do. Private Parties	15,391	93	39,62,191	93
Outstanding Advances as on 31-3-1973..			59,16,407	70				59,16,407	70
			67,02,286	50				67,02,286	50

A. G. HEMMADI,
Officer on Special Duty,
Municipal Printing Press,

K. E. M. HOSPITAL, BOMBAY, 12.

MEDICAL RECORD DEPARTMENT

SUMMARY OF THE ANNUAL ADMINISTRATION REPORT OF K. E. M. HOSPITAL AND SETH G. S. MEDICAL COLLEGE

The Annual Administration Report of the K. E. M. Hospital and Seth G. S. Medical College for the year 1972-73 is summarised as follows:—

HOSPITAL

I—Expenditure.

		Rs.
(A)	1. Amount Spent on In Patients	1,71,44,244.00
	2. Amount spent on Out Patients	35,90,586.00
	3. Total Expenditure excluding New Works	2,07,34,830.00
	4. Expenditure on New Works	1,60,510.00
(B)	1. Average Cost per patient per day	26.64
	2. Average Cost per In patient admission	286.10
	3. Average cost per Out patient Attendance	4.82
	4. Average Cost per Out patient Admission	9.27
	5. Cost of Nursing Establishment per month	343.44

II—Results

(A)	1. Schedule Bed Strength	1,450
	2. Daily Average In-patient in Wards	1,791
	3. Total number of admissions including those brought over from the previous year	62,477
	4. Total number of patients discharged—	
	(i) As Cured	51,129
	(ii) Left Against Medical Advice	5,312
	(iii) Expired	4,228
	(iv) Remained in the hospital on the last day of the year	1,808
	5. Average stay of In patients	11.3
(B)	1. Total number of New Out patients attendance	3,78,013
	2. Daily average number of out patients (New)	1,292
	3. Total number of Out patients (New and Old)	7,52,098
	4. Daily average number of out patients attendance (New & Old)	2,466.1
	5. Total number of Casualty attendance (Medico legal)	43,239
(C)	1. Total number of Operations on In patients	27,239
	2. Total number of operations on Out-patients	47,371
(D)	Confinements	
	1. Booked Cases	4,506
	2. Emergency Cases	483
	3. Normal	4,983
	4. Abnormal	457
	5. Neonatal & Maternal Deaths:	
	(i) Maternal Deaths	19
	(ii) Neonatal Deaths	225
	(iii) Still Births	163
	(iv) Premature life born infants	424

III—Specialised Treatments :

1.	Artificial Kidney department total number of Dialysis	616
	(i) Peritoneal Dialysis	191
	(ii) Haemodialysis	425
2.	I. C. C. U. Ward—Total number of admissions	1,053
	Resuscitation from Cardiac Arrest	80
3.	Open heart Surgery	577
4.	Neuro-Surgery (i) Total Operations	4,521
	(ii) Radiological Investigations	372
5.	Sterilisations : Male	1,159
	Female	

IV.—Radiology :

1.	Total X-rays taken at K. E. M. Hospital	49,160
	C. V. T. C.	10,392
	Orthopaedic Centre	38,550
2.	Diagnostic Radiology	1,796

V.—Blood Bank

1. Total number of Blood sample collected		
(i) From Voluntary Doners	...	3,827
(ii) From Relative Doners	...	1,996
(iii) From Professional Doners	...	2,659
(iv) From other Hospitals	...	1,288
	Total	9,770
2. Number of bottles supplied	...	9,797
3. Total amount spent from poor Box Charity Fund on payment to the Professional Doners' other incidental charges	...	36,913.36

VI.—School Clinic :

(A) Total Number of School Children treated		
(i) New	...	2,047
(ii) Repeated	...	15,828
(iii) Referred	...	19,386
B) Total Expenditure on Clinic	...	97,029.53

VII.—Physio Therapy :

(A) 1. Total number of the attendance at the Centre	Out-patients	...	6,583
	In-patients	...	13,066
2. Total number of treatments given	Out-patients	...	87,172
	In-patients	...	2,10,160
(B) 1. Students admitted in School during the year	...	...	40
2. Total number of Student in the School	...	...	60
3. Students graduated during the year	...	...	32

VIII.—Occupational Therapy :

(A) 1. Total number of patients treated at the Centre	...	8,721
2. Total number of treatments given	...	1,19,167
(B) 1. Total number of Students in the School	...	40
2. Total number of Students in the School	...	66
3. Student graduated during April & October 1972	...	39

IX.—Deficiencies :

- Over crowding of patients in the Wards, as against 1,450 Schedule Beds, the daily average In-patients in the Wards is 1,791. The Overcrowding is particularly in Medical & Surgical Female Wards, Children Wards and Orthopaedic Wards.
- Overcrowding of Visitors in the Wards, Difficult to exercise control.
- Heavy rush in the O. P. D. on an average 2,500 patients attend the Hospital daily.
- Acute shortage of trained Nurses, resulted because of the number of resignations every now and then, by the qualified Nurses.
- Shortage of Medical Staff, particular in F. T. cadre & areas like Radiology, Pathology & Anaesthesia.

X.—Suggestions :

1. It is proposed to establish Full fledged Urological Department and Unit for Kidney Transplantation so that the work on the artificial kidney will be supported adequately.

2. Decentralization of Registry :

Registration Section has been decentralised in almost all the Out-patient Departments, leaving a few departments which are also being covered for decentralisation shortly. This system is found to be working very satisfactorily.

The O. P. D. case papers are also now being handed over to the patients to eliminate the waiting time for getting the papers.

2. An Intensive Respiratory Care Unit is also being proposed.

SETH G. S. MEDICAL COLLEGE, PAREL, BOMBAY 12.**COLLEGE**

1.—(A) Total Expenditure including expenditure		
1. on Hotels.	...	29,59,209.00
2. Revenue from Tuition fees, Hostel Rent and Miscellaneous Receipts	...	4,04,63,575
3. Revenue from Post-graduate fees	...	70,255.67
(B) 1. Income from Hostels	...	53,797.10
2. Expenditure on Hostels	...	94,180.00
(C) 1. Gross Cost per Student	...	1,696.79
2. Net cost per student	...	1,424.24

II.—Students :

(A) 1. Total Students admitted	...	...	160	
2. Number of Students in the different Classes...	...	...
		Male	Female	Total
(i) 1st M.B.B.S. 1st Year	...	130	30	160
(ii) 1st M.B.B.S. 2nd Year	...	134	38	172
(iii) 2nd M.B.B.S. (I, II, III Terms)	...	126	52	178
(iv) 3rd M.B.B.S. (I, II, III Terms)	...	171	123	294
(v) Interns	...	90	73	163
(vi) P.T.B.Sc.	...	23	67	90
(vii) O.T.B.Sc.	...	19	77	96
Total No. of Undergraduates	...	693	460	1,153
Total No. of Postgraduates including Research Students	...	393	198	561
Grand Total	...	1,086	658	1,744

(B) 1. Average age of Student :

(i) At the time of admission	...	18 Years
(ii) At the time of S. S. C	...	16 Years.

II. Merital Status at the time of Admission :

(i) Married	...	Nil
(ii) Betrothed	...	Nil
(iii) Single	...	160

III. Occupation of Parents or Guardians :

(i) Service	...	36.40%
(ii) Medical Profession	...	15%
(iii) Legal Profession	...	1.40 per cent.
(iv) Engineering	...	3.00%
(v) Miscellaneous Occupation	...	44 per cent.

IV College Activities :

Our Students continued to keep up very fine record of academic achievements with the highest percentage of success, in almost all the examinations. They have also secured most of the University Prizes Bhir and Latur).

2. The Interns participated in the Scarcity relief programme in rural areas of Maharashtra (Shirur, Bhir and Latur).

C. K. DESHPANDE, M.D.
DEAN
K. E. M. Hospital.

K. E. M. HOSPITAL AND SETH G. S. MEDICAL COLLEGE

(Seth G. S. Medical College)

In the year 1972-73 King Edward VII Memorial Hospital and Seth G. S. Medical College have completed 47 years.

Dean

Dr. C. K. Deshpande, M.D. took over as Dean from 25th September 1972 in place of Dr. T. H. Rindani, who retired.

Assistant Dean

Dr. R. B. Redkar, M.B.B.S., M.A. held the post of Asstt. Dean throughout the year.

Dr. K. K. Gulati, B.Sc. (HON.), M.B.B.S., D.A. C.P.S., D.A. C.L.H., D.P.H., F.R.I.P.H.H., acted as Assistant Dean from 1st November 1972 to 31st December 1972 and assumed the charge of the post of Assistant Dean from 3rd January 1973.

Professorial Staff

Dr. S. M. Karandikar has been promoted as Ag. Professor of Pharmacology from 15th March 1972.

Dr. S. R. Amladi has been promoted as Ag. Associate Professor of Pharmacology from 13th November 1972.

Dr. (Smt.) S. M. Kendurkar has been promoted as Ag. Professor of Physiology from 5 October 1972.

Dr. A. P. Desai has been promoted as Ag. Asstt. Professor of Pathology and Microbiology from 15th July 1972.

Dr. (Smt.) L. A. Mehta has been promoted as Ag. Asstt. Professor of Anatomy from 15th November 1972.

Dr. O. H. Kothari has been promoted as Ag. Asstt. Professor of Pathology and Microbiology from 15th November 1972.

Dr. A. B. Amin has been promoted as Ag. Asstt. Professor of Pathology and Microbiology from 15th November 1972.

Educational Programme

160 Candidates were admitted to M.B.B.S. course during the year under report. Five overseas candidates were nominated by the Government of India to the reserved seats and eight were admitted from other Backward Classes.

The number of undergraduate students on roll at the close of the year was 1,153 out of which 460 were female students.

The number of Post-graduate students including Research Students was 591 out of which 198 were female students. There were 1,744 students on the roll. There were 80 overseas students on the roll.

In addition to undergraduate teaching, post-graduate courses were conducted for M.D., M.S., D.O.M.S., D.A., D.V.D., D.P.M., M. SC., (Biochem.) M.Sc. (Animal Physiology), M.Sc. (Microbiology).

Special classes were held for occupational & Physical Therapy students and for the Nursing Staff and D. O. M. S. Course.

For the first two weeks the newly admitted students were taken in batches to the K. E. M. Hospital to acquaint themselves with medical relief activities. A few introductory lectures and demonstrations were given before regular classes were started in the Department of Anatomy and Physiology.

The teaching in the subject of Anatomy, Physiology and Biochemistry was integrated as far as possible so that all three departments were teaching the related topics simultaneously.

Physiology department took lectures in Applied Physiology for the 3rd, 4th and 5th year students.

Scientific and Educational films were shown during the year to the teaching staff, students and the nursing staff.

Research Activities

A number of Research projects were undertaken in the College and Hospital under the auspices of Indian Council of Medical Research, National Institute of Health, U. S. A. The K. E. M. Hospital and Seth G. S. Medical College Research Society and through the help of some Pharmaceutical firms, Social Rehabilitation Service Project (V. R. A. Project), U. S. A. Government, etc.

Hostels

There are three Hostels attached to the Seth G. S. Medical College. Male Student's Hostel in the College premises has 148 rooms. Ladies students Hostel has 36 rooms and Male Student's Hostel situated at Naigaum has 56 rooms. 501 Male student and 140 female students have taken advantage of these Hostel accommodation during the year.

K. E. M. Hospital and Seth G. S. Medical College

Research Society

The Research Society which was established in 1952-53 with an object to promote medical research continued to make satisfactory progress during 1972.

The Society sanctioned Rs. 43,350.00 and Rs. 38,871.64 for 1971-72 and 1972-73 respectively for various research projects.

The Central Research wing was created mainly for microbiological work concerning research project.

The Society has for 1972-73 sanctioned funds for 24 research projects and over 40 projects are supported through the Research Society by the Pharmaceutical firms.

The Second Dr. G. M. Kurulkar Memorial Oration was delivered on 20th September 1972 by Dr. G. S. Mutalik, Dean, B. J. Medical College, Poona. The Executive Committee held five meetings during the year.

Library

With the increasing number of both undergraduate and post-graduate students and research workers it has been necessary to increase the number of books and also to increase physical facilities of reading space.

Additional budget provision was made to purchase more books and to subscribe for new periodicals. This helped both undergraduate and post-graduate students and the college and hospital staff to keep abreast of modern development of various branches of medical science.

The total number of journals subscribed this year was 270. This included 10 new journals added during this year.

During the year under report 687 books were added to the library*.

The following books were presented to the library :

Mrs. V. Y. Chavan	...	...	...	...	...	1
Mr. Balmul Maklija	...	...	...	...	...	1
In memory of late Dr. J. L. Desai	...	...	...	...	...	1
Mr. N. R. Bhagwati	...	...	...	...	...	1
UNICEF	...	...	...	...	...	9
Dr. (Mrs.) P. E. Bharucha	...	...	...	...	...	9
UNI TRUST	...	...	...	...	...	1
Hamilton Bailey Memorial Fund	...	...	...	...	...	14
CIBA of India Ltd	...	...	...	...	...	8
Medical Welfare Trust	...	...	...	...	...	9
Dr. Dey N. C.	...	...	...	...	...	1
Mr. Tolwani	...	...	...	...	...	2
Total	...	...	...	...	...	57

Our grateful thanks are due to these donors.

Gymkhana

1. During the general strike by civic employees, the students helped in the running of K. E. M. Hospital.
2. Farewell function was arranged for the outgoing Dean Dr. T. H. Rindani and prizes for the Best sportsmen and the Best Around player were distributed.
Mr. Shamji Shah— Best Sportsman of the year 1971-72.
Mr. Pravin Patel— Best all-rounder of the year 1971-72.
3. Students gave a rousing welcome to the new Dean Dr. C. K. Deshpande.
4. College Volley-ball Team reached upto the quarter-Finals round in the Inter Collegiate Volley-ball Tournaments.
5. Annual Sports day was held on 25th January 1973 at the Dr. V. N. Purandare Stadium. Dr. T. H. Rindani was the Chief guest
6. College-weeks was celebrated in the month of Feb. 1973 Art exhibition, Bonfire & Raas were the added attractions.
7. Canteen is being managed by the Gymkhana.

Department of Anatomy Seth G. S. Medical College

The following researches are carried out in the department during the year under report.

1. Study of Morbid Anatomy and Micro Anatomy of certain Organs during the various stages of Human Development.

Dr. K. D. Desai, Dr. R. K. Gandhi.

2. Effects of ligation of blood vessels and injection of drugs on the development of chick embryo.

Dr. K. D. Desai, Dr. I. M. Mehta and Dr. Mahendrakar.

3. Correlation of length of long bones of cadaver with height, to find the cadaveric india.
Dr. I. M. Mehta, C. L. Parikh.
 4. Temporary sterilisation of the man by intravasal contraceptive Device (I.V.C.D.) (Device)
 5. Reversible procedures following vasectomy.
(Vasanasal amastomosis) Dr. D. S. Pardanani, Dr. M. L. Kothari
- Preventive and Social Medicine Department.

The Department of Preventive and Social Medicine has now completed Fourteen and half years. A large number of extrarural activities to initiate the trainees in the Principales and Practice of community Medicine was continued during the year under report."

Administration

1. Dr. D. N. Pai continues to be in charge of the administration of Intership Programme for Seth G. S. Medical College assisted by Dr. A. S. Pochkhanwala.

Till October 1972 the department was in charge of placement of Interns in Medicine, Surgery, Gynaecology and Obstetric and Urban & Rural Health terms. Since October 1972, the department of Surgery is in charge of their placement during surgery term and the department of Medicine for the medical terms. The Department of Preventive & Social Medicine continues to be in charge their placement in Gynaecology and Obstetrics and Public Health terms.

2. Dr. D. N. Pai was in charge of the Urban Health intership programme for the medical interns from all the City Corporation Medical Colleges and Dr. Smt. Bhalerao participated in the Rural Health intership programme till November 1972. Since then the Organisation and administration of the Public Health term has been decentralised and hence Dr. Pai is in charge of the same for Seth G. S. Medical College interns only.
3. Medical Social Service Department is under the control administration of department of Preventive & Social Medicine. Dr. Smt. Bhalerao & Smt. H. L. Shah take active part in the meeting, case conference etc. of medical social workers, the detailed is attached herewith.
4. Dr. D. N. Pai and assisted by Dr. Desai and Dr. Telang were heavily engaged in the National Service Scheme of the University of Bombay for the year 1972-73.
5. Administrative work, done for the Scarcity Relief work, done by Dr. D. N. Pai, Dr. V. R. Bhalerao, Dr. A. S. Pochkhanwala.

RESEARCH

Completed :-

- (1) Physical, Psychological and Social complications of Vasectomy—Dr. D. N. Pai.
- (2) Demographic characteristics of acceptors and non-acceptors of Family Planning—Dr. D. N. Pai
- (3) Post-gartum programme in Municipal Maternity institutions—Dr. D. N. Pai.
- (4) Mobile Medical care Unit—Dr. J. V. Telang.

Incompleted :-

- (1) Study of social obstetrics in teaching and private Hospital.
- (2) Socio-psychological study and rehabilitation of all burns cases admitted in Ward VIII during the year 1973.
- (3) Attitude and knowledge survey of college teachers on sex education.
- (4) Survey of eye injuries at relief work centres at Bhur—Dr. A. S. Pochkhanwala.
- (5) Baseline survey of Krishna-nagar & B. I. T. Community.

Department of Pharmacology

Honours :-

1. Prof. U. K. Sheth was awarded Shri Shanti Swarup Bhatnagar Award of C. S. I. R. for the year 1968 in 1972.
2. Prof. U. K. Sheth was joint recipient of Shri Amrut Modi Research Foundation Award in Applied Pharmacology for the year 1972.

Summer School

A 4 weeks summer school in Expt. Pharmacology for 14 post-graduate in Pharmacology was organised at the department under the financial assistance of University Grants Commission. The Post-graduates for this course were selected for different medical colleges from South & Western India and were intensively trained in technique of experimental pharmacology for a period of 4 weeks.

PROF. U. K. SHETH

Attendance at Various Conferences in 1972.

1. Invited as a W. H. O. consultant on group discussion 'Clinical Pharmacology of Fertility Regulating Agents' held by W. H. O. at Geneva, Switzerland, from 3rd to 7th July 1972.
2. 'Attended Investigators Conference on 'Organising Clinical trials of Piracetim' held at Bombay on 7th and 8th October 1972.
3. Attended Investigators Conference on 'Organising Clinical trials of R.H-8 on anti-inflammatory compounds' at Regional Research Laboratory, Hyderabad, Andhra Pradesh in November 1972.
4. Presented 3 papers at an Investigators Conference on 'SINTAMIL' held at Ciba Research Centre Bombay on 4th and 5th December 1972.

5. Presented paper and participated in a panel discussion 'Long term use of Cannabis'—held by Indian Council of Medical Research, December 1972.
6. Given guest lecture at Indian Pharmaceutical congress, Cuttack—on 'General Principles of Pharmacology' (in relation to pharmacy and pharmaceutical Industries) December 1972.
7. Attended Annual Conference of Indian Pharmacological Society and acted as Chairman of symposium 'Drug Interactions' at Jaipur, December 1972.
8. : Dr. S. M. Kurandikar—attended the 4th Annual Conference of the Society of Nuclear Medicine 1972, at Madras where he read a paper 'Blood Volume and Cardiac output measurement using RISA. Dr. S. M. Kurandikar attended the Annual Conference of the Indian Pharmacological Society, 1972 (Jaipur) at which he was invited to participate in the symposium on Drug Interactions.

Dr. (Mrs.) S. A. Namjoshi, Dr. (Miss) Kala Mogre attended the Annual Conference of the Indian Pharmacological Society 1972 at Jaipur.

The pharmacology Research Unit and Clinical drug trial unit of C.S.I.R. continued to operate at the department.

Total No. of compounds screened for biological activity was 136. Total grant received from C. S. I. R. for both above units was Rs. 1,65,782/-.

Clinical Pharmacology Unit consisting of all the Clinical Wards and projects continued to operate under K. E. M. Hospital Research Society and received a total grant of Rs. 80,000 from Ciba Ltd., Rs. 100,000 from Cipla Ltd., Rs. 1,00,000 from Unichem Ltd., and Approximately Rs. 20,000 for group projects from Pharmaceutical Industries.

APPENDIX I

(Test Carried Out in Biochemical Section)

Sr. No.	Total
(A) Liver Function tests :	
(1) Serum glutamic oxalacetic transaminase (SGOT)	1,478
(2) Serum glutamic pyruvic transaminase (SGPT)	1,468
(3) Serum Bilirubin (Total & Direct)	1,292
(4) Serum Alkaline Phosphatase	1,431
(5) Serum Cholinesterase	1,183
(6) BSP dye retention	15
(7) Serum total protein	987
(8) Serum albumin (By salting out)	209
(9) Serum Protein (Fractionation)	713
(B) Renal Function Test :	
(1) Serum electrolytes	1,008
(2) Urine electrolytes	6,050
(C) Urine Examination	
	1,986
(D) Stool Examination	
	2,168
(E) Miscellaneous Tests :	
(1) Serum Cholesterol	640
(2) Blood Sugar (By Somogy Method)	1,254
(3) Blood Sugar (By Glucose Oxidase Method)	165
(4) Serum Uric Acid	516
(5) R. A. Factor Test	27
(6) Antipyrine levels	312
(7) Furosemide levels	85
(8) C. R. P. Test	14
(F) Complete Haemogram :	
	1382
Platelets	511
Eosinophil count	266
Bleeding Time and clotting time	22
Puncture fluids	41
Urine cell excretion	34
Malarial parasites	4
L. E. Cell Phenomena	20
(G) Complete Renal function tests :	
(a) Blood Urea Nitrogen	712
(b) Creatinine Clearance	27
(H) Para-Amino-Salicylic acid (Pas) Levels in Blood	
	20

APPENDIX II

Microbiology Section.

(1) Sputum samples culture	116
(2) Routine gram staining done	71
(3) Acid Fast staining done	91
(4) Bronchoscopy aspirates cultured	4
(5) Urine samples cultured	187
(6) Urine colony counts done	187
(7) Throat swabs cultured	28
(8) Ascitic fluid samples cultured	38
(9) Miscellaneous aspirated cultured	9
(10) Blood cultured done	3
(11) Lung aspirated cultured	5
(12) Miscellaneous swabs cultured	6
(13) Antibigrams done	411
(14) Bacteriological tests done	251
(15) Blood levels of Nicotinic acid done	8

APPENDIX—III

List of Publications during the year 1972.

- (1) Effects of anti-inflammatory drugs on glutathione levels in blood and liver and liver succinic dehydrogenase activity in carrageenin edema and cotton pellet granuloma. Dr. S. R. Naik, S. G. Kalyanpur and Dr. U. K. Sheth. *Biochem. Pharmacol.* 21,511 (1972).
- (2) Effect of Dinitrophenol and fasting on carrageenin induced oedema. S. R. Naik, S. M. Karandikar & U. K. Sheth. *Jap. J. Pharmacol.*, 21,695, (1972).
- (3) Effect of reserpine and tetrabenzazine on tremorine analgesia. Vimala H. Sehly, S. R. Naik & U. K. Sheth. *Psychopharmacologia*, 26,249, (1972).
- (4) Experimental studies in Endotoxin shock in dogs Part-I Cardiovascular biochemical & Haemodynamic considerations. In irreversible endotoxin shock. Vaishali N. Dadarkar, N. K. Dadarkar & U. K. Sheth. *Ind. J. Med. Res.* 60,899 (1972).
- (5) Experimental studies in Endotoxin shock in dogs Part II Experimentale valuation of different therapeutic measures in irreversible endotoxin shock. Vaishali N. Dadarkar, N. K. Dadarkar & U. K. Sheth. *Ind. J. Med. Res.* 60,905 (1972).
- (6) Effect of stress on carrageenin inflammation in rats. S. R. Naik, M. R. Kelkar & U. K. Sheth., *Ind. J. Med. Res.* 60,1316 (1972).
- (7) Recent advances in pharmacology. U. K. Sheth, *Ind. J. Med. Sci.* 26,351 (1972).
- (8) Effect of amphetamine on tremorine analgesis in mice. S. R. Naik, Ratan J. Pradhan & U. K. Sheth., *Ind. J. Med. Res.* 60,1328 (1972).
- (9) Anti-inflammatory activity of newer benzylamines. S. R. Naik, A. U. Sheth, M. L. Dave, P. B. Sattur & U. K. Sheth. *Ind. J. Pharmacol.* (October 1972).
- (10) Clinical studies in pulmonary eosinophilia—comparative study of response to diethylcarbazine and steroids. S. R. Kamat, N. V. U. Warriar, S. D. Store, K. N. Karandikar, E. D'sa, V. R. Hoskote & U. K. Sheth. Paper read at 28th Joint Physicians Conference at Udaipur in Jan. 1972.
- (11) Antipyrine half-life in cirrhosis of liver. J. C. Doshi, M. R. Fegde and U. K. Sheth (Sent for publication).
- (12) Part III—Effect of single intramuscular administration of long acting betamethasone. S. R. Kamat, Y. C. Fakay, Bharati Sanghvi, S. D. Store, & U. K. Sheth. (Sent for Publication).
- (13) Part IV—Comparison of effects of parenteral hydroxymethyl theophylline with or without steroid. S. R. Kamat, U. V. U. Warriar, S. D. Store, Bharati Sanghvi & U. K. Sheth. (Sent for publication).
- (14) Part VI—Comparison of oral salbutamol with aerosolised isophrenaline. S. R. Kamat, N. V. U. Warriar, P. S. Kulkarni, Bharati Sanghvi, S. D. Store, & U. K. Sheth (Sent for publication.)
- (15) Part VII—Comparison of pressurised aerosols orciprenaline, salbutamol and isophrenaline. G. R. Kamat, S. R. Kamat, Harwant Singh, E. D'sa, K. E. Narandikar, M. A. Chakravarty and U. K. Sheth (Sent for publication).
- (16) Human Pharmacokinetic and metabolic studies with Sintamil U. K. Sheth, T. Paul, R. K. Møller, A. K. Gupta and P. K. Pispati, (Paper read at the Investigator's Conference on (Sintamil, held at Ciba Research Centre in December 1972).
- (17) Ciba 2330—Go (R) (SINTAMIL) Tolerability and Early Clinical Evaluation Studies U. K. Sheth, T. Paul, D. R. Doongaji, N. S. Valia & P. K. Pispati. (Paper read at the Investigator's Conference on 'Sintamil' held at Ciba Research Centre in December 1972.)
- (18) Comparative action of Ciba 2330—G (SINTAMIL) and imipramine on Salivation in Human Volunteers. U. K. Sheth, T. Paul, A. K. Gupta, and P. K. Pispati. (Paper read at the Investigator's conference on 'Sintamil' held at Ciba Research Centre in December 1972.
- (19) Factors influencing functional areas of Clinical Pharmacology S. M. Karandikar and U. K. Sheth. *Indian Journal of Pharmacology*, 4,3 (1972).

APPENDIX—IV.

Research Works Carried Out in 1972.

- (1) Effect of drugs influencing amine synthesis on analgesic action of tremorine.
- (2) The role of central mono-amine in decapitation convulsions of mice.
- (3) Effect of Dinitrophenol (DNP) and starvation on carragenin induced inflammation.
- (4) Effect of anti-inflammatory drugs on glutathione levels and succinic dehydrogenase activity in carrageenin induced inflammation and cotton pellet granuloma in rats.
- (5) Study of factors affecting serum FFA, blood Sugar, Blood Cholesterol and adrenal ascorbic acid in rats.
- (6) Potentiation of a non-narcotic analgesic, metamizole, by cholinomimetic drugs.
- (7) Synthesis and pharmacology of N-aminoacyl and N-amino alkyl amphetamine derivatives.
- (8) Synthesis and CNS depressant activity, hypotensive activity and cardiovascular activity of newer piperazine derivatives.
- (9) Effect of stress on carrageenin induced inflammation.
- (10) Go 6050—A hypnotic drug
 - (a) Tolerance Studies,
 - (b) Phase II Studies for efficacy.
- (11) Sequential trial of Hypnotics.
- (12) L-5418 in Rheumatoid arthritis.
- (13) Cephalexin in Urinary tract infections.

- (14) Sintamil—an antidepressant drug,
 (a) A 4 weeks study in 15 patients for tolerance.
 (b) Pharmacokinetics studies in Volunteers.
 (c) Studies with parenteral sintamil.
 (15) Zarozolyn Va Esidres: Diuretic study for comparison on K loss.
 (16) Plasma Levels and drug availability of Aluminium—PAS and Sodium—PAS.

Publication

A book entitled "Selected Topics in experimental Pharmacology" by U. K. Seth, N. K. Dadarkar and Usha Kamat was published from the department.

Department of Medicine

The Department of Medicine consists of two full-time teaching Units with the following sections under the Director-Professor of Medicine.

- (1) Cardiology, (2) Gastro-enterology, (3) Haematology, (4) Diabetes, (5) Tetanus, (6) Neurology, (7) Radio-isotope, (8) Nephrology, (9) Cardiac catheterization, (10) Endocrinology, (11) Chest, (12) a newly founded clinic 'Arthritis and sports Medicine'.

Research Projects

About 48 research projects are currently on the way in different sections of the Department of Medicine.

Anaesthesiology

The Department continued to function as in previous years. In all twelve operation theatres with 18-22 tables functioned but at times work had to be curtailed due to shortage of anaesthetists. There was heavy demand for treatment of cases on I P. P. R. Once Respiratory care area develops the care of such patients will be centralised. There is an urgent need for such an area. One post of Asstt. Prof. was converted into Associated Professor.

The following clinical as well as experimental research projects are in progress.

- (1) Study of potassium requirements during pre, intra and post-operative period in patients undergoing surgery under cardiopulmonary bypass.
- (2) Blood gass, pulmonary vascular resistance studies in dogs following lung homotransplant.
- (3) Use of morphine as an anaesthetic agent.
- (4) Effect of different anaesthetic agents on intravascular tension.
- (5) Blood gas changes in air-ether anaesthesia.

ARTIST SECTION (Pathology).

(1) Photographs of patients	982
(2) X-rays	1,021
(3) Nurses	229
(4) Specimens	289
(5) Microphotographs	325
(6) Slides	6,028
(7) Charts	568
(8) Graphs	295
(9) Diagrams	143
(10) Miscellaneous	764

Department of Surgery

(1) Clinical cases photographs	802
(2) X-Ray reproduction	1,506
(3) Micro photographs	50
(4) Specimen photograph	10
(5) Lantern slides 35 mm. of microphotograph X-ray, specimen, drawing charts, etc.	3,416
(6) Graphs and lettering charts	756
(7) Operation photos in coloured	960
(8) Enlargements for publications	1,250
(9) Book reproduction for slide for teaching	669
(10) Miscellaneous	5

9,424

KING EDWARD VII MEMORIAL HOSPITAL**MEDICAL RECORD DEPARTMENT****IN-PATIENT DIVISION:****Accommodation of Patients and their Particulars:**

The number of Schedule bed strength during the year was 1,450. As usual there was constant overcrowding in the hospital particularly in the Children Wards and Medical and Surgical Wards for female.

During the year 1972, the average number of In-patient in the hospital was 1,791, as against 1,847 and 1,798 during the year 1971 and 1970 respectively. Even after strict scrutiny for routine admissions in order to control overcrowding, the total number of patients admitted for hospitalization during the year under report was 60,930 as against 60,079 and 60,761 respectively during the two preceding years. The average stay of In-patients was 11.3 days during the year under report as against 11.1 and 10.8 days in the 1971 and 1970. The increasing demand for hospital beds thus continued.

Results of Treatment Indoor Patients:

Out of the total number of 62,477 patients including 1,547 brought over from the previous year 51,129 Relieved as cured, 5,312 left the hospital either against Medical Advice or were otherwise discharged and 4,608 died (excluding 380 still borns and Neonatal deaths). At the end of the year 1,808 patients were in the hospital under treatment.

Death Classified:

Out of 4,228 deaths, 1,416 died within 24 hours of admission, 685 after 24 hours but within 72 hours of admission and the rest 2,127 deaths took place after three days from the date of admission. The figures are exclusive of 380 still borns and Neonatal Deaths. Death rate was 8.8 as against 7.2 during the last year.

Total number of autopsies performed during the year under report was 1,617 as against 1,792 and 1,820 for the year 1971 and 1970 respectively. Autopsy rate was 38.2 for the year 1972 as against 40.2 and 41.36 for the year 1971 and 1970 respectively.

Confinements:

During the year under report, the total number of confinements were 4,983 and abortions 1,267.

Operations:

27,239 operations were performed on In-patients and 47,371 operations were performed on Out-patients.

Out-Patient Department:**Out Patients Particulars:**

The total number of New cases issued during the year under report was 3,94,152 as against 3,78,015 and 3,66,994 in 1971 and 1970. The total number of Out-patient attendance (New and Old including Casualty cases) was 7,52,098 bringing the average total attendance 2,466 per day.

Casualty cases registered during the year were 43,221 as against 38,778 and 44,644 during the year 1971 and 1970 respectively.

The highest number of patient treated on a single day was 1,931 (excluding old cases) on 28th August 1972. The highest number of Casualty Cases treated on one day was 169 on 19th June 1972.

Decentralization:

Few number of Out-patient departments were decentralised so far as the issue of New O. P. D. Case papers was concerned during the year 1971. This system was found to be working very satisfactorily.

NEW O. P. D.'s AND CLINICS:**New Clinics:**

The following New Clinics have been started during the year under report.

- (1) Arthritis Immunization Clinic.
- (2) Sports Clinic.
- (3) Cytology Clinic.
- (4) Juvenile Diabetic Clinic.
- (5) Municipal Staff Clinic.

Medico-Legal Cases

During the year under report, the Resident Medical Officers attended the following Courts for giving evidences in the Medico-Legal Cases.

(1) Presidency Magistrate's Court	740
(2) Session Courts	108
(3) Coroner's Court	2
(4) Motor Accident Tribunal	140

Medical Certificates :

(1) Under Workmen's Compensation Act	...	255
(2) Medical Opinion Certificates	...	7,299
(3) Injury Certificate to Police in Medico-legal Cases (free)	...	1,732
(4) Injury Certificates to patients in Medico-legal Cases.	...	204
(5) Certificates to Municipal Employees for Injury leave (free)	...	65
(6) Certificates for Insurance purposes	...	95
(7) Essentiality certificates for reimbursement of medical expenses to Governments.	2,100	
(8) Accident Insurance Certificates	...	81
(9) Opinion Certificates to Municipal Employees (free)	...	750

Charts :

The Medical Record Department has introduced a system of showing the various statistical information of the hospital and College by displaying Charts. Different types of charts have been prepared and displayed in Dean's Office. This gives an up-to-date information on the spot.

Medico-Social Service Department:

The Medico-Social Service Department started functioning in this hospital from September 1964 with Two Medico-Social workers at the initial stage.

This Department is now centralised for proper distribution of work under the Professor of Preventive and Social Medicine.

- (1) During this year the Senior Medico-Social worker has been appointed as Lecturer in M. S. W.
- (2) Supervision of students from Tata Institute of Social Sciences and Institute of Social Service is under taken as per the practice of previous years.
- (3) Lectures to Medical Students are given by the Medico-Social workers.
- (4) During the year a film show was arranged for the in-patient Children and sweets were distributed to them during Diwali and New Year Festivals.

Student Social Workers under the guidance of the staff Social Workers arranged group work activities in Gynae. and Obst. Ward and children's Ward.

Voluntary Social Workers from Satya Sai Baba Seva Sangh, Mahila, Vibhag help in the distribution of books to the Indoor patients through patients' library. This is under the supervision of staff Social Workers.

OTHER JOINT ACTIVITIES OF THE SOCIAL SERVICE**DEPARTMENT OF ORTHOPAEDIC CENTRE****IN THE YEAR 1972.**

(1) School Children of the Indian Education Society gave an entertainment programme for the child in patients of the centre on 5th February 1972 under the supervision of student Social Workers of T. I. S. S.

(2) Helped make arrangements for patients to participate in the sports organised in March 72 to celebrate World Day of the Disabled. Miss Sekhri attended the sports.

(3) Sister Lily was given training in work in the S. S. D. of the centre in August 1972.

(4) Organised the work schedule of volunteer students of the O. T. and P. T. Departments during the strike period in August.

(5) A slide show on Paralympics by Dr. Javle was organised for the Ward patients on 14th September 1972.

(6) The Vishwa Hindu Parishad kindly gave the services of a teacher to coach child ward patients of the centre from June 1972 However the discontinued coming from August 1972.

(7) N. S. S. students from Matunga Womens' College have been organising recreational activities for ward children once a week since September 1972.

(8) Hindi feature film was shown to ward patients on 9th October 1972.

(9) A musical performance by Mr. Bharat Shende, a polio affected young boy was arranged on 16th October 1972.

(10) Tailoring classes have been started for paraplegics and severely handicapped patients since December 1972, in Co-operation with the O. T. Department. A Donation of hand sewing Machine was obtained from Shree Arya Samaj, Chembur sanction for a tailoring teacher's pay has been obtained for seven months from the Lions Club of East Bombay.

(11) The Patients library continues to function. Magazines have been donated by individuals and various organisations through Mr. Jaminatri, a voluntary worker affiliated to the Rochiram Trust.

(12) Food grains and other material help have been obtained for Parishad on a regular basis.

The Statistics of the case Load Handled by the M. S. W. s During the year 1972.

(1) Medicinal and material aid	...	2942	
(2) Social case work and Rehabilitation Service	...	741	
(3) Social investigations (Psychiatric)	...	1,341	
(4) Referrals for family screening and other Welfare agencies	...	380	
(5) Arrangement for discharge from the hospital	...	279	
(6) Child Guidance Clinic and Mentally defective children's Clinic	...	181	
(7) Orientation group sessions for psychiatric patients relatives	...	56	Sessions
(8) Out-door bleeding sessions	...	64	"
(9) Out door voluntary donors	...	3,149	
(10) Indoor Voluntary donors	...	678	
(11) Relative donors—	...	1,996	
(12) Professional donors	...	2,659	
(13) No. of bottles of blood issued	...	9,256	
(14) Cases for follow up	...	380	

Orthopaedic Department :

This department is fully equipped with separate O. P. D. Operation Theatre, Radiology Department, Plaster-room and Six Wards with a capacity of 240 beds. The operation Theatre and Radiology Department are being provided with air-conditioning, Units.

The following is the work done in the department during the year under report :—

(1) Out-door attendance	...	28,308
(2) Indoor Admissions	...	3,522
(3) Average In-patients per day	...	415
(4) No. of operations	Indoor	4,948
	Out-door	5,862

The following is the account of work done in the department during the year :—

(1) Total O. P. D. Attendance—New	...	24,585
(2) Total Admission	...	2,591
(3) Operations	In-patients	2,812
	Out-patients	...
(4) Total No. of audiogram taken	...	1,796

Neuro-Surger Department :

New wing for Neuro-Surgical Department has been constructed in order to provide two air-conditioned operation Theatre, one self contained Radiological Unit and Three bedded air-conditioned Recovery Room with additional 18 beds. This area is now almost ready for being fully commissioned.

During the year under report 1,558 New patient and 1,937 report patients were treated in the Out-patients Department and 697 patients inclusive of referred cases were admitted as Inpatients.

Special Radiological investigations were carried out in the department during the year under report.

The following figures will give an account of Radiological and Operation procedure done in the Department.

(1) Operations	...	577
(2) Radiological investigations	...	2,521

Neurology Department :

During the year under report 2,272 New patients were treated at the Out-patient department and 682 Patients were admitted as In patient. 501 New Cases were treated at the Epilepsy Clinic of the Department of Neurology. These figures exclude the case referred by the other Services.

Gynaecology and Obstetrics Department :

The following is the account of work done in the obstetric department during the year under report :

Total No. of O. P. D. attendance (New)	...	8,323
Total No. of Admissions	...	8,290
Total No. of confinements	(1) Normal	4,507
	(2) Abnormal	476
	Total	4,983
Booked Cases	...	4,500
Emergency Cases	...	483
Abortions	Complete	412
	Incomplete	825
Total No. of Obstetric Operations	...	2,638
Neonatal & Maternal Mortality :		
	Maternal Death	19
	Neonatal Deaths	225
	Still Births	163
	Premature Life born Infants	424
	Congenital malformation	Nil.

The following data gives the details of Gynaec attendance admissions and operations:

Total No. of O. P. D. attendances	...	...	...	...	14,283
Total No. of admissions	...	...	...	...	3,063
Operations	...	Major	...	...	1,808
	...	Minor	...	...	1,460
		Total	...	...	3,268

Dr. N. A. Purandare Gynaec and Obstetric Research Centre :

In Dr. N. A. Purandare Gynaecological and Obstetric Centre cases of Gynaecological disorders of hormonal origin are being studied from the point of view of research investigations and therapy. Oral contraceptive tablets are also being issued by the above Centre.

Special Investigations :

(1) Studies on foetal Maturity	..	..	..	..	55
(2) Toxaemia of Pregnancy	..	..	..	..	192
(3) Fibrogen	..	..	..	..	86
(4) Urinary Hormones	Estriol Level	..	..	..	487
	Pregnanediol level	..	..	..	219
(6) Ketosteroides and Ketogenic Steroids	..	..	..	..	54
(7) G. T. C.	...	...	...	...	720
(8) L. T. F.	...	...	...	...	103

Urban Family Planning Centre and Post Partum Programme :

Post Partum Programme was started functioning on 9th November 1970. The Urban Centre is now integrated with this programme. The following is the account of work done during the year under report.

New Cases registered	...	...	...	...	...
Total Attendance	...	...	...	...	...
Condom	...	...	...	...	1,208
Other (Jelly)	..	..	..	..	46
I. U. C. D.	..	..	..	..	261
Oral Pills	...	...	...	...	554
Tubectomy	...	...	...	...	437
Vasectomy	...	...	...	...	357
				Total	2,903

The Family Planning Clinic :

This Clinic is maintained by F. P. A. I. since March 1971 It has been undertaking service for oral contraceptives, I. U. C. D., Vasectomise, Conventional methods and referred cases to Obstetric and Gynaec Department for Tubal Ligation and termination of pregnancy.

Department of Preventive and Social Medicine :

(A) Family Health Clinic :

Total No. of days of Clinic Worked	...	...	...	...	328
Total No. of Cases treated during the year	...	...	...	...	5,876
Daily Average	...	...	...	...	18

(B) Family Health Centre :

Total No. of days the Centre worked	...	...	...	...	150
Total No. of cases given full medical check-up	...	...	...	...	750
Daily average	...	...	...	...	50

The following Laboratory investigations were carried out in the Clinics.

Blood Tests :

R. B. C.	...	...	...	...	208
H. B.	...	...	...	...	3,025
W. B. C. (C. T.)	...	...	...	...	126
W. B. C. (D)	...	...	...	...	126
E. S. R.	..	..	..	..	278
Urine	...	...	...	...	2,805
Stool	...	...	...	...	326
Sputum	...	...	...	...	9
Semen	...	...	...	...	163
				Total	9,066

(C) Diagnostic Centre—Family Planning Unit (F/South Ward) :

Total No. of cases	...	...	...	...	9,248
Screening	...	...	...	...	871
Vasectomy	...	...	...	...	638
Gynaec Cases	...	...	...	...	...
Surgery Cases	...	...	...	...	8,415
Surgery Cases	...	...	...	...	..
Paediatric Cases	..	..	..	..	..
Medical	..	..	..	..	..
Oral Pills	...	...	...	...	40
Loops	...	...	...	...	65

Laboratory Work :

Blood—Total Number of Cases		E. S. R. ...	...	...	...	516
		H. B. ...	...	...	...	7,260
		T. C. ...	...	...	...	3,706
	W. B. C.	D. C. ...	...	...	...	2,820
Urine—Total Number of cases :—		A. L. B. ...	...	...	...	6,780
		Microscopic ...	...	...	...	1,204
		Bile salts & Bile Pig ..	...	...	...	414
		Sugar ...	...	...	...	6,828
Stool—Total investigations ...		...	...	...	...	676
Semen—Total number of cases ...		...	...	...	...	637

General Practitioners Contacted :

Number of Doctor contacted ...	...	...	...	...	...	...
Follow up ...	...	...	...	...	...	...
Contraceptives distributed ...	...	...	...	...	...	...
	Condoms	...	...	...	...	...
	Loops	...	...	...	...	...
	Jelly	...	...	...	...	...

(B) Immunization Centre :

Polio	I	...	...	...	...	1,880
	II	...	...	...	...	1,766
	III	...	...	...	...	1,166
Booster		...	...	...	...	...
Triples	I	...	...	...	...	5,321
	II	...	...	...	...	1,174
	III	...	...	...	...	850
Booster—		...	...	...	...	..

DEPARTMENT OF MEDICINE

The following speciality departments come under the department of Medicine. The account of work done at these departments is given below;

Cardiology Department :

Dr. K. G. Nair, Prof—Director of Medicine has taken over as the Head of this Department. Specialised Clinic for different aspects of Heart Disease have been opened. The newly open Congenital Heart Disease Clinic Draws a very large number of new patients from not only all over Bombay but also from several parts of Maharashtra and outside.

The Intensive Cardiac Care Unit was started in this hospital in December 1966. This unit is now having 10 beds. The following are figures of the patients treated in this department during the year under report.

(1) Total number of New Cardiac Patients	..	..	..	..	2,486
(2) Total number of follow up	...	...	...	...	13,847
(3) Cardiac Cases treated in the Ward	...	...	...	...	1,707
(4) Total number of ECGs taken during the year	...	...	...	...	27,599

Intensive Cardiac Care Unit :

Cases Admitted	..	..	..	..	1,053
Resuscitation from Cardiac arrest	..	..	..	..	155

Pacing :

Emergency Bedside	..	..	..	..	104
Permanent Implantation	..	..	..	..	4

Cardioversion :

Emergency	...	...	...	...	59
Intracardia Electrocardiography	...	...	...	...	104
Oesophageal electrocardiography	...	...	...	...	18

The following figures for the last three years will show ever increasing number of patients is disease of heart and circulation.

	Cardiac O. P. D.	1970	1971	1972
New Cases	...	2,093	2,789	2,486
Follow-up	...	10,290	12,480	13,847
Cardiac Indoor Cases	...	920	1,353	1,707

Renal Unit and Artificial kidney Division:

The renal Unit and its Artificial Kidney Division has continued to make tremendous strides in the year under consideration. The varied activities of the unit has offered facilities for investigations and management of patients of renal disorders and renal failure in particular. The renal Clinic which is run by appointment of Thursday afternoons saw 662 cases during the year which included 146 new cases and the other old cases being followed up. Besides this, 288 patients were referred as emergency problems for consideration for dialysis by various units in the hospital and from outside to include, patients from the City of Bombay and the state of Maharashtra and Gujrat. Total of 616 dialysis were performed during this year. As indicated last time, with addition of facilities for peritoneal dialysis, as many as 191 peritoneal dialysis have been done so far.

A training programme for technicians and nurses was started during the year. This included theory-cum-practical demonstration course being run once a week for a period of 3½ months each twice a year. A large number of nurses from many institutions such as J. J. College of Nursing and S. N. D. T. College of Nursing availed themselves of this course.

Practical short term training was also undertaken in all aspects of dialysis for selected group of people to include doctors, nurses and technicians. These personnel are from other cities in the state of Maharashtra.

In the nephrology unit, study of simplified method for diagnosis of urinary tract infection was established and has been used to scrutinise large number of cases of this chronic disabling illness. This has taken us a step ahead towards the prevention of chronic end stage renal disease due to pyelonephritis

A germ free airconditioned and ultraviolet irradiated room is just getting ready for housing patients who undergo renal transplantation. With the completion of this room it is proposed to undertake renal transplantation of full scale in coming year.

HAEMATOLOGY

(1) Number of patients seen in O. P. D.	New Cases	...	...	...	721
	Old Cases	...	...	...	1,800
	Admission	...	...	...	63
(2) Investigations :					Number
C. B. C.	...	...	...	...	3,140
Platelet	...	...	...	...	425
E. S. R.	...	...	...	...	98
Urine Exam.	...	...	...	...	125
Stool Exam.	...	...	...	...	98
B. M. Biopsy	...	...	...	...	117
L. E. Test	...	...	...	...	67
Serum Iron T. I. B. C. & T. S.	...	...	...	...	355
Fragility	...	...	...	...	378
Foetal Hb	...	...	...	...	378
Hb A2	...	...	...	...	378
Hb Electrophoresis	...	...	...	...	390
Complete Fragility	...	...	...	...	17
Protein with E. P. P.	...	...	...	...	130
Bilirubin T. & D	...	...	...	...	39
S. G. O. T.	...	...	...	...	15
S. G. P. T.	...	...	...	...	15
Sucrose Lysis	...	...	...	...	8
R. B. C. Survival rate	...	...	...	...	45
Clotting time	...	...	...	...	166
Bleeding time	...	...	...	...	165
Prothrombin time	...	...	...	...	145
Clot Retraction	...	...	...	...	165
Thromboplastin Generation test	...	...	...	...	127
A. H. C.	...	...	...	...	276
Test for Fibrin (Stabilizing factor)	...	...	...	...	127
Fibrinogen	...	...	...	...	16
P. T. T. K.	...	...	...	...	8
Prothrombin correction test	...	...	...	...	8
Erythrocyte Lysis Test	...	...	...	...	11

NEUROLOGY.

Two out patient Clinics are conducted on Tuesdays and Fridays from 1-30 p. m. to 4.00 p. m. about 25-30 New patients are seen in each clinic and a further 75 follow up cases are seen.

Epilepsy Clinic.

Conducted on Wednesday and Saturday mornings from 9-00 to 11-00 a.m. In this clinic 4-6 new patients are seen on every Clinic day and nearly 75 to 100 patients attend for follow-up. Patients attend with surprising regularity. Phenytoin and Phenobarbitone continue to be made available to them at fortnightly or monthly intervals.

Indoor Patients :

The Unit has 32 beds (22 Male, 6 Female & 4 Paediatric). Over the years, increasing referrals have resulted in an almost constant overcrowding of the unit with patients often having to be placed on the floor. The average admission rate per week is 13. As the attendance at the epilepsy has increased, so too have the number of epileptics admitted for control, observation, investigation. Special investigative procedures continue to be carried out by the unit staff.

Gastroenterology :

A large increase in the number of G. I. cases continues to occur. The total number of new cases seen were 823, old cases 1,950. Thus 2,773 Patients attended the clinic in one year. A detailed report of the various tests and investigations done is given in the report from the Biochemistry Section.

Endocrinology :

536 Cases were seen in the Endocrinology O. P. D. and 30 cases were admitted during the year under report. The investigations for these patients were carried out in (a) Radioisotope Laboratory (b) Department of Medicine Laboratory.

Radio-Isotope :

Radio Iodine tracer Tests ...	645
B. M. R. Tests ...	676
Radio Iodine Therapy ...	50
Scan (Thyroid) ...	204
Steroid Estimations ...	154

Chest :

Total O. P. D. attendance (New Cases) ..	1,233
Follow-up ...	12,309
Pneumoconiosis Clinic New Cases ..	22
Admission ...	940
Investigations :	
Bronchography ...	45
Bronchoscopy ...	80
Pulmonary function Tests ...	875
Arterial puncture for blood gas analysis... ..	1,265
Catheter simple ...	750

Arthritis & Sports Medicine :

The following type of cases were seen during year under reports.

(1) Rheumatoid Arthritis ...	116
(2) Osteo Arthritis ...	43
(3) Non-articular Rheumatism ...	15

Total 174

V. R. A. (S. R. S.) PROJECT : DEPARTMENT OF CARDIOLOGY**Training Programme for Patients of Myocardial Infarction :**

150 patients were chosen for the reconditioning programme three months after acute myocardial infarction. The programme consisted of graded exercises and was monitored at each stage by symptoms, signs and a radiotelemeter. 90 percent of the patients could reach the work load of 7 METS aimed at and continued it without adverse effects. However, 10% could only perform upto 5 METS, no attempt was made in these to cross the 5 METS limit.

The patients benefitted from the reconditioning programme in the following manner :

- Heart rate levels at rest and while performing at comparable levels of work load decreased significantly.
- Systolic blood pressure levels at rest and while performing at comparable levels of work load decreased significantly; the former on an average by 15 mm. Hg.
- Systolic Tension Time Index for submaximal work loads.
- Physical working capacity increased considerably after reconditioning but did not reach the levels equal to that of normal individuals.
- There was subjective improvement and better behavioural social and sexual adjustment.
- In the reconditioned patients morbidity as well as mortality in a follow-up period averaging two years was very low.

Very early Ambulation in Patients of Acute Myocardial Infarction

400 cases of AMI admitted to the hospital were studied to find out whether very early ambulation was safe. 325 of the surviving patients were evaluated for suitability for ambulation on the 4th day. It was found that only 25% (83 out of 325) of these patients could be ambulated safely within 2 weeks. If a patient fulfils the preconditions for ambulation on the 4th day, he has a 53% chance of completing ambulation within 2 weeks. If he does not fulfil these criteria on the 4th day, then he has only a 11% chance of completing ambulation within 2 weeks of AMI.

213 out of 325 cases did not fulfil the criteria on the 4th day. This indicates that the majority of patients are not suitable for ambulation on the 4th day.

This study brings to light the following important points:—
 (1) That the preconditions evolved by us for ambulating patients of acute myocardial infarction are sound.

(2) That ambulation on the 4th day can be attempted only in 1/3rd of the surviving patients and only half of these are likely to complete safely a walk of 30 yards within 2 weeks.

(3) It is therefore felt that one should not attempt too early ambulation, indiscriminately and should use the preconditions formulated for selecting cases. The response of individual patient should be used for subsequent guidance during ambulation and rehabilitation.

(4) Our criteria have been shown to be more useful than the P.I. However use of our criteria and P.I. together adds to the usefulness.

Diabetic Clinic :

The diabetic Clinic was established in 1958. During the year under report the total attendance at the Clinic was 21,845 of which 1,878 were registered as New Cases. 605 patients were admitted for diabetic treatment.

The Clinic had continued to conduct a Clinical Trial with "Lycanol" tablets and "Artesin" tablets and Capsules. For research purposes, detailed analysis of all the diabetic cases was done.

(1) Only on Diet	...	...	...	...	1,849
(2) Insuline Injection	...	...	...	...	4,543
(3) Oral antidiabetic drugs	...	...	...	...	7,381
(4) Insuline Injection and Diabetic drugs	...	...	...	...	4,908

PAEDIATRIC (MEDICAL) DEPARTMENT

During the year under report 25,252 new cases were treated the Out-patient department and 5,132 were admitted as In-patient.

SCHOOL CLINIC DEPARTMENT

Municipal School Clinic worked in five Department, viz. Medical Ophthalmic, Aural, Skin and Dental where the children from various Municipal Schools are medically examined 2,047 New children and 15,828 old children were treated in the School Clinic Department in addition to 1,386 referred cases making a total 19,261.

Common complaints were malnutrition, anaemia, respiratory infections including T. B. glands in the neck including T. B. etc.

The total expenditure incurred on School Clinic Department, K. E. M. Hospital amounted to Rs. 97,029.53 during the previous year.

FULL TIME DEPARTMENT OF SURGERY

The full-time Department of Surgery which has been created at these institutions in 1956-57 with the help of the Rockefeller Foundation, New York, has continued to do progress during the year under report (from 1st January 1972 to 31st December 1972).

Biochemical sections of the Department of Medicine and Surgery during the year under report.

	No. of samples.
(A) Routine Blood Chemistry (Blood Collection, BUN, Creatinine, Proteins, Uric acid, Electrophoretic Pattern, Cholesterol Bilirubin (T/D) Enzymes (S. G. P. T., S. G. O. T., and Alk. Phosphates), Sugar, Calcium, Phosphorus, Sodium Potassium and Chlorides, Urine Urea and reagent preparations)	62,388
(B) Routine Haematological investigations (P. C. V., E. S. R., W. B. C. (T/D) R. B. C. Retic count, Platelet count, B. T., C. T. Iron, B12 studies & Haemoglobin)	1,984
(C) Routine Urine examination	592
(D) Routine Stool (including faecal fat and sigmoidoscopy)	4,838
(E) Special studies	
(1) P.H and gas analysis, acid load test	3,788
(2) Blood Volume studies	4
(3) Blood and urine barbiturates	44
(4) Osmolarity (Plasma and Urine)	8
(5) Blood ammonia	76
(6) Creatinin Clearance	312
(7) Methaemoglobin estimation	328
(8) L-Xylose and Amylose estimation	80
(9) Gastric analysis	198
Total	71,048

Thoracic Surgery Theatre :

The Thoracic surgery theatre was closed through the year under report for renovation, Major alterations and repairs. The operative work was done in the C. V. T. C. Operation Theatre as details given below, List of operations performed in C. V. T. C. Operation Theatre from 1-1-1972- to 31-12-1972.

Name of the Operation	Number
Mitral valvoplasty	Under bypass ... 1
Mitral valve replacements	Under bypass ... 16
Mitral commissurotomy	Under by pass ... 1
Aortic valve replacements	Under by pass ... 5
Aortic valvotomy	Under by pass ... 1
Double valve replacement	Under by pass ... 3
A. S. D. Closure	Under by pass ... 15
V. S. D. Closure	Under by pass ... 6
Total Corrections	Under by pass ... 4
Pulmonary valvotomy	Under by pass ... 1
Excision of ventricular aneurysm	Under by pass ... 1
Resection and reconstruction of aorta under by pass (Aneurysms)	... 6
Mitral commissurotomy	... 164
Mitral commissurotomy (Blind)	... 3
Excision of mediastinal tumours	... 3
Resection of aneurysms (Aortic)	... 6
Implantation of pacemakers	... 6
Ligation of P. D. A.	... 20
B. T. Shunt	... 17
A. P. Shunt	... 4
Glens shunts	... 1
Hellers operations	... 1
Pericardectomy	... 4
Pneumonectomy	... 8
Lobectomy	... 6
Decontication	... 1
Thoracoplasty	... 1
Thoracotomy	... 13
Bronchoscopy	... 65
Nephrectomy	... 1
Embolectomy	... 8

Name of the Operation	Number
Misc. vascular cases	... 24
Amputations	... 6
Servical/Dorsal Sympathetomy	... 4
Lumbar sympathetomy	... 9
Varicose vein stripping	... 3
Limp perfusion	... 2
Secondary suturing	... 28
Scalene Node Biopsy	... 26
Rib Resection and drainage	... 3
Pleural tapping	... 15
Pericardial biopsy	... 2
Exploration of Sinus	... 10
A. V. Shunt	... 1
Excision of A. V. Fistula	... 1
Burrholes	... 1

Department of Dermatology and Venerology :

During the year under report 34,784 New cases inclusive of referred cases from other sections and 33,445 old cases were treated in the Out-patient department and 735 cases inclusive of referred cases from other Sections were admitted for the treatment. Department has a well equipped Laboratory wherein number of investigations were carried for diagnosis of cases as well as for research purposes, as detailed below :

(1) Urethral smear, prostatic smear, T. G. T., C. S. and V. S.	... 782
(2) Blood Count	... 167
(3) Urine examination	... 45
(4) Skin biopsy	... 260
(5) Allergy patch testing	... 347

LEPROSY CLINIC :

A Leprosy Clinic is attached to the Department of Dermatology and Venerology which is conducted by greater Bombay Leprosy control Scheme and the patients suspected to be suffering from Leprosy are examined at this clinic. The following is the account of work done at this clinic :

New Patients	... 885
Repeat Patients	... 958
New A. L. H. Patients	... 11

Analysis of New Patients :

	Tuberculoid	Intermediate	Lepromatous	Total
Male	407	57	72	526
Female	212	19	16	247
M/child	59	1	1	61
F/child	48	1	2	51
Total	726	78	81	885

Analysis of 2179 Old Cases :

	Tuberculoid	Intermediate	Lepromatous	Total
Male	1,250	114	176	1,540
Female	427	42	32	501
M/child	66	8	2	76
F/child	60	2	...	62
Total	1,803	166	210	2,179

Total Attendance	...	...	...	...	9,580
Total working days	...	...	...	...	147
Average attendance	...	...	...	...	65.2
Bact. Smear done	...	...	...	...	...
Negative	...	...	...	...	...
Positive	...	...	...	...	...
Sweet Function Test	...	...	...	...	...
Concentration Test	...	...	...	...	...
Negative	...	...	...	...	...
Positive	...	...	...	...	...

Department of Radiology :

The work done at the department of Radiology during the year under report is as under :

K. E. M. Hospital (Radiology) Department :

Plain X-ray	...	...	...	...	40,460
Cystourethrogram	...	...	...	...	140
PEGs	...	...	...	...	210
Angiography	...	...	...	...	110
Muelograms	...	...	...	...	105
I. V. P. s	...	...	...	...	2,71
Hystero-salpingography	...	...	...	...	525
B. M.	...	...	...	...	...
B. S.	...	...	...	...	4,900
B. E'	...	...	...	...	...
Total	...	...	...	...	49,160

K. E. M. Hospital (Department of Diagnostic Radiology) :

Cardiac Catherezation	...	...	...	...	240
Angio-cardiograms	...	...	...	...	192
A ortograms	...	...	...	...	182
Arteriograms	...	...	...	...	38
Lymphangiograms	...	...	...	...	13
Venograms	...	...	...	...	32
Bronchograms	...	...	...	...	144
Spleno-portograms	...	...	...	...	92
Cardiac Pace maker	...	...	...	...	14
90 Implantation	...	...	...	...	3
Routine X-rays	...	...	...	...	2,710
Animal X-rays	...	...	...	...	136
Total	...	...	...	...	3,796

Orthopaedic Centre (Radiology Department)

Plain X-rays	38,550
--------------	-----	-----	-----	-----	--------

C. V. T. C. (Radiology Department) :

Plain X-rays	...	...	...	...	9,262
I. V. P. s	...	...	...	...	1,130
Total	...	...	...	...	10,392

Medical Check up Centre :

The centre is gathering attention of the Public and as many as 369 patients were examined investigated and treated at the centre during the year under report :-

Physio Therapy Centre and School

The Physio-Therapy Centre and School started as a Joint venture of Government of India, Government of Maharashtra and the Municipal Corporation of Greater Bombay, Corporation sharing the major portion of expenditure. Now the entire cost is borne by the corporation. Seth G. S. Medical College has been granted extension of affiliation by the University of Bombay for conducting a course leading to B. Sc. Degree in Physical Therapy from June 1967.

40 students were admitted in June 1972, out of which 36 are continuing the course in the F. Y. B. Sc. (P. T.) class. A total of 32 students graduated during the year (21 in April 72 and 11 in October 72) 60 students are at present undergoing the training.

The following is the work carried out at the centre during the year under report.

	Patients Referred	Treatment given
(1) Out-patients	6,583	87,112
(2) Special investigations at the Laboratory of Electromyography & Electrodiagnosis.	283	...
(3) Indoor-patients	...	...
i) Orthopaedic	2,296	93,012
ii) Thoracic surgery	455	4,167
iii) Cardiology	391	2,627
iv) Other specificities	3,058	29,182
Total	13,066	2,16,160

Occupational Therapy School & Centre

The occupational School and Centre continued satisfactorily during the year under report:—
School: The School has been granted extension of affiliation by the University of Bombay for conducting B. Sc. Degree course in occupational Therapy. The University has further approved. 40 New students were admitted during the year under report 39 students passed in B. Sc., (O. T.) examination held in April 1972 and October 1972. There are now 38 students in First year and 23 students in the Second year and 5 casual students.

School: The School has been granted further extension of affiliation by the University of Bombay for conducting B. Sc. degree in occupational Therapy and the inspection for permanent affiliation was done. A function was held on 28th November 1972 to felicitate Mrs. K. V. Nimbkar who won "Lakser Award" for the pioneering work in the field of Occupational Therapy and Rehabilitation.

Centre: The number of patients treated at the Centre was 8,721 and 1,19,167 treatments were given in the Wards and the Centre. The activities of the department have grown more. 298 Splints were made for the patients and amount of Rs. 845.20 realised from the sale was credited to the poor box fund. About 48 splints were given free for the poor patients. As amount Rs. 9000 was also realised from the sale of article made by patients as a part of treatments and Trance Programme, some of the patients were paid for the work done by them as incentive and part of the motivation programme in the total treatment.

The work in weaving, Tailoring and Printing Sections is being carried out satisfactorily. The following are the other Centres recently established. (1) Andheri (2) Mulund, (3) Chembur (4) Chhatkopar, (5) Kurla (6) Bandra.

Prophylactic Immunization Centre

The total number of patient treated during the year at the Centre was 31,599 as against 30,402 in the previous year. 8,629 new cases were registered during the year under report. 173 patients attended the Centre, the figure showing the highest attendance on a single day. Besides, antirabic treatment immunization against Typhoid, Cholera, Plague Diphtheria and Small Pox was also done at the Centre.

Department of Pathology and Bacteriology

Central Clinical Laboratory:

1,17,470 Laboratory investigations were carried out during the year 1972 in the Central clinical Laboratory (Apart from Ward and O.P.D. Laboratories) on the material sent from the hospital as against 1,25,108 and 1,06,992 in the year 1971 and 1970 respectively. These investigations are grouped under the following

(1) Pathological investigations	...	...	...	43,536
(2) Bacteriological investigations	...	...	...	17,560
(3) Biochemical investigations	...	...	...	41,461
(4) Serological investigations	...	...	...	14,913
(5) Skin Tests	...	...	...	...

Following table shows the number of paraffin blocks prepared for histological examination from the autopsy material and surgical tissues from 1st January 1972 to 31st December, 1972, together with the figures for the previous two years:

Year	Block of Post-mortem Organs.	Block of tissues from the Surgical side of K. E. M. Hospital and from outside.	Total
1972	12,334	13,563	25,957
1971	13,580	16,574	30,154
1970	15,031	13,725	28,756

Food Handler's Scheme

2,481 persons were directed for examination by H. S.'s Department from 1-12-1972 to 31-12-72 out of which only 1,496 persons attended for examination. 473 persons did not give their stools, blood etc. for pathological examination and hence their reports are still pending. In all 953 fit and 70 unfit certificates were issued during the year under report.

Neuropathology Department

(1) Surgical number of specimens received from hospital	...	...	...	...	305
(2) Number of blocks	...	...	...	...	462
(3) Number of slides	...	...	...	...	1,450
(4) Number of post-mortem specimens	...	...	...	...	196
(5) Number of blocks	...	...	...	...	1,330
(6) Number of slides	...	...	...	...	1,780
Total					5,523
(1) Neurochemical Investigations	...	...	...	...	6,557
(2) Histochemical Investigations	...	...	...	...	947
(3) Histochemical & Enzyme study	...	...	...	...	...
Muscle Biopsy					
(i) Pt. with Neuromuscular disorders	...	...	...	...	50
(ii) Normal individuals	...	...	...	...	20
(iii) Polyacrylamide gel electrophoresis for the study of Isoenzyme of GPH	...	...	...	...	10

SHANTILAL MATHURADAS BLOOD BANK

(Bombay Municipal Blood Bank)

The total number of blood samples including those from voluntary donors was 9,770 out of blood samples collected 3,827 were from voluntary donors and 1,996 from relative donors and 2,659 from professional donors and 1,288 were the samples brought from other hospitals. An amount of Rs. 36,913.36 was spent out of the poor box charity Fund on payment to the Professional donors and on refreshments and Maharashtra Government Lottery Tickets to the Voluntary donor and other incidental charges. Number of bottles supplied during the year was 9,797 as show below —

(1) K. E. M. Hospital	...	...	...	...	8,757
(2) Other Municipal Hospitals	...	...	...	...	295
(3) Other Institutions	...	...	...	...	279
(4) Private Hospitals	...	...	...	...	38
(5) Haffkine Institute	...	...	...	...	120
(6) Bottles discarded	...	...	...	...	288
(7) Supplied for Antescia	...	...	...	...	20
Total					9,797

Dr. Jivraj N. Mehta Pharmaceutical Laboratory

The details of the manufacturing work done in the Laboratory during the year 1972 are given below —

1. Production:

(a) Transfusion Bottles 500 M (—11 different type)	...	...	...	...	1,34,627
(b) A. C. D. Bottles 80 cc.	...	...	...	...	8,115
(c) Other bottles:—					
Distilled Water 500 ml.	...	...	...	...	18,580
Flushing solution 500 ml.	...	...	...	...	6,830
Total					1,68,152
(d) Vials 10,50 M 100 Mls. (14 Different types)	...	...	...	...	13,820
(e) Sterile solutions (6 different types)	...	...	...	.. Litres	2,740
(f) Stains and solution for clinical use (12 types)	...	...	...	..	513
(g) Miscellaneous items:—					
(i) Biofler (Didurent)	...	...	255	Litres	
(ii) Enema and Hand soap	...	...	1,620	"	
(iii) Bone Wax (Surgical)	...	...	3.6	Kg.	
(iv) Repacking from bulk	...	...	1,490	Units.	
(v) Hand Detergent soap	...	...	1,695	Litres.	

(h) Transfusion sets	35,978
(i) Bleeding sets	9,335

2. Central Sterile Supply Service :

Sterilization of following articles

(a) Drums	Nos.	51,584
(b) Trays		17,743
(c) Flasks, Jars, Pots and Theatre Bottles		3,238
(d) Boxes (transfusion) and bleeding sets		11,646

3. Control Laboratory :

(a) Sterility Tests	Nos.	1,031
(b) Pyrogen Tests		413
(c) Tests for contents		722

Dispensary

The dispensing work carried out in the Dispensary during the year under report is as follows :—

	K.E.M.H.	C.V.T.C.	Orth. Centre	Total
(1) Out-patients	5,34,211	29,325	35,988	
(2) In-Patients	51,555	3,667	5,599	
(3) Ordinary	2,667	559	69	
Total	5,88,433	33,051	41,656	

Advisory Medical Board

During the year under report, the Advisory Medical Board held 2 meetings of the Honorary and Professorial Staff.

Staff Society Clinical Meetings

The staff Society of the K. E. M. Hospital and Seth G. S. M. College held 10 meetings during the year when papers on the various subjects were presented.

Nursing Staff

During the year under report 89 students were sent up for the General Nursing Part I Gr. 'A' Examination. 73 students out of them got through the examination. Similarly out 89 students sent up for the Part I Cr. 'B' Examination, 81 students got through the examination. Out of 25 students sent up for the Part I Cr. 'A' and 'B' examination 20 students have been successful. 114 students were sent up for the Part II examination out of that 88 students got through the examination out of 77 students those appeared for the midwifery examination held by the Maharashtra Nursing Council, 72 students were successful.

The arrangement of sending nurses to the Kasturba Hospital for training in infectious Diseases was continued during the year under report. Six student Nurses were directed to the Kasturba Hospital every month, for training for a period of one month.

The Bisannual Conference for the trained Nurses was held by the T. N. A. I. at Bombay in October 1972 and the nurses from this Hospital attended the conference. They had presented a model (1) Scope of Nursing and (2) Exchange Blood Transfusion. The model at Sr. No. 1 was awarded first prize.

Four Nurses of this Hospital were trained in B. C. G. vaccination during the year at the J. J. Hospital, Bombay.

Mayor's Award's to the best trained and the trainee nurses is introduced from this year and Smt. P. I. Malkani, sister, the Smt. T. M. Ghikhiwala, student Nurse were given the Mayor's Award. Smt. S. N. Bellimal, Matron, and Smt. D. J. Mehta, Sr. Asstt. Matron, continued to be the members to work on the Maharashtra Nursing Council.

The total number of nursing staff during the year was 846 inclusive of the superior staff.

The cost of the Nursing Establishment worked out to Rs. 343.33 per nurse per mensem.

Nurses Welfare Fund

The fund is built out of the subscription from Nurses and from donations received from generous people. It is managed by a Committee of which the Dean is an Ex Officio President. The corpus of the fund amounting to about 16,000 is held in Government Securities. The donated sums are deposited in fixed deposits and all the receipts kept in Bank of Maharashtra for safe custody. The interest on securities is utilised for providing amenities to the Nurses such as subscription for Reader's Digest, Variety entertainments, sports, paying bills for non-residential members for general lunches and also giving loans to the Nurses in their difficulties.

K. E. M. Hospital & Seth G. S. Medical College Employees Co-Operative Credit Society

The Society worked satisfactorily during the year under report. The total number on the roll at the end of June 1972 was 1,756. The share capital amounted to Rs. 5,11,710 on 30th June 1972 as against Rs. 5,22,590 on the corresponding date of the previous year.

The accounts of the Society upto 30 June 1972 were audited by the Government Auditors and the Society was awarded 'A' Class.

Donations by Philanthropic Bodies and Persons

A well-wisher who desired to remain anonymous has donated an amount of Rs. 15,000 to this hospital in the year 1963 in memory of (i) Smt. Kshemibai Vishindas Ramchandani and (ii) Smt. Parvatibai R. Ramchandani. The interest on its amount is being credited to the Poor Box Charity Fund maintained at this hospital and this amount will be utilised for the benefit of poor and needy patients.

During the year under report number of articles including sweets, toffees, fruits, etc. were donated by Philanthropic Institutions and persons.

Expenditure out of poor Box Charity Fund

Besides the expenditure incurred from Municipal Funds a sum of Rs. 1,02,920.68 was spent out of the Poor Box Charity Fund in the year 1972-73 as against Rs. 90,182.02 in previous year. This amount was mostly spent on costly drugs, blood transfusion, surgical appliances travelling expences of patients, etc. for the poor and deserving patients of the hospital. Donations to the extent of Rs. 29,301.55 was received by the Poor Box Charity Fund from the patients, Philanthropic bodies and individual. In addition to cash donations small donations in kind were also received.

Expenditure out of the Hospital Budget Grant

The total expenditure incurred on the maintenance of the hospital during the year 1972-73 including liabilities at the end of year but exclusive of the cost of extension scheme amounted Rs. 2,70,34,830 approximately. The expenditure was inclusive of the cost of maintenance and treatment of In-patient, Out-patients and Establishment charges on Medical, Nursing Administration and Labour Staff as well as the cost of the staff re-maintenance and repairs of the buildings.

C. K. DESHPANDE, M.D.

Dean, K. E. M. Hospital Seth G. S.
Medical College, Parel Bombay 12.

APPENDIX NO. 1.

STATEMENT SHOWING THE DISTRIBUTION OF BEDS ACCORDING TO CLASSIFICATION OF DEPARTMENTS, SEX AND UNITS.

Departments	Head of the Units	Male	Female	Childrens	Unclassified	Total
MEDICAL Including Tetanus.	Dr. K. G. Nair	'X' 20	18	4	...	42
	Dr. J. K. Mehta	20	12	...	...	32
	Dr. (Miss) V. N. Acharya*	24	14	...	...	38*
	Dr. A. F. Golwalla	20	12	...	...	32
	Dr. J. M. Mehta	20	12	...	...	32
	Dr. P. D. Anjaria	20	12	...	...	32
SURGICAL	Dr. P. K. Sen	10	3	...	...	13
	Dr. G. D. Adhia	19	5	...	...	24
	Dr. V. S. Sheth	19	5	...	...	24
	Dr. M. L. Vaze	19	5	...	...	24
	Dr. G. B. Parulkar	19	5	...	...	24
	Dr. R. A. Bhalerao	19	5	...	...	24
	Dr. A. B. Samsi	19	5	...	...	24
OPHTHALMIC	Dr. D. G. Mody	14	10	...	...	24
	Dr. B. T. Maskati	11	6	...	...	17
GYNAEC	Dr. V. N. Purandare	...	14	...	...	14
	Dr. (Miss) N. D. Motashaw	...	14	...	...	14
	Dr. M. R. Narvekar	...	14	...	...	14
	Dr. (Mrs) S. J. Joglekar	...	14	...	...	14
OBSTETRIC	Dr. V. N. Purandare	...	44	...	...	44
	Dr. (Miss) N. D. Motashaw	...	44	...	...	44
	Dr. M. R. Narvekar	...	44	...	...	44
	Dr. (Mrs) S. J. Joglekar	...	44	...	...	44
SKIN & VENE- REAL	Dr. S. C. Desai	16	10	...	...	32
ORTHOPAEDIC	Dr. A. V. Bavdekar	40	27	13	...	80
	Dr. R. M. Bhansali	40	27	13	...	80
	Dr. L. N. Vora	40	27	13	...	80
AURAL	Dr. J. V. Desai	6	5	13	...	24
	Dr. S. R. Rege	6	5	13	...	24
PSYCHIATRIC	Dr. N. S. Vahia	16	4	4	...	24
	Dr. V. N. Bagadia	16	4	4	...	24
NEUROSURGI- CAL	Dr. H. M. Dastur	18	10	8	...	36
NEUROLOGY	Dr. E. P. Bharucha	22	6	4	...	32
PAEDIATRIC (MEDICAL)	Dr. (Mrs) P. E. Bharucha	...	...	32	...	32
	Dr. M. P. Bhagat	...	...	32	...	32
	Dr. R. J. Buhari- walla	...	...	32	...	32
	...	...	...	32	...	32
PLASTIC SUR- GERY & BURNS	Dr. K. S. Goleria	16	14	10	12	52
THORACIC	Dr. P. K. Sen & Dr. G. B. Parulkar	10	6	...	...	16
ISOLATION RESUSCITA- TION	ISOLATION	4	2	...	...	6
	RESUSCITATION	4	1	...	...	5
CARDIO-VAS- CULAR & THORA- CIC SURGERY	Dr. P. K. Sen & Dr. G. B. Parulkar	29	19	...	...	48
CARDIOLOGY	Dr. Ivan J. Pinto	8	6	...	10	24
	Dr. K. G. Nair	14	2	...	...	16

* These include 6 beds (4 + 2 female) for A. K. D. male

APPENDIX NO. 1—Contd.

Departments	Head of the Units	Male	Female	Childrens	Unclassified	Total
CHEST CLINIC	Dr. S. D. Store	13	11	...	...	24
PAEDIATRIC-SURGERY	Dr. P. K. Sen Dr. R. K. Gandhi	...	...	3 40	...	3 40
DRUG TRIAL (CIBA)	DRUG TRIAL (CIBA)	...	...	...	10	10
DRUG TRIAL (CIPLA)	DRUG TRIAL (CIPLA)	...	...	...	10	10
DRUG TRIAL (UNICHEM)	DRUG TRIAL (UNICHEM)	...	...	...	10	10
UROLOGY	Dr. D. K. Karanjawala	8	5	3	...	16
TOTAL		599	552	247	52	1,450

* These include 6 beds for A. K. D. as under:—

Male : 4

Female : 2

Medical beds are inclusive of beds for Tetanus Haemctology, Gastroenterology, Endocrinology and Diabetes as shown below:—

	Male	Female	Children	Total
Tetanus	10	6	4	20
Haemctology	4	2	...	6
Gastroenterology	4	2	...	6
Endocrinology	4	2	...	6
Diabetics	4	2	...	6

APPENDIX NO. 1A

Statement showing the Distribution of Beds According to wards, Services and Heads

Ward No.	Service	Name of the Head of the Service	Unit wise allocation of Beds	Total Scheduled strength of Ward
I.	Paediatric (Medical)	Dr. (Mrs.) P. E. Bharucha Dr. R. J. Buhariwalla	30 } 30 }	60
II.	Paediatric (Medical) Paediatric (Surgical) Psychiatric Psychiatric Neurology	Dr. M. P. Bhagat Dr. R. K. Gandhi. Dr. N. S. Vahia. Dr. V. N. Bagadia Dr. E. P. Bharucha.	30 } 18 } 4 } 4 } 4 }	60
III.	Paediatric (Surgical) Aural Urology	Dr. R. K. Gandhi. Dr. P. K. Sen. Dr. J. V. Desa Dr. S. R. Rege Dr. D. K. Karanjawalla	22 } 3 } 8 } 8 } 3 }	44
IV.	Medical (Female) Psychiatric Cardiology	Dr. K. G. Nair Dr. (Miss) V. N. Acharya Dr. P. D. Anjaria. Dr. V. N. Bagadia. Dr. K. G. Nair	12 } 12 } 12 } 4 } 2 }	42
IV-A.	Medical (Female) Psychiatric Neurology	Dr. J. M. Mehta. Dr. A. F. Golwalla. Dr. J. K. Mehta. Dr. N. S. Vahia Dr. E. P. Bharucha.	12 } 12 } 12 } 4 } 6 }	46
V.	Surgical (Male)	Dr. V. S. Sheth Dr. G. B. Parulkar Dr. P. K. Sen.	19 } 19 } 10 }	48

APPENDIX No. 1A—(Contd.)

Ward No.	Service	Name of the Head of the Service	Unit wise allocation of Beds	Total Scheduled Strength of Ward
VI.	Surgical (Male)	Dr. A. B. Samsi.	19	48
		Dr. M. L. Vaze.	19	
	Urology	Dr. R. A. Bhalerao	2	
		Dr. D. K. Karanjwalla.	8	
VII.	Surgical (Male)	Dr. G. D. Adhia.	19	48
		Dr. R. A. Bhalerao	17	
	Aural	Dr. J. V. Desa	6	
		Dr. S. R. Rege	6	
VIII.	Surgical (Female)	Dr. P. K. Sen.	3	48
		Dr. V. S. Sheth.	5	
		Dr. A. B. Samsi.	5	
		Dr. G. D. Adhia.	5	
		Dr. G. B. Parulkar.	5	
		Dr. M. L. Vaze.	5	
	Aural	Dr. R. A. Bhalerao.	5	
	Urology	Dr. J. V. Desa	5	
	Dr. S. R. Rege.	5		
	Dr. D. K. Karanjwalla.	5		
IX.	Medical (Male)	Dr. P. D. Anjaria	20	40
		Dr. A. F. Golwalla.	10	
X.	Neurosurgery	Dr. H. M. Dastur	18	50
	Neurology	Dr. E. P. Bharucha.	22	
	Psychiatric	Dr. N. S. Vahia	5	
	Psychiatric	Dr. V. N. Bagadia.	5	
XI.	Medical (Male)	Dr. J. M. Mehta	20	40
	Cardiology (Male)	Dr. K. G. Nair	10	
	Medical (Male)	Dr. K. G. Nair	10	
XII.	Medical (Male)	Dr. V. N. Acharya	20	40
		Dr. J. K. Mehta.	20	
XIII.	Ophthalmic	Dr. D. G. Mody	24	41
		Dr. B. T. Maskati	17	
XIV-XIVA	Labour obstetrics	Dr. V. N. Purandare	44	182
		Dr. (Miss) N. D. Motaashaw	44	
	Ante-Natal	45	44	
	Post-natal	44	44	
	Sterilization	19	44	
	Prematurity		† 6	
	Post-Operative	18		
	Waiting Ward	23		
	Labour Ward	10		
	Septic ward	6		
	Side Room	3		
	Eclampsia	3		
	Receiving Room	2		
	Theatre	3		
			176	
	Prematurity	6		
	Total	182		
XV & XVA	Gynaecology	Dr. V. N. Purandare	14	56
		Dr. (Miss.) N. D. Motaashaw	14	
		Dr. M. R. Narvekar.	14	
		Dr. (Mrs.) S. J. Joglekar	14	
XVI & XVIIA	Plastic Surgery & Burns	Dr. K. S. Goleria.	40	52
			12	

APPENDIX No. 1A—(Concl'd.)

Ward No.	Service	Name of the Head of The Service	Unit wise allocation of Beds	Total Scheduled Strength of Ward.
XVII & XVIII	Skin & Venereal Isolation	Dr. S. C. Desai	32 6	38
XIX.	Psychiatric	Dr. N. S. Vahia Dr. V. N. Bagadia.	11 11	22
XX.	Resuscitation		5	5
XXI.	Aural	Dr. J. V. Desa Dr. S. R. Rege.	5 5	10
XXII.	Tetanus	Dr. K. G. Nair	20	20
XXIII.	Thoracic	Dr. P. K. Sen & Dr. G. B. Parulkar	16	16
XXIV.	Drug Trial.	CIBA WARD	10	10
XXIV-A	Drug Trial.	Cipla Ward	10	10
XXIV-B	DRUG Trial	Unichem Ward	10	10
XXV.	Orthopaedic (Male)	Dr. R. M. Bhansali.	40	40
XXVI.	Orthopaedic (Female) & (Children)	Dr. R. M. Bhansali.	40	40
XXVII.	Orthopaedic (Male)	Dr. A. V. Bavdekar.	40	40
XXVIII.	Orthopaedic (Female) (Children)	Dr. A. V. Bavdekar.	40	40
XXIX.	Orthopaedic (Male)	Dr. L. N. Vora.	40	40
XXX.	Orthopaedic (Female) Children)	Dr. L. N. Vora.	40	40
XXXI.	C. V. T. C.	Dr. P. K. Sen (General Surgery) Dr. P. K. Sen & Dr. G. B. Parulkar	4 44	48
XXXII.	Chest Clinic Cardiology	Dr. S. D. Store Dr. Ivan J. Pinto Dr. K. G. Nair.	24 24 4	52
XXXIII.	Neurosurgery	Dr. H. M. Dastur.	18	X 18
XXXIV.	Artificial Kidney.	Dr. (Miss) V. N. Acharya.	6	• 6
			Total	1,450

† These beds are under the Care of Paediatric (Medical)

X. Sex-wise distribution is as under :

Male	10
Female	5
Children	3

* Sex-wise distribution as under

Male	4
Female	2

The beds in Medical Wards—IV and IVA (Female) and IX and XI (Male) are inclusive of the following beds—

(1) Dr. B. C. Mehta Haematology	Ward IX—4 Male	Ward IVA—2 Female
(2) Dr. S. D. Bhandarkar Endocrinology	Ward IX—4 Male	Ward IV—2 Female
(3) Dr. M. K. Dhirwani Diabetics	Ward XI—4 Male	Ward IV—2 Female
(4) Dr. B. D. Pimpalkar Gastroenterology	Ward XI—4 Male	Ward IVA—2 Female

APPENDIX No. 2

Statement showing the particulars of Indoor and Out-door patients, the number of Operations performed etc during the years 1972, 1971 and 1970.

Particulars	1972	1971	1970
(a) In-patients—			
(1) Schedule strength of beds	1,450	1,450	1,333
(2) Daily average number of In-patients	1,791	1,847	1,793
(3) Total number of new In-patients admitted	60,930	60,079	60,761
(4) Average number of days each patient was resident	11.3	11.3	10.8
(b) Out-patients—			
(1) Total number of new Out-patients attendance	3,78,013	3,78,013	3,66,994
(2) Daily average number of new Out-patients	1,292	1,240	1,203
(3) Total number of Out-patients attendance New & Old	7,52,098	7,55,180	7,17,150
(4) Daily average number of Out-patients attendance	2,466	2,476	2,351
(5) Number of Casualty Patients	43,239	38,778	44,644
(c) Operations—			
(1) Total number of Operations on In-patients	27,239	26,331	25,849
(2) Total number of Operations on Out-patients	47,371	42,879	45,209

APPENDIX No. 3

Statement showing the In-patients treated in the K. E. M. Hospital during the year 1972 with the classification according to Depts. Sex, Age, Discharges & Deaths.

Departments	Unit	Sex	In the Hospital at the mid-night of 31st Dec. 1971	Admitted during the year 1972	Total treated	Discharged during the year 1972	Died during the year 1972	In the Hospital by the midnight of 31st Dec. 1972
Medical	.. I	Male	27	1,597	1,824	1,609	181	34
		Female	10	726	736	631	61	14
Medical	.. II	Male	53	1,618	1,701	1,476	220	55
		Female	24	753	777	639	112	26
Medical	.. III	Male	17	1,391	1,400	1,217	18	25
		Female	7	732	739	628	92	19
Medical	.. IV	Male	44	1,899	1,844	1,525	274	45
		Female	25	1,021	1,045	851	151	34
		M/Child	5	268	273	111	155	7
		F/Child	1	94	195	96	97	2
Medical	.. V	Male	40	1,376	1,416	1,210	18	28
		Female	17	603	620	525	87	7
Medical	.. VI	Male	35	1,514	1,549	1,363	148	38
		Female	17	765	782	668	95	19
Surgical	.. I	Male	35	1,738	1,823	1,667	118	38
		Female	6	468	474	422	45	7
Surgical	.. II	Male	33	1,701	1,714	1,595	98	41
		Female	13	552	565	500	55	10
Surgical	.. III	Male	21	1,465	1,487	1,379	86	22
		Female	7	415	422	373	42	7
Surgical	.. IV	Male	44	1,677	1,721	1,589	94	38
		Female	13	423	435	372	49	15
Surgical	.. V	Male	35	1,522	1,557	1,405	104	47
		Female	11	424	435	369	61	5
Surgical	.. VI	Male	11	1,560	1,571	1,432	110	29
		Female	9	451	460	398	52	10
Ophthalmic	.. I	Male	11	416	427	417	1	9
		Female	7	227	234	231	...	3
		M/Child	1	33	34	34	...	...
		F/Child	...	21	21	21	...	...
Ophthalmic	.. II	Male	9	451	460	442	...	18
		Female	6	311	317	303	1	13
		M/Child	...	24	24	24	...	...
		F/Child	...	19	19	19	...	...
Gynaec	.. I	Female	14	635	649	631	5	18
		F/Child	...	...	...	...	...	...
Gynaec	.. II	Female	17	1,000	1,017	1,003	3	11
		F/Child	...	2	2	2	...	...
Gynaec	.. III	Female	12	636	648	615	2	31
		F/Child	...	...	...	...	...	...
Gynaec	.. IV	Female	16	789	805	788	2	15
		F/Child	...	1	1	1	...	...
Skin & Venereal	.. I	Male	15	482	497	473	6	18
		Female	14	167	171	165	...	6
		M/Child	2	51	53	53	...	...
		F/Child	...	35	35	35	...	...
Auro	.. I	Male	5	480	485	476	...	9
		Female	3	305	308	301	...	7
		M/Child	...	200	200	198	...	2
		F/Child	...	183	183	180	1	2
Auro	.. II	Male	6	486	494	482	4	6
		Female	...	400	400	393	2	5
		M/Child	...	267	267	265	8	6
		F/Child	...	270	270	269	...	1
Orthopaedic	.. I	Male	70	703	773	644	27	102
		Female	30	280	310	247	13	60
		M/Child	7	153	160	143	4	13
		F/Child	2	85	87	76	4	7
Orthopaedic	.. II	Male	17	621	638	561	29	95
		Female	36	267	293	263	8	32
		M/Child	7	172	181	179	1	17
		F/Child	4	74	78	69	2	7
Orthopaedic	.. III	Male	53	604	657	561	10	86
		Female	24	271	295	243	10	42
		M/Child	6	193	199	181	5	11
		F/Child	10	100	110	106	...	4

APPENDIX No. 3—(contd.)

Department	Unit	Sex	In the Hospital at the midnight of 31st Dec. 1971	Admitted during the year 1972	Total treated	Discharged during the year 1972	Died during the year 1972	In the Hospital by the mid-night of 31st Dec. 1972	
Psychiatric .. I	Male	..	11	301	312	293	3	16	
	Female	..	5	141	146	137	9	9	
	M/Child	..	..	23	23	22	..	1
	F/Child	..	..	20	20	19	..	1
Psychiatric .. II	Male	..	14	310	324	312	2	10	
	Female	..	3	134	137	134	1	2	
	M/Child	..	..	23	23	22	..	1
	F/Child	..	1	7	8	7	..	1	
Neurology ..	Male	..	15	378	393	359	14	20	
	Female	..	5	177	182	166	5	11	
	M/Child	..	6	87	93	78	11	4	
	F/Child	..	6	40	46	35	7	4	
Neuro-surgery	Male	..	15	210	255	186	39	30	
	Female	..	12	117	129	109	20	..	
	M/Child	..	2	81	83	71	12	..	
	F/Child	..	..	37	37	26	11	..
Paediatric (Medical) .. I	M/Child	..	23	1,009	1,032	844	165	23	
	F/Child	..	20	725	745	603	133	9	
Paediatric (Medical) .. II	M/Child	..	20	1,014	1,034	813	194	17	
	F/Child	..	13	650	663	506	149	8	
Paediatric (Medical) .. III	M/Child	..	13	1,044	1,057	864	175	18	
	F/Child	..	15	700	715	556	137	22	
Obstetric .. I	Female	..	34	2,252	2,286	2,242	8	36	
Obstetric .. II	Female	..	42	2,510	2,552	2,505	6	41	
Obstetric .. III	Female	..	24	1,830	1,824	1,795	1	28	
Obstetric .. IV	Female	..	25	1,728	1,753	1,723	5	25	
Plastic-surgery	Male	..	21	305	325	301	2	23	
	Female	..	6	131	137	125	3	9	
	M/Child	..	2	102	104	100	1	9	
	F/Child	..	1	77	78	68	..	10	
Thoracic-Surgery	Male	..	27	253	281	226	29	25	
	Female	..	19	143	162	121	20	21	
	M/Child	..	3	31	34	26	8	..	
	F/Child	..	..	27	27	22	5	..
Cardiology .. I	Male	..	26	467	493	444	44	5	
	Female	..	4	202	206	191	14	1	
	M/Child	..	1	4	5	1	4	..	
	F/Child	..	..	10	10	5	5	..
	.. II	Male	30	30
	Female	8	8
Paediatric-Surgery	M/Child	..	45	2,573	2,618	2,431	142	45	
	F/Child	..	19	1,248	1,267	1,160	86	21	
Asthma ..	Male	..	13	522	535	95	23	17	
	Female	..	7	330	337	322	9	6	
	M/Child	..	..	6	6	6	..	..
	F/Child	..	..	3	3	3	..	..
Urology ..	Male	..	10	202	212	205	7	..	
	Female	..	2	51	53	53	..	..
	M/Child	..	..	8	3	3	..	..
	F/Child	..	..	1	1	1	..	..
Diabetic	Male	..	1	134	135	126	8	1	
	Female	..	2	71	73	64	7	2	
	M/child	..	..	..	..	..	..	..
	F/child	..	..	..	..	..	..	..
Gastro intestinal Clinic	Male	..	4	71	75	73	2	..	
	Female	..	..	27	27	26	..	1
	M/child	..	..	..	..	..	..	..
	F/child	..	..	..	..	..	..	..
Haematology	Male	..	3	39	42	32	5	5	
	Female	..	2	23	25	18	3	4	
	M/Child	..	..	2	2	2	..	..
	F/Child	..	..	..	..	..	..	..
Endocrinology	Male	..	1	11	12	12	..	..
	Female	..	..	19	19	16	1	2
Artificial Kidney Dept.	Male	..	..	8	8	15	11	5
	Female	..	..	2	2	4	3	1
	M/Child	..	..	..	..	..	..	..
	F/Child	..	..	..	..	..	..	..
Total ..	Male	..	792	26,516	27,348	24,372	2,039	937	
	Female	..	520	22,487	23,007	21,346	1,052	609	
	M/Child	..	143	7,357	7,500	6,457	880	163	
	F/Child	..	92	4,530	4,622	3,886	637	99	
Grand Total ..			1,547	60,930	61,477	56,061	4,608	1,808	

APPENDIX No. 4.

Statement showing the O.P. Patients (New O.P. D., Casualty) in the K. E. M. Hospital during the year 1972
Classification according to the Department, Sex and Age.

Departments	Sex	O.P.D. New Cases	Casualty.
Medical	Male	49,651	2,236
	Female	24,711	1,011
	M/Child	56	246
	F/Child	25	173
Surgical	Male	70,179	12,690
	Female	22,641	2,519
	M/Child	...	...
	F/Child	...	...
Ophthalmic	Male	16,014	4,028
	Female	6,400	263
	M/Child	1,183	163
	F/Child	948	86
Gynaecology	Female	14,277	55
	F/Child	6	12
Dental	Male	9,586	103
	Female	6,408	23
	M/Child	1,213	16
	F/Child	952	9
Skin-Veneral	Male	20,641	37
	Female	7,011	2
	M/Child	4,020	1
	F/Child	3,082	3
Aural	Male	11,746	769
	Female	6,855	199
	M/Child	3,257	426
	F/Child	2,727	379
Orthopaedic	Male	15,376	7,185
	Female	7,731	1,741
	M/Child	3,533	1,339
	F/Child	1,718	846
Psychiatric	Male	4,307	12
	Female	2,311	9
	M/Child	384	...
	F/Child	197	...
Neuro-Surgery	Male	797	6
	Female	441	...
	M/Child	215	1
	F/Child	105	...
Neurology	Male	1,227	4
	Female	656	...
	M/Child	229	...
	F/Child	160	...
Paediatric (Medical)	M/Child	15,165	37
	F/Child	11,087	230
Obstetric	Female	8,323	128
Dispensary Service	Male	3,800	...
	Female	1,467	...
	M/Child	385	...
	F/Child	249	...
Diabetic-Clinic	Male	182	2
	Female	606	1
	M/Child	8	...
	F/Child	7	...
Plastic-Surgery	Male	254	909
	Female	145	138
	M/Child	100	253
	F/Child	74	130

APPENDIX No. 4 (Concl'd).

Statement showing Out-Patients (New O.P.D. Casualty) in the K.E.M. Hospital during the year 1970
Classification according to the Department, Sex and Age

Departments	Sex	O.P.D. New Cases	Casualty
Throacic-Surgery	... Male	... 370	... ..
	Female	... 274	... 1
	M/Child	... 35	... ..
	F/Child	... 34	... ..
Paediatric-Surgery	... M/Child	... 14,094	2,812
	F/Child	... 7,346	1,321
Gastro-intestinal Clinic	... Male	... 193	... ..
	Female	... 91	... ..
	M/Child	... 4	... ..
	F/Child	... 3	... ..
Cardiology	... Male	... 1,564	3
	Female	... 1,185	... ..
	M/Child	... 155	... ..
	F/Child	... 140	... ..
Asthama Clinic	... Male	... 317	... ..
	Female	... 136	... ..
	M/Child	... 13	... ..
	F/Child	... 15	... ..
Cheest Clinic	... Male	... 557	... ..
	Female	... 301	... ..
	M/child	... 27	... ..
	F child	... 29	... ..
Epilepsy	... Male	... 27	... ..
	Female	... 125	... ..
	M/Child	... 83	... ..
	F/Child	... 85	... ..
Urology	... Male	... 165	... ..
	Female	... 57	... ..
	M/Child	... 35	... ..
	F/Child	... 19	... ..
Municipal Staff	... Male	... 191	... ..
	Female	... 75	... ..
	M/child	... 11	... ..
	F/child	... 5	... ..
Arthritis Clinic	... Male	... 55	... ..
	Female	... 45	... ..
	M child	... 4	... ..
	F/child	... 4	... ..
Sports Clinic	... Male	... 125	... ..
	Female	... 14	... ..
Vascular Clinic	... Male	... 97	... ..
	Female	... 53	... ..
	M child	... 9	... ..
	F/child	... 6	... ..
Hamatology	... Male	... 12	... ..
	Female	... 12	... ..
	M child	... 5	... ..
	F/child	... 5	... ..
Endocrinology	... Male	... 143	... ..
	Female	... 352	... ..
	M/Child	... 10	... ..
	F/Child	... 26	... ..
Total	... Male	... 2,06,562	27,998
	Female	... 1,13,336	5,990
	M/Child	... 44,233	6,144
	F/Child	... 29,021	3,159
Grand Total ...		3,94,152	43,221
New O.P.D.		3,94,152	
Old O.P.D. ...		3,57,966	
Total ...		7,52,098	

APPENDIX No. 5

Statement showing the relative cost per In-patient and Out-patient per day during the year 1972-73 and previous two years

Particulars	1972-73	1971-72	1970-71
	Rs.	Rs.	Rs.
(a) Average cost per In-patient per day	26.64	24.34	19.46
(b) Average cost per In-patient admission	286.10	270.17	217.78
(c) Average cost per Out-patient attendance	4.82	4.21	6.64
(d) Average cost per Out-patient admission	9.27	8.34	12.20

APPENDIX No. 6

Statement showing the details of cost per In-patient for the year 1972-73 and previous two years.

Year	Diet	Drugs Dressings etc.		Stores and Linen		Heating and Lighting		Miscellaneous	Establishment		Repairs to Building and Engineerings		Total	
		Rs.	P.	Rs.	P.	Rs.	P.		Rs.	P.	Rs.	P.	Rs.	P.
1972-73	2.24	5.94	1.33	0.45	2.24	13.80	0.64	21.64						
1971-72	2.77	4.31	1.65	0.44	2.38	12.37	1.18	25.36						
1970-71	1.76	4.32	1.72	0.42	2.13	8.42	0.69	19.46						

APPENDIX No. 7

Statement showing the average cost of each New Out-patient admission for the year 1972-73 and previous two years.

Year	Drugs Dressings etc.		Stores and Linen		Heating and Lighting		Miscellaneous	Establishment		Repairs to Building Engineering		Total	
	Rs.	P.	Rs.	P.	Rs.	P.		Rs.	P.	Rs.	P.	Rs.	P.
1972-73	2.98	0.85	0.14	-0.27	4.90	0.13	9.27						
1971-72	2.52	0.58	0.03	0.39	4.44	0.12	8.34						
1970-71	2.52	0.57	0.03	0.93	7.84	0.40	12.39						

APPENDIX No. 8

Statistical Information

Average age of students.	Year 1972-73	Year 1971-72
	I. At the time of admission	18 Years
II. At the time of Matriculation	16 Years	17 Years
Marital state at the time of admission :		
I. Married	...	Yes
II. Betrothed	...	Yes
III. Single	160	Yes
Occupations of parents or guardians :		
Service	36.40%	50%
Medical Profession	15.0%	8%
Legal Profession	1.4%	2%
Engineering	2.0%	2.5%
Miscellaneous occupations	44.00%	37%

APPENDIX No. 9

Annual Cost and Revenue

	1972-73	1971-72
	Rs.	Rs.
Total expenditure including expenditure on hostels	29,59,209.00	27,26,500.00
Revenue from tuition fees, Hostel rent and Miscellaneous receipts ...	4,04,635.75	3,61,725.00
Revenue from Post-graduate fees	70,265.67	78,821.00
Income from Hostel	53,797.10	53,016.00
Expenditure on Hostel	94,180.00	91,680.00
Gross cost per student	1,695.77	2,054.53
Net cost per student	1,424.55	1,722.64

APPENDIX No. 10

PARTICULARS REGARDING STUDENTS

Number of students in the different classes :—

Class	Male students	Female students	Total
1st M.B., B.S. 1st year ...	130	30	160
1st M. B., B. S. 2nd year & Casuals ...	134	38	172
2nd M.B., B. S. (1st, 2nd, & 3rd term) ...	126	52	173
3rd M.B., B.S. (1st, 2nd, & 3rd term) ...	171	123	294
Physiotherapy (B.Sc.) ...	23	67	90
Occupational Therapy (B. Sc.) ...	19	77	96
Interns ...	90	73	163
Total number of Undergraduate students ...	693	460	1,153
Total number of Post-graduate students including Research students ...	393	198	591
Grand Total ...	1,036	658	1,744

APPENDIX No. 11.

Results of various University Examinations.

Name of the Examination.	April 1972		October 1972		
	Appeared	Passed	Appeared	Passed	
1st M.B.B.S.	...	16	14	160	147
2nd M.B.B.S.	...	138	126	31	26
3rd M.B.B.S.	...	43	32	150	134
M.D. (Medicine)	...	10	7	15	3
M.D. (Path and Bact.)	...	3	3	3	2
M.D. (Gyn. and Obst.)	...	20	6	22	10
M.D. (Pharmacology)	...	1	1	1	Nil
M.D. (Tuberculosis)	...	Nil.	Nil.	1	Nil.
M.D. (Skin Diseases)	...	Nil.	Nil.	2	Nil.
M.D. Anaesthesia	...	5	2	9	3
M.D. Radiology	...	1	1	3	3
M.D. Prev. and Sec. Med.	...	2	2	Nil.	Nil.
M.D. Psychological Medicine	...	1	1	2	2
M.D. Human Physiology	...	Nil.	Nil.	Nil.	Nil.
M.D. Neurology	...	Nil.	Nil.	Nil.	Nil.
M.D. Cardiology	...	1	Nil.	3	Nil.
M.S. Gen. Surg.	...	15	4	26	9
M.S. Orthopaedics	...	7	1	11	1
M.S. E.N.T.	...	3	3	1	Nil.
M.S. Ophthalmology	...	4	2	4	3
M.S. Human Anatomy	...	1	1	Nil.	Nil.
M.S. Neuro Surgery	...	2	Nil.	2	1
M.S. Thoracic Surg.	...	Nil.	Nil.	Nil.	Nil.
M.S. Plastic Surgery	...	Nil.	Nil.	Nil.	Nil.
M.Sc., Medical Human Anatomy	...	Nil.	Nil.	Nil.	Nil.
D.A.	...	6	4	11	9
D.V.D.	...	1	1	2	1
D.P.H.	...	2	2	1	1
D.P.M.	...	2	1	1	Nil.
D.M.R.D.	...	4	Nil.	4	1
M.Sc. Bioch. by Papers	...	13	9	Nil.	Nil.
M.D. (Paed.)	...	12	6	10	4
D.M.R.E.	1	1
D.M.R.D.	1	...
D.P.M.

APPENDIX No 11—(Concl.d.)

Results of various University Examinations

Name of the Examination.	Research students w/o passed the examinations during the year 1972-73.				
M.Sc. Bioch. by Research	8	...
M.Sc. Microbiology by Research	6	...
M.Sc. (Animal Physiology) by Research	—	...
M.Sc. (Applied Bio.) by Research	2	...
Ph.D. (Animal Physiology)	1	...
Ph.D. (Applied Biology)	1	...
Ph.D. (Human Physiology)	1	...
Ph.D. (Pharmacology)	1	...

Results of the various examinations of the College of Physicians Surgeons of Bombay.

Name of the Examination.	April 1972		October 1972		
	Appeared	Passed	Appeared	Passed	
M.C.P.S.	...	—	—	1	1
F.C.P.S.	...	—	—	10	2
D.G.O.	...	16	11	15	5
D.C.H.	...	15	11	18	11
D.F.T.	...	2	2	—	—
D.O.M.S.	...	3	3	4	1
D.P.M.	...	2	2	4	2
D.M.R.E.	...	—	—	1	—
D.D.V.	...	2	2	1	1
D.O.R.L.	...	2	2	2	1
DA	...	1	1	2	2
D.Orth.	...	2	2	11	4
D.P.B.	...	1	1	5	4
Diploma in Clinical Pharmacology	...	—	—	1	1

SETH A. J. B. MUNICIPAL E. N. T. HOSPITAL

SUMMARY OF THE ANNUAL ADMINISTRATION REPORT OF SETH

A. J. B. MUNICIPAL E. N. T. HOSPITAL

The Annual Administration Report of the Seth A. J. B. Municipal E. N. T. Hospital for the year 1972-73.

HOSPITAL

I—Expenditure :

	Rs.
(A) 1 Amount spent on In-patients	7,72,346.02
2 Amount spent on out patient	3,86,173.10
3 Total expenditure excluding new works	11,58,519.05
(B) 1 Average Cost per patient per day	26.13
2 Average cost per patient admission. (in-patient)	126.07
3 Average cost per out patient attendance	4.52
4 Average cost per out patient admission	10.05

II—Results :

(A) 1 Schedule Bed Strength	104
2 Daily average In patients in Wards	81
3 Total number of Admission including those brought over from previous year	6,123
4 Total number of patients discharged	
(i) as Cared	5,973
(ii) as unchanged	47
(iii) left Against Medical Advice	21
(iv) Expired	10
(v) Remained in the hospital on the last day of the year	72
5 Average stay of In-patients	3.86
(B) 1 Total number of new Out-patients Admissions	38,419
2 Daily average number of out-patients (New and Old)	126
3 Total number of out-patients (New and Old)	85,498
4 Daily average number of out-patients attendance (New and Old)	280
(C) 1 Total number of operations on in-patients	5,323

III—Radiology :

1 Total number of X-Ray films used	3,269
2 Total number of X-Rays taken	4,862
3 Total number of patients come for X-Rays	2,778
4 Total number of screening done	2,807

IV—Pathology :

1 Total number of Blood done	8,896
2 Total number of urine done	8,649
3 Total number of Gastric Analysis	35
4 Total number of Blood sugar	150
5 Total number of Blood Urea	41
6 Total number of K. T. (V. D. R. L.)	156
7 Total number of stool	92
8 Total number of Biopsy	1,016

V—Audiology :

1 Total number of Audiograms taken	3,245
------------------------------------	-------

VI—Deficiencies.

- 1 Acute Shortage of Labour staff (Badlee).
- 2 Acute shortage of space in the hospital for further expansion.
- 3 Canteen facility could not be provided due to shortage of space.
- 4 Operation Theatres are not air-conditioned.

SETH A. J. B. MUNICIPAL E. N. T. HOSPITAL

The Municipal Ear, Nose and throat Hospital which was started in December 1962 at the Improvement Trust Building 7, Napier Road, Fort, Bombay 1, has been renamed as Seth Atmasingh Jassasingh Bankebihari Municipal E. N. T. Hospital.

The scheduled bed strength of the hospital is 104, and all 104 beds were commissioned for In-patients admitted in the hospital during the year 1972. On 31-12-72, there were 6123 in-patients including in-patients of last year. The average stay of an in-patient in the hospital was 3.86 days during the period. Out of the 6123 (6047+76) in-patients 5973 were cured, 47 were unchanged (Otherwise discharged), 10 were expired leaving 72 patients under treatment in the hospital on the last day of the year. 21 patients went against medical advice.

The highest number of patients admitted on a single day was 34 patients on 27th April 1972.

Out Patient Department

The total number of new case paper issued during the year 1972-73 was 38,419 and total number of out patient attendance (New 38,419 and 47,079 cases) was 85,498 bringing the daily average attendance of out patients to 280.32. The highest number of out patients on a single day was 440 on 29th August, 1972.

Operative Work

5323 Operations were performed on In-patients during the year.

Pathology Department

19035 Clinicopathological investigations were performed in the year. Dr. A. R. Chitale is appointed as Part-time Pathologist.

Radiology Department

2778 Radiological investigation were done during the year 1972, 3269 X-ray films were used & 2807 patients were recorded for screening.

Audiology Clinic

3245 Audiograms were recorded during the year & 57 speech cases were treated. An Audiology room for full comprehensive hearing tests of handicapped individuals is ready now. Service of Speech and hearing Therapist are also available in this clinic.

Poor Box Charity Fund

Cash boxes were kept in the hospital to enable the patient to drop in their voluntary contributions towards the Poor Box Charity Fund. An amount of Rs. 16112.03 was collected for the fund through these boxes during the year 1972-73. The fund so collected was utilized to provide hearing aids, tracheostomy tubes and free blood transfusions to the poor deserving patients.

A Gift shop through which certain medicines and injections are sold to patients at comparatively cheaper rate and sometimes at part cost, is also run by the fund.

The amount collected is deposited in the Central Bank of India Ltd.

The major item on which the fund is spent is blood transfusion where the patients generally cannot afford to pay. In cases of poor and deserving patients, blood is supplied at part/nil cost.

Dr. (Miss) S. R. Muddhatkal M.B.B.S., D.G.O. (Bom.) who was in charge of hospital administration continued to hold the post of Assistant Medical Officer.

The Medical staff consisted of Six Honorary Surgeons, 3 Honorary Assistant Surgeon (Part-time), 3 E. N. T. Registrars, 5 House Surgeons, 2 (Part-time) Anaesthetists, 2 Casualty Medical Officers, 1 Honorary Assistant Radiologist, (Part-time) 1 Pathologist.

Nursing Staff consisted of 1 Senior Sister, 6 Sisters and 26 staff Nurses.

Dr. (Miss) S. R. MUDBHATKAL,
Municipal A.J.B.E.N.T. Hospital.

APPENDIX I

Statement showing the particulars of Out Door Patients treated during the year 1972 at the A. J. B. Municipal E.N.T. Hospital.

(1) No. of New cases	...	...	...	...	38419
(2) No. of old cases	...	...	...	...	47079
(3) No. of higher attendance on a single day	...	...	...	...	440 on 29th Aug. 1972.
(4) Daily average No. of out-patient's attendance	...	...	...	...	280

Statement showing out-patients (new and old) treated in the A.J.B. Municipal E.N.T. Hospital during the year 1972 with classification according to sex:-

Sex	O.P.D. New Cases		Old cases	Total Attendance.
		
Male	...	18,373	20,104	38,477
Female	...	9,774	13,451	23,225
Male-Child	...	5,632	7,201	12,833
Female-Child	...	4,640	6,323	10,963
Total	...	38,419	47,079	85,498

APPENDIX II

Statement showing the In-door-patients, operations done, etc. during the year 1972 at Seth A. J. B. Municipal E.N.T. Hospital.

(1) Scheduled strength of beds	...	...	...	...	104
(2) No. of beds commissioned	...	...	...	...	104
(3) Total No. of New patients admitted	...	...	...	...	6,123
(4) Average No. of days each patient was resident	...	...	...	...	3.86 days
(5) Number of highest admission on single day was	...	...	...	...	34 patient on 27th April 1972.

Sex	Admitted	Discharged	Died	In the Hospital.
Male	2256	2206	9	39
Female	1623	1604	1	18
Male-child	1148	1141	...	7
Female-child	1096	1088	...	8
Total	6123	6041	10	72

Bai Yamunabai L. Nair Charitable Hospital & Topiwala National Medical College

Summary of the Administration Report of B. Y. L. Nair Charitable Hospital for the year 1972-73.

Hospital

The total expenditure incurred on the maintenance of the hospital including liabilities at the end of the year amount to Rs. 1,27,94,116.82 approximately as against Rs. 1,43,17,800.83 for the previous year.

Donation to the extent of Rs. 6,748.63 were received during the year.

An amount of Rs. 21,620.57 was collected from the boxes kept in the wards and out-patients departments of the hospital.

An amount of Rs. 8,194.78 was spent from the fund towards Medicines, Drugs, appliances etc., for the poor patients.

College

The total expenditure of the College amounted to Rs. 36,30,073.13 approx. during the year under report as against Rs. 20,39,339.34 during the previous year.

The net revenue of the College by way of Tution fees, miscellaneous receipts etc., amounted to Rs. 3,34,880.00 approximately as against Rs. 3,29,514.00 for the previous year.

RESULTS

Indoor Patients

Schedule bed strength	713
Daily average No. of patients	854.69
Total No. of inpatients treated	34,855
Average stay of inpatient	897
Total No. of patients discharged including 788 patients brought from the previous year	32,953
Total number of deaths	1,855
Total operation performed on Indoor patients	10,677
Total No. of Post-mortem	572

Out door Patients

Total number of outpatients attendance	13,07,051
Daily average New O. P. D. attendance	4,285.41
Total No. of casualty attendance (Medico-legal)	10,568
Daily O. P. D. attendance Old and New	13,07,051
No. of Operations performed on outpatients	5,254

Deficiencies

Many deficiencies are experienced by these Institutions because of unforeseen difficulties which impede the implementation of the expansion programme chalked out for better medical care and smooth running.

Suggestions

The following are essential features and need to be implemented without delay if the expansion scheme is to be useful and successful (In order of priority).

1. 300 beds hospital.
2. A well planned and functioning Mortuary Block.
3. A Modern and clean Kitchen.
4. A Nursing School with Residential accommodation.
5. Administrative Staff Quarters.

**BAI YAMUNABAI L. NAIR CHARITABLE HOSPITAL &
TOPIWALA NATIONAL MEDICAL COLLEGE**

Bai Yamunabai L. Nair Charitable Hospital and Topiwala National Medical College have completed 50 years of service in the month of September 1971. The hospital rendering Medical Relief to the sick and the college imparting Medical Education to the student. The hospital has a bed strength of 713 beds.

Dean

Dr. G. K. Deshpande, M.B.B.S., M.D. (Path.) held the post of Dean upto 24th September 1972. Dr. M. S. Kekre, M.B.B.S., M.Sc. (Med.) held the post of Dean from 25th September 1972 onwards.

Dr. S. V. Shevde, M.B.B.S., held the post of Assistant Dean through out the year.

Dr. (Smt.) P. G. Hiranandani, M.B.B.S. held the post of Assistant Medical Officer during the year 1972.

Dr. (Smt.) S. A. Shetty, M.B.B.S., D.G.O. held the post of Jr. A. M. O. during the year.

Inpatient Division

The total number of patients admitted during the year was 34,855 against 32,764 and 30,909 during the year 1971 and 1970 respectively.

On an average, the daily number of inpatients was 854.69 as against a schedule bed strength of 713.

The highest number of in-patients on a Single day was 994 and highest number of admission on a Single day was 166.

Result of Indoor Patients Treated

Out of total number of 35,643 inpatients including 783 brought from the previous year's balance, 32,953 were discharged, 1,835 died leaving a balance of 855 patients at the end of the year.

Death Classified

Out of 1,835 deaths 596 were within first 24 hours of admission, 366 were after 24 hours but within 72 hours of admission and the remaining 873 died after a period exceeding 3 days from admission.

Post Mortem

572 Autopsies performed during the year 1972 as compared to 567 for the year 1971.

Confinement

During the year under report the number of confinement was 2,696.

Operations

10,677 operations were performed on inpatients.

Out Patient Department

The total number of O. P. D. attendance including casualty patients during the year was 13,07,051 as against 11,09,042 for the year 1971 giving a daily average of 4285.41 against 3624.32 for the previous year.

The highest number of attendance on any one day was 6,112 as against 5,087 for the previous year. The highest number of new and old cases on a single day was 1,362 and 4,906 respectively.

Medico Legal Cases

During the year under report the Resident Medical Officers attended the following Courts for giving evidence in the Medico-legal cases.

1. Presidency Magistrate's Court	...	328
2. Session Court	...	28
3. Motor accident Tribunal	...	84
4. Coroner's Court	...	...
5. Other Courts.	...	89

Medical Certificates

1. Under Workmen's compensation Act.	...	79
2. Medical Opinion certificate	...	4,000
3. Injury Certificate to Police (Free)	...	856

4. Injury Certificate to Patient's in Medico-legal cases	...	130
5. Certificate to Municipal Employees for Injury leave.	...	185
6. Certificate for Insurance purposes	...	26
7. Essentiality Certificate	...	92
8. Accident Insurance Certificate	...	5

Department of Medicine

Department of Medicine consists of Six Medical Units (2 Full time units), and 3 Sepcialised Units, Gastro-enterology, Neurology and Cardiology. These have carried out undergraduate and post graduate training and research work. During the year undergraduate training is carried out in the form of small group discussions, Table work classes, ward clinics and didectic lectures. Though Emphasis has been shifted from didectic lectures to small group discussions. Clinical work is shown to the students by Documentation.

Post-graduate classes are taken regularly. Clinical meetings are held regularly once a week ; to review worked out, clinical material from the hospital.

In addition to this certain specialised clinics, like Renal, Diabetic, and Rheumatic are conducted regularly.

Department is contributing to the drought affected areas of Maharashtra by sending registrars, and Sr. Registrars by rotation to the drought affected areas for medical help.

Publications

1. Serum Glutamic Oxalic Transaminose studies in Tetanus: Dr. L. R. Patel, Dr. P. Menon et al.
2. Arrhythmias in Myocardial Infarction—Accepted for publication in Current Medical practice.

Department of Surgery

Department of Surgery consists of 6 units in General Surgery (2 full time units) and 4 units under Hon. Professors, Asst. Professors) In addition, certain number of beds are also reserved for specialities in cardiovascular Surgery, thoracic surgery, Urology, Nephrology and Gastro-enterology Surgery, and Plastic Surgery.

(A) New Appointments :—

The following members of the staff were appointed during the year 1972-73.

- | | | |
|---|-----|------------|
| 1. Dr. Y. R. Kher Associate Prof. of Surgery | ... | 10-11-1972 |
| 2. Dr. (Miss) C. R. Trivedi, Assistant Prof. Surgery | ... | 22-7-1972 |
| 3. Dr. M. V. Pai, Hon. Asst. Prof. of Surgery & Hon Asst. Surgeon | ... | 5-10-1972 |
| 4. Dr. P. D. Munagekar do. do. | ... | 21-9-1972 |

(B) Publications :—Publication by Dr. S. K. Bhansali.

1. Acute Pancreatitis—A study of 112 cases—Amer. J. of Gastro-enterology, Feburary 1972.
2. Primary carcinoma of liver—Amer. J. of Gastro-enterology. January 1973.

(C) Conference :—Dr. S. K. Bhansali read papers on :—

1. Some facets of nontoxic goitre and ;
2. Surgery of pancreatitis at the 32nd Annual Conference of Association of Surgeons of India 1972.

(D) Invitation to Symposia etc., for Dr. S. K. Bhansali.

1. As a co-chairman of Symposium on "Chronic Pancreatitis" at 13th Conference of India Society of Gastro-enterology 1972.
2. To speak on "Surgical aspects of Malabsorption Syndrome" at the midterm conference of India Society of Gastroenterology in Bombay 1972.

(E) Chapters in Book in Press :—By Dr. S. K. Bhansali.

"Tuberculosis of Colon" — Recent advances in proctology—Editor Dr. R. K. Menda.

(F) Other Scientific activities :—By Dr. S. K. Bhansali.

1. "Thyrotoxicosis" Evaluation of different modalities of treatment—A research project.
2. Invitation to participate in World enquiry on pancreatitis by Prof. Henry Sarles of Marseilles
3. Invited to be a co-convenor of study group on pancreatitis of India Society of Gastroenterology.

Department of Obst. and Gynaecology

The Department of Gynaecology and Obst. consisting 3 units one full time unit and two units under Hon. Prof. and Asst. Profs. Each unit functions twice a week from 8.00 a.m. to 10.30 a.m.

Research work and Publication of the Department is as under:—

Research work for the year 1972-73.

Research Officer	Research Work.
Dr. E. J. Sequeira	(1) Colposcopy.
Dr. S. S. Thakur	(2) Dexon sutures in Gyn. and Obst. cases. (1) Retrospective study of vacuum deliveries.
Dr. Merchant	(1) Hydrotubation in cases of tubalblock.
Dr. S. K. Shah	(1) Thyroid function in gynaecology. (2) Estimation of foetal maturity.
Dr. P. R. Vaidya	(1) Cytology. (2) Sterility. (3) T. O. P. (4) Rediommune-assy Lactional Amenorrhoea and Intra-amniotic inj. of saline.
Dr. M. M. Domadia	(1) Vaginal cytology for screening of cancer cases from the O. P. D. and Wards and also for Hormonal evaluation during pregnancy. (2) Evaluation of urinary hormones in high risk pregnancy. (3) Serum oxytocinase levels in high risk pregnancies. (4) Prospective studies of cases of primipara with floating head at term.
Dr. M. Y. Raval	(1) Repair of prolapse during child-bearing period by Shirodkar's technique. (2) To find out norm of B. P. in Indian pregnant women.
Dr. U. L. Verma	(1) Prospective study of vacuum deliveries in hospital class of patients. (2) Pathology of placenta in cases given total iron. (3) Anatomy of placenta at various stages of pregnancy. (4) Pathology of placenta in T. O. P. in I. U. saline injection. (5) Pathology of placenta in abnormal pregnancy. (6) Analysis of cases of abnormal deliveries for malformed uteri of last 5 years. (7) Prospective analysis of all malpresentation and abnormal deliveries for malformed uteri. (8) Menstrual blood culture for A. F. B. (9) Endometrial culture for A. F. B.
Dr. A. G. Vadekar	(1) Paediatric problems. (2) Geriatric problems.

Publication during the year 1972.

- Dr. E. J. Sequeira :
A critical evaluation of post catheterisation syndrome published in Indian Journal of Obst. and Gyn. Page 51 1972.
- Dr. (Mrs.) Nanavati:
(1) Naegle's pelvis - a case report Indian Journal of Obst. and Gyn.
(2) Ultrasonic Doppler application in Obstetrics in Indian Journal of Obst. and Gyn. Vol. XXII No. 6 December 1972.
(3) Perforation of the uterus by a solid rod Indian Journal of Obst. and Gyn.
- Dr. S. S. Thakur :
(1) Trial on Disecron Forte injection Maharashtra Medical journal November 1972. page 63.
(2) Place of antifungal antibiotic vaginal tablet in the treatment of leucorrhoea, current medical practice Vol. No. 16 No. 8 page 341 August 1972.
- Dr. (Mrs.) Marchant :
(1) Ultrasonic Doppler Application in Obstetrics Indian Journal of Obst. and Gyn. Vol. XXII No. 6 December 1972.
(2) Etiological concepts of leiomyomsa vagina, review of the literature and a case report. Accepted for publication in Indian Journal of Obst. and Gyn.
- Dr. (Mrs.) S. K. Shah :
Foetal loss—Indian Journal of Obst. and Gyn. December 1972.

Dr. (Mrs.) P. R. Vaidya :

- (1) Primary amenorrhoea.
- (2) Premature ovarian failure.

Both articles published in Indian Journal of Obst. and Gyn. February 1972.

Dr. M. M. Domadia :

- (1) Obstructed labour following cervicopexy operation report of 2 cases accepted for publication in Indian Journal of Obst. and Gyn.
- (2) Review of cervicopexy operations done from 1966. 1971—accepted for publication in current medical practice.
- (3) Review of myomectomy operations - accepted for publication in Current medical practice.
- (4) Ectopic pregnancy—A disease of diagnostic surprise given for publication in Indian journal of Obst. and Gyn..

Papers completed and awaiting publication

- (5) Locked Twins - review of literature and a case report.
- (6) Carcinoma of the cervix during pregnancy report of 11 cases.

Dr. M. Y. Raval :

- (1) A critical evaluation of post catheterisation syndrome published in Indian Journal of Obst. and Gyn. 1972.
- (2) Naegle's pelvis - a case report Indian Journal of Obst. and Gyn.

Dr. U. L. Verma :

- (1) Place of Antifungal antibiotic vaginal tablet in treatment of leucorrhoea.

Dr. Vadekar :

Nil.

Papers read at the conferences

Dr. S. S. Thakur :

- (1) Review of V. V. F. repair operations read at Urology Conference Nagpur.
- (2) Use of Vacuum extraction in private practice read at C. P. S. Seminar.

Dr. M. M. Domadia :

- (1) Evaluation of the urinary steroid Hormones and serum exytocinase levels for monitoring the Placental function read at 2nd Bombay Obst. and Gyn. Conference December 1972.
- (2) Carcinoma of the cervix during pregnancy report of 11 cases read at C. P. S. Seminar.

Dr. Vadekar :

- (1) Placenta Accreta - report of 3 cases and review of literature read at C. P. S. Seminar.

Dr. Thakur's Unit :

- (1) Report of 2 cases of pregnancy with congenital malformation of the uterus.
Read at C. P. S. Seminar.

Dr. M. Y. Raval

- (1) Foetal distress in labour read at 16th All Indian Obst. and Gyn. Conference March 1972.
- (2) Our experience with low birth weight babies - read at 2nd Bombay Obst. and Gyn. Conference.

Department of Pediatrics

The department of Pediatrics consisting of 2 units. Each units function on alternative days from 8.00 a.m. to 10.30 a.m.

The activities of the department are as follows :—

- (1) Indoor service.
- (2) Daily out-patients service.
- (3) Complete care of the newborns.
- (4) Child Welfare Centre.
- (5) Child Guidance Clinic.
- (6) Diagnostic Centre.
- (7) School Clinic.
- (8) Attendance at the postnatal O. F. D. for the newborn follow up.
- (9) Follow up of 'Special care' babies.
- (10) Research Projects.
- (11) Regular training programme for :—
 - (a) Undergraduates.
 - (b) Postgraduates.
 - (c) Interns.

Indoor :— (Ward 15)

Total Admissions : 3,435

Deaths : 428

(The reduced number of admissions was due to strike by the hospital staff).

O. P. D. Attendance :

New cases : 30,510

Old cases : 1,10,112

Total ... 1,40,622

(The actual number of old cases is higher as some of the patients are prescribed treatment from outside or by O. P. D. sister and hence these cases are not registered in the hospital dispensary.)

Neonatal Ward: (Ward 7)

Total Deliveries	...	2,696
Deaths	...	129
Still Births	...	150

Premature Room :

The premature special care room has 3 incubators and 3 cribs. 135 babies were managed in this room, during the year.

Newborn O.P.D. :

A Pediatric registrar attends the postnatal O. P. D. on Mondays, Wednesdays and Fridays. He advises regarding hygiene, feeding weaning, immunization and family planning. 832 babies were followed up during 1972.

Follow up of Special care babies :

All the premature babies and other 'High risk' babies are followed up in the neonatal ward on Tuesdays, Thursdays and Saturdays at 9.30 a.m.

School Health Clinic :

New cases	...	1,930
Old cases	...	19,869
Total	...	21,799

41 School-clinic patients were hospitalized and treated in Ward XV.

Diagnostic Centre (Souther Street)

New cases	...	366
Old cases	...	2,180
Total	...	2,546

Child Guidance Clinic :

The activity of the clinic has been extended to six days a week from this year and in addition to the existing staff; a pediatrician attends the clinic by rotation. Recently the clinic has been recognised by the college of Physicians and Surgeons for teaching of post-graduates and the D. C. H. course.

New cases	...	220
Old cases	...	51
Total	...	271

Child Welfare Centre :

Total Attendance	...	1,841
Milk Distribution	...	43,200

Immunizations :

	1st dose	2nd dose	3rd dose	Booster
Triple	190	120	87	74
Polio	431	239	155	294

440 home visits were made. 35 nutrition classes were held.

Publications :

- (1) A child with poor performance at school. The Bombay Hospital Journal; Vol. 14, No. 2 P. 48 April 1972.
- (2) Stuffy nose in the newborn: Pediatric clinics of India Vol. 7, No. 3, P. 153, July 1972.
- (3) Effects of maternal infection on the foetus: Journal of obst. & Gynec. of India, Vol. 22, No. 4 P. 418, August 1972.
- (4) Syndrome of Pulmonary arterio-venous fistula with cirrhosis of liver: Pediatric clinics of India, Vol. 7 No. 4, P. 209 October 1972.
- (5) The Diabetic child: Madhumeha, December 1972.
- (6) Fluid & Electrolyte therapy in children: Pediatric clinics of India 1972.

Papers Presented :

Our observations on factors affecting birth weight: Second conference of Obstetric and Gynecologic Society, Bombay 1972.

DEPARTMENT OF DERMATOLOGY AND VENEREOLOGY

The department function thrice a week (Tuesday, Thursday and Saturday) from 8.30 a.m. onwards

Attendance at O. P. D.					New	Old
(a)	Infections	...	...	...	16,307	11,107
(b)	Non-infectious	...	...	...	5,865	5,796
(c)	V. D. Cases	...	...	...	3,675	2,428
(d)	Total infectious (Including V. D. & Lep.)	...	...	...	19,982	13,535
(e)	Ratio of Infectious	...	...	...	2 : 1	
(f)	Maximum attendance on one day	...	...	...	356 patients.	
(g)	Grand total	...	...	...	45,370	

2. Attendance on In-patients : 275.

Investigations					Total	Abnormal findings
(1)	Biopsies	...	...	...	179	...
(2)	Dark ground illumination	...	...	...	636	465
(3)	V. D. R. L.	...	...	...	2,463	1,987
(4)	Scales for fungus	...	...	...	1,701	673
(5)	Smears for Gonococi	...	...	...	375	332
(6)	Blood counts	...	...	...	418	70
(7)	Urine	...	...	...	427	181
(8)	Stool	...	...	...	10	...
(9)	E. S. R.	...	...	...	32	18
(10)	Photographs	...	...	...	82	...

Therapy :

(1)	Superficial X-Ray	...	...	...	32	
(2)	Electro dessication	...	...	...	150	
(3)	Chemical Cautery	...	...	...	123	

MEDICAL EDUCATION: LECTURES AND CLINICS AS BEFORE.

Medical Research :

Problems under investigations :—

- (1) Vitiligo.
- (2) Psoriasis.
- (3) Dermadromes.
- (4) Teenage V. D.
- (5) Drug reaction.

Department of Anaesthesiology

The department not only provided the facilities for elective and emergency anaesthesia but also contributed a great deal towards the post operative care of moribund patients with the help of respirators. The Department organised an intensive teaching programme for the post graduates and it was shown not only in the results but the examiners were also very appreciative of the performance of our candidates. The results were as follows :—

Exam.	Term.	...	...	...	...	Appeared	Passed	Percentage
D. A.	April 1972	...	...	...	...	5	5	100%
	October 1972	...	...	...	...	4	4	100%
M. D.	April 1972	...	...	...	...	2	2	100%
	October 1972	...	...	...	...	...	...	...

We had organised every week journal reviews seminars and arranged guest lectures by Prof. Bijlan- (Pharma cology), Dr. Hansoti (Cardiologist) and Dr. Jhankharia (Radiologist). We introduced panel discussions where residents only were the panel members. These were appreciated very much. We have also been having ward rounds for pre-operative check up.

Prof. S. S. Mehta, Dr. J. S. Anand, Dr. (Miss) I. P. Kavadia, Dr. (Miss) P. Thakkar and Dr. (Miss) S. Soares attended and presented papers at the Annual Conference of Anaesthetists at Trivandrum in December 1972. Dr. J. S. Anand also attended the world conference of Anaesthetists held at Tokyo in September 1972. The papers read and or published were :—

- (1) The effect of different Anaesthetics on liver function tests in patients with liver disease.
- (2) The problems and anaesthetic management in major head, neck and E. N. T. Surgery.
- (3) Our experiences with 142 post operative moribund patients treated with respirators.
- (4) Role of Morphine in Cardiac Surgery.
- (5) Assessment of hypothermia in cardiac Surgery.

- (6) Anaesthetic problems in posterior fossa tumours.
 (7) Safe anaesthetic technique for E. N. T. Surgery in rural conditions.
 (vi) Pellagra.

Papers to be published:—

- (1) Case report of Generalised Morphea.
 (2) Case report of Leiomyoma Cutis.

Department of Psychiatry

The Department is open on Monday, Wednesday and Friday from 8.30 a.m. onwards.

Following is the work load of the department:—

Total number of admission	...	238
Total number of New cases	...	2,797
Total number of Psychotherapy	...	21,479
Total number of E. C. T. given under G. A. in the ward	...	3,413
Total number of E. C. T. given in O. P. D.	...	5,686

Drug trial 2330 G. O. carried out in 1972.

Paper on "Prospective study of 50 cases of Post-partum Psychosis" read in Chandigarh conference in December 1972.

Department of Tuberculosis

The department is open on Tuesday, Thursday and Saturday from 8.30 a.m. onwards.

Publication

Classification of tubercular cases according to the extent of lesion.

The following subjects are under study in the Department:—

- (a) Evaluation of second line of drugs in resistant cases.
 (b) Renal function tests in cases showing giddiness to streptomycin.
 (c) Estimation of sugar level of pleural aspiration fluid in pleural effusion cases.

SPECIALISED DEPARTMENT

Cardiology & Cardiac Surgery Department

The department is open on Monday and Friday from 11.30 a.m. onwards.

Statement showing the number of Electro-cardiograms taken during the year 1972 according to disease wise.

DISEASES							TOTAL
1	Coronary Thrombosis	...	...	...	...	...	1,468
2	Hypertension	...	...	...	...	...	512
3	Mitral Diseases	...	...	...	...	...	365
4	Auricular Fibrillation	...	...	...	...	...	117
5	C. C. Failure	...	...	...	...	...	192
6	Cor-pulmonale	...	...	...	...	...	159
7	Angina Pectoris	...	...	...	...	...	79
8	Aortic Stenosis	...	...	...	...	...	66
9	Rheumatic Disease	...	...	...	...	...	83
10	Anaemai	...	...	...	...	...	76
11	Myocarditis	...	...	...	...	...	24
12	Pericarditis	...	...	...	...	...	19
13	A. S. D.	...	...	...	...	...	52
14	V. S. D.	...	...	...	...	...	71
15	P. D. A.	...	...	...	...	...	9
16	Fallot's Tetralogy	...	...	...	...	...	29
17	Heart Block	...	...	...	...	...	371
18	Diabetes	...	...	...	...	...	173
19	Pulmonary Stenosis	...	...	...	...	...	6
20	J. H. D.	...	...	...	...	...	197
21	Normal	...	...	...	...	...	4,455
22	Pain in Chest	...	...	...	...	...	225
23	Miscellaneous	...	...	...	...	...	3,265
Total							12,010

Total No. of Cardiac Catheterization done during the year 1972	...	...	...	16
Total No. of Phono-Cardiogram done during the year 1972	...	...	...	88
Total No. of Vecto-cardiogram done during the year 1972	...	...	...	40
Total No. of Patient admitted in ICCU during the year 1972	...	...	...	102
Total No. of patients paced	...	...	...	11
Total No. of patients submitted for Elective cardioversion	...	...	...	5
Other Cardioversion	...	...	...	16

Research Projects :

Long term study of University Professors an epidemiologic study for the detection of Coronary Disease, Hypertension and Diabetes in progress—No. of cases 450.

Biochemistry :

Following newer investigations have been standardised.

- A. Urinary catecholamine estimations.
- B. Blood lipidogram.

G. L. D. H., SH. B. D. estimations.

PUBLICATION

Dr. Hansoti R. C.

- (1) Evaluation of propranolol in the management of angina pectoris: Ind. Heart—J. 23 : 76, 1971 (Published in December 1972).
- (2) E. C. G. changes after Electroconvulsive therapy. Hansoti R. C. & Ashar P. N. under publication — J: Assn. of Phy. India.
- (3) Electrocardiography in the sex linked familial myopathy. under publication—C. M. P. Hansoti R. C. & Ashar P. N.
- (4) Intensive Coronary Care—Heart Care. 3 : 9-11, 1972.

Dr. Shah K. D.

- Primary aldosteronism—Conn's syndrome. Shah K. D. & Hansoti R. C. Ind. Heart—J. 24 : 310 : 197.
- Evaluation of propranolol in the management of Angina Pectoris Ind, Heart—J. 23 : 76, 1971 (Published in December 1972).
- Mephenteramine in the treatment of shock and arrhythmias Ind. Heart—J. 23 : 105, 1971 (Published in December 1972).

Dr. Shah C. V.

- Exercise performance of patients with chronic obstructive lung disease Indian Heart—J. January 1973.

DEPARTMENT OF GASTROENTEROLOGY

The clinic works on every Wednesday and Saturday from 11.30 a.m. on wards.

During the year 1972, 117 indoor patients were treated and 498 were treated in the O. P. D. 1,723 follow-up cases were seen in the O. P. D.

Following is the work done during the year 1972.

Routine investigations				
Blood counts (HB : WBC)	...	...	...	954
E.S.R.	...	...	...	367
Urine	...	...	...	423
Stool	...	...	...	440
Biochemical Investigations :				
Glucose Tolerance Test	...	...	...	9
Fasting sugar	...	...	...	82
Blood Urea	...	...	...	67
Serum Cholesterol	...	...	...	15
Prothrombin time	...	...	...	19

Liver Function Test:		
Serum Bilirubin	...	96
Serum Alkaline Phosphatase	...	113
Serum Proteins (Total)	...	293
Serum Albumin	...	293
Thymol Turbidity	...	66
Bromsulphalein Test	...	62
S. G. O. T.	...	62
S. G. P. T.	...	62
Serum Calcium	...	4
Serum phosphorous	...	4
Special Investigations:		
Augmented Histamin Test	...	185
Peritoneoscopy	...	62
Sigmoidoscopy	...	452
Gastric Biopsies	...	166
Iejunal biopsies	...	34
Liver biopsies	...	30
Rectal biopsies	...	22
Oesophagus biopsies	...	6
Absorption Tests	...	116
Vitamin B12 absorption	...	160
D-xylose test	...	112
Bile collection	...	121
DNA Estimation of gastric aspirate	...	110

GASTRO ENTEROLOGY SURGICAL SERVICE

The Out-patient clinic is open on Wednesday from 11.30 a.m. onwards.

444 patients attended the Department during the year 1972.

Investigations—

1. Barium study	...	270
2. M. H. T.	...	40
3. Oral Cholecystography	...	8
4. P. C. Cholangiography	...	3
5. Hypotonic duodenography	...	5
6. Liver scan	...	10
7. Sigmoidoscopy	...	12
8. Angiography	...	2
Total	...	350

Operations—

1. Vagotomy and Ant. G. J.	...	34
2. Expl. Laparotomy—		
(a) Koch's Abd.	...	24
(b) Peptic perforation	...	7
(c) Typhoid perforation	...	5
(d) Carcinoma G. I. Tract	...	17
(e) For appendix	...	20
(f) For traumatic abdomen	...	5
3. Appendicetomy	...	38
4. Partial Gastrectomy	...	3
5. Graham's operation	...	4
6. Splenectomy	...	4
7. Cholecystectomy	...	4
8. Repair of ventral hernia	...	14
9. Repair of strangulated Hernia	...	3
10. Revision gastric surgery	...	3
Total	...	184

Interesting Case—

1. Hepatoma	...	4
2. C. A. Stomach	...	3
3. Benign gastric ulcer	...	5
4. Obst. Jaundice	...	5
5. Kidney T. U.	...	2
6. C.A. Oesophagus	...	5
7. Ca. Colon	...	2
8. Ca. Pancrease	...	2
9. Ul. Colitis	...	1
10. Duodenal Div.	...	3
11. Vol. of St.	...	1
12. Pancreatic cyst	...	1

DEPARTMENT OF NEUROLOGY

The clinic is open on Tuesdays and Thursdays from 11.30 a.m. to 2. p.m.

Case work Load—

New cases	...	...	...	...	...	515
Admissions	...	...	...	...	...	294
Referred cases	...	...	...	...	...	300
Follow up cases	...	...	...	...	...	748

Special Procedure Etc.—

Angiography	...	...	...	...	...	89
P. E. G.	...	...	...	...	...	16
Myelography	...	...	...	...	...	34
E. E. G.	...	...	...	...	...	600

VISITS

Dr. P. M. Dhal, Hon. Neurophysician attended meeting of WHO/ICMR in February 1972 in Bombay and presented a paper on "Some Observations in Involvement of Cerebral Blood vessels on Tuberculous Meningitis in adults."

Dr. A. C. Mehta, Hon. Asstt. Neurophysician attend 30th Bombay Medical Congress in November 1972 and presented a paper. He also attended 22nd Annual Conference of the Neurology Society of India and presented a paper.

PUBLICATIONS

Dr. A. C. Mehta, Hon. Asstt. Neurophysician.

- (1) The Blood vessels of the spinalcord—A Review Neurology (India); 20: 1972.
- (2) The Spinal cord Infarctions: A Clinico-pathological study Neurology (India): 20:1972

PURCHASE

1. Order has been placed for purchase of Neuro-radiological apparatus "Mimer" costing Rs. 7 lacs
2. Order has also been placed for purchase of EMG Unit costing Rs. 1 lac.

SPECIAL PROJECTS

Two Research Projects financed by NIH, USA, under PL-439 funds entitled "Collaborative Neurological Investigations of Cerebrovascular Diseases under Dr. P. M. Dhal, Hon. Prof. of Neurology" and Comparative Study of Intracranial Cerebral Atherosclerosis under Dr. S. C. Sheth, Emeritus Prof. in Medicine" have been further continued for the fourth year.

NEUROSURGERY

The Out-patient department is open on Tuesdays and Thursdays from 9 a.m. to 11 a.m.

During the year 1972. 447 were treated at the O. P. D. and 247 patients were admitted for in-patient treatment. 216 operations were performed and the type of operations are given as under:—

(1) Craniotomies; for head injury—						
(a) Depressed fractures	...	...	...	...	...	19
(b) Haematomas and brain injury	...	...	...	...	...	13
(c) Osteomyelitis	...	...	...	...	...	5
(d) Cranioplasty	...	...	...	...	...	2
(2) Posterior Fossa—						
(a) Tuberculoma	...	...	...	...	...	1
(b) C. P. Angle (Arachnoid cyst)	...	...	...	...	...	1
(c) Cholesteotoma	...	...	...	...	...	1
(d) Astrocytoma	...	...	...	...	...	1
(e) Abscess	...	...	...	...	...	1
(f) Negative	...	...	...	...	...	1
(3) Supratentorial—						
(A) Tumours—						
(a) Tuberculoma	...	...	...	...	...	3
(b) Glioma	...	...	...	...	...	1
(c) Meningioma	...	...	...	...	...	1
(d) Appendioma	...	...	...	...	...	1
(e) Craniopharyngioma	...	...	...	...	...	2
(f) Astocytoma	...	...	...	...	...	4

(B) Aneurysms—		
(a) Anterior cerebral artery	...	3
(C) Abscesses	...	4
(D) Chronic subdural haematoma	...	4
(E) Trigeminal Rhizotomy	...	8
(F) Infarct	...	2
(G) Duraplasty	...	1
Craniotomies—		
1. Traumatic	...	39
2. Malignant lesion	...	6
3. Benign lesion	...	24
4. Negative	...	2
Laminectomies—		
1. Lumbar PID	...	19
2. Decompressive cervical laminectomy	...	8
3. Decompressive lumbar	...	3
4. Decompressive dorsal	...	2
5. Laminectomies for spinal tumours	...	
(a) Neurofibroma	...	2
(b) Intraspinal lipoma	...	1
(c) Meningioma	...	1
(d) Tuberculoma	...	2
(e) Appendicoma	...	1
(f) Metastasis	...	3
(g) Hemangioma	...	2
(h) Medulloblastoma	...	1
(i) Abscess	...	3
Burrholes—		
(a) Exploratory	...	10
(b) Routine	...	29
Miscellaneous—		
(a) Epidural injection	...	6
(b) Lumbar meningocele	...	2
(c) Exploration of sinus	...	1
(d) Sacro coccygeal teratoma	...	1
(e) Lumbar haematoma	...	1
(f) Skull traction	...	1
(g) Excision of lumbosacral lipoma	...	1
(h) Subduro-peritoneal shunt	...	1
(i) Tororophy	...	3
(j) Tracheostomy	...	8
Shunts—		
(a) V. A. Shunts	...	10
(b) Revision of shunts	...	2
(c) Removal of shunts	...	2
Total operations		216
Special Procedures—		
Carotid angiograms	...	94
Myelil ventric	...	19
Air ventric	...	19
Coronary ventric	...	18
Lumber myelogram	...	44
Cisternal myelogram	...	15
P. E. G.	...	50
Subdurogram	...	3
Total		262

DEPARTMENT OF GENITO URINARY SURGERY

The Q. F. D. clinic is open on Tuesday from 11-30. a.m. onwards.

During the year 1972, 183 New cases and 561 old cases were examined and treated. 231 cases were admitted for indoor treatment and 194 operations were performed.

Following operations done with respect to the different organs:—

1) Kidney—		
Nephrectomy	...	2
Partial Nephrectomy	...	1
Nephrolithotomy	...	5
Pyelolithotomy	...	2
Pyelonephrolithotomy	...	3
Anderson—Hynes Operation	...	2

(II) Ureters—							
Ureterolithotomy	...	...	...	...	...	...	3
Cystoscopies with Ureteric	...	...	...	...	...	...	3
Catheterisation	...	...	...	...	...	...	1
Reimplantation of ureter in bladder	...	...	...	...	...	...	1
Uretero-colostomy	...	...	...	...	...	...	1
(III) Bladder—							
Cystoscopy	...	...	...	...	...	...	83
Suprapubic cystolithotomy	...	...	...	...	...	...	9
Resection of Bladder neck	...	...	...	...	...	...	3
Excision of Bladder Diverticulum	...	...	...	...	...	...	1
Cystolithotrixy	...	...	...	...	...	...	1
Basket extraction of stone	...	...	...	...	...	...	1
Railroad catheterisation	...	...	...	...	...	...	1
Repair of Urethrovaginal fistula	...	...	...	...	...	...	1
(IV) Prostate —							
Total Prostatectomy	..	...	...	...	...	...	11
Catheterless	...	...	...	...	...	...	2
Prostatectomy	...	...	...	...	...	...	2
Trans-Urethral resection of prostate	...	...	...	...	...	...	1
Prostatic Biospy	...	...	...	...	...	...	1
(VI) Urethra—							
Dilatation of Urethra	...	...	...	...	...	...	44
Urethrolithotomy	...	...	...	...	...	...	2
Meatotomy	...	...	...	...	...	...	6
Excision of Periurethral cyst	...	...	...	...	...	...	1
Resection of congenital urethral valves	...	...	...	...	...	...	1
Partial Amputation of penis	...	...	...	...	...	...	1
Urethroplasty with perianal urethrostomy	...	...	...	...	...	...	1
(VII) Testis and Scrotum—							
Vaso-epididymal anastomosis	...	...	...	...	...	...	10
Testicular biopsy	...	...	...	...	...	...	7
High ligation of varicocele	...	...	...	...	...	...	1
Orchidopexy	...	...	...	...	...	...	1
Orchidectomy	...	...	...	...	...	...	1

F.—Special work done by the unit is as follows:—

- (1) Special work being carried out by the Unit in Vasovasal anastomosis and vaso-epididymal anastomosis.
- (2) Dr. K. C. Mehta Participated in the All India seminar of Urologists over Urinary tract infection.

Department of Plastic Surgery :

The O. P. D. is conducted every Thursday and total of 372 New cases were seen. In addition, on an average 25 patients were examined for follow up on every O. P. D. day. Full documentation including photographs are maintained of all cases.

During the year 180 cases were admitted for operation and 192 plastic surgery operations were performed.

Eye Bank :

The O. P. D. function on Thursdays from 12.30 p.m. onwards.

During the period from 1st January 1972 to 31st December 1972, 25 patients were admitted for indoor treatment and 25 Keratoplasty operations were performed.

Publication :

Episcleral Limbal Fixation Suture for Cat. Surgery by Dr. S. D. Adrinwala, Journal of Ophthalmology, Vol. 20, No. 3 September 1972.

Department of Rheumatic and Collegen Diseases :

The out-patient department is conducted on every Saturday from 11.30 a.m. onwards.

On an average 75 old cases and 10 new cases attended this out patient department. On an average 3-4 Rheumatology cases are admitted per week for investigations and treatment. Patients are referred to other departments for X-Rays, Laboratory test and Physiotherapy and occupational therapy.

Research and Academic Work :

Following papers were submitted for publication in the year 1972:—

1. Sudhinal compound in Rheumatic disorders.
2. Brufen in the treatment of Rheumatoid arthritis.
3. Ponderaz in treatment of obesity.

Apart from these many projects are at present in hand and will be completed this year.

Dr. M. M. Desai, Hon. Rheumatologist and Vice-President, South East Asia and Pacific Area League against Rheumatism participated in the 11th Conference of the above League held in Auckland (New Zealand) last year. He presented Scientific publications and was Chairman of some scientific discussions which took place at the time of Conference.

Dr. M. M. Desai was also elected as President of the South East Asia and Pacific Area League against Rheumatism for a term of 4 years and Dr. C. V. Vanjani, Hon. Asstt. Physician, B. Y. L. Nair Charitable Hospital was elected Secretary General of the above League for 4 years.

Dr. M. M. Desai and Dr. C. V. Vanjani will be attending the 13th Conference of International League against Rheumatism to be held in Kyoto (Japan) in September 1973 as official delegates from India.

Publications by Staff under Dr. M. M. Desai during 1972.

The following papers were submitted for publications:—

1. Etiology of Myocardial Infarction	...	Dr. C. V. Vanjani.
2. Liver function tests in Infective Hepatitis	...	Dr. C. V. Vanjani.
3. Amoebic Liver abscess	...	Dr. C. V. Vanjani.
4. Tricuspid Incompetance in Corpulmonale	...	Dr. C. V. Vanjani.
5. Prognosis in Infective Hepatitis	...	Dr. C. V. Vanjani.
6. Sudhinal Compound in Rheumatic Disorders :	...	Dr. M. M. Desai.
7. Brufen in Rheumatoid Arthritis	...	Dr. M. M. Desai.

Isotope Unit and Thyroid Clinics:

Thyroid Clinic Attendance:—

New cases	(a) Direct	...	86
	(b) Referred	...	248
Evaluation cases	...		331
Followed up cases	...		417

The clinic is open on every Friday from 11.30 a.m. onwards.

Isotope Unit Investigations:—

	Total Nos.
¹³¹ I Thyroid uptake studies	358
P B I ¹³¹ I	358
Serum Cholesterol	358
Serum T ₃	75
Co-58 Vit. B ₁₂ absorption studies	160
¹³¹ I Therapy	7
B. M. R.	46
E. C. G.	15
Thyroid scan	135
Liver scan	22

Department of Endocrinology:

The clinic works on Mondays and Fridays from 2 p.m. to 5 p.m. During the year under report, 330 new patients and 1,136 old patients were treated. Types of new cases seen during the period.

1. Pit. Ovarian disorders	...	50 Nos.
2. Growth Disorders	...	23 Nos.
3. Patients on trials with antifertility compound	...	60 Nos.
4. Sterility	...	
Male	...	17 Nos.
Female	...	23 Nos.
5. Pit. disorders	...	3 Nos.
6. Genetic disorders	...	3 Nos.
7. Thyroid disorders	...	8 Nos.
8. Adrenal disorders	...	9 Nos.
9. Miscellaneous disorders	...	42 Nos.
10. Obesity	...	9 Nos.
Total	...	330 Nos.

Laboratory Investigations carried out during the year April 72 to March 73

Urinary Hormone Assays :						No. of samples.	
1.	17-Ketosteroids	...	...	...	...	186	done in duplicate.
2.	17-Ketogenic steroids	...	...	...	...	180	do.
3.	Urinary Estriol	...	...	...	...	170	do.
4.	Urinary Pregnanedial	...	...	...	...	155	do.
5.	Urinary Gonadotrophins	...	...	...	...	114	do.
6.	Serum Oxylcinase	...	...	...	...	75	do.
7.	Pregnancy tests (R. O. H.)	...	...	...	...	60	do.
8.	Urinary Estrone	...	...	...	...	46	do.
9.	Creatinine	...	...	...	...	150	do.

Histological, Histochemical & Cytological Tests :

1.	Vaginal smears	...	...	...	...	446	
2.	Sex chromatin	...	...	...	...	82	Buccal smears.
						82	Blood smears.
3.	Endometrial tissue	...	...	...	...	82	
4.	Other tissues	...	...	...	...	40	
5.	Cervical smears	...	...	...	...	28	

Lipid Factors :

1.	Cholesterol	...	...	...	...	118	
2.	Triglycerides	...	...	...	...	122	
3.	Free fatty acids	...	...	...	...	88	
4.	Esterified fatty acids	...	...	...	...	116	

Liver function tests :

1.	S. G. O. T.	...	...	...	...	36	
2.	S. G. P. T.	...	...	...	...	36	
3.	Thymol Turbidity test	...	...	...	...	36	
4.	Alkaline Phosphatase	...	...	...	...	36	
5.	Total Protein	...	...	...	...	36	
6.	Serum Albumin & Globulin	...	...	...	...	36	

Biochemistry and Analysis of semen :

1.	Count motility	...	...	...	...	60	
2.	Maltase activity	...	...	...	...	30	
3.	Fructose	...	...	...	...	60	
4.	Ascorbic acid	...	...	...	...	24	
5.	Citric acid.	...	...	...	...	258	
6.	B. Glucororidase	...	...	...	...	24	
7.	Acid phosphatase	...	...	...	...	24	

Human Pituitary Extraction :

4 batches of Human pituitaries were extracted, purified and assayed for potency estimation in terms of I. R. P. standards for F. S. H. & L. H. (By use of Steelman Pohley, Ovarian Ascorbic acid and seminal vesicle test).

Experimental Animal Studies :

1. Studies of various biochemical parameters in the rat epididymes during growth and development.
2. Relation of different steroids on changes in Epididymal Biochemistry.
3. Biochemical histological and histochemical changes in the epididymes with an Intra Epididymal suture (Cu, nylon and silk.)
4. Histochemistry of Rat uterus in the different phases of Estrus cycle.
5. Sialic acid metabolism in male and female rat reproductive organs in the rat.

Animal House performances :

1. Breeding of pure strains of rats and mice.
2. Use of these animals in expt. research and bioassays.
3. Supply of 485 animals to other departments in the institute for experimental work.

Teaching :

1. Lectures to 1st M. B. B. S. on Reproduction and Endocrinology.
2. Discussing endocrine cases with Interns attending O. P. D.
3. Post-graduate lectures in Reproduction for M. D. Physiology.

Attendance at conferences : Papers presented from the Department by Dr. Shahani :

1. Awards & Honours : Commonwealth Sr. Medical Award, April - July 1972. Visiting Professor, Dept. of Endocrinology, Royal Victoria University of New Castle - Tyne. Visited various other Endocrine centre in U. K.
2. Member of two I. C. M. R. expert Panels.
3. Nominated as a Member of Int. Res. Advisory Board of Int. Family Planning Research Association Inc. U. S. A.

Conference attended during 1972-73.

1. 2nd Annual cytology meeting. September 15th, 16th 1972 Delhi.
2. 6th All India seminar on Biology of Reproduction and Fertility Control, 13th, 15th December 1972.
3. 2nd Annual meeting of Obs. & Gyn. 16th, 17th December 1972.
4. Work-shop on cytology 27th, 30th December 1972.
5. I. C. M. R. seminar on " Long term effects of I. U. D. 5th, 17th February 1973.
6. Seminar on perspectives in Reproductive Endocrinology of female Organized by Delhi Univ. 5th, 7th March 1973.

Papers presented during the year 1972-73. :

1. Role of cytology in Family Planning 15th September 1972.
2. Effect of various oral contraceptive on lipid metabolism 13th December 1972.
3. Evaluation of urinary steroid hormone excretion in cases of placental insufficiency 16th December 72.
4. Basic principles of hormonal cell diagnosis, 28th December 1972.
5. Cytology of childhood, puberty menopause and menstrual cycle.
6. Endocrine function with long term use of I. U. D. 15th February 1973.
7. Morphological biochemical and histochemical changes, in Normal Endometrium (Human and rat) March 5th July 1973.

DEPARTMENT OF THORACIC AND CHEST DISEASES

The department has on O. P. D. session on every Friday from 10.30 a.m. onwards. Where all the members of the Department (Medical and Surgical) meet and discuss the cases jointly and followup is also done at the same time. This system has been found to be a great benefit to the patients.

The department is provided with additional special 5 beds for Medical and 5 beds for Surgical side.

The O. P. D. attendance average 3 of new and 7 of old patients per week. In this year 150 new cases and 350 old cases are seen. 80 operations were performed during this year.

Operations :

Pneumonectomy	...	...	...	...	...	3
Lobectomy	...	...	...	...	...	2
Thoracoplasty	...	...	...	...	...	3
Oesophagectomy	...	...	...	...	...	1
Decortication	...	...	...	...	...	1
Thoracotomy	...	...	...	...	...	3
Pleural Aspiration	...	...	...	...	...	2
Oesophagescopy	...	...	...	...	...	11
Bronchoscopy	...	...	...	...	...	9
Intercostal drainage	...	...	...	...	...	32
Scalane node biopsy	...	...	...	...	...	13
						<hr/> 80

Respiratory function Tests :

P. F. R.	...	...	...	...	...	326
F. V. C., M. B. C.	...	...	...	...	...	273
P. C. O. R.	...	...	...	...	...	53
W. R.	...	...	...	...	...	6
						<hr/> 658

Since 1967 the department is also provided with a well equipped "Respiratory Physiology Laboratory" and 658 Respiratory Function Tests were done during the year. The Department has improved the treatment of both Medical, Surgical chest diseases and has helped post graduates to learn more about chest diseases.

DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE**Services :**

Comprehensive Health Care was given to the Municipal Sweeper Community of Arthur Road.

The schedule of services rendered was 3 times a week. The record of clinic attendance for the period from January 1972 to December 1972 was as follows:—

Community.	No. of clinic sessions held	No. of First visits.	No. of revisits	Total	
Arthur Road	...	187	21	3360	3381

In addition to followup care at the Clinics, a proportion of patients were referred to hospital's out-patient departments for consultations and investigations.

Home Medical Care :

This was continued in 1972. In this year Physiotherapy was also continued.

The following is the record for 1972:—

No. of patients carried forward from previous year	...	...	...	...	2
No. of new patients enrolled in 1972	...	...	...	...	10
No. of visiting days	...	...	...	...	60
Total number of visits	...	...	...	...	40
Average No. of visits per visiting day	...	...	...	...	1.5

(c) Tuberculin Testing and B. C. G. Vaccination :

Tuberculin testing was carried out on 8,734 patients attending Pediatric O. P. D. and School Clinic of Nair Hospital.

B. C. G. Vaccination was carried out on 2,174 neonates and 1,394 Pediatric out patients and school clinic patients. Simultaneous smallpox vaccination was carried out on neonates by vaccinators from the Health Department of the Municipal Corporation.

(d) Health Supervision of School Children :

Work on medical inspection of school children belonging to Standards I and III of Upper Primary School at Agripada was continued in 1972. 423 children were examined during this year. Vaccination was also undertaken 85 children were vaccinated with smallpox and 25 children with B. C. G. vaccine.

(e) Community Health Service at Bandra :

This project in collaboration with Seva Niketan House was continued in 1972. Medical relief was undertaken in the 10,000 strong community residing at the Behrampada slums in Khermagar at Bandra. The approximate number of patients seen throughout the year was 7,500, old and new cases.

(f) Immunisation Centre was opened in 1971. This centre runs in the afternoons. Smallpox vaccination, triple antigen and polio vaccine are given. From January 1972 to December 1972, 251 children were vaccinated with triple antigen and 330 children were given Polio vaccine.

(g) Social Services.

- (i) Total No. cases referred was 2084.
- (ii) Case work was done on 320 patients. These patients were referred from the Departments of Preventive and Social Medicine, Tuberculosis, Pediatrics, Orthopedics, Psychiatry, Obstetrics and Gynaecology, Speech therapy etc.
- (iii) Medicines were supplied to 4 patients referred from the various departments.
- (iv) Appliances were provided to 23 patients. (e.g. crutches, hearing aids, calipers, surgical boots, surgical belts etc.).
- (v) Home visits were made in 176 cases.
- (vi) Agencies, Institution and Employers were visited in 176 cases.

III— Research Projects.

(a) Longitudinal study of growth and development in Infants, and Pre school children of the Sweeper communities residing at Arthur Road.

A clinic was held once a week to make systematic observations of the growth and development of infants and pre-school children. The records for the year 1972 are as follows:—

Group	No. under observation	Total No. of visits.	Average visit per infant or child
Infants	43	162	3.83
Pre-school Children	63	171	3.2

(b) Psycho social studies on Coronary Heart Disease and Prospective Studies on University Professor.

The records for 1972 as follows:—

5 Professors (New cases)
215 Professors (Old cases)

(c) Follow up of infants and children vaccinated with B. C. G. Vaccination.

This was continued in 1972.

(d) Psycho-Social Study of Diabetic Patients.

The Psycho-social data was collected on 234 diabetic patients attending the diabetic clinic on Thursday.

Medical Relief In Drought Affected Areas.

This scheme was started on 15th December 1972. A team of 10 Interns and 2 Medical Officers one of whom is from the department of Preventive and Social Medicine is sent to centres in these areas for a period of 3 weeks - 6 weeks. Organisation of team drugs supplies equipments travel etc. are undertaken by this department.

Mobile Medical Relief To Slum Communities.

Since November 1972 this is being undertaken in the Van donated by B. P. C. C. to this institution. 2 Communities were taken up in this project.

Urban Public Health Internship Programme.

Since 18th December 1972 this has been handed over to Department of Preventive and Social Medicine Community Health Care to urban slum communities are carried out under the programme:

Internship Training Programme.

The organisation of the entire internship training programme has been handed over to the Department of Preventive and Social Medicine since December 1972.

STAFF CHANGES

1. Shri B. Prabhakar Reddy is appointed as a Bio-statistician from 10th June 1972 & Resigned from 1st September 1972.
2. Smt. V. S. Karnick is appointed as a Lecturer from 8th June 1972.
3. Dr. (Smt.) R. P. Rega is appointed as a Lecturer from 7th July 1972 to 17th September 1972 and again appointed as a Lecturer from 18th September to 14th December 1972 & transferred from 15th December 1972 as Registrar in this department.
4. Dr. (Smt.) M. S. Gokhale is appointed as a Registrar from 1st September 1972 to 14th December 1972; relieved from service from 15th December 1972.
5. Smt. C. Rema is appointed as a M. S. W. from 13th September 1972 to 24th October 1972.
6. Smt. S. P. Damle is appointed as a Ag. Lecturer from 9th October 1972 to 1st November 1972 & transferred from 2nd November 1972 as a M. S. W. in this department.
7. Smt. Asha Krishnamurthy is appointed as M. S. W. from 1st November 1972 to 30th November 1972 and relieved from service on 1st December 1972.
8. Smt. C. R. Shah is appointed as a M. S. W. from 1st December 1972.

Department of Audiology and Speech Therapy :

This year we have admitted 12 students to F. Y. B. Sc. (A.S.T.) for the academic year 1972-73. One out of these 12 students is from outside Bombay University.

The results of University examination for students of F. Y. B. Sc. and B. Sc. (A.S.T.) for the academic year 1971-72 were as follows:—

	No. of students appeared.	No. of students passed.	Percentage
F.Y. B.Sc. (A.S.T.)			
April 1972	13	10	77
November 1972	3	3	100
B.Sc. (A.S.T.)			
April 1972	9	5	56
November 1972	2	2	100

6 M.Sc. students from All India Institute of Speech and Hearing had come here for one month each as part of their internship programme. They observed various operations and cases in E. N. T. Department besides working with various types of speech and hearing disorders.

Indo Danish Projects :

In this year we have received 45 hearing aids. We distributed free of cost 43 hearing aids to adults and 92 to children who are hard of hearing. About 300 ear moulds were also made and supplied free of cost. We are also supplying under this project batteries and spare cords for hearing aids free of cost. All these hearing aids, battery and cords have been made available from Denmark through All India Institute of Speech and Hearing, Mysore.

Patient's Load :

During the year 2187 new patients were registered and examined in our department. This shows a decline of 94% as compared with the previous year's total of 2233. This is because of the frequent break down in the air conditioning plant during the second half of the year and also due to the strikes by the Municipal employees during August 1972.

The average load of cases coming for speech therapy is about 60-70 per day. The statement of new cases seen in the year 1972 is enclosed herewith.

Other Activities :

The project on Cleft Palate patients which Mr. R. K. Oza, Professor and Head, has undertaken in collaboration with Dr. Mirza, Professor of Prosthodontia Nair Dental College, under ICMR grant has been given an extension. This project is likely to be completed in 2 or 3 months.

Mr. P. Rama Mohan Babu, M.Sc., is working as a Research Assistant in the project "Bekey Audio-metry in the analysis of auditory disorders". Dr. N. L. Hiranandani is the Chief Investigator of this project which is being financed by the Nair Hospital Research Society. The staff and students of our school are also taking an active interest in making. Vth All India Conference of Indian Speech and Hearing Association which is to be held in the first or 2nd week of February 1973 at Bombay a grand success.

It has also been proposed to start a Vestibular Research Laboratory for the advanced and detailed investigation of cases with vestibular disorders. This has been made possible through the generous donation from K. C. Trust secured through the efforts of Dr. L. H. Hiranandani.

Statement showing the number of patients seen at Audiology and Speech Therapy School in the year 1972.

Sr. No.	Diagnosis	Total
1.	Audiogram	1,284
2.	Hard of Hearing	280
3.	Stammering	175
4.	Laryngectomy	20
5.	Cleft Palate	15
6.	Dyslalia	58
7.	Dysphonia	9
8.	Puberphonia	29
9.	Aphasia	24
10.	Dysarthria	23
11.	Delayed speech	76
12.	Voice case	27
13.	Cerebral palsy	23
14.	Mentally retarded	33
15.	Not confirm	81
16.	Frinary Hesitancy	4
17.	Multiple Handicapped... ..	24
18.	Nastlity	2
Grand Total		2,198

Department of Occupational Therapy :

The department function from Monday to Saturday. The work load of the department is as under—

Total number of patients for 1972	...	...	...	...	3,842
Total number of patients' attendance	...	...	...	...	34,637
New patients	...	...	...	...	885
New patients (Indoor)	...	...	...	...	1,019
Total number of New patients	...	...	...	...	1,904

Activities of the Department :

New arts and crafts are introduced. Recently we are getting many orders for splints, cervical collars etc.

Students :

Under graduate and post-graduate students from F. E. M. Hospital O. T. School and All India Institute, of Physical Medicine and Rehabilitation respectively come for training.

Medical students and nurses came for orientation.

Social workers students from other Colleges came for learning and practice.

Other programme participation :—

1. Home visits to patients whenever necessary.
2. World day for Disabled - celebrations in March 1972.
3. Japanese paper craft demonstration.
4. Participation in sport for Handicapped at Poona.
5. A sale of articles was organised in December. We collected Rs. 300.

DEPARTMENT OF PHARMACY

Dispensary :

The Dispensary has dispensed 4,73,407 case papers at Out-door and 533 case papers as Indoor.

Total quantity of stocks prepared for Indoor and Out-door patients are given below :-

1. Quantity of stock solution prepared ...	...	...	...	35,032.55 Lit.
2. No. of tablet packs made ...	...	...	...	2,73,261.00
3. No. of powders wrapped ...	...	...	...	97,660.00
4. No. of O. P. D. prescription where account is kept ...	...	...	...	1,43,996.00
5. Special prescriptions attended ...	...	...	...	948.00
6. Syrup Simplex ...	...	...	...	521.870 lit.
7. Syrup orange ...	...	...	...	6.330 lit.

Central Sterile Supply:

The sterilization services are given to the All India Institute of Rehabilitation and Family Planning Centre at Bombay Central as they do not have sterilization facilities.

The details of sterilization done during the year 1972 is given below :-

CENTRAL STERILE SUPPLY SERVICE

1972-1973

1 Blood Bank Donor Set ...	...	...	...	6,995
2 Blood Bank Voluntary Donor Set ...	...	...	...	528
3 Blood Bank Plasma Set ...	...	...	...	874
4 Bone Marrow Tray (Adults) ...	...	...	...	342
5 Bone Marrow Tray (Child) ...	...	...	...	45
6 Bone Wax Dobbies ...	...	...	...	118
7 Catheter Tubes ...	...	...	...	5,433
8 Cisternal Puncture Set ...	...	...	...	4
9 Clip and Suture Removal Tray ...	...	...	...	4,144
10 Eye Irrigation Set ...	...	...	...	...
11 Nasal Puncture Set ...	...	...	...	173
12 Liver Biopsy Tray (Adult) ...	...	...	...	257
13 Liver Biopsy Tray (Child) ...	...	...	...	43
14 L. P. Adult ...	...	...	...	883
15 L. P. Child ...	...	...	...	1,212
16 Neurosurgery Angiography Tray ...	...	...	...	102
17 Neurosurgery Special Angiography Tray ...	...	...	...	6
18 Neurosurgery Myelography Tray ...	...	...	...	88
19 Neurosurgery Open Carotid Angiography Tray ...	...	...	...	1
20 Neurosurgery Pneumo Encephalography Tray ...	...	...	...	83
21 Neurosurgery Ventriculography Tray ...	...	...	...	67
22 Neurosurgery Lumbar Puncture Tray ...	...	...	...	196
23 Needle Tray (8 Needles) ...	...	...	...	812
24 Needle Tray (24 Needles) ...	...	...	...	46
25 Peritoneal Dialysis Set ...	...	...	...	46
26 Plural Aspiration Tray ...	...	...	...	567
27 Renal Biopsy Tray ...	...	...	...	112
28 Renal Drainage Bottles ...	...	...	...	3,085
29 S-line Sets ...	...	...	...	33,974
30 Syringes Tray (20 cc All Glass, 10 pks) ...	...	...	...	260
31 Syringes Tray (10 cc All glass, 20 pks.) ...	...	...	...	780
32 Syringe Tray (10 cc Luer lock syringes) ...	...	...	...	16
33 Syringe Tray (5 cc All glass, 5 pks.) ...	...	...	...	1,140
34 Syringe Tray (2 cc All glass, 10 pks.) ...	...	...	...	527
35 Syringe Tray (20 cc; 10 cc) ...	...	...	...	21
36 Syringe Tray (10 cc; 5 cc) ...	...	...	...	12
37 Tidal Drainage Set ...	...	...	...	39
38 Thoracic Drainage Set ...	...	...	...	1,904
39 Theatre Transfusion Set ...	...	...	...	4,581
40 Syringe Tray (20 cc; 10 cc; 5 cc) ...	...	...	...	814
42 Tracheostomy Tube Tray ...	...	...	...	583
43 Venesection Tray (Adult) ...	...	...	...	1,429
44 Venesection Tray (Child) ...	...	...	...	298
45 Wingstone Apparatus ...	...	...	...	...
46 Spinal Manometer Tray ...	...	...	...	44
47 Aspiration Bottle ...	...	...	...	5
48 Diagnostic Sets ...	...	...	...	758
49 Blood Bank Sets ...	...	...	...	196
50 Tuberculin Test Tray ...	...	...	...	190
51 Plio Tray ...	...	...	...	57
52 B. C. G. Tray ...	...	...	...	165
53 Small Pox Tray ...	...	...	...	33
54 Culture Tubes ...	...	...	...	58
55 Distilled Water Bottles ...	...	...	...	851
56 Distilled Water Flask ...	...	...	...	851
57 Vacuum Bottles ...	...	...	...	49,499
58 Vacuum Bottle Needles ...	...	...	...	148
59 Stuck up Syringes ...	...	...	...	248
60 T. O. P. Tray ...	...	...	...	160
61 2 cc All Glass Syringes (75 pks.) ...	...	...	...	14
62 Transfusion Bottles 540 ml. empty ...	...	...	...	240
63 Drums and Dressings ...	...	...	...	24,502
64 Transfusion Bottles and Vials ...	...	...	...	1,82,684

The New services started during the year are as follows:—

1. T. O. P. Set
2. Folio-immunisation Tray.
3. Tuberculine test tray.
4. Small pox vaccine Tray.
5. B. C. G. Tray.
6. Syringe tray 2 cc (75 pks.)
7. Syringe Tray 5 cc (10 pks.)
8. Syringe Tray 5 cc (5 pks.)
9. Needle Tray (48 Nos.)
10. Needle Tray (25 pks.)
11. Blood Bank Sets.

Manufacture of Pharmaceutical

The list of pharmaceutical manufactured in the year 1972 is given as under:—

STERILE PREPARATION

1972-1973

Transfusion Bottles

1. A. C. D. 75 ml. ...	5,293
2. Concentrated Soln. A2 for dialysis 1000 ml. T. B. ...	230
3. Dextrose and Sodium Chloride Soln. 500 ml. T. B. ...	11,521
4. Inj. 33.3% Dextrose Soln. 500 ml. T. B. ...	250
5. Inj. 5% Dextrose Soln. 500 ml. T. B. ...	82,070
6. Inj. 5% Sodium Chloride Soln. 550 ml. T. B. ...	35
7. Inj. Normal Saline Soln. 500 ml. T. B. ...	54,906
8. Inj. 50% Dextrose Soln. 200 ml. T. B. ...	1,930
9. Suby's Solution 500 ml. T. B. ...	120
10. Inj. 20% Mannitol 200 ml. T. B. ...	580
11. 0.5% Silver Nitrate Soln. 500 ml. T. B. ...	48
12. 5% Concentrated Urea Soln. 500 ml. T. B. ...	28
13. Solution for Eye Drops 500 ml. T. B. ...	90
14. 70% Dextrose Soln for dialysis 1 Lit. T. B. ...	10
15. Inj. 15% Dextrose Soln. 500 ml. T. B. ...	91
16. Inj. 45% Dextrose Soln. 500 ml. T. B. ...	31
17. Inj. 4% Dextrose Soln. 500 ml. T. B. ...	20
18. Inj. 16% Dextrose Soln. 500 ml. T. B. ...	80
19. Water for Inj. 1 Lit. T. B. ...	5
20. Inj. 20% Dextrose Soln. 500 ml. T. B. ...	20
21. Inj. 4% Hypertonic Saline 500 ml. T. B. ...	39
22. 10% Glycine Soln. 500 ml. T. B. ...	4
23. 0.01% Silver Nitrate Soln. for bladder Wash. 500 ml. T. B. ...	20
24. Inj. 25% Sodium Chloride Soln. 50 ml. W/V ...	40
25. Coconut water synthetic for oral use. 500 ml. T. B. ...	8
26. 1% Boric Acid Soln. for dialysis 500 ml. T. B. ...	20
27. Inj. 10% Hypertonic Saline Soln. 500 ml. T. B. ...	66
28. Inj. 15% Hypertonic Saline Soln. 500 ml. T. B. ...	40
29. Inj. 20% Hypertonic Saline Soln. 500 ml. T. B. ...	228

The list of new preparations manufactured during the year 1972 is as under:—

1. Preparations in T. B. ...	12
2. Preparations in Vials ...	6
3. Preparations in Ampoules ...	1
4. Capsules ...	3
5. Creams ...	3
6. Ointments ...	1
7. Lotions ...	1
8. Inj. 5% Hypertonic Saline ...500 ml. T.B.	
9. 0.5% Silver nitrate Soln. ...	Do.
10. 50% Conc. Urea Soln. ...	Do.
11. 15% Dextrose Soln. ...	Do.
12. 45% Dextrose Soln. ...	Do.
13. 4% Dextrose Soln. ...	Do.
14. 20% Dextrose Soln. ...	Do.
15. 4% Hypertonic Saline Soln. ...	Do.
16. 10% Glycerine Soln. ...	Do.
17. Coconut water ...	Do.
18. 1% Boric acid for dialysis ...	Do.
19. Inj. 15 x Hypertonic Saline ...	Do.
20. 20% Trichloro Acetic Acid ...	50 ml. B.V.
21. Barrium Sulphate suspension in Gelatin ...	Do.
22. 25% sodium chloride soln. ...	100 ml.
23. 6.1% sodium acetate soln. (for expt) ...	100 ml. W.V.
24. 5% silver nitrate ...	100 ml. B. V.

Capsules—

Gentian Violet 10 mg./cap.
Sodium Fluoride 10 mg./cap.
Methylene Blue 10 mg./cap.

Creams—

Urea Cream.
Sun Burn Cream.
Vanishing Cream.

Lotion—

Lotion calamine with sulphur.

Ointment—

Salicylic Benzoic with 2% Enteroquinol.
Gum Mastic.

Quality Control

A total number of 16,243 tests for 114 raw materials, 45 finished products and 130 proprietary products splitted up into 254, 137 and 250 batches respectively were done. 10 per cent. of the total batches were rejected.

All the sterilizers of Nair Hospital and Bhajekar Hospital are tested fortnightly for their proper functioning by using Culture tubes and sterility testing numbering to 300.

The total saving effected by these tests calculated on the basis of Haffkine Institute's rates, is Rs. 1,69,885.96.

A greater number of tests could have been performed and the progress and economy of this section would have been a greater extent were it is not for the following difficulties.

- (1) The section has to carry on work in a very limited space.
- (2) The section is still not fully equipped to facilitate complete testing.

(6) Glass Blowing

The glass-blowers services are given to the Hospital as well as College side departments besides the Pharmacy required articles which includes glass articles and different types of connection to of the central sterile Supply Service and Manufacturing Section.

The total No. of articles prepared by the glass blower in this year comes out to be 17,300 numbers.

Following glass articles are prepared during the year.

1. Glass rods for saline sets small	3,640
2. Glass rods for saline sets big	3,314
3. Murphy's Drops	801
4. Glass rod for drainage bottle bent	154
5. Glass rod for drainage bottle st.	669
6. Needle covers for syringe set	1,540
7. Cover for bleeding set needles	1,920
8. L. P. connections	901
9. T. connections	34
10. Y. connections	36
11. Suction Cannulac for N. Surgery	325
12. Observation tube for Oxygen flow	12
13. Oxygen delivery tube	256
14. Glass rods for filtration unit	31
15. Drainage tube st. small	716
16. Glass connections for bleeding sets	1,069
17. Blood filter	287
18. Venesection Cannulae	533
19. Rods for renal drainage	24
20. Special containers to collect samples	26
21. L shaped rods to endocrinology	100

Works for Femine Relief Camps

This department has shared the responsibility towards the humanity with the femine affected people by supplying the sterile material as well as the pharmacy manufactured medicines to the femine relief camps at different places as shown below:—

(i) Sterile material supplied:—

1. 5 CC all glass syringe tray (5 packs)	13
2. 2 cc all glass syringe tray (10 packs)	3
3. 20 cc all glass syringe tray (10 Packs)	2
4. 10 cc all glass syringe tray (10 Packs)	3
5. Needle tray (Needle No. 22 and 23; 24 pks. of each)	11
6. Instrument Tray No. 1	2
2	2
3	1
4	2

7. Gause pieces (1 box containing 15 pks.)	...	...	...	1
8. Vaseline gauze tray(s)	...	...	...	3
9. Furacine gauze tray (Medium)	...	...	...	3
10. Two Ryles tubes	...	...	...	2 pks
11. Small pox tray	...	...	...	9
12. Gause buncles	...	...	...	4
13. Cotton bundle	...	...	...	2
14. Catheter	...	...	...	96
15. Kidney Tray	...	...	...	6
16. Glass Jars containing polythene cannulae A+B in 2% Cetrimide Solution	...	...	...	3
17. Sterile Bandage Box	...	...	...	1
18. 2 cc Syringe Tray (75 pks.)	...	...	...	6
19. 10 cc Luer lock syringe tray (12 pks.)	...	...	...	4
20. New syringe tray	...	...	...	1
21. Venescation tray	...	...	...	4
22. Big size drum containing operation towels, gauze lint and cotton	...	...	...	4
23. Medium drum with 4 masks, 4 gowns, 4 pairs of gloves and 4 glove bags	...	...	...	2
24. Medium drum with bandages 40 paks.	...	...	...	2
25. Medium drum with operation towels and bed sheet	...	...	...	3
25. Sterile instrument packs No. 5	...	...	...	1

From Dispensary:—

(1) Glycerine Carbolic Ear drops	...	...	4,500	cc.
(2) Glycerine Ichthammol ear drops	...	...	3,100	cc.
(3) Epedrine nasal drops	...	...	2.5	Lit.
(4) Limiment of methyl salicylate	...	...	6.5	Lit.
(5) Glycerine soda-bi-carb ear drops	...	...	3,675	cc.
(6) Glycerine Acriflavine	...	...	1,950	cc.
(7) Gention Violet	...	...	6.5	Lit.
(8) Mist. Antispasmodic	...	...	6	"
(9) Mist. Alba	...	...	6	"
(10) Mist. Expectorant sedatine	...	...	11	"
(11) Mist. Acid Bitter	...	...	5	"
(12) Mist. Kaolin Opium	...	...	10	"
(13) Mist. Acid Pepsin	...	...	1	"
(14) Mist. Alkaline	...	...	1	"
(15) Mist. Bismuth Kaolin	...	...	1	"
(16) Mist. Carmine	...	...	1	"
(17) Mist. Soda Salicylate	...	...	1	"
(18) Mist. Stimulant	...	...	1	"
(19) Mag. Sulpha powder	...	...	2	Kg.
(20) Glycerine Borax	...	...	2,580	cc
(21) Mandle's pint	...	...	2,200	cc
(22) Glycerine Tannic Acid	...	...	2,400	cc
(23) Glycerine Boric Spirit ear drops	...	...	4,840	cc
(24) Glycerine Bellacona pint	...	...	2,000	cc

Sterile Pharmacy Preparation:—

(1) Sodium Sulphacetamide Eye Oint	...	...	750	Pkts.
(2) Sodium Sulphacetamide Eye drops	...	...	5,715	cc
(3) Chlorphenicol Eye drops	...	...	650	cc

Non Sterile Pharmacy Preparations:—

(1) 1% Sulphur Skin Ointment	...	...	23,470	Kg.
(2) Silylic Co. Ointment	...	...	25,520	Kg.
(3) Cetrimide Soln.	...	...	10	Lit.
(4) Benzyl Benzate Emulsion	...	...	8	Lit.
(5) Cetavalon Soln	...	...	500	cc

Repacking of Tablets:—

(1) Tab. Fersolate	...	...	151,920	
(2) Tab. Antisine	...	...	50,060	
(3) Tab. Belladona	...	...	35,430	
(4) Tab. Ferroquinol	...	...	10,480	
(5) Tab. Hetrazine (50 mg.)	...	...	27,880	
(6) Tab. Aspirin	...	...	26,600	
(7) Tab. Aminophyllin	...	...	480	
(8) Tab. Vit. A. D.	...	...	50,870	
(9) Tab. Vit. M. V.	...	...	40,870	
(10) Tab. Vi B. Complex	...	...	50,870	
(11) Tab. Vit. C. (100 mg.)	...	...	28,200	
(12) Tab. Ferroquinol	...	...	51,920	
(13) Tab. Aladro	...	...	1,480	
(14) Tab. Cal. Lactate	...	...	4,800	
(15) Tab. Sulphadimidine	...	...	83,760	
(16) Tab. Sojanint	...	...	12,000	
(17) Tab. Piperazine Citrate	...	...	20,000	
(18) Tab. Chlorphenicol (250 mg.)	...	...	30,000	
(19) Tab. Antiasthemic	...	...	40,000	

(20) Tab. Solvizol Lozenges	...	...	...	...	1,200
(21) Tab. Largactyl	...	...	...	...	11,000
(22) Tab. Nicotinic Acid	...	...	...	...	22,000
(23) Tab. Isonex (100 mg.)	...	...	...	...	20,000
(24) Tab. Flagyl	...	...	...	...	10,000
(25) Tab. Fluoraquine	...	...	...	...	10,000
(26) Cap. Erythromycin	...	...	...	...	2,000
(27) Cap. Terramycin (250 mg.)	...	...	...	...	20,000

Education:—

1. 4 students from Goa College of Pharmacy, 2 from Bombay College of Pharmacy and one from Poona College of Pharmacy undergone the Practical training of 750 hours each in the Department.

2. One Drugs Inspector from Mysore State joined the Training for the period of 3 months since February 1973.

3. Mr. Katyarmal Pharmacist from Juhu Hospital undergone the practical training for the period from 8th July 1972 to 15th July 1972.

Visitors:—

1. 25 Drug inspectors under the drugs inspectors training scheme organised by the Ministry of Health, Government of India, visited this Department on 18th August 1972.

2. 35 students of B. Pharm from University Department of Chemical Technology visited the Dept. on 3rd August 1972.

3. 35 Students of Diploma in Pharmacy from Government Polytechnic Karad visited this department on 19th & 10 October 1972.

4. About 40 drug inspectors under the scheme of Central Drugs standard control organisation, for the training programme of drugs inspectors visited the Pharmacy on 18th August 1972.

Six Students from S. N. D. T. were given the permission to work in the Department as per the schedule convenient for them from 7th October 1972 to 8th January 1973 for Social services.

Preparations in Vials:

Sr. No.	Name	No.
(1)	1% Acetic Acid Soln. 50 ml. w. v. ...	130
(2)	2% Acetic Acid Soln. 50 ml. w. v. ...	115
(3)	A. C. D. 50 ml. w.v. ...	2,345
(4)	Inj. 1% Amethocaine HCL 50 ml. B. V. ...	150
(5)	Inj. 25% Dextrose Soln. 100 ml. w. c. ...	2,610
(6)	0.5% Eserine Salicylate 50 ml. B. V. ...	40
(7)	Inj. 0.5% Lignocaine HCL 50 ml. B. V. ...	300
(8)	Molar Lactate Solution 50 ml. w. v. ...	250
(9)	15% Potassium Chloride 20 ml. w. v. ...	1,985
(10)	Inj. 1% Procaine HCL 60 ml. B. V. ...	1,136
(11)	Inj. 2% Procaine HCL 60 ml. B. V. ...	1,175
(12)	Water for Injection 50 ml. w. v. ...	1,234
(13)	Water for Injection 100 ml. B. V. ...	3,400
(14)	Inj. 1% Lignocaine HCL 50 ml. B. V. ...	1,200
(15)	Inj. 2% Lignocaine HCL 50 ml. B. V. ...	500
(16)	4% Lignocaine HCL 50 ml. B. V. ...	154
(17)	2% w/v Soda Bi-carb 10 ml. w.v. ...	2
(18)	2% w/v Tannic Acid 10 ml. B. V. ...	2
(19)	1% Amethocaine HCL Eye drops 50 ml. B. V. ...	140
(20)	10% Sodium Sulphacetamide Eye drops 50 ml. B. V. ...	2,300
(21)	1% Pilocarpine Nitrate Eye drops 50 ml. B. V. ...	90
(22)	1% Pilocarpine Nitrate Eye drops 10 ml. B. V. ...	50
(23)	1% Atropine Sulphat Eye drops 50 ml. B. V. ...	250
(24)	0.5% Chloromphenicol Eye drops 50 ml. B. V. ...	200
(25)	1% Atropine Sulphate Eye drops 50 ml. B. V. ...	180
(26)	2% Homatropine Eye drops 50 ml. B. V. ...	290
(27)	3.8% Sodium Citrate 50 ml. w.v. ...	800
(28)	0.5% Eserine Salicylate Eye drops 50 ml. B. V. ...	40
(29)	4% Ephedrine Hydrochlorid Eye drops 50 ml. B. V. ...	2
(30)	1% Homatropine HBr Eye drops 50 ml. B. V. ...	2
(31)	20% Trichloroacetic Acid 50 ml. B. V. ...	2
(32)	1% Eserine Salicylate 50 ml. B. V. ...	2
(33)	0.0003% Eserine Salicylate Soln. 10 ml. ...	10
(34)	4% w/v Silver Nitrate Soln. 100 ml. w. v. ...	1
(35)	2% w/v Dextrose Solution 100 ml. w. v. ...	1
(36)	0.1% Sodium Acetate Soln. 100 ml. w. c. ...	2
(37)	0.5% Silver Nitrate Soln. 50 ml. B. V. ...	40
(38)	Barium Sulphate Suspension in gelatin ...	24
(39)	10% w/v Fluorescein Sodium 10 ml. B. V. ...	12
(40)	Inj. 25% Sodium Chloride Soln 100 ml. w.v. ...	10
(41)	5% Silver Nitrate Soln. 100 ml. B. V. ...	3
(41)	5% Silver Nitrate Soln. 100 ml. B. V. ...	3
(42)	40% Gum Mastic 50 ml. B. V. ...	1

Sr. No.	Name	No.
(43)	30% Sodium Sulphacetamide Eye drops 50 ml. B. V. ...	4
(44)	12.5% Sodium Iodide 100 ml. B. V. ...	40
(45)	0.5% Atropine Sulphate Eye drops 10 ml. ...	2
(46)	4% Pilocarpine Nitrate Eye drops 10 ml. B. V. ...	22
(47)	Penicillin Eye drops ...	...
(48)	2% Pilocarpine Nitrate Eye Drops 50 ml. B. V. ...	30
(49)	2% w/v Fluoresceine Sodium Eye drops 50 ml. B. V. ...	16
Preparations in Ampules:—		
(1)	Phenol in Arachis Oil 5 ml. B. A. ...	108
(2)	10% Calcium Gluconate 10 w.v. ...	165
(3)	Inj. 7.5% Sodi Bi-carb. 20 ml. W. A. ...	200
(4)	Inj. 8.4% Sodi Bi-carb 10 ml. W. A. ...	196
(5)	Inj. 4% Soda Bi-carb 20 ml. W. A. ...	300
(6)	Inj. 0.5% Dibenzylene 2ml. B. A. ...	400
(7)	Inj. 0.6 mg/w Atropine Sulphate 2 ml. B. A. ...	3,402
(8)	Inj. 8.4% Soda Bi-carb 20 ml. W. A. ...	300
(9)	Inj. 2% w/v Evans Blue 2 ml. W. A. ...	185
(10)	Inj. 33% w/v Sodium Chloride Soln. 20 ml. W. A. ...	25
(11)	Inj. 1% w/w Croton Scend oil in Archis Oil 2 ml. B. A. ...	27
(12)	Inj. 2% w/w Lignocaine in oil 1.2 m. B. A. ...	36
(13)	Different known concentrations of Na & K (For estimation Na & K) Issue to Pathology Department	
	(a) 20 cc White ampules ...	220
	(b) 10 cc White ampules ...	220
	(c) 5 cc White ampules ...	530
	(d) 10 cc. brown ampules ...	110
Other Preparations:—		
(1)	Gentian Violet capsules 10 mg./cap. ...	111
(2)	10 mg/cap Crystal violet capsules ...	50
(3)	Vanishing cream ...	100 gms.
(4)	Sun Burn Cream ...	100 gms.
(5)	10 mg./cap. Methylene Blue Capsules ...	40
(6)	Lotion Calamine with 3% Sulphur ...	12 Lit.
(7)	Sodium Fluoride Capsules 10 mg./cap. ...	936
(8)	Urea Cream ...	8.7 Kg.
(9)	Salicylic Benzoic Co. Ointment with 2% Enteroquinol ...	10 Kg.
Eye Ointments:—		
(1)	2% Homatropine HBr, Eye Ointment ...	375 Pks.
(2)	1% Atropine Sulphate Eye Ointment ...	1,350 "
(3)	1% Chlorophenicol Eye Ointment ...	2,700 "
(4)	2% H. O. F. Eye Ointment for ophth ...	250
(5)	6% Sulphacetamide Eye Oint. ...	2,274 "
Other Sterile Preparations:—		
(1)	Bone Wan ...	54 dabbies.
(2)	Furacine Oint. Tray	9
	Big	167
	Medium	4
	Small	354
(3)	Vaseline Gauze Tray ...	11 Bottle.
(4)	Benzyl Penicilline Pwoder 200 gms. ...	40 trays.
(5)	Talcum Powder ...	100 Bottles
(6)	Water for Inj. 9 lit. Carboy ...	31 Bottles.
(7)	Water for Inj. 7.5 Lit. Carboy ...	561
(8)	Distilled water flasks 5 lit. ...	70 trays.
(9)	Eye Ointment Base Tray ...	2
(10)	1.1% Glycine Solution 5 Lit. flask ...	2
(11)	2% Glycine Solution 5 Lit. flask. ...	2
Non Sterile Preparations:—		
(1)	Benzyl Benzoate Emulsion 500 ml. T. B. ...	260 Lit.
(2)	Compound Boric Acid Powder ...	50 Kg.
(3)	Calamine Lotion 500 ml. T. B. ...	331 Lit.
(4)	Calcium Lactate tablets ...	2,83,888
(5)	Liniment of calamine with 2% Enteroquinol 500 ml. T. B. ...	24 Lit.
(6)	Liniment of Turpentine 500 ml. T. B. ...	14 "
(7)	Mentholis Co. Ointment ...	15 Kg.
(8)	Rose Water Ointment ...	52 "
(9)	50% Soft Soap ...	52 "
(10)	Salicylic Benzoic Acid Oint. ...	360 "
(11)	Compound Salicylic Acid Powder ...	125 "
(12)	12% Sulpha Ointment ...	116 "
(13)	5% Sulpyadimidine Skin Ointment ...	20 "
(14)	Coal tar paste ...	10 "
(15)	Zinc Cream with 2% Enteroquinol ...	42 "

(16) Zinc Cream							
(17) Castor Oil Liquid Soap for Enema 500 ml. T. B.	...	...	...	...	688	Lit.	
(18) Zinc Paste	...	...	...	...	30	Kg.	
(19) Milk	...	...	...	...	550	Lit.	
(20) Sulphur with 3% Salicylic Acid Ointment	...	...	...	...	20	Kg.	
(21) Gum Mastic	...	...	...	...	295.400	Gms.	
(22) 40% Gum Mastic 50 ml. B. V.	...	...	...	...	200	cc	
(23) 2.1% w/v Iron Alum 500 ml. T. B.	...	...	...	...	2	Lit.	
(24) 20% Potassium Ferric chloride 500 ml. T. B.	...	...	...	...	105	"	
(25) 1% Calcium Hydroxide soln. 500 ml. T. B.	...	...	...	...	2	"	
(26) Blue Toner for films B. Soln. 500 ml. T. B.	...	...	...	...	1	"	
(27) Blue Toner for films A Soln 500 ml. T. B.	...	...	...	...	1	"	
(28) 0.8% Ammonium Chloride Soln. 200 ml. T. B.	...	...	...	...	2	"	
(29) 5% Silver Nitrate Soln. 500 ml. T. B.	...	...	...	...	1	"	
(30) 5% Silver Nitrate Soln. 400 ml. T. B.	...	...	...	...	800	cc.	

DEPARTMENT OF PATHOLOGY & MICROBIOLOGY

List of Publications.

1. Prof. S. M. Purandare—

1. Lymphomas of G. I. tract. *Journal of Postgraduate Medicine* April 1972.
2. Amoebic liver abscesses—A study of 50 fatal cases. *The clinician—Goa* (1972)
3. Primary Diffuse Sarcomatosis of Leptomeninges. *Indian J. Cancer* (March) (1972)

The Department held the Meeting of the Teaching Pathologists of Bombay on 30th September 1972.

The following papers were presented at the meeting.

1. Use of Fluorescence in histology. Prof. E. J. deSouza.
2. Serum Disc Electrophoretic abnormalities in myocardial infarction. Smt. V. G. Palekar and A. G. Pradhan.
3. Multiple primary malignant neoplasms a case report. Dr. I. V. Shah.

2. Dr. D. U. Antani—

1. The following article was published in collaboration with department of (Gynaecology & Obstetrics).
"A critical evaluation of post catheterization syndrome"
Journal of Gynaecology and Obstetrics of India.
February 1972 (Vol. 22 pp. 51-56)
2. The following articles have been accepted for publication:—
 - (a) "Gastroenteritis in Bombay - a bacteriological studies." Accepted for publication in *Journal of Ass. of Physician of India.*
 - (b) "Vaginol leiomyoma" Accepted for publication in *Journal of Obst. and Gynaecology of India.*
3. The following special works were carried out during 1972.
 - (a) Studies on vibrio cholerae isolated from Bombay.
 - (b) Antibiotic sensitivity of Salmonella organism.

Extra curricular activities.

1. Hon Secretary of the Nair Hospital Research Society during the year 1972.

3. Smt. Leela Joshi—

1. *Research.*—Project on "Microbial genetics" From the Indian Council of Medical Research.
2. *Publication.*—"Streptomycin resistance in Salmonella paratyphi A analysed by transduction" from *Genetics and our Health*, publication of I. C. M. R. 1972.
3. *Conferences.*—Tissue culture seminar arranged by I. C. M. R. at Mukteshwar in May 1972. I was invited to take part in group discussion. (2) Thirteenth annual conference of the Association of Microbiologists of India held at Ludhiana in December 1972. Paper presented on "Genetic basis of pathogenicity in Salmonella paratyphi A" Also, took part in group discussion. (3) Designed & fabricated two new instruments. (4) Council member of the Association of Microbiologists of India, and also council member of the Genetic Association of India.

Extra curricular activities:—

1. Member of the executive committee of Research Society upto November 1972 and joint Secretary from December 1972.
2. Contributed an article to the college magazine.
3. Past President, Inner Wheel Club of Chembur, (Social organisation)
4. Made J. P. on 15th August 1972 from the Government of Maharashtra.

4. Dr. (Smt.) I. V. Shah—

1. Study of Serum transaminases in liver diseases with particular reference to infective-hepatitis. Published in *Journal of Post-graduate Medicine—K. E.M.* in July 1972.
2. Hydatid disease—A clinico-pathological study sent for publication in *Current Medical Practice.*

3. Multiple primary neoplasms—A case report sent for publication in Journal of Postgraduate Medicine—K. E. M.

5. Dr. V. V. Kale—

No. papers were published in year 1972.

6. Dr. (Smt.) S. R. Prabhu—

Primary diffuse sarcomatosis of leptomeninges—A case report.
Vol. 9 No. 1 March 1972. Indian Journal of Cancer.

Department of Pathology & Microbiology.

The following investigations were carried out in the Chemical Pathology Section during the period from 1st January 1972 to 31st December 1972.

1. Blood Urea nitrogen	...	...	...	...	...	...	8,839
2. Serum Uric acid	...	...	...	...	...	...	225
3. Serum Creatinine	...	...	...	...	...	...	1,121
4. Creatinine Clearance	...	...	...	...	...	...	106
5. Urea Clearance	...	...	...	...	...	...	70
6. Urinary Albumin	...	...	...	...	...	...	2
7. Serum Sodium	...	...	...	...	...	...	1,200
8. Serum potassium	...	...	...	...	...	...	1,203
9. Serum chlorides	...	...	...	...	...	...	1,193
10. Urine Sodium	...	...	...	...	...	...	10
11. Urine potassium	...	...	...	...	...	...	10
12. Urine Chloride	...	...	...	...	...	...	10
13. Examination of urinary calculi	...	...	...	...	...	...	3
14. Total proteins	...	...	...	...	...	...	2,889
15. Serum Albumin	...	...	...	...	...	...	2,889
16. Serum globulins	...	...	...	...	...	...	2,889
17. Serum Alkaline phosphase	...	...	...	...	...	...	1,302
18. Serum Thymol turbidity	...	...	...	...	...	...	1,309
19. Serum Vanden Bergh reaction	...	...	...	...	...	...	2,075
20. Serum Bilirubin (Total)	...	...	...	...	...	...	1,149
21. Serum Icteric Index	...	...	...	...	...	...	2,075
22. Serum Bilirubin (Direct.)	...	...	...	...	...	...	1,149
23. Plasma Fibrinogen	...	...	...	...	...	...	98
24. Plasma Prothrombin Time and Index	...	...	...	...	...	...	1,615
25. Serum Brom-Sulphthalein test	...	...	...	...	...	...	61
26. Urine urobilinogen	...	...	...	...	...	...	39
27. S. G. O. T.	...	...	...	...	...	...	1,374
28. S. G. P. T.	...	...	...	...	...	...	1,381
29. Serum total lipids	...	...	...	...	...	...	180
30. Serum triglycerides	...	...	...	...	...	...	199
31. Serum phospholipids	...	...	...	...	...	...	183
32. Serum cholesterol	...	...	...	...	...	...	3,226
33. S. H. B. D.	...	...	...	...	...	...	324
34. S. L. D. H.	...	...	...	...	...	...	182
35. Blood Sugars	...	...	...	...	...	...	13,530
36. Glucose Tolerance curves	...	...	...	...	...	...	445
37. Serum amylase	...	...	...	...	...	...	78
38. Urine diastase test	...	...	...	...	...	...	2
39. Gastric analysis	...	...	...	...	...	...	374
40. C. S. F. Sugars	...	...	...	...	...	...	2,172
41. C. S. F. Chlorides	...	...	...	...	...	...	2,172
42. Colloidal gold Curves	...	...	...	...	...	...	62
43. Serum Inorganic phosphorous	...	...	...	...	...	...	1,767
44. Serum Acid phosphatase	...	...	...	...	...	...	203
45. Serum calcium	...	...	...	...	...	...	517
46. R. A. Tests	...	...	...	...	...	...	468
47. Urine calcium	...	...	...	...	...	...	15
48. Urine Bence Jones proteins	...	...	...	...	...	...	5
49. Urine Porphyrins	...	...	...	...	...	...	3
50. Urine lipids	...	...	...	...	...	...	2
51. Foetal Hb.	...	...	...	...	...	...	26
52. Serum electrophoresis	...	...	...	...	...	...	163
53. Spectroscopy	...	...	...	...	...	...	4
54. Disc. Electrophoresis	...	...	...	...	...	...	266
55. Urine proteins	...	...	...	...	...	...	790
56. Milk Calcium	...	...	...	...	...	...	5
57. Porphobilinogen	...	...	...	...	...	...	5
58. Urine Albumin	...	...	...	...	...	...	5
Total							63,659

BLOOD BANK

Yearly Report 1972

1. No. of Donors bled	5217
2. No. of Professional	2944
3. No. of Replacement	1111
4. No. of Bottles brought from outside	1162
5. No. of Bottles issued outside	616
6i No. of Transfusions given	5451
7. No. of Blood ABO grouping done	10159
8. No. of Rh grouping done	8972
9. No. of Crossmatching done	6499
10. No. of Antibody titers done	30
11. No. of Coomb's test done	20

No. of Rh. Typing, Coombs & Antibody titers done in 1971.

Month	Rh typing	Coombs	Antibody titers
January ...	733	2	3
February ...	760	1	4
March ...	617	2	2
April ...	772	3	4
May ...	682	3	1
June ...	808	1	3
July ...	864	2	1
August ...	464	1	3
September ...	899	2	1
October ...	855	1	2
November ...	632	1	2
December ...	886	1	4
Total	8972	20	30

Month.	Vol. donor	Replace-ment	Profes-sional	Blood transf in Hosp.	Brought from out-side	Sent out-side	Discarded
January ...	263	93	277	577	31	3	3+100
February ...	139	81	370	606	44	3	2
March ...	19	119	329	456	26	50	5
April ...	37	75	270	374	3	6	3
May ...	59	101	187	350	20	9	2
June ...	167	85	172	414	5	11	2
July ...	38	107	265	455	50	15	2
August ...	12	61	165	268	46	5	8
September ...	110	87	187	516	183	...	3
October ...	27	110	239	470	46	4	...
November ...	50	114	318	470	39	13	...
December ...	190	129	165	500	23	30	4
Total ...	1,111	1,162	2,944	5,451	516	149	34+100

No. of Grouping done in 1972.

Month	AB	A	B	O	Total
January ...	73	134	289	259	755
February ...	75	227	297	304	903
March ...	67	270	246	249	832
April ...	66	267	310	324	967
May ...	70	196	260	282	808
June ...	86	268	322	322	993
July ...	96	267	344	322	1029
August ...	48	136	149	117	450
September ...	89	274	320	307	990
October ...	80	255	288	288	911
November ...	46	171	213	200	630
December ...	70	266	267	283	886
Total ...	866	2731	3305	3258	1,159

No. of Crossmatching done in 1972.

Month	AB	A	B	O	Total
January	38	79	203	185	605
February	49	161	183	194	587
March	40	148	142	166	496
April	28	128	187	190	533
May	35	76	126	135	372
June	33	121	150	155	459
July	56	187	190	197	630
August	31	83	105	86	305
September	70	171	232	166	639
October	37	184	183	198	602
November	26	141	173	198	538
December	115	146	224	248	733
Total	558	1725	2098	2118	6499

Annual Report for the year 1972 (Bacteriology Section)

I.—Routine Examination for Smear and Culture

1. Urine	...	...	...	...	3,124
2. Cerebrospinal fluid	...	...	...	...	1,833
3. Aspirated fluid (Miscellaneous)	...	...	...	...	91
4. Ascitic fluids	...	...	...	...	170
5. Pleural fluid	...	...	...	...	321
6. Peritoneal fluid	...	...	...	...	47
7. Pericardial fluid	...	...	...	...	9
8. Hydrocele fluid	...	...	...	...	3
9. Intestinal fluid	...	...	...	...	11
10. Synovial fluid	...	...	...	...	10
11. Miscellaneous Swabs from aspirates	...	...	...	...	69
12. Pus and pus Swabs	...	...	...	...	1,562
13. Wound Swabs	...	...	...	...	38
14. Umbilical Swabs	...	...	...	...	12
15. Ulcer Swabs	...	...	...	...	5
16. Abscess Swabs	...	...	...	...	112
17. Sputum	...	...	...	...	3,332
18. Bronchial aspirates and Swabs	...	...	...	...	25
19. Throat Swabs	...	...	...	...	362
20. Nasal Swabs	...	...	...	...	88
21. Pharyngeal Swabs	...	...	...	...	3
22. Laryngeal Swabs	...	...	...	...	9
23. Swabs from lips Tongue Palate etc.	...	...	...	...	122
24. Ear Swabs	...	...	...	...	426
25. Cystic fluid and Swabs	...	...	...	...	9
26. Swabs from kidney liver, lung etc.	...	...	...	...	79
27. Lymph Nodes	...	...	...	...	5
28. Stool & Rectal Swabs	...	...	...	...	202
29. Conjunctival and Corneal Swabs	...	...	...	...	171
30. Miscellaneous Swabs from the eye	...	...	...	...	47
31. Cervical and vaginal Swabs	...	...	...	...	117
32. Gastric Lavages	...	...	...	...	11
33. Urethral Prostatic and Endometrial Swabs	...	...	...	...	121
34. Miscellaneous	...	...	...	...	11
Total	...	...	...	...	12,606

II.—Routine Cultural Examination.

1. Blood and Blood clots	...	...	...	...	336
2. Stool and Rectal Swabs	...	...	...	...	282
3. Throat and Nasal Swabs (for C. diphtheriae)	...	...	...	...	89
4. Cerebrospinal fluid	...	...	...	...	1,833
5. Pus	...	...	...	...	1,562
6. Wound Swabs	...	...	...	...	43
7. Miscellaneous Swabs and aspirates	...	...	...	...	11
Total	...	...	...	...	4,156

III.—Smear and cultural Examination for anaerobls.

1. Wound Swabs	...	...	...	...	43
2. Pus	...	...	...	...	115
3. Swabs from kidney, liver etc.	...	...	...	...	2
4. Material for testing sensitivity	...	...	...	...	—
5. Ear Swabs	...	...	...	...	244
6. Miscellaneous	...	...	...	...	5
Total	...	...	...	...	415

IV—Smear and Culture for *M. Tuberculosis*.

1. Sputum	179
2. Urine	23
3. Cerebrospinal fluid	90
4. Pleural fluid	47
5. Ascitic fluid	5
6. Synovial fluid	4
7. Gastric larvae	5
8. Pus	157
9. Vaginal, cervical, Endometrial Swabs	86
10. Lung, Swabs, Bronchial Swabs	412
11. Miscellaneous	4
Total	606

V.—Smear and Cultural Examination for Fungus.

1. Skin Scrapping	14
2. Vaginal and cervical Swabs	43
3. Sputum and Bronchial Swabs	15
4. Urine	22
5. Ear Swab	12
6. Cerebrospinal fluid	144
7. Vegetations	2
8. Swabs from lips, Throat etc.	119
9. Intestinal and jejunal fluid	4
10. Miscellaneous Swabs and aspirates	15
Total	390

VI—Cultivation with Carbon Dioxide.

1. Urine	105
2. Prostatic and Urethral Swabs	121
3. Vaginal and cervical swabs	61
4. Pus	39
5. Swabs from brain, lung, kidney etc.	13
6. Miscellaneous swabs and aspirates	94
7. Cerebrospinal fluid	722
Total	1,155

VII—Examination of Smear only.

1. Smears from lung, kidney spleen etc.	79
2. Skin scrapping	5
3. Wet preparations for Trichomonas of vaginal and cervical swabs	117
Wet film preparation of urines	911
5. do. of stool and Rectal swabs	106
6. do. of liver aspirates	41
7. Urethral and Prostatic smears	3
8. Vaginal and cervical smears	117
9. Miscellaneous	26
10. Sputum for A F B Direct method	3,332
11. Sputum for A F B—Concentration method	332
12. Hanging drop preparation	89
Total	4,826

VIII—Tests.

1. Sensitivity Tests	4,800
2. Coagulase tests	812
3. Agglutination tests	506
4. Biochemical tests	459
5. Do. on Triple—Sugar, Iron] agar	3,106
6. Insulin Termeratation tests	382
7. Bile solubility tests	382
8. Casoni's Tests	5
9. Free's Test	3
10. Preparation of autovaccines	86
11. Sterility tests of Injectable apparatus etc.	3
12. Biological Tests	4
13. Miscellaneous tests and examination	120
14. Blood bank Anti serum filtration	2,200
15. Urea fermentation Tests	24
16. Phosphatase Test	3
Total	2,344

IX.—Special Investigations and Research.

1. Bacteriological investigation of operation theatres and wards	...	...	102
2. Study of Organisms from Blood and clots.	...	...	13
3. Study of Tubercle bacilli	...	...	102
4. Study of Staphylococci	...	...	40
		Total	257

Emergency Investigations carried out in Medical units**Routine Examination of—**

1. Blood	...	...	...	5,617
1. Urine	...	...	...	5,204
3. Stool	...	...	...	38
4. C. S. F.	...	...	...	247
5. Pleural fluid	...	...	...	38
6. Ascetic fluid	...	...	...	48
7. Other Aspirated fluid	...	...	...	...
8. Smear and cultures of CSF and other Aspirated fluid	...	...	...	45
9. Stool culture	...	...	...	5
10. Miscellaneous for smear culture	...	...	...	10
11. Examination of Blood for Sugar	...	...	...	63
Do. for Urea N.	...	...	...	54
12. Miscellaneous Biochemical examination	...	...	...	3
		Total		11,372
		Grant Total		48,393

Yearly report from Serology Section. the year 1972.	No. of investigations carried out in Serology section during	
Blood V. D. R. L.	...	14,089
Do. (from Blood Bank)	...	2,168
C. S. F. V. D. R. L.	...	846
Blood Widal	...	748
Weit belix	...	61
Paul Bunnel	...	48
Bneellosis	...	2
Formal gel	...	1
	Total	17,963

Report of yearly Investigation. Food Handlers Scheme.

Investigation carried out in the Food Handler Scheme from 1st January 1972, to 31st December 1972.

Blood Widal	...	2,234
Blood V. D. R. L.	...	2,234
Urine	...	2,243
Stool	...	1,218
	Total	7,929

Total Food Handlers Examined 2,347.

Report of yearly Investigations carried out in Central Laboratory year 1972.

62,902 Investigations were carried out in the Central Clinical Laboratory during the year 1972 (From 1st January 1972 to December 1972).

The post mortems performed during the above period is 572.

Material collected for other laboratory investigation is 18,318 as shown below:—

Routine investigations in the Central Clinical Laboratory:—

1. Blood counts and Hb%	...	21,189
2. Urine	...	19,321
3. Stool	...	8,362
4. Occult blood	...	3,151
5. Semen	...	869
6. Sputum	...	2,865
7. C. S. F. routine	...	3,281
8. Pleural fluid	...	779
9. Acetic fluid	...	794
10. Blood Urea	...	426
11. Blood Sugar	...	980
12. Blood B. T. & C. T.	...	664
13. Throat Swab	...	221
	Total	62,092

62,902

Collection of material (Blood)

1. Blood Urea	...	...	...	...	1,250
2. Blood Sugar Fasting	...	...	...	...	1,656
3. P. F. Sugar	...	...	...	...	1,704
4. R. A. Test	...	...	...	...	276
5. Serum Cholesterol	...	...	...	...	516
6. Uric acid	...	...	...	...	271
7. Serum Bilirubin	...	...	...	...	285
8. Serum Proteins	...	...	...	...	280
9. Serum Calcium	...	...	...	...	244
10. L. F. T.	...	...	...	...	154
11. P. T. P. I.	...	...	...	...	75
12. E. S. R.	...	...	...	...	7,401
13. V. D. R. L.	...	...	...	...	1,895
14. A. B. O. R. H.	...	...	...	...	1,155
15. Serum alkaline phosph	...	...	...	...	260
16. P. C. V.	...	...	...	...	481
17. S. G. O. T. & S. G. P. T.	...	...	...	...	67
18. Widal	...	...	...	...	93
19. Serum creatinine	...	...	...	...	255
Total	...	...	...	...	18,318
Plus P. M.	...	...	...	...	572
Grand Total	...	...	...	...	81,972

Subject : Annual Report for the year 1972 Histopathology Section

Investigations carried out in Histopathology section during the year 1972 (1st January to 31st December 1972).

1. Post mortem blocks prepared	...	...	...	...	5,417
2. Fluids for Cytological examination	...	...	...	...	217
3. Surgical Blocks prepared	...	...	...	...	6,325
4. Surgical Blocks prepared (E. N. T. Unit)	...	...	...	...	1,338
5. Slides of Surgical tissues prepared	...	...	...	...	6,845

(Details of Surgical slides prepared)

1. Dr. Bhajekar Hospital	...	...	...	...	32
2. G. E. Department	...	...	...	...	205
3. Skin Department	...	...	...	...	26
4. Tata Hospital (unstained)	...	...	...	...	12
5. Duplicate Slides	...	...	...	...	329
6. Special Stains	...	...	...	...	201
7. Practical class	...	...	...	...	95
8. Request from Staff	...	...	...	...	18

6. Autopsies performed during the year	574
--	-----	-----	-----	-----	-----

Pathology and Microbiology :**Work done in Haematology Section in 1972.**

(1) Blood E. S. R.	...	...	...	...	8,209
(2) Blood complete Heemograms	...	...	...	...	1,392
(3) Blood BT, CT with Hb.	...	...	...	...	2,467
(4) Blood Reticulocyte counts	...	...	...	...	587
(5) Blood Platelets counts	...	...	...	...	453
(6) Blood Fragility	...	...	...	...	175
(7) McV McH McHc,	...	...	...	...	619
(8) Blood L. E. cells	...	...	...	...	186
(9) Blood P. C. V.	...	...	...	...	1,527
(10) Microfilaria	...	...	...	...	121
(11) Malarial parasites	...	...	...	...	142
(12) Sickle cells	...	...	...	...	14
					15,892

ADMINISTRATION REPORT FOR THE YEAR 1972**Special Departmental Activities**

- (1) Objective Assessment of Student Performance with preparation of Multiple Choice Question Bank.
- (2) Research in the analysis of student assessment.
- (3) Electives for undergraduate students based on specialised techniques involving simple histochemistry, Cytology, Photomicrography and colorimetry as well as modelling and charts.

- (4) Most of the photomicrographs of the whole Institution, whether for departmental, teaching, publication or conferences and research are photographed in this department both in black and white and colour.
- (5) Preparation of a Histological Section Bank of Head and Neck Tissues (With the help of the Head and Neck Section of the ENT Dept. and Research Society grant).
- (6) The dept. has been in charge of the Artist Section of the College and Hospital.

RESEARCH—Dr. E. J. de Souza

- (1) Exfoliative Cytology, hormonal, cancer Screening and Barr Bertram Study.
- (2) Histochemistry.—
 - (a) Experimental and investigative on diseased tissue.
 - (b) Enzyme Histochemistry Applied studies
 - (i) Fungi (with Dr. Vahalia and Mrs. Kiran).
 - (ii) Diseased conditions.
 - (iii) Studies on testicular histochemistry with Mr. Mimandi.
 - (c) Synovial membrane study with the help of Orthopaedic Dept. Paper prepared for Western Zone Conference.
 - (d) Histochemical Studies on Bone and Cartilage, with Dr. Tapia.
- (3) (i) Detailed histological and histochemical study of tissues from the Mouth, Larynx and Thyroid.
(ii) Preparation of an Exhibition of Histological Photomicrographs.

DEPARTMENT OF PHYSIOLOGY

Research Work :

Dr. J. V. Bhatt:—

- (1) Skin fold thickness and its relation to body weight with Dr. (Ent) Barua.
- (2) Howard Step test and Valsalva ratio as an index of physical efficiency with Dr. (Smt.) P. Subaramaniam.
- (3) Some observation of colour blindness with Dr. (Smt.) H. P. Pispati.
- (4) Smoking and W. B. C. count with Dr. (Smt.) Parulekar.

Dr. (Smt.) V. G. Parulekar :—

- (1) Study of Social, Economic and Education Pattern of Students admitted for Ist M. B. B. S. Course.
- (2) Distribution of receptors in various tissues.

Participation in extra-curricular activities and conference :—

Dr. J. V. Bhatt attended a conference of Association of Physiologists and Pharmacologists of India in December 1972 at Hyderabad.

Monthly meetings of the members of teaching staff were held when the members of the staff spoke on various topics in Physiology and applied physiology.

DEPARTMENT OF PHARMACOLOGY

Research Projects :—

1. An investigation of Antiduretic action of acetoaminophen derivative Dr. (Mrs.) Rammurthy and Dr. Bijlani.
2. Experimental studies on chloramphenicol toxicity. Dr. (Mrs.) Dagli and Dr. Bijlani.
3. Studies on Vitamin B12 Dr. (Mrs.) S. A. Dasai and Dr. R. S. Satoskar.
4. Treatment of non-toxic goitre with thyroxine, Dr. (Miss) S. K. Krishnan and Dr. R. S. Satoskar.

CONFERENCES AND COURSE ATTENDED

- Dr. R. S. Satoskar (1) Society of Nuclear Medicine, IV Annual Conference at Madras.
(2) Indian Pharmacological Society at Jaipur.

Paper read in the Nuclear Medicine, Madras Studies on total body sodium and potassium in Indians, using radiosodium and potassium. Paper read at Jaipur. Method for studying spermatogenesis using tritiated thymidine.

Dr. J. V. Bijlani, attended a Six weeks course in Medical use of Isotopes.

Dr. D. A. Joseph, attended the following Conference.

- (1) Indian Association of Advancement of Medical Education at Ahmedabad presented a paper entitled Modification of the post-graduate curriculum, examination in Pharmacology, jointly with Dr. J. C. Bijlani.
- (2) Maharashtra Chapter of Indian Association Advancement of Medical Education at Bombay and presented a paper entitled "Modification in the curriculum in practical pharmacology for under graduates in Pharmacology, jointly with Dr. J. C. Bijlani.

Library :—

The Department is equipped with an upto date library of about 250 books useful both for under-graduate teaching and post-graduate students.

Papers Published :—

Dr. R. S. Satoskar :—

- (1) Vitamin B-12 levels in serum and CSF in Indian subjects with Neurological disorders. In. J. Med. Sci. 26: 139-144, 1972.
- (2) Clinical evaluation of M. K. 910 in hepatic amoebiasis Jour. Ass. of Phy. Ind. in October 1972.

Equipments :—

- (1) Physiograph ... 2—Contamination monitor.
- (2) Pye Unicam SP-500 spectrophotometer.

DEPARTMENT OF BIOCHEMISTRY

Research Work :—

Dr. (Smt.) J. J. Engineer and Smt. S. B. Desai ... Feeding trials are attempted for of nutritional qualities of Pharmaceutical preparation work in progress.

NURSING STAFF

During the year 52 students passed in General Nursing examination Part II and 49 students passed the mid-wifery examination.

POOR PATIENT FUND

Donation to the extent of Rs. 4553-95 were received during the year in addition to Rs. 24015-24 collected from the boxes kept in the wards and O. P. D. of the Hospital.

A amount of Rs. 8194-78 were spent from the fund towards Medicine, Drugs, appliances, etc. for the poor patients.

HEALTH CHECK UP CENTRE

392 citizens took benefit of this facility during the year 1972. The health check up centre is open on week days from 6 p.m. to 7-30 p.m. and on Saturdays from 2-00 p.m. to 3-30 p.m.

ANNUAL EXPENDITURE

The total expenditure incurred on the maintenance of the hospital including liabilities at the end of the year amounted to Rs. 1,30,20,122 as against Rs. 1,16,22,340 or the previous year.

Appendices 1 to 8 give the information about the work of the Hospital in Statistical form.

TOPIWALA NATIONAL MEDICAL COLLEGE

The College has been permanently affiliated to the University of Bombay for teaching the courses of studies leading upto M.B.B.S. and Post-graduate examinations.

The College is affiliated with the College of Physicians and Surgeons of Bombay for post-graduate diploma courses.

The College has been affiliated to the University of Bombay for teaching the courses of studies leading to B.Sc. (Audiology and Speech Therapy) Degree examinations.

The number of undergraduate students on the roll at the close of the year was 627 out of which 157 were lady students. The number of post-graduate students was 428 including 155 ladies. Students registered for Diploma courses of the college of Physicians and Surgeons of Bombay were 126 including 42 lady students.

UNIVERSITY AND COLLEGE PRIZES

Name of the Student	Name of the Prize Awarded
College Prize—	
(1) Smt. N. R. Shah	... Dr. L. H. Hiranandani Scholarship for 1972.
(2) Shri S. V. Kunitkar	... Dr. D. V. Patel Scholarship for 1972.
(3) Smt. S. G. Bhatgadde	... Mrs. Jane Patrao Scholarship for 1972.
(4) Shri B. T. Aidasani	... Dr. S. E. Sanker Narayan Iyer's Prize or Scholarship.
(5) Shri D. S. Gandhi	... Dr. A. L. Nair Memorial Scholarship for the year 1972.
For I M.B.B.S. Examination—October 1972—	
(6) Miss N. P. Vaidya	... (1) Dr. D. D. Variava's Prize. (2) Dr. D. D. Sathye's Prize. (3) Dr. S. B. Parchure's Prize. (4) Mahatma Gandhi Memorial Prize. (5) Dr. R. L. Adiga Prize.
(7) Shri R. D. Hodarkar	... Dr. G. P. Nair Scholarship in Embryology Competitive examination held in September 1972.
For II M.B.B.S. Examination—April 1972—	
(8) Shri V. R. Ambhiye	... (1) Dr. V. G. Rele's Scholarship. (2) Dr. S. S. Rau's Prize. ... Dr. Maneck Billimoria Prize.
(9) Smt. M. S. Sequeira	... (1) Dr. H. A. Maniar's Prize. (2) Shri Doongarshi A. Karia's Prize. (3) Dr. W. B. Bhawe Memorial Prize.
(10) Shri I. B. Bandoorkwala	... (1) Dr. A. L. Nair Scholarship in Medicine Competitive Examination for 1972. (2) Dr. A. L. Nair Scholarship in Competitive Examination in Surgery for 1972.
(11) Shri J. G. Gadaria	
For III M.B.B.S. Examination—October 1972—	
(12) Shri G. N. Gandhi	... (1) Dr. F. P. Soonawala Gold Medal. (2) Dr. Parab Memorial Prize.
(13) Shri F. A. Siddiqi	... (1) Dr. A. L. Nair Memorial Gold Medal. (2) Master Vishwanath Narayan Sambhu Scholarship in Competitive Examination in Surgery for 1972.
(14) Shri C. J. Lobo	... (1) Dr. D. B. Pandya's Prize in Books. (2) Smt. Gopikabai Narayan Karande's Prize.
(15) Smt. P. S. Pillai	... Smt. Snehalrani Ranade Paritoshika for girl student.
(16) Shri Y. G. Shah	... Dr. N. V. Ajinkya Midwifery Medal in Competitive examination in Obst. and Gyn. for 1972.
(17) Shri M. S. Baldwa	... Dr. Lalkaka Prize in the Competitive examination in Psychiatry for 1972-73.

UNIVERSITY PRIZES—1972

I M. B. B. S. October 1972—	
(1) Shri D. S. Jhangiani	... Th Gopaldas Khanchand Mirchandani Scholarship.
II M. B. B. S. —April 1972—	
(2) Smt. M. C. Fernandes	... The late Boman and Falli H. Khan Prize (divided amongst 3 students).
III M. B. B. S. —October 1972—	
(3) Shri F. A. Siddiqi	... (1) The J. C. Lisboa Gold Medal and Prize. (2) The Dr. S. R. Moolgaonkar Gold Medal. (3) The Shri Gordhandas Shankarlal Bhalja Prize.

Number of students on roll as on 31st March 1973.

Class	Male	Female	Total
III M.B.B.S. III Term	16	9	25
III M.B.B.S. II Term	75	26	101
III M.B.B.S. I Term	34	6	40
II M.B.B.S. III Term	78	20	98
II M.B.B.S. II Term	32	6	38
II M.B.B.S. I Term	77	30	107
I M.B.B.S. II Term	102	38	140
III M.B.B.S. (Casual)	18	12	30
III M.B.B.S. (Senior)	1	1	2
III M.B.B.S. condensed course student	1	...	1
II M.B.B.S. (Senior)	2	...	2
I M.B.B.S. (Casual)	31	8	39
I M.B.B.S. Condensed course casual	1	1	2
I M.B.B.S. (Irregular)	2	...	2
Total	470	157	627

LIBRARY

The total number of books added to the Library during the year was 978 as against 944 during the previous year. Out of these, 514 were donated to the library.

The library subscribed to 278 periodicals as against 250 during the last year. 93 periodicals were received gratis from the publishers, the Hon. Staff of the Nair Hospital and others. The library, therefore, had 371 current periodicals as against 325 during the last year.

The number of books and periodicals issued on the premises to the undergraduates, postgraduates, the teaching staff of the college and to the post-graduates, teachers and research workers from other institutions, was 99,681 as against 1,09,260 during the last year.

4,834 books, periodicals were issued out for home reading to the teaching and resident staff of the B. Y. L. Nair Hospital and the T. N. M. College as against 3,506 during the last year. 49 bound volumes of periodicals were borrowed from the various institutions participating in the inter-loan scheme and 18 were loaned out to them.

113 books were written off.

The library has at the end of the year 19,016 books as against 18,151 of the previous years and 7,622 bound volumes of periodicals as against 7,603 of the previous year.

RESEARCH SOCIETY.

The Research Society is functioning at this institution for last eight years. Being started from September 1964. Registered under Societies Registration Act, and Public Trust Act. Under Section 35 and 80G of the Income Tax Act of 1961 the Society is exempted from paying income tax.

The assistance of the Society is made available to the members of the staff of the institution in the form of grants sanctioned for Research Activities, arranging facilities for typing of manuscripts, getting colour transparencies prepared, etc.

The Society is managed by the Executive Committee consisting of 15 members including Dean, as Ex-Officio President, Municipal Commissioner as Ex-Officio member and three Co-opted members.

A bi-monthly "NEWS LETTER" is published giving information regarding departmental activities of an academic nature, news about awards or fellowships, scholarships etc. awarded to staff members, new appointments, resignations and retirements etc.

14 Research Projects were sanctioned by the Society during the year under report.

A sum of Rs. 6,720 was received during the year under report from Three different Pharmaceutical Firms for carrying out the clinical trials on their products under the auspices of the Society.

A grant of Rs. 2,500 was received during the year under report as a grant-in-aid from Municipal Corporation of Greater Bombay.

During the year under report 2 New Members enrolled as ordinary members.

During the year under report 7 Lectures and Seminars were sponsored by Society by prominent clinicians and scientists from India and abroad. The Society also arranged Lectures on Course in Medical Statistics for the faculty of staff members.

ANNUAL COST AND REVENUE

The total expenditure of the College amounted to Rs. 27,94,023.04 during the year ending report as against Rs. 20,39,339.34 during the previous years. The net revenue of the college by way of Tution Fees, Miscellaneous receipts etc. amount to Rs. 3,26,818.00 as against Rs. 3,29,514.00 for the previous year.

Dr. M. S. KEKRE,

Dean,

B. Y. L. Nair Charitable Hospital
and Topiwala National Medical
College, Bombay 8.

Dr. BHAJEKAR HOSPITAL

During the year 1972 8,138 new cases were examined, 1,582 patients were admitted for indoor treatment, out of which 388 were Orthopaedic cases.

Total number of operations performed during the year 1972 were 1,194.

The expenditure per patients was Rs. 3.75 per day.

Dr. M. S. KEKRE,

Dean,

B. Y. L. Nair Charitable Hospital and
T. N. Medical College, Bombay 8.

APPENDIX No. 1
Distribution of Beds.

Unit	Male	Female	Child	Total
Medical	107	36	...	143
Surgical	96	36	...	132
Gynaec	...	40	...	40
Obstetric	...	55	...	55
Paediatric	...	...	46	46
Orthopedic	26	10	...	36
E. N. T.	26	10	...	36
Ophthalmic	22	10	...	32
Skin & V. D.	12	4	...	16
Tuberculosis	16	...	...	16
Psychiatry	10	...	...	10
Tetanus	3	2	...	5
Gastroenterology (Medical)	12	4	...	16
Gastroenterology (Surgical)	3	2	...	5
Cardiology	8	2	...	10
Cardiac Surgery	3	2	...	5
Neurology	13	2	...	15
Neuro-Surgery	12	4	...	16
Genito-Urinary Surgical Service	3	2	...	5
Rheumatic	3	2	...	5
Chest Diseases	2	2	...	5
Keratoplasty	2	2	...	4
Thoracic Surgery	3	2	...	5
Plastic Surgery	11	5	...	16
Nephro & Diabetic	6	4	...	10
Renal	2	...	...	2
Intensive Care	5	...	...	5
Medical Students	10	10	...	20
Speciality	2	...	...	2
Total	419	248	46	713

APPENDIX No. 2

Particulars of in-door and out-door patients treated during the year 1972 and 1971, Number of operations, etc.

Particulars.	FIGURES FOR	
	1972	1971
'A' In-patients		
(1) Scheduled strength of beds	713	713
(2) Daily average number of in-patients	854.69	842.30
(3) Total number of new in-patients treated	34,855	32,964
(4) Average number of days each patient was resident	8.97	9.32
'B' Out-patients		
(1) Total number of new out-patients	2,70,723	2,49,329
(2) Daily average number of new out-patients	887.62	814.80
(3) Total number of out-patients attendance (excluding Casualty cases)	12,96,483	10,98,331
(4) Daily average number of out-patients attendance	4,285.41	3,624.32
(5) Total number of Casualty patients	10,568	10,661
'C' Operations		
(1) Total number of Operations on in-door patients	10,677	10,489

APPENDIX No. 3

ACCIDENT CASES

The following table shows the number of accident cases treated during the year under report in comparison with that of the previous year.

Sex.	Treated in casualty Department.		Admitted through Casualty Department.	
	1972-73	1971-72	1972-73	1971-72
Male	7,547	7,680	1,611	1,638
Female	1,647	1,618	641	562
Children	Male	930	413	379
	Female	444	440	257	201
Total	10,568	10,661	2,922	2,780

APPENDIX No. 4.

Statement showing the number of Deliveries conducted at this hospital during the last 10 years.

Year	No. of Deliveries
1962	2482
1963	2490
1964	2621
1965	2540
1966	2694
1967	2696
1968	2667
1969	2098
1970	2453
1971	2418
1972	2696

APPENDIX No. 5

Relative cost per In-patient and Out-patient per day during 1972-73 and previous two years.

Particulars	1972-73	1971-72	1970-71
	Rs. P.	Rs. P.	Rs. P.
In-patient	27.88	25.80	25.03
Out-patient	2.38	2.09	4.15

APPENDIX No. 6

Statement showing the details of cost per In-patient per day for 1972-73 and previous two years.

Year	Diet	Drugs Dressing, etc.	Stores and Linen	Heating Lighting and repairs	Establishment	Total
	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
1972-73	2.62	11.52	1.10	1.28	11.36	27.88
1971-72	2.57	8.82	1.06	0.99	12.36	25.80
1970-71	2.55	7.92	1.18	0.90	12.48	25.03

APPENDIX No. 7

Statement showing the Average Cost per Out-patient per day for 1972-73 and previous two years.

Year.	Drugs Dressing, etc.	Stores and Linen.	Heating Lighting & Repairs.	Establishment.	Total.
	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
1969-70	1.43	0.14	0.18	0.63	2.38
1971-72	1.15	0.13	0.08	0.73	2.09
1970-71	1.95	0.22	0.12	1.08	3.37

APPENDIX No. 8

Summary of In-patients classified according to Department and Sex for the period from 1-1-1972 to 31-12-1973.

Department.	Sex.	In the Hospital on Mid-night of 31-12-72.	Admitted during 1972.	Total.	Discharged during 1972.	Deaths.	In the Hospital on Mid-night of 31-12-72.	
Medical	Male	149	5,885	6,034	5,355	535	144	
	Female	84	2,587	2,671	2,349	239	83	
	Total	233	8,472	8,705	7,704	774	227	
Surgical	Male	82	4,562	4,644	4,326	229	89	
	Female	53	1,490	1,543	1,401	90	52	
	Children—	Male	8	829	837	801	30	6
		Female	3	335	338	312	21	5
	Total	146	7,216	7,362	6,840	370	152	
Ophthalmic	Male	12	464	476	456	...	20	
	Female	10	205	315	300	3	12	
	Children—	Male	...	48	48	44	2	2
		Female	1	25	26	25	...	1
	Total	23	842	865	825	5	35	
Gynaecology	Female	34	1,793	1,827	1,778	10	39	
	Children—	Female	...	11	11	11
	Total	34	1,804	1,838	1,789	10	39	
Skin and Venereal Diseases	Male	8	181	189	183	1	5	
	Female	...	53	53	51	...	2	
	Children—	Male	...	21	21	21
		Female	...	20	20	18	2	...
	Total	8	275	283	273	3	7	
Aural	Male	19	879	898	856	23	19	
	Female	25	683	708	683	9	16	
	Children—	Male	3	436	439	434	1	4
		Female	4	483	487	485	...	2
	Total	51	2,481	2,532	2,458	33	41	
Orthopedic	Male	35	1,267	1,302	1,225	36	41	
	Female	29	537	566	518	5	43	
	Children—	Male	6	319	325	316	1	8
		Female	4	173	177	169	1	7
	Total	74	2,296	2,370	2,228	43	99	
Paediatric	Male	37	2,667	2,704	2,430	231	43	
	Female	32	1,764	1,796	1,570	199	27	
	Total	69	4,431	4,500	4,000	430	70	
Maternity	Female	61	4,753	4,813	4,718	9	86	
	Total	61	4,752	4,813	4,718	9	86	
Tuberculosis	Male	20	967	987	892	78	17	
	Female	...	...	...	...	...	...
	Total	20	967	987	892	78	17	

APPENDIX No. 8—Contd.

Department	Sex	In the Hospital on Mid-night of 31-12-70	Admitted during 1971	Total	Discharged during 1971	Deaths	In the Hospital on Mid-night of 31-12-71
Cardiology (surgical) ...	Male	5	17	22	8	10	4
	Female	...	17	17	4	12	1
Children—	Male	...	4	4	...	3	1
	Female	...	2	2	...	...	2
Total ...		5	40	45	12	25	8
Gastro-Enterology ...	Male	3	74	77	72	2	3
	Female	...	27	27	24	1	2
Children—	Male	...	1	1	1	...	...
	Female	...	...	...	...	...	...
Total ...		3	102	105	97	3	5
Psychiatric ...	Male	14	226	240	225	...	15
	Female	...	...	...	...	...	...
Children—	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
Total ...		14	226	240	225	...	15
Rheumatic and Collegan Disease	Male	1	6	7	7	...	...
	Female	1	12	13	13	...	...
Children—	Male	...	2	2	2	...	...
	Female	...	...	...	...	...	...
Total ...		2	20	22	22	...	...
Neurology ...	Male	8	167	175	152	12	11
	Female	4	46	50	49	1	...
Children ...	Male	...	15	15	13	2	...
	Female	...	3	3	3	...	...
Total ...		12	231	243	217	15	11
Neuro-surgery ...	Male	6	127	133	114	10	9
	Female	6	45	51	41	4	6
Children ...	Male	...	13	13	13	...	...
	Female	...	7	7	6	1	...
Total ...		12	192	207	174	15	15
Plastic Surgery ...	Male	1	30	31	25	1	5
	Female	4	10	14	10	...	4
Children ...	Male	...	9	9	8	...	...
	Female	2	7	9	9	...	1
Total ...		7	56	63	52	1	10
Gastro-Enterology Surgical Service	Male	...	62	62	61	1	...
	Female	...	12	12	12	...	...
Children ...	Male	...	1	1	1	...	...
	Female	...	...	...	...	...	...
Total ...		...	75	75	74	1	...
Thoracic-Surgery ...	Male	...	...	...	...	...	...
	Female	...	1	1	1	...	...
Children ...	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
Total ...		...	1	1	1	...	...

APPENDIX No. 8—Concl.

Department	Sex	In the Hospital on Mid-night of 31-12-71	Admitted during 1972	Total	Discharged during 1971	Deaths	In the Hospital on Mid-night of 31-12-72	
Genito-Urinary Surgical Service	Male	4	44	48	46	...	2	
	Female	1	16	17	17	...	...
	Children	Male	1	3	4	4
		Female	1	1
Total	...	6	63	70	68	...	2	
Thyroid Clinic	Male	...	7	7	7	...	...
	Female	...	6	6	6	...	...
	Children	Male
		Female
Total	...	...	13	13	13	...	...
Cardiology Medical	Male	5	173	178	158	12	8	
	Female	1	86	87	72	8	7	
	Children	Male	1	19	20	20	1	...
		Female	1	11	12	11	1	1
Total	...	8	289	297	261	20	16	
Renal	Male	...	3	3	3	...	...
	Female	...	2	2	2	...	...
	Children	Male
		Female	...	1	1	1
Total	...	...	6	6	6	...	...
Diabetic	Male	...	3	3	3	...	...
	Female	...	1	1	1	...	...
	Children	Male
		Female
Total	...	...	4	4	4	...	...
Grand Total		...	783	3485	35643	3293	1835	855

APPENDIX No. 9

Summary of out-patients classified according to Departments and sex for the year 1972

Department	Sex	O. P. D. New cases	Casualty cases	O. P. D. Old cases	Total Attendance	
Medical	Male	45,382	718	66,083	1,12,183	
	Female	23,669	370	55,506	79,545	
	Total	69,051	1,088	1,21,589	1,91,728	
Surgical	Male	41,037	5,950	62,316	1,09,303	
	Female	10,848	1,083	47,376	59,307	
	Children	Male	10,612	657	36,252	47,521
		Female	5,313	298	30,123	35,734
Total	...	67,810	7,988	1,76,067	2,51,865	

APPENDIX No. 9—Contd.

Department		Sex	O. P. D. New cases	Casualty cases	O. P. D. Old cases	Total Attendance
Ophthalmic		Male	8,544	36	32,829	41,409
		Female	3,295	5	23,786	27,086
	Children	Male	780	3	19,174	19,957
		Female	580	...	16,329	16,909
	Total		13,199	44	92,118	1,05,361
Gynaecology		Female	71,164	8	37,171	44,343
	Children	Female	4	3	...	7
	Total		71,168	11	37,171	44,350
Skin and Venereal Diseases		Male	15,008	2	23,498	33,508
		Female	5,252	...	16,861	22,113
	Children	Male	4,718	...	13,392	18,110
		Female	3,265	...	11,728	14,993
Total		28,243	2	65,479	93,724	
Aural		Male	8,141	29	34,052	42,222
		Female	4,936	2	27,743	32,681
	Children	Male	3,246	3	23,709	26,958
		Female	2,584	...	21,706	24,290
Total		18,907	34	1,07,210	1,26,151	
Orthopedic		Male	6,290	801	25,437	32,528
		Female	3,176	129	17,938	21,243
	Children	Male	1,236	104	14,870	16,210
		Female	692	35	12,522	13,249
Total		11,394	1,069	70,767	83,230	
Paediatric		Male	16,840	163	57,328	74,331
		Female	13,399	108	52,784	66,291
	Total		30,239	271	1,10,112	1,40,622
Maternity		Female	4,668	49	27,925	32,642
	Total		4,668	49	27,925	32,642
T.B.		Male	1,631	5	17,402	19,038
		Female	635	...	13,014	13,649
	Children	Male	1	...	311	312
		Female	1	...	267	268
Total		2,228	5	30,994	33,267	
Psychiatric		Male	1,359	4	14,289	15,652
		Female	772	...	9,536	10,308
	Children	Male	76	...	7,006	7,082
		Female	36	...	5,625	5,661
Total		2,243	4	35,456	38,703	
Cardiology		Male	341	..	2,809	3,150
		Female	184	..	1,767	1,951
	Children	Male	48	..	1,126	1,174
		Female	33	..	842	875
Total		512	..	5,657	6,169	
Gastro-Enterology (Medical)		Male	162	...	2,095	2,257
		Female	57	...	1,373	1,430
	Children	Male	3	...	214	217
		Female	...	...	167	167
Total		222	...	3,849	4,071	

APPENDIX No. 9—Contd.

Department	Sex	O.P.D. New cases	Casualty Cases	O.P.D. Old Cases	Total Attendance	
Gastro Enterology Surgical Service	Male	50	...	814	864	
	Female	10	...	511	521	
	Children	Male	...	...	292	292
		Female	...	...	194	194
	Total	...	60	...	1,811	1,871
Anti-Rabic	Male	1,590	2	15,031	16,623	
	Female	367	1	9,874	10,242	
	Children	Male	621	...	7,441	8,062
		Female	218	...	5,920	6,138
	Total	...	2,796	3	38,266	41,065
Genito Urinary Surgical Service	Male	157	...	955	1,112	
	Female	19	...	400	419	
	Children	Male	1	...	121	122
		Female	1	...	39	40
	Total	...	178	...	1,515	1,693
Preventive and Social Medicine	Male	6	...	206	212	
	Female	2	...	1,504	1,506	
	Children	Male	6	...	933	939
		Female	3	...	739	742
	Total	...	17	...	3,382	3,399
Rheumatic and Collagen Diseases	Male	35	...	746	781	
	Female	62	...	503	565	
	Children	Male	2	...	192	194
		Female	1	...	125	126
	Total	...	100	...	1,566	1,666
Neurology	Male	240	...	1,792	2,032	
	Female	119	...	1,091	1,210	
	Children	Male	31	...	259	290
		Female	12	...	156	168
	Total	...	314	...	3,298	3,700
Neuro-Surgery	Male	199	...	1,527	1,726	
	Female	80	...	941	1,021	
	Children	Male	29	...	530	559
		Female	6	...	351	357
	Total	...	314	...	3,349	3,663
Plastic Surgery	Male	16	...	504	520	
	Female	6	...	286	292	
	Children	Male	3	...	172	175
		Female	9	...	139	148
	Total	...	34	...	1,101	1,135
Physiotherapy	Male	...	...	36,463	36,463	
	Female	...	...	19,340	19,340	
	Children	Male	...	...	5,083	5,083
		Female	...	...	2,728	2,728
	Total	...	...	63,614	63,614	

APPENDIX No. 9.—Concl.

Department	Sex	O.P.D. New Cases	Casualty Cases	O.P.D. Old Cases	Total Attendance	
Occupational Therapy	Male	...	...	20,590	20,590
	Female	...	...	6,003	6,003
	Children	Male	1,694	1,694
		Female	1,205	1,205
	Total	...	...	29,492	29,492
Renal	Male	21	...	157	178	
	Female	8	...	85	93	
	Children	Male	24	24
		Female	15	15
	Total	...	29	281	310	
Thyroid Clinic	Male	40	...	913	953	
	Female	90	...	606	696	
	Children	Male	1	...	323	324
		Female	7	...	221	228
	Total	...	138	2,063	2,201	
Thoracic Surgery	Male	3	...	36	39	
	Female	2	...	19	21	
	Children	Male	18	18
		Female	8	8
	Total	...	5	81	86	
Diabetic	Male	44	...	149	193	
	Female	20	...	71	91	
	Children	Male	7	7
		Female	1	1
	Total	...	64	228	292	
Grand Total		260155	10568	1036328	1307051	

THE NAIR HOSPITAL DENTAL COLLEGE

Summary of the Administration Report of the Nair Hospital Dental College for the year 1972-73.

The total expenditure incurred for running the Dental College-cum-hospital was Rs. 16,73,350.00 as against Rs. 15,49,680.00 during the previous year. Rs. 34,777.16 were spent on the ward of 10 beds for dental in-patients.

Total Collection of Poor Box Fund was Rs. 16,948.47 which was spent for giving drugs, medicines, free teeth sets etc. to poor and deserving patients and employees.

Total revenue of the College was Rs. 1,84,382.65 out of which Rs. 58,690.20 were charges for the treatment given to the patients. The tuition and other miscellaneous fees and receipts amounted to Rs. 1,25,692.45.

Results.

(1) Students and their progress :-

Total No. of students for B. D. S. course (from 1st to Final B. D. S.) ...	239
Total No. of students for post-graduate. studies (M.D.S.) ...	27
No. of students passing B. D. S. ...	54
No. of students passing M. D. S. ...	9

(2) Patients treated :-

Total No. of out-patients treated ...	95,861
Daily average No. of patients (taking 290 as No. of working days). ...	330 (Approximately)
Daily average No. of in-patients ...	4 "
Total No. of new in-patients ...	154

(3) Help to poor patients :

No. of teeth-sets given free ...	1195
No. of partial teeth sets given free ...	631
No. of teeth sets repaired free of charge ...	314

Deficiencies.

There is acute shortage of space as the whole College building is not completed as per plans. Secondly, one of the buildings allotted at Haji Ali for Dental College Hostel is not also getting ready for accommodating the students, for the last 2-3 years, the internal arrangement in the building having been left incomplete.

- Suggestion.

The unbuilt portion of the college building for which plans and funds are already sanctioned, be taken up for construction forthwith. The internal arrangement of the hostel also be completed in order to accommodate the needy students in the hostel.

THE NAIR HOSPITAL DENTAL COLLEGE,

Report For 1972-73

The College conducts four year's course in Dentistry leading to the Degree of Bachelor of Dental Surgery of the University of Bombay. The College also conducts Post-graduate Course in 7 subjects (since June 1959), leading to Master of Dental Surgery.

The College is recognised as Training Centre in India to train candidates for L. D. Sc., R. G. S. (Eng.) Examination and Fellowship in Dentistry Examination of the Royal College of Surgeons, England and Edinburgh.

The admission standard for students is Intermediate Science Examination of the University of Bombay and the course extends for four years.

During the year under report, 54 students including 17 girls passed the Final B. D. S. Examination, and 7 male and 2 female students passed the M. D. S. Examination. There were 239 (including 62 females) and 27 (including 7 female) students on the roll for B. D. S. and M. D. S. Courses respectively.

The following are the principal departments of the College.

- (1) Examination and Treatment Planning Department.
- (2) Exodontia Department.
- (3) Operative Department.
- (4) Prosthetic Department.
- (5) Orthodontia Department.
- (6) Periodontia Department.
- (7) Pedodontia Department.
- (8) Dental Pathology Department.
- (9) Dental Radiology Department.
- (10) Maxillo-Facial and Plastic Surgery Department.

The College has an academic Council to look after the academic affairs of the College.

Special Equipments.

The College has 123 Dental Chairs, 100 Dental Units, 120 Bench Type Engines, up-to-date Operation Theatre and 4 X-Ray Units including one 200 M. A. X-Ray Unit with tomographic facilities for the treatment of dental patients. A Reprovit II(a) Universal Unit has been recently added to facilitate dental photographs for teaching the students.

The College has a Ward of 10 beds specially for Dental in-patients.

Facilities to Students.

The College provides all facilities for indoor and outdoor sports. There is also a Canteen for the benefit of the students and staff of the College. The College has a well equipped Library with thousands of modern books and upto-date Periodicals on Dental Surgery. The Library works from 8-00 A. M. to 10-00 P. M.

Resume of Work done in the Clinics.

Total number of Dental Out Patients treated in the Dental Clinics of the College was 95861 including School Children (in the morning as well as in the evening Clinics), which included 42804 males, 25923 females and 21000 children. Details of the work done in different departments, operations performed, etc., are given in the appendices attached.

During the year under report, revenue of Rs. 184382.65 was collected by way of fees from the students and charges from patients, as against Rs. 1,67,763.72 during the preceding year, 1971-72. The total expenditure incurred came to be Rs. 16,73,350 as against Rs. 15,49,680 during the preceding year.

1195 Complete Sets of Upper and Lower artificial teeth and 631 Partial teeth sets were given to poor and deserving patients free of charge. 314 Sets were repaired and returned to the poor patients free of charge. The teeth sets were given from the Poor Box Fund Collections of the Institution. The total collection of the Poor Box Fund was Rs. 16948.47.

21000 Municipal School Children were treated in the Children's Clinic during the year.

Dr. M. S. N. GINWALLA,
L.D.S.C., D.D.S., M.S.C., F.I.A.O.S., F.A.M.S.,
J. P.,

Dean,
Nair Hospital Dental College.

APPENDIX 'A'

Yearly clinical report from 1-4-1972 to 31-3-1973.

Details	Morning	Evening	Total
New patients treated	28358	11579	39937
Old patients treated	36172	19752	55924
Total patients treated	64530	31331	95861
Male patients	28576	14228	42804
Female patients	21519	10538	25923
Children	14435	6565	21000
Silver filling	3099	2015	5114
Porcelain Filling	98	43	141
Root canal treatment	75	33	108
Gold inlay	48	60	108
Jacket crown	102	128	230
Pulp capping	173	72	245
Apicectomy	11	22	33
Scaling	5628	5415	11043
Gingivectomy	113	43	156
Gingivectomy and Vestibuloplasty	113	43	156
Curettage	67	44	111
Extraction	31688	10019	41707
Roots	339	60	399
Alveolectomy	37	19	56
Flap	34	17	51
Other dental operations	21	27	48
Impacted 2nd Molar	10	17	27
G. A.	1030	...	1030
Bands	85	35	120
Arch prepared	125	16	141
Retention plate	485	498	973
Fixed appliance	17	83	100
Full denture	925	270	1195
Partial Denture	441	190	631
Repairs to denture	244	70	314
X-rays	1802	852	2654

APPENDIX 'B'

Maxillo-Facial and Plastic Surgery Department.

List of Operations during the year 1972-73.

Serial No.	Name.	No. of operations performed.
1	Impaction	198
2	Biopsy	20
3	Fyst	19
4	Oroantral Fistula	9
5	Fracture	73
6	Cild-well-luc	19
7	Benign Tumours	24
8	Plastic Reconstructive Surgery	25
9	Apicectomy	24
10	Alveolectomy	9
11	Alveolar Abscess	17
12	Mandibular Resections	3
13	Cleft Palate	3
14	Osteotomy Mandible	8
15	Rhinoplasty	3
16	Currettage	51
17	Transplantation of Cetine	4
18	Vestibuloplasty	2
19	Hare Lip	2
20	Skin Graft	2
21	Bone Graft	4
22	Condylectomy	4
23	High Condylectomy	2
24	Nerve Avulsion	3
25	C. L. W.	10
26	Gland Excision	3
27	Tongue tie	2
28	Neurectomy	2
29	Himi-Mandibulctomy	1
30	Osteoarthoplasty	4
31	Genioplasty	2
	Operations under L. A.	491
	Operations under G. A.	61
	Total	552

APPENDIX 'C'

Work done in Pathology Department during 1972-73.

	Nos.
No. of surgical and Pathology biopsy	219
No. of Blocks prepared for surg. and Path. Biopsy	260
No. of Pulp (tooth) Blocks	60
No. Pulp slides prepared	500
No. of Fitus, bone, mandible blocks prepared	10
No. of Slides prepared	150
No. of Repeated blocks for class and diagnosis	60
No. of Slide prepared ¹	300
Grand total of paraffin blocks	330
Grand total of paraffin Slides	2000

APPENDIX 'D'

*Works done in the Radiology department**during the year 1972-73.*

Details of Radiographs taken Examined and delivered to the various departments.

1. No. of patients Treated	5473
(i) Intra-oral Radiographs	9938
(ii) Occlusal Radiographs	186
(iii) Extra-oral Radiographs	1415

Lokmanya Tilak Municipal General Hospital and Annapurnabai Deshmukh Hospital for Women & Lokmanya Tilak Municipal Medical College Sion, Bombay 22

SUMMARY OF THE ANNUAL ADMINISTRATION REPORT OF L. T. M. G. HOSPITAL AND L. T. M. M. COLLEGE, SION BOMBAY 22 MEDICAL RECORD DEPARTMENT 1972-73

The Annual Administration Report of the L. T. M. G. Hospital and L. T. M. M. College for the year 1972-73 is summarised as follows:—

HOSPITAL:

I—EXPENDITURE:

	Rs.
(A) 1. Amount spent on In-patients	1,04,09,851.00
2. Amount spent on Out-patients	20,81,970.00
3. Total Expenditure excluding New Works	1,24,45,992.00
4. Expenditure on New Works	45,829.00
(B) 1. Average cost per In-patient per day	34.40
2. Average cost per Outpatient per day	7.43

II—RESULTS:

(A) 1. Schedule Bed Strength	524
2. Daily average In-patients in Wards	838
3. Total number of admission including those brought over from the previous year	43,674
4. Total number of patients discharged:—	
(i) Relieved	26,137
(ii) As Cured	3,366
(iii) Left Against Medical Advice	4,778
(iv) Expired	2,933
(v) Remained in the Hospital on the last day of the year	915
5. Average stay of In-patients	7.1
(B) 1. Total number of New Out-patients	2,51,191
2. Daily average number of New Out-patients	824
3. Total number of Casualty Attendance (Medico-legal)	45,889
(C) 1. Total number of Operations on In-patients	12,728
2. Total number of Operations on Out-patients	18,441
(D) Confinements:	
1. Booked Cases	3,468
2. Emergency Cases	1,158
3. Normal	4,230
4. Abnormal	396
5. Left before delivery	953
6. Neonatal & Maternal Deaths:—	
(i) Maternal Deaths	34
(ii) Still Births	261
(iii) Premature live born infants	189

III.—SPECIALISED TREATMENT :

	Rs.
1. Total number of Admission in Resuscitation Ward	1,033
2. Sterilization :—	
Male	196
Female	560
I. U. C. D. inserted	176

IV.—RADIOLOGY :

1. Total X-rays taken at L. T. M. G. Hospital	56,944
---	--------

V.—BLOOD BANK :

1. Total number of Blood Sample collected :—	
(i) From Voluntary Donors	2,572
(ii) From Professional Donors	1,661
(iii) From other hospitals	257
(iv) From Relatives	584
2. Number of Bottles supplied	4,837
3. Total amount spent from Poor Box Clarity Fund on payment to the Professional Donors and other incidental charges	20,270.50

VI. SCHOOL CLINIC :

(A) Total number of School children treated :—	
(i) New	2,067
(ii) Repeat	10,786
(iii) Referred	809
(B) Total Expenditure on Clinic	78,473.15

VII.—PHYSIO THERAPY :

(A) Total number of attendance at the Centre	13,784
Out-patients	7,447
In-patients	6,337
(B) Students attended from P. T. School, G. S. Medical College	9

VIII.—OCCUPATIONAL THERAPY :

(A) 1. Total number of patients treated at the Centre	11,118
2. Total number of treatments given	88,707
(B) 1. Total number of student attended from O. T. School, G. S. Medical College	11

IX.—DEFICIENCIES :

- 1 Over crowding of patients in the wards.—As against 524 scheduled beds, the daily average in-patients in the ward is 838. The overcrowding is particularly in male medical and surgical, female and children surgical, orthopaedic and paediatric wards.
- 2 Over crowding of visitors in the ward.—Too many visitors come to see the patients, making it difficult for staff to do their routine work.
- 3 Heavy rush in the O. P. D. particularly in the morning hours. On an average 824 patients attend the hospital daily.
- 4 Overall shortage of nursing staff due to and non-availability of residential accommodation.
- 5 Too many clinical units are located in a single ward. Due to this there is no free day for the Sister to get the wards cleaned or to check the stock.

SUGGESTIONS :

- 1 Decentralization of Registry.—At present, the Registration Section has been decentralised in two O. P. D. Departments *viz.* Skin and Psychiatric and found very satisfactory. It is necessary to decentralise it in other remaining departments also.

The O. P. D. Case papers at present are handed over to the patients to be retained with them.

This system has helped in minimising the waiting time of the patients to get the papers.

- 2 Accident Service.—Indian Red Cross Society have offered the van which is at present being used as Flying Maternity Squad.

The Standing Committee have accorded sanction to take over the services and in order to put it to most economic use to utilise the van for accident services also.

COLLEGE :**1. ANNUAL EXPENDITURE AND REVENUE:**

(A) 1. Total Expenditure including expenditure on hostel	Rs.	17,21,811.43
2. Revenue from Tution fees, Hostel Rent and Miscellaneous Receipts	Rs.	1,34,201.60
3. Revenue from Post-graduate fees	Rs.	5,780.00
(B) 1. Income from Hostel	Rs.	11,970.00
(C) 1. Gross cost per student	Rs.	5218.00
2. Net cost per student.	Rs.	435.00

2. STUDENTS:

(A) 1. Total students admitted:—270 including 60 New Admission.

2. Number of Students in the different Classes.

	Male	Female	Total
(i) 1st M.B.B.S. 1st term ... ..	...	...	...
(ii) 1st M.B.B.S. 2nd term }	35	25	60
3rd term }	8	5	13
(iii) 2nd M.B.B.S. (I, II & III terms)	73	41	114
(iv) 3rd M.B.B.S. (I, II & III terms)	58	25	83

INTERNS:

Total No. of Undergraduates 27 26 53

Total No. of Post-graduates including Research Students
(D.CH., D.G.O., M.Sc. etc.) 27 30 57

(B) 1. Average age of student ... ..	...17 years.
(ii) at the time of admission ... ..	...17 years.
(iii) at the time of S. S. G. ... ..	...15 years.

2. Marital Status at the time of Admission;—

(i) Married	1
(ii) Bethrothed	Nil.
(iii) Single	59

Dr. V. N. PANSE,
DEAN,
L. T. M. G. Hospital, Sion,

L. T. M. G. HOSPITAL AND L. T. M. M. COLLEGE

The Lokmanya Tilak Municipal General Hospital, Sion, has completed 25 years of its existence in the year 1972-73. A short report of the staff position and the work done in the various departments of this institution during the year under report is given below:—

In the year 1972-73, the Lokmanya Tilak Municipal Medical College has completed 7 years imparting medical education to the students. Its affiliation to the University of Bombay has been further extended upto June 1973. The permanent affiliation is subject to the fulfilment of the conditions laid down under the University letter *vide* No. Aff/Recog/6484 of 15-4-1971 when the college building is ready for occupation which is the main condition for the affiliation.

The College now a fullfledged institution for under-graduates was inspected by the Medical Council of India in October 1970. However their report granting recognition is awaited.

Imporant changes about the Staff and Department s and report about the work done during the year in the institution is given below.

ADMINISTRATION

Dr. V. N. Panse, M.D., took over the charge of the post of Dean on 25-9-1972 relieving Dr. M. S. Kekre, B.Sc., M.B.B.S., M.Sc. (Med.) who was transferred as a Dean at T. N. Medical College and B. Y. L. Nair Charitable Hospital.

Dr. (Smt.) A. S. Punde, M.D., has continued to hold the post of Superintendent L. T. M. G. Hospital.

TEACHING AND ADMINISTRATIVE STAFF

New Appointments, transfers, promotion, study leaves.

New appointments during the period from 1-4-1972 to 31-3-1973.

(1) Shri M. M. Rajyadhyaksh, M.sc., Lecturer in Biochemistry ...	Appointed from	11-7-1972
(2) Smt. S. M. Varde, Dip. in M.S.w., Lecturer in M. S. Work ...	..	20-6-1972
(3) Dr. (Smt.) S. R. Gaunekar, M.B.B.S., Lecturer in Forensic Medicine ...	..	20-6-1972
(4) Dr. K. P. Deodhar, M.D., Prof. of P. & B. (Microbiology) ...	..	20-6-1972
(5) Shri N. G. Joshi, M.sc., Reader ... ..	..	20-6-1972
(6) Dr. (Smt.) A. A. Agashe, M.B.B.S., Lecturer in Pharm ...	..	20-6-1972
(7) Dr. (Smt.) C. K. Chauhan, M.D., Lecturer in Pharm ...	..	24-7-1972
(8) Smt. V. V. Utharkar, M.sc., Lecturer in Biochemistry ...	..	13-7-1972
(9) Smt. K. M. Herlekar, M.sc., Lecturer in Biochemistry ...	..	14-8-1972
(10) Dr. V. A. Rane, M.D., F.C.P.S., B.Sc., (Med), M.Sc. (Med.), Asstt. Prof. of Physiology ... ..	..	4-9-1972
(11) Dr. (Smt.) M. M. Kekre, M.B.B.S., D.P.H., Prof. in Preventive and Social Medicine ... ..	..	25-9-1972
(12) Dr. S. S. Ainapure M.B.B.S., Lecturer in Pharm ...	..	12-10-1972

(13) Dr. V. T. Nagle, M. S., (Surgical), Sr. Registrar	....	Appointed from	11-8-1972
(14) Dr. (Smt.) A. A. Fernandes, M.D., (Paed.), Asstt. Prof. of Paed	..	..	10-10-1972
(15) Dr. (Smt.) C. K. Chauhan, M.D., Asstt. Prof. of Pharm	...	..	13-11-1972
(16) Dr. H. H. Shah, M.B.B.S., Lecturer in Anatomy	... ..	..	16-11-1972
(17) Dr. S. E. Chunia, M.S. (Orth.), Sr. Registrar	... ..	Transferred to T. N. Medical College from	15-1-1973
(18) Dr. (Smt.) L. N. Bhide, M.S., Asstt. Prof. of Surgery	... ..	Resigned.	... 1-2-1973

HONORARY STAFF

(1) Dr. C. T. Patel, M.S., F.R.C.S., Hon. Surgeon & Hon. Professor of Surgery.	Appointed from	1-4-1972	
(2) Dr. S. R. Karmarkar, M.S., F.R.C.S., Hon. Asstt. Prof. of Surgery	..	13-6-1972	
(3) Dr. P. N. Kelkar, M.D., Hon. Asstt. Prof. of Medicine	...	19-6-1972	
(4) Dr. A. C. Shah, M.D., Hon. Asstt. Physician and Hon. Asstt. Prof. of Medicine.	..	19-6-1972	
(5) Dr. M. V. Pai, M.S., Hon. Asstt. Surgeon	Transferred at T. N. Medical College from	6-10-1972
(6) Dr. D. K. Dastur, M.S., Hon. Asstt. Surgeon	Relieved from	15-11-1972
(7) Dr. S. P. Nadkarni, M.S. Hon. Asstt. Surgeon, Afternoon O.P.D.	Appointed from	15-11-1972	
(8) Dr. P. M. Jhaveri, M.S., F.C.P.S., Hon. Asstt. Surgeon	Relieved from	12-1-1973

On leave for Training Abroad

(1) Dr. A. K. Kale, M.D. (Pharm).	... ..	..	on leave for training in abroad for one year from 26-6-1970. Fellowship offered by the Ford Foundation Women's Hospital, California.
(2) Dr. R. L. Thatte, M.S., Honorary Assistant Surgeon	... ..	..	On leave for training in abroad for two years from 25-5-1971. Cook Country Hospital, Chicago Fellowship in Burn-Surgery.
(3) Dr. B. V. Mehta, M.S., Hon. Asstt. Orth. Surgeon	... ..	..	On leave for one year from 26-6-1971, Resident Fellowship at the United Hospital Orth. Centre, New York U.S.A.
(4) Dr. D. B. Pahalajani	... ..	..	On leave for two years from 16-6-1972 to 18-6-1974 as per M.C.'s sanction No. MDA/8637/of 30-4-1972.
(5) Dr. A. N. Saraf, Asstt. Prof. of Obst. & Gyn.	... ..	..	On leave as E. L. for 102 days from 1-7-1971 to 10-10-1971, H. P. L. for 120 days from 11-10-1971 to 7-2-1972; L.W.P. for one year and 21 days from 8-2-1972 to 28-2-1973 for going to U. S. A. for study at Saint Agnes Hospital, Philadelphia University for getting acquainted with modern techniques of treatments etc.

ADMISSIONS

No change in intake capacity, *i. e.* 60 students. Number of undergraduate students on roll on March 1973 was 270 and that of post-graduate students was 144.

EDUCATIONAL ACTIVITIES

Besides regular teaching programme monthly schedule meeting and clinical cardiology conferences were held regularly. Scientific and educational films were shown to the staff and students.

Students from Universities other than Bombay were allowed to undergo-post-examination training as Interns at the L. T. M. G. Hospital.

Results of examinations are shown in Appendix—I. General performance of students continued to be good.

The names of the winners of college prizes or awards for their academic performance are shown in Appendix—II.

List of research work conducted in pre and para-clinical departments is given in Appendix—III.

As the College building is not ready for occupation, these departments continued their stay in the hospital O. P. D. building.

Full time departments of Medicine, Surgery and Anaesthesiology are functioning well.

RESEARCH SOCIETY

The Research Society is functioning in these institution since August 1966. It is recognised under Societies Registration Act and Public Trust Act. It is also exempted from paying income-tax. Medical officers working in these institutions including Honoraries, Asstt. Honoraries and full-time Medical officers upto the level of Sr. Registrar, Tutors, Lecturers are members of the Society. Annual subscription for each member is Rs. 25. Total number of membership on 31st March 1973 was 121.

Affairs of society are managed by the Executive Committee comprising of 12 members including the Dean as Ex-Officio president. Assistance of Society is made available to the members of the staff for their research activities by sanctioning suitable grants and arranging the typing of their research papers.

Society also arranges monthly scientific meetings and lectures by eminent personalities in the field of Medicine and allied subjects.

LIBRARY

The working hours of the library at present are from 8.30 a.m. to 10.00 p.m. on week days, 8.30 a.m. to 7.00 p.m. on Saturdays. It was closed on Sundays and Holidays but now it remains open from 9.00 a.m. to 4.00 p.m. on Sundays and Holidays except on the O. P. D. Holidays.

During the year approximately 498 books and 300 bound volumes of the journals have been added to the collection. Subscription is paid for 262 titles of the journals. 65 journals are received as complimentary/gratis/donated copies.

The number of books and periodicals issued on the premises is approximately 43,905 and home issues are 2,450.

From the L. T. M. M. College the Budget Grant sanctioned is Rs. 97,000 and from L. T. M. G. Hospital a grant of Rs. 67,000 has been sanctioned for the Library for the year 1972-73.

HOSTEL

51 boys and 17 girls are given accommodation in the hostels.

ANNUAL COST AND REVENUE

The total expenditure of College amounted to Rs. 3,80,556 during the year ending report excluding establishment as against Rs. 2,74,263 during previous year. The net revenue of the College by way of tuition fees and miscellaneous receipt etc. amounted to Rs. 1,34,201 as against Rs. 1,34,501 for previous year.

AFTERNOON OUT PATIENT DEPARTMENT

Four out patient departments have been started from 6-10-1969. The working hours are from 2.00 p.m. to 6.00 p.m. 44,148 patients were treated in the Afternoon O. P. D. in the year 1972-73. The departments are

- (1) Medical.
- (2) Surgical.
- (3) Orthopaedics.
- (4) Paediatrics.

INDOOR PATIENTS

The schedule bed strength of this hospital is 524. The distribution of beds according to the departments is shown in Appendix No. V. 43,007 patients were admitted for indoor treatment during the year as against 44,656; 44,755 and 40,541 during the preceding 3 years respectively. Decrease in the number of admitted patients during the year, as compared to the last year is due to Municipal Employees Strike.

The department wise distribution of 43,007 admitted patients plus 667 patients of previous year remaining as on 31-12-1971 is given below along with respective figures of previous year.

Serial No.	Name of the Department	Patients treated	
		1971	1972
1	Medical.	12,231	11,635
2	Surgical ...	10,887	9,890
3	E. N. T.	1,429	1,637
4	Ophthalmic ...	796	878
5	Skin ...	79	77
6	Dental ...	4	5
7	Paediatric ...	7,764	7,351
8	Psychiatric ...	246	264
9	Orthopaedic ...	2,117	2,719
10	Gynaec ...	1,725	1,636
11	Obstetrics ...	7,378	6,915
	Remaining as on 31-12-1970	936	667
	Total	45,592	43,674

The results of treatments are:—

Hospital	Cured	Relieved	Otherwise	Delivered	Left before delivery	Expired	Remaining as on 31-12-1972
L. T. M. G. Hospital ...	2967	25349	3044	...	...	2899	806
Annapurnabai Deshmukh Hospital for Women ...	399	788	1734	4592	953	34	109
Total ...	3366	26137	4778	4592	953	2933	915

In addition to 2,933 death among adults, there were 477 deaths due to prematurity, stillbirth and other causes of prenatal and neonatal mortality. The classification of deaths according to their time of admissions is given below:—

Within 24 hours of Admission	After 24 hours of Admission but within 3 days	After 3 days of Admission	Total Deaths
1,349	567	1,017	2,933

OUT-PATIENTS

The Out-patients Department have worked for 303 days during the year under report. The system of handing over the O. P. D. papers to patients has been started since December 1969. 2,51,191 new patients have taken treatment from the various out patient departments during the year under report.

The highest In-patient and Out-patient attendance (only new attendance) on a single day was 994 and 968 respectively.

PAYING PATIENTS

The scheme was given effect from 1st September 1951. Rs. 6 per patient per day is being charged for the general paying ward. The number of patients admitted under the scheme during the year under report as compared with the last two years is given below:—

Particulars	1970	1971	1972
(1) General Paying Ward and B. E. S. T. patients ...	1,057	1,161	988
(2) No. of Operations performed on Paying Patients:—			
(a) Major ...	225	204	256
(b) Minor ...	278	312	272

CASUALTY DEPARTMENT

45,889 accident and other emergency cases were treated in the Casualty Department during the year under report.

MINOR SURGERY DEPARTMENT

18,441 minor operations were performed in the Minor Surgery Department during the year under report.

PATHOLOGY DEPARTMENT

2,51,264 investigations were carried out in the Department of Pathology and Bacteriology in 1972. 1,100 autopsies were performed during the year under report.

ANAESTHESIA DEPARTMENT

During the year under report the total number of patients who received anaesthesia in various theatres and the Minor Surgery Department of this hospital was 10,953.

An Anaesthesia O. P. D. has been started in this hospital. Cases for operation are examined, reviewed and prepared for anaesthesia. This has started from October 1972. The attendance is 30 cases per week. For want of space this is only for General Surgery Cases. When additional space is available this service will be extended to various other specialities.

ELECTROCARDIOGRAPHY DEPARTMENT

10,481 Electrocardiographic tracings were taken during the year under report including 488 vectorcardiograms.

HEALTH CHECK UP CENTRE

The Centre works from 6.00 p.m. to 7.30 p.m. on week days and 2.00 p.m. to 4.00 p.m. on Saturday. It is closed on Sunday and Bank Holidays. The health of a person in apparent good health is checked up and all routine examinations such as Blood, Urine, Stool, Screening etc. are carried out on payment of Rs. 10. A card showing the results of the various investigations is given to the person. Special investigations such as X-Ray etc. are carried out if required. During the year under report 187 persons have taken advantage of the same.

During the year 1972-73 the total receipt was Rs. 1,870 whereas the expenditure incurred was Rs. 3,900 as against total receipt of Rs. 2,360, Rs. 2,120, Rs. 2,280 and expenditure of Rs. 3,162, Rs. 3,700, Rs. 3,900 during preceding three years.

The Medical check up scheme is an absolutely voluntary scheme for the patients to come on their own to the check-up centre.

X-RAY DEPARTMENT

The work done in the X-Ray Department during the last 3 years is as follows:—

Serial No.	Particulars	1970	1971	1972
1	X-Ray (No. of films)	26,057	28,795	56,944
2	Screening	23,542	No-Record	
3	Barium Meals and Enemas	1,227	1,434	1,489
4	Special investigations	1,302	1,347	1,396
5	Other misc. investigations	1,223	1,132	34,080
6	Deep X-Ray ... ..	...	123	528

DENTAL DEPARTMENT

17,939 patients were treated in the Dental Department during this year for various tooth troubles.

Anti Rabic Department

3,805 patients were treated in the Anti Rabic Department during the year under report.

Blood Bank

The total number of blood samples collected from voluntary donors was 2,572 and from professional donors was 1,661. The number of blood samples supplied for transfusion during the year was 4,837.

Physiotherapy & Occupational Therapy Department

The work done in these departments during the year under report is shown below. (O. P. D. & In-patients).

Serial No.	Department	No. of Patients	No. of Visits
1.	Physiotherapy Department	13,784	1,07,190
2.	Occupational Therapy Department	11,118	88,707

A sheltered workshop has been started in December 1969, for severely disabled patients including paraplegics and amputees. Tailoring, mending of hospital linen, embroidery work and chair caning work is done by the patients referred to this Department. Each patient earns a minimum of Rs. 80 each month. In the month of March our patients participated in the World Day of disable sports and in the month of May our paraplegics participated in the IV National Wheel Chair games in Poona and won many prizes.

One of our paraplegic patient participated in the Paralympics held in Heidelberg, West Germany. Mr. S. T. Bhat, Head of the Occupational Therapy Department, accompanied the paraplegic.

Audiology & Speech Therapy Department

This department has been started from January 1970. During the year 1972, 1,552 patients have taken advantages of the department and the total number of visits were 2,830.

A sound proof audiometry room is being planned so as to optimise intake of patients for speech audiometry.

Family Planning Centre

A family planning centre is run here for the benefit of the patients attending the hospital. The work done in this centre during the year under report is as follows:—

1. No. of vasectomy operations performed	...	...	...	...	196
2. No. of Sterilization operations performed	...	...	...	...	560
3. No. of loops inserted	...	...	...	...	176

Contraceptives such as Jelly, Foam tubetests, Applicators, Diaphragm and Condom were also given.

School Clinic Department

School Clinic Department has started from 8th July 1965 at this hospital, 2,067 New and 10,786 old cases from 242 different Municipal Schools from the suburbs, 53 City schools, 125 New and 235 Old cases from 10 different Secondary Schools were treated during the year under report. 52 tonsil operations and 7 other operations were performed on School children. Spectacles have been given to 104 students. Medicine worth Rs. 14,838.47 were supplied to the children during the year.

Medico Social Service Department

The work done by the Medico Social Service Department during the year 1972 is as follows:—

1. No. of cases given medical help	...	...	...	...	50,522
2. No. of T. B. cases handled for medical help and follow-up	...	...	...	...	793
3. No. of physically handicapped cases, illegitimate cases etc., for rehabilitation	...	...	...	...	862
4. No. of cases given old clothes	...	...	...	...	368
5. No. of voluntary donors motivated by Medical Social Worker	...	...	...	...	566

Physically handicapped, deaf and blind handled by M. S. W. 's participated in the sports organized to celebrate the World Day of the disabled in the month of March and fifteen prizes were bagged by them.

Preventive & Social Medicine Department

Undergraduate training.—Training extends from 1st M.B.B.S., IInd term to IIIrd M.B.B.S., IIIrd term and Public Health Training programme of 3 months during the internship period.

The department has instituted Mobile Medical Care for Slums areas on receipt of donation of Mobile Medical Van by B. P. C. C. at an approximate cost of Rs. 92,000 at the hands of Smt. Indira Gandhi, Prime Minister of India, in November 1972.

Students actively involve themselves in conducting socio economic & health, surveys in Raoli camp slums. Besides Antop Hill slums, Ghatla Village in Chembur have been adopted for welfare activities.

Family Health & Welfare

School Health:—

Sion Koliwada:— upper primary municipal School
680 children medically examine
280 were defective.

Immunization:— T. A. B. Cholera ...400
Smallpox ...350
D. T. ...215

Sadhana Vidyalaya: 292 students medically examined,
60 were defective.

Immunization:— Smallpox ...400
D. T. ...125

Health Education:—

School : Ten film shows. 20 health talks including one by dietician on various public health subjects.

Community : Health talks, film shows, follow-up of cases having medico-social problems.

Child Welfare Centre : Baby show with 65 participates food demonstration sessions.

Smallpox Eradication Intensification week 5,000 people were vaccinated by undergraduates in one week in slum areas.

Blood donation drive:—Medico Social Workers motivated voluntary donors special donation drives were arranged in other colleges.

Field visits were arranged for the undergraduates to F. C. I., ESSO refinery and Dadar Sewage plant and Tata Textile Mills creche.

Internship Programme :—

The Professor of Preventive & Social Medicine is in-charge of the total administration & organization of P. H. Training programme. During the Urban internship programme, interns were placed in different units of the Diagnostic Centre at Rawli Camp, the administration of which is with the Professor of Preventive & Social Medicine during this period, they involved in Eligible Couple Survey in the slum areas.

Medical relief in scarcity Areas of Maharashtra was a feature of the Rural Internship Programme. Interns were sent to two Scarcity areas viz. Baramati Taluka in Poona district and Jath and Atpadi Talukas in Sangli district.

The work done in Scarcity areas is as under :—

Name of Centre	No. of work sites covered	Patient given Medical Aid	Workers given Tetanus Toxioid
Baramati	131	22,641	6,431
Sangli	122	19,689	5,045

Medico Legal Cases

During the year under report the Resident Medical Officers attended the following courts for giving evidences in Medico Legal Cases.

1. Presidency Magistrate's Courts in Bombay	...	...	...	859
2. Sessions Courts	...	...	...	31
3. Thana Court	...	...	...	5
4. Bombay City Civil Court	...	...	...	1
5. Panvel Court	...	...	...	1
6. Dahanu Road Court	...	...	...	1
7. The President Board of Enquiry, C/o. Chief Security Office, Naval Dockyard, Bombay	...	...	...	1
8. Departmental Enquiry, Asstt. Commissioner of Police, 'F' Division	...	...	...	1
9. Departmental Enquiry Asstt. Commissioner of Police, 'D' Division.	...	...	...	1

2,661 injuries certificates were issued to the various Police Stations.

Flying Maternity Squad

The Flying Maternity Squad donated by the Indian Red Cross Society, Bombay Branch is rendering valuable service to female patients in difficult labour cases.

The service is kept alert round the clock. One Registrar and One Staff Nurse is attached to the squad. Whenever a medical practitioner in city or suburbs finds that a maternity case need immediate special attention such as supply of oxygen, blood transfusion or hospitalization a call can be made on phone 476381 and the Flying Maternity Squad reaches there within the minimum time and provides the necessary assistance.

During the year under report, the squad has attended 63 calls.

Dispensary

The dispensary work carried out in the Dispensary of this hospital during the year under report is as follows: -

1. Out-patients	...	...	...	...	2,92,112
2. In-patients	...	...	...	...	337
3. Special prescriptions	...	...	...	...	302

Department of Pharmacy

Various types of parenteral fluids are being prepared in the Pharmacy Department of this hospital. During the year under report 62,631 bottles (of 500 cc each) and 10,616 vials (5cc, 50cc, 100cc, 20cc.) of various types of fluids were manufactured. In addition to this other miscellaneous items such as liquid soap, Enema soap etc., are also prepared. The department also provide sterile supplies of linen, Lumber puncture sets etc.

Nurses Training School

During the year under report 46 students nurses were admitted for training in General Nursing and 39 for Midwifery. 41 and 40 nurses were sent for General nursing and Midwifery examination out of which 35 and 37 have passed respectively.

Ambulance Service

The Casualty Department has been shifted in the College building from 21st September 1970 and round the clock ambulance service is maintained for reaching the admitted patients to the various wards.

Poor Box Charity Fund

The amount in the Poor Box Charity Fund as on 31st March 1973 stood at Rs. 2,87,570.75. Collection from the Boxes donations, sale of drugs and injections and other miscellaneous receipts during the year amounted to Rs. 1,45,045.50 and expenditure through the Poor Box Charity Fund was Rs. 90,055.15. The total amount in the Fund as on 31st March 1973 stood at Rs. 3,42,561.10.

The list of persons who have donated over Rs. 50 is given in Appendix No. VI.

Certificates

5,005 certificates of different types were issued to the patients during the year under report.

Special Facilities for Municipal Employees

Separate counters have been reserved at the Registration Department and the Dispensary and Afternoon O. P. D. from 4.00 p.m. to 5.00 p.m. for the Municipal Staff at this hospital.

Gift Shop

A Gift Shop for the benefit of the patients has been started in the Dispensary of this Hospital, which is one of the activities of the Poor Box Charity Fund and the proceeds realised therefrom are utilized for the benefit of the poor patients attending the Hospital. During the year under report, medicines worth Rs. 27,949.80 were sold from the Gift Shop.

Expenditure

The approximate expenditure of the Hospital for the year 1972-73 was Rs. 1,24,91,821.00. The details of the expenditure per patients per day as compared with last 2 years is given below:—

Expenditure per Out-patient per day

Year	Medicines Drugs Equipment	Stores and Linen	Heating and Lighting	Miscell- aneous	Repairs to Bldgs.	Establi- shment	Total
1970-71	1.16	0.28	0.07	0.11	0.01	2.30	3.93
1971-72	1.72	0.39	0.11	0.74	0.05	3.30	6.31
1972-73	1.56	0.54	0.17	0.82	0.38	3.96	7.43

Expenditure per In-patient per day

Year	Diet.	Medicines Drugs Equipment	Stores and Linen	Heating and Lighting	Miscell- aneous	Repairs to Bldgs.	Establi- shment	Total
1970-71	2.08	5.80	1.40	0.35	0.55	0.05	11.50	21.73
1971-72	2.00	6.78	1.53	0.45	2.91	0.22	12.90	26.79
1972-73	2.27	8.05	2.23	0.70	3.34	1.54	16.27	34.40

Dr. V. N. PANSE
Dean
L. T. M. G. Hospital,
Sion, Bombay.

APPENDIX-I

RESULTS OF DIFFERENT EXAMINATION.

Year	Examination	Appeared	Passed	% of Passing	Stood First	Marks Secured
April-72.	Ist M.B.B.S.	11	11	100.00	Mr. Doshi A. P.	484
	IInd M.B.B.S.	48	44	91.66	Mr. Gore A. G.	412
	IIIrd M.B.B.S.	20	17	85.00	Mr. Patel J. D.	611
October-72.	Ist M.B.B.S.	57	50	84.02	Smt. Subramanium L. S.	441
	IInd M.B.B.S.	22	20	91.00	Snri Shah M. V.	313
	IIIrd M.B.B.S.	46	36	78.03	Shri Bhansali S. K.	626

APPENDIX-II

Prizes and Awards won by the students of our College during 1972-73

- (1) Shri D. D. Dave won the silver medal at the Maharashtra Weight Lifting Competition for juniors in the Heavy-weight Class, this year.
- (2) Shri Anand B. Kulkarni took the "Second" place in the singing competition held by the Junior Jaycees (Malabar Hill).
- (3) Shri Anand B. Kulkarni won the first prize (individual) in the elocution competition arranged by the "World University Service".
- (4) Shri Anand B. Kulkarni won the "First" prize in "Light Vocal Music" competition in the "Mood Indigo 1972". The competition was arranged by Indian Institute of Technology.
- (5) The Lady Ray Scholarship was awarded to Smt. N. D. Prabhu of our College.
- (6) Sir James Fernandes Scholarship was awarded to Smt. Subramanium L. S.
- (7) Smt. Francesca B. Tavares of this college won The Lord Fergusson gold medal and prize; and also got the lady Ratanbai Ratanjee Lentin Scholarship.
- (8) Smt. Padmaja R. Varma of this College secured a distinction in Pathology in the IInd M.B.B.S. Examination held by the University of Bombay, in April 1973.

APPENDIX-III

List of Research Projects in pre and paraclinical department.

DEPARTMENT OF MEDICINE

The clinical and research activities of the department have continued to increase. The department has undertaken following two research projects financed by Staff Society of L. T. M. G. Hospital, they are (i) Truncal and generalised obesity pattern in Indian subjects (ii) Lactic acid curve pattern in siblings of diabetic patients. There were 8 monthly clinical meetings, 7 death conference meetings and 30 journal review meetings during the year 1972-73. The department has introduced multiple choice quiz tests at the end of each clinical term.

- (1) Professor Divekar participated in the panel discussion for diabetic patients held on 21st April 1972 under the auspices of Diabetic Association of India.
- (2) He also participated in a group discussion on Internship training programme, arranged at the Joint Conference for Advancement of Medical Education, in India, held at J. J. Group of Hospitals Bombay on 8th October 1972.
- (3) Professor Divekar was invited to give a guest lecture on acute Renal failure to the P. G. Student of Grant Medical College on 25th November 1972. Professor Divekar was also invited to write a chapter in Marathi on 'Kidney diseases' for the text-book of Medicine in Marathi, to be published by the Maharashtra Universities Book Production Board, Nagpur. The work has been duly completed and handed over to the Board.
- (4) Professor Divekar and P. Sundaram presented a study of Snake bite cases at the Seth G. S. Medical College, Bombay on 11-11-1972 when Professor Sawai from Tokyo University was present.
- (5) Professor Divekar was coopted as member for the Scientific Subcommittee of Association of Physicians of India. The Annual conference of Association of Physicians of India held at Udaipur on 27-1-1973 was attended by Dr. M. V. Divekar, Dr. P. Sundaram, Dr. A. B. Mehta, Dr. I. A. D'cruz and Dr. M. J. Gandhi. They presented papers of clinical and research interest Professor Divekar chaired a panel discussion on Nutritional problems in renal failure and Dr. P. Sundaram read a paper on Histopathologic study and clinical follow up of cases of Nephrotic Syndrome.

- (6) The full-time department of Medicine has actively participated in drought relief work (Medical) sponsored by Maharashtra State Scarcity Relief Committee. Dr. M. V. Divekar and Dr. (Miss P. Sundaram went to Baramati, as leader of the medical team for a period of two week each (11th Feburary to 10th March 1973) and gave medical relief to about 6,000 villagers and workers.

PUBLICATIONS OF DR. IVAN A. D'CRUZ

- (1) D'Cruz I. A. and Gheewala S. M.:
Cardiovascular disease in Pregnant and Puerperal Indian Women. Paper read at Asian-Pacific Cardiology Congress, Singapore, October 1972.
- (2) D'Cruz I. A., Dr. Gandhi M. J. and Dr. Govindan V.:
Electrocardiographic abnormalities in Premenopausal women without rheumatic, congenita and hypertensive heart disease. Paper read at Asian-Pacific Cardiology Congress, Singapore October 1972.
- (3) D'Cruz I. A., Dr. Cooverji N. D. and Dr. Dashmukh S. D.:
Anomalies of Ventricular Complex in Atrial fibrillation. Ind. Heart J. In press, 1973.
- (4) D'Cruz I. A., Dr. Cooverji N. D. and Dr. Panjani:
Ventricular rhythm in Atrial Fibrillation. Ind. Heart J. In press, 1973.
- (5) D'Cruz I. A., Dr. Pahlajani D. B., Dr. Govindan V. and Dr. Shah N. K.:
Repetitive Ectopic Atrial Tachyarrhythmia, Paper read at Annual Conference of Cardiology Society of India, Udaipur, 1973.
- (6) D'Cruz I. A.:
Cardiomyopathy—Its present status, in Indian year Book of Medical Sciences, in Press, Bombay 1973.
- (7) D'Cruz I. A. and Shah K. D.:
Handbook of Cardiology, In Press, Bombay 1973.

Following eminent persons visited the department of Medicine.

- (1) Dr. A. Moris, Medical Director, La Serrier Laboratories France, Visited the hospital on 9th June 1972 and gave a lecture on metabolic effects of fenfluramine in obesity.
- (2) Dr. R. J. Vakil, Cardiologist, Emeritus Professor of Medicine, Seth G. S. Medical College, Bombay visited the hospital and gave a lecture on history of medicine, on 2nd September 1972.
- (3) Dr. R. L. Vander Horst, University of Natal, visited the hospital and gave a lecture on 25th September 1972.
- (4) Professor Yoshio Sawai Institute of Medical Sciences, University of Tokyo, Japan, visited the hospital on 18-11-1972 in connection with the studies on incidence and types of Snake-bites in L. T. M. G. Hospital during the years 1965 to 1970.
- (5) Dr. W. Sircus, Gastroentecology Unit of University of Edinburgh at Western General Hospital visited on 18-11-1972.
- (6) Dr. Manabu Idomma, Dep. Path. Gunma University Medical School, Gunma Japan, visited on 18-11-1972.

PLASTIC SURGERY SECTION

The following paper has been presented at Staff Society.

- (1) Dimensions of Nasal Profile in Indians.

Research work being undertaken regarding:—

- (1) Dimensions of Nose in Indians.
- (2) Aetiology of Burns in North East, Bombay.
- (3) Incidence of Cleft Palate and Lip in North East, Bombay.
- (4) Treatment of Myositis in the Elbow Region Following Burns.

PHYSIOLOGY DEPARTMENT

The following Research Problems were undertaken by this Department:—

- (1) Physiological factors governing sex ratio in mammals.
- (2) Mechaniam underlying noetrial rhythm of respiration.
- (3) Effect of oral contraceptives, yogic exercise and fermented drinks on blood fibrinolytic activity.
- (4) Mechanism underlying natriuretic response to acute Vol. expansion.

Completed Work:—Changes in serum protia level in immediate post-operative period.

DEPARTMENT OF PHARMACOLOGY

Papers Published:

- (1) Sensitization procedure and blood sugar concentration. J. Pharm. Pharmac. 24, 249, 1972.
- (2) Relationship of antigenic sensitivity of histamine and 5 H. T. to blood sugar level in Rats Ind. J. Pharmacol 4, 93, 1972.
- (3) Studies on Acid gastric P H during anaphylactic reaction Ind. J. Pharmacol, 4, 94, 1972.
- (4) Antidiabetic effect of B perfusis vaccine in rats Ind. J. Ass. Pharmacol 4, 95, 1972.
- (5) The use of pertussis vaccine in Management of Resistant Diabetics, J. Ass. Phys. Ind. 21, 121, 1973.

RESEARCH PROJECTS CURRENT IN THE DEPARTMENT

- (1) Mechanism of anaphylactic shock in dog.
- (2) Mechanism of anti-diabetic effect of B. Pertussis vaccine.
- (3) Liver function tests in experimental hypersensitivity reaction in dogs.
- (4) Mechanism of acid gastric secretion in rats.
- (5) Effect of drugs on radio active uptake of iodine in different organs in rats.

The Department is collaborating with medicine Department for clinical drug trial.

The Department has also provided facilities for the following research projects to other departments.

- (1) Liver function test and gastric analysis to medicine department Unit V.
- (2) Production of cardiac arrhythmia in dog-cardiology Department.
- (3) Kidney transplat in dog-surgery department.

APPENDIX IV.

DISTRIBUTION OF BEDS ACCORDING TO DEPARTMENT.

Department.	Male	Female	Children	Total
(A) Non Paying Beds:				
Medical.	63	50	...	113
Surgical.	56	26	9	91
Orthopaedic.	15	5	9	29
Gynaec & Obstetric.	...	90	...	90
Ear, Nose & Throat.	12	4	8	24
Ophthalmic.	12	8	4	24
Skin.	7	7	3	17
Paediatric.	...	...	65	65
Psychiatric.	9	8	...	17
Total.	174	198	92	464
(B) Paying Beds:				
Medical.	12	6	...	18
Surgical.	13	6	...	19
Gynaec & Obstetric.	...	13	...	13
Total.	25	25	...	50
(C) Beds Reserved for B. E. S. T. undertaking staff.				
Medical.	5	...	...	5
Surgical.	5	...	...	5
Total.	10	...	...	10
Grand Total.	209	223	92	524

APPENDIX V.
SUMMARY OF IN PATIENTS, OUT PATIENTS AND OPERATIONS.

(A) In patients:—					
(1) Schedule Strength of Beds.	...	...	...	...	524
(2) Daily average No. of In-patients.	...	...	...	...	838.3
(3) Total No. of Indoor Admissions.	...	...	...	...	43,007.
(4) Daily average No. of Admissions.	...	...	...	...	117.8
(5) Highest Indoor patient on a single day.	...	...	...	...	994.0
(6) Average No. of days each patient was resident.	...	...	...	...	7.1
(B) Out patients:—					
(1) Total No. of O. P. D. patients (New).	...	...	...	...	2,51,191.
(2) Daily average No. of O. P. D. patients.	...	...	...	...	623.5
(3) Highest O. P. D. attendance on a single day.	...	...	...	...	968.0
(C) Operations:—					
(1) Total No. of operations performed on In-patients.	...	...	...	...	12,728.
(2) Total No. of Operations performed on Out-patients.	...	...	...	...	18,441.

APPENDIX No. VI

List of persons who have donated more than Rs.50/- during the year 1972-73.

Sr. No.	Name of the Donor	Amount.
1.	The American Women's Club of Bombay	1,500.00
2.	Jain Murtipujak	900.00
3.	Raykumari Raykumar	75.00
4.	Well wisher	150.00
5.	Mrs. T. K. Homawalla	101.00
6.	Jain Murtipujak	500.00
7.	A. Z. Candhi	101.00
8.	Vice President, Time & talents club	100.00
9.	Jain Murtipujak	500.00
10.	Anonymous	134.00
11.	M/s. Zandu Pharmaceutical	101.00
12.	Sushilkumar	51.00
13.	S. K. Patil	51.00
14.	Fakrichand Devaram	101.00
15.	Vasant S. Pasroo	51.00
16.	Kanahaiyalal D. Agarwal	150.00
17.	Kisandas D. Bhambri	200.00
18.	Jain Murtipujak	500.00
19.	Paragan Charitable Trust	1,000.00
20.	Devichand Uttamchandani	101.00
	Total	6,367.00

GROUP OF T. B. HOSPITALS, SEWRI

MEDICAL RECORD DEPARTMENT

Summary of the Annual Administration Report of Group of T. B. Hospitals, Sewri, Bombay 15.

The Annual Administration Report of the Group of T. B. Hospitals for the year 1972-73 is summarised as follows:—

I.—Expenditure :—

(A) 1. Amount spent on In-patients	...	85,14,202
2. Amount spent on Out-patients	...	1,18,630
3. Total Expenditure excluding New Works	...	84,95,265
4. Expenditure on New Works	...	18,937
(B) 1. Average cost per In-patient per day	...	20.74
2. Average cost per Out-patient per day	...	5.50

II.—Results :—

(A) 1. Schedule Bed Strength	830 G. T. B. Hosp., Sewri. 88 R. D. T. B. Hosp., Dadar. 600 Sarvodaya Hosp., Ghatkopar.
	1518
2. Daily average In-patients in Wards	... 800
3. Total number of admission including those brought over from the previous year	... 7888
4. Total number of patients discharged:—	
(i) Relieved	... 5821
(ii) Non-T.B.	... 56
(iii) Left Against Medical Advice	... 601
(iv) Expired	... 668
(v) Remained in the hospital on the last day of the year	... 873
5. Average stay of In-patients	... 2 Months,
(B) 1. Total number of New Out-patients	... 52,993
(C) 1. Total number of Operations on In-patients	... 489

III.—Deficiencies :—

1. Inadequate facilities for diagnosis and treatment of T. B.
2. System of Domiciliary treatment not yet implemented in all T. B. Clinics.
3. No. T. B. Hospital in Western (Suburbs).

IV. Suggestions :—

1. Immediate need is for 6 T. B. Clinics in City & Suburbs.
2. Domiciliary Treatment Units with Mobile Van to be implemented in all T. B. Clinics. ...
3. T. B. Hospital to be started in Western (Suburb). ...

V. Special Information :—

1. Total No. of Health Visits	...	8,496
2. Total No. of patients taken advantage of Domiciliary Treatment at Isolation Centre, Dadar	...	321
3. Total No. of patients put on Waiting-list	...	10,625
4. Total No. of patients attended for Follow-up Examination for Check-up	...	3,704
5. Group of T. B. Hospitals and four T. B. Clinics continued to be recognised for Diploma Course in T. D. D. by the College of Physicians and Surgeons, Bombay as well as degree course in M. D. (Tuberculosis) by the University of Bombay	...	

GROUP OF T. B. HOSPITALS SEWRI

Administration Report for the year 1972-73.

Dr. S. A. Shah, M.D., D.M.R.E., D.P.H., T.D.D., F.C.C.P. hold the post of the Medical Superintendent throughout the year.

The total number of beds for Pulmonary Tuberculosis cases at the disposal of the Bombay Municipal Corporation (Tuberculosis Services) was 1418 as detailed below :—

Name of the Institution	Male	Female	Child	Total
(1) Group of T. B. Hospitals :—				
(a) Medical	387	250	35	672
(b) Surgical	96	62		158
(2) Isolation Centre attached to Ramkunwar Daftary T. B. Clinic, Dadar	44	44		88
(3) Sarvodaya Hospital Ghatkopar	400	200		600
Total	927	556	35	1518

* 100 additional beds were hired at Sarvodaya Hospital, Ghatkopar from 20th April 1972.

Group of T. B. Hospitals, Sewree, Bombay

The total number of patients examined at the Registration Centre of the Group of T. B. Hospitals and put on waiting list during the year was 10625.

The total number of patients in the various stages of Pulmonary Tuberculosis treated during the year was 650, out of these 5383 discharged as improved 56 discharged as Non-Tuberculosis cases, 484 left against medical advice, 586 died and 800 remained under treatment at the close of the year. Mortality figures revealed the high incidence in the age group of 26-30. Ratio of death percentage of total treated was 9.6 per cent, Major Lung Operation were performed during the year in 489 cases.

Follow up of (Discharged) Cases

The total number of patients who attended the Group of T. B. Hospitals for Follow up examination after discharged from the hospitals was 3704 during the year.

Refill Work

10 Pnemo—Periteneium R-fills were given in the wards to the indoor patients of Group of T. B. Hospitals. Discharged patients on pneumo-periteneium Refills treatment continued subsequent pneumo-periteneium Refills at the Group of T. B. Hospitals 2 pneumo-periteneium refills were given.

Teaching

Clinical teaching in tuberculosis was given to batches of undergraduate medical students of Seth G. S. Medical College and L. T. M. G. Medical College and to the post-graduate D. P. H. students of Bombay University as in previous years.

Group of T. B. Hospitals and the Four T. B. Clinics continued to be recognised for diploma course in Tuberculosis i. e. T. D. D. by the College of Physicians and Surgeons, Bombay as well as for the degree course i. e. M. D. (Tuberculosis and Chest Diseases) by the University of Bombay.

Research Work

The following Research work is undertaken at G. T. B. Hospitals (1) Efficacy & Toxicity of Thiacezone plus Isoniazid Regimen in Greater Bombay. This work is being carried out in the Medical Unit of Dr. S. A. Shah, Medical Superintendent, G. T. B. Hosps. (2) Therapeutic effects of Streptomycin in different dosages in view of toxic effects of Streptomycin on vestibular and cochlear functions of patients.

Ramkunwar Daftary T. B. Isolation Centre, Dadar.

Advanced infectious tuberculosis patients are admitted to this centre primarily from the view-point of segregation from the surrounding areas and symptomatic treatment. The total number of patients treated during the year was 637, of these 228 were discharged as improved, 210 as not improve 117 left against medical advice, 82 died and 73 remained under treatment at the close of the year.

Domiciliary Treatment at Isolation Centre, Dadar

One Mobile Van has been provided at R. D. T. B. Hospital & Clinic Dadar from 2-6-1970 for conducting domiciliary treatment Scheme for T. B. Patients covering areas around this clinic. Work done is as follows:—

Total No. of Patients attended under this Scheme.	Total No. of T. B. Cases under this Scheme.	Non. T. B. Cases under this Scheme.
321	166	155

MUNICIPAL T. B. CLINIC

Four T. B. Clinics *viz.* at Princess Street, Foras Road, Dadar and Khar continued to serve as diagnostic centres for Pulmonary Tuberculosis patients and treatment centres with specific anti-Tuberculosis drugs. They also serve as out-patient centres for admissions at the Group of T. B. Hospitals, Sewri or Survodaya Hospital, Ghatkopar (on Municipal Beds). Health visiting is also performed through the T. B. Clinics. The total number of health visits during the year was 7026.

Total number of out-patients attended and treated at the T. B. Clinics during the year was below:—

Serial No.	Name of the Clinic.	Total No. of Pts. attended.	T. B. Cases.	Non T. B. Cases
1	R. D. T. B. Clinic, Dadar	13855	6555	7300
2	Princess Street T. B. Clinic.	17675	2634	15045
3	Foras Road T. B. Clinic.	7674	2792	4882
4	Khar T. B. Clinic.	13785	4209	9576
Total:		52993	16190	36803

EXPENDITURE

The average expenditure per patient per day at the G. T. B. Hospitals was Rs. 20.74. The expenditure on diet per patient per day was Rs. 3.12. The total annual expenditure on the Group of T. B. Hospitals amounted to Rs. 5692392 as against Rs. 4919069 during the previous year.

The rate of charges for the patient hospitalised at Survodaya Hospital, Ghatkopar, on behalf of the Bombay Municipal Corporation was Rs. 10/- per patient per day with effect from 1st April, 1969 and Rs. 2/- per day vacant bed. The expenditure incurred on the patients accommodated on the reserved beds at the said hospital was Rs. 28218.0 as against Rs. 1538586 for the previous year. The total expenditure on the four T. B. Clinics attached to the Group of T. B. Hospitals, Sewri, was Rs. 1186830. Thus the total expenditure incurred by the Corporation on Tuberculosis Services was Rs. 9701032.

Poor Box collection including fees for issue of Medical certificates was Rs. 21947.21. This collection is utilised for the benefit of the poor and needy patients and incidental expenses in consequence.

Dr. A. P. RAO,
Medical Superintendent,
Group of T. B. Hospitals.

LEGAL DEPARTMENT

Summary of the Administration Report of Legal Department for the Year 1972-73.

(i) Expenditure incurred during the year under report :—

	Rs.
(1). General Legal Charges	6,50,453.92
(2) Establishment	6,80,785.77
(3) Contingencies... ..	31,029.16
Total ...	13,62,268.85

(ii) Results achieved during the year under report :—

(1) Supreme Court matters	67
(2) High Court Matters	1585
(3) High Court matters of other cities	2
(4) City Civil Court matters	1829
(5) Small Causes Court matters	1931
(6) Police Court matters	38472
(7) Labour and Industrial Courts matters	64
(8) Municipal Inquiry Courts under Sec. 105-B of the B. M. C. Act.	14136
(9) Documents etc.	1910
(10). References received from Departments and outside parties	28716
Total ...	88712
(iii) Suggestions for remedying any deficiencies	NIL
(iv) Other Special Information.... ..	NIL

K. S. KADAM,
Ward Officer (Legal).

LEGAL DEPARTMENT

During the year under report, the Legal Department attended to the litigation of the Corporation and rendered legal services as under:—

I.—Supreme Court—		
Appeals.		67
II.—High Court—		
1. First Appeals.		223
2. Second Appeals.		NIL
3. Appeals from Orders		173
4. Letters Patent Appeals		177
5. Civil Revision Applications		15
6. Special Civil Petitions		47
7. Civil Applications		285
8. Long Cause Suits		89
9. Arbitrations Suits		4
10. Appeals before Division Bench		38
11. Insolvency Matters....		} 168
12. Company Petitions		
13. Writ Petitions		218
14. Criminal Revision Applications & Criminal Appeals		77
15. Notice of Motion		43
16. Land Acquisition References		28
II-A—Alahabad High Court.		
Insolvency Matters		1
II-B—Jodhpur High Court.		
Insolvency Matters.		1
III—City Civil Court		
1. Suits:—		
(a) Suits filed by the Corporation		3
(b) Suits filed against the Corporation		1770
2. Miscellaneous Appeals		56
IV—Small Causes Court—		
1. Suits		165
2. Appeals against Rateable value		1200
3. Garnishi Notices		2
4. References under section 503 of Bombay Municipal Corporation Act		356
5. Licence and Otrci Appeals, set back compensation petitions		205
6. Appeals from orders of payment of Wages Court		2
7. Full Court Applications		1
V—Police Courts —		
1. Complaints instituted for offences against Municipal Laws		38472
VI—Labour and Industrial Courts—		
1. References before Industrial Tribunals		2
2. Applications before Payment of Wages Courts		1
3. Applications before Labour Courts		19
4. Applications before Motor Accidents Claims Tribunal		35
5. Cases before Arbitrators		NIL
6. Applications before the Workmens' compensation courts		7
7. Complaints under sec. 33 of Industrial disputes Act		NIL
VII—Municipal Inquiry courts under Sec. 105 B of the Bombay Municipal Corporation Act.		14136
VIII—Documents Completed during the year—		
1. Conveyances		7
2. Agreements for handing over possession		10
3. Leases		91
4. Certificates of Sales... ..		24
5. Deeds of Transfers		4
6. Deeds of Licence		53
7. Agreements		67
8. Indemnity Bonds		52
9. Cases for compensation for set-back land		283
10. Cases for compensation in T. P. Scheme		60
11. Advice matters in respect of stamp duty, town Planning, Set-back, F. P. Claims, Agreements, Misc. Matters, etc.		1249
12. Indenture of mortgage (Municipal Housing Societies)		10
IX—References received from Departments or Outside parties		28716

K. S. KADAM,
Ward Officer (Local).

EDUCATION DEPARTMENT

SUMMARY OF THE ADMINISTRATION REPORT OF THE EDUCATION DEPARTMENT

Total expenditure booked upto 31st March 1973 is Rs. 10,00,15,680.45.

Some of the important items with the expenditure incurred on them are as under:—

	Rs.
(1) Municipal Primary Schools	7,98,91,222.88
(2) Private Primary Schools	18,43,090.00
(3) Medical Inspection of school children	9,25,086.60
(4) Educational Activities	9,55,035.78
(5) Training Facilities for Municipal Teachers	20,581.83
(6) New Works	4,75,744.57
(7) Extra curricular activities	1,58,286.00

Results

(1) No of Municipal Schools	1,075
(2) No. of Pupils in Municipal Schools	5,05,249
(3) No. of Teachers in Municipal Schools	14,378
(4) Expenditure per Pupil	Rs. 206.14
(5) No. of Private Primary Schools:—	
(a) Aided Schools	231
(b) Recognised Schools	390
(6) No. of Pupils in Private Primary Schools:—	
(a) In Aided Schools	72,586
(b) In Recognised Schools	1,30,204
(7) Grant in aid paid to private Primary Schools	Rs. 18,30,854
(8) No. of Pupils in Municipal Schools Medically Examined	1,25,910
(9) Total No. of Children immunized:—	
(a) Typhoid	2,45,217
(b) Diptheria — 1st dose	79,768
2nd dose	58,119
(c) B. C. G.	57,191
(d) Small pox	1,14,737

(10) Educational and other activities carried out during the year were:—

(a) Refresher Class, (b) Annual Sports, (c) Mass Drill, (d) Drills & Games competitions
(e) Physical Training Institute, (f) Educational Excursion, (g) Bal Bhavan Centre, (h) R. S. P.
Units, (i) Band Troop, (j) Scout/Guide Movement, (k) Sangeet Subha etc.

(11) (a) 77 trainees passed D. Ed. Examination from R. C. Municipal Urdu Teachers' Junior College of Education, Imamwada.

(b) 47 candidates appeared at D. Ed. 1st year Examination from Malim Urdu Teachers' Junior College of Education.

(12) Five New Municipal School buildings were constructed. Extensions to 3 school buildings carried out and 26 school buildings are under construction. There are in all 223 Municipal owned school buildings in Greater Bombay. 632 schools are accommodated in Municipal owned school buildings. 413 schools are accommodated in Rented Buildings and 30 schools are accommodated in rent-free buildings

MADHURI R. SHAH
Education Officer

EDUCATION DEPARTMENT

Smt. Madhuri R. Shah, B.A. (Hons.) M.Ed., Ph.D. (Bombay), Ph.D. (London), continued to hold the office of the Education Officer during the year 1972-73.

L—Municipal Schools and Classes, Pupils and Teachers

The number of Municipal Schools and Classes in Greater Bombay at the beginning and at the end of the year was as follows:—

	As on 31st March 1972				As on 31st March 1973			
	City	Suburbs	Extended Suburbs	Total	City	Suburbs	Extended Suburbs	Total
Schools ...	493	330	133	956	492	338	143	973
Classes	47	38	20	105	44	43	15	102
Total ...	540	368	153	1,061	536	381	158	1,075

The following changes took place in the number of schools and classes during the year under report:—

	City	Suburbs	Extended Suburbs	Total
Number of classes opened	...	3	...	3
Number of schools opened	2	5	5	12
Number of classes converted into schools	1	7	5	13
Number of schools converted into classes	—	—	—	—
Number of schools/classes amalgamated	2	1	...	3
Number of classes closed	1	...	...	1
Number of classes taken over	...	...	...	...
Number of schools taken over	...	3	...	3

On the principle of providing higher standards for 40 children or more in the City and Suburbs and 35 children or more in the outlying areas, the number of classes of higher standards opened during the year under report is as under:—

Higher standard classes opened	No. of classes opened.
Standard V ..	27
Standard VI ..	19
Standard VII ..	17

The total number of upper primary (including Vocational) and Lower Primary Schools and classes was 556 and 519 respectively as against 658 and 403 during the preceding year.

The total number of pupils on roll at the end of the year in Municipal Schools and classes in Greater Bombay stood at 5,05,249 as against 5,28,802 in the previous year (*Vide* Appendix I). Thus, there was a net decrease of 32,553 pupils in Municipal schools and classes. The average attendance throughout the year was 4,60,713 as against 4,80,595 in the preceding year.

Teachers in Municipal Schools

The total number of teachers in Municipal Schools during the last year was 14,989 out of which 723 were special teachers. The number stood at 14,378 (Special Teachers 715) during the year under report. Out of 13,663 Ordinary teachers 13,493 (*i.e.* 98.7 per cent) were trained as against 14,094 out of 14,266 (*i.e.* 98.8 per cent) in the previous year.

The requirements of the teachers are assessed as per class room formula as adopted by the Education Committee.

Supervision of Municipal Schools

The supervision of Municipal Schools continued as it was in the year 1971-72. 17 Administrative Officers are appointed and they are entrusted with full administrative work of all schools in the Ward. The Beat Inspectors are entrusted with the work of effective supervision of the schools.

The position of Beats at the end of the year under report is:—

Marathi	...	32
Gujarati	...	8
Urdu	...	7
Hindi	...	5
South Indian	...	3
Sindhi, English Primary	...	1
Total	...	56

Teachers' Diaries and Pupils' progress cards and Registers continued to be maintained as usual and parents were kept informed of the progress, conduct and attendance of their wards by forwarding the Progress Cards to them every month.

Double Promotion Examinations were conducted by the Inspectors of municipal schools in July 1972, as per rules.

Written examination of the pupils of Standards I to VII was held in the months of March and April 1973 supervised by a Central Examination Board which included Superintendent, Assistant Research Officers, Inspectors, Instructors and Teachers.

The following factors, inter alia, hampered the progress of the pupils in Municipal schools:—

- (1) Largeness of classes.
- (2) Lack of suitable school buildings.
- (3) Inadequate facilities to pupils to study at home.
- (4) Economic conditions of the parents resulting in irregular attendance and long and continuous absence of pupils.

To avoid overcrowding in classes and in order to facilitate proper attention to pupils, it was laid down that ordinarily a class should not have more than 50 pupils. In schools housed in rented buildings overcrowding on account of inadequate accommodation was an impediment in the way of efficient teaching. Out of 1075 schools and classes, about 657 schools and classes were required to be run in two sessions and more than two sessions for want of sufficient accommodation. This measure is hampering instruction and causes a lot of inconvenience to the pupils, teachers and parents. A programme of construction of new municipal owned school buildings was restricted during the course of the year on account of paucity of funds.

The curriculum for standards I to VII as revised by the Government is being followed in Municipal schools.

As required under provision to Section 62 BB of the Bombay Municipal Corporation Act and the City of Bombay Primary Education (Amendment) Act 1950, text books prescribed by the State Government were used during the year under report.

Rahimtulla Currimbhoy Municipal Urdu Teacher's Junior College of Education, Imamwada

During the year under report, there are 137 trainees for the D. Ed. course of 2 years. The teaching staff included (1) Head Mistress (2) Five Instructors, full time (3) Three part time Instructors for teaching Mathematics and Physical Education (4) Three part time teachers for teaching special subjects like Drawing, Music and Work experience.

Out of the 77 trainees sent up for the D.Ed. IInd year Examination held during April 1972, all have passed the D.Ed. Examination. Thus the result was cent percent.

137 trainees are sent up for the D.Ed., F.Y. Examination held in April, 1973.

Municipal Urdu Teachers' Junior College of Education, Mahim

During the year 1972-73, there were 47 trainees for D.Ed. 1st year (2 years' Course). The teaching staff included (1) one Principal (2) One full time Instructor (3) Two part-time Instructors for teaching Science and Mathematics (4) Four part-time Instructors for teaching Craft, Music, Drawing and Physical Education.

47 candidates appeared at the D.Ed. 1st year examination of April, 1973.

Loan Scholarships

An amount of Rs. 75 per month was given as Loan Scholarship to Municipal untrained teachers who were under training at the Municipal Training Colleges or any other Training Institutes. This scholarship was given to the teachers on their request only and was recovered by suitable monthly instalments.

The amount of Trust Funds, Prizes, Freeships etc. interest on various Trusts and Endowments were distributed among the eligible pupils in accordance with the terms and conditions of the respective Trusts.

School Furniture and Equipment

Amount spent for the supply of furniture articles etc. during the year under report was Rs. 1,51,600.

Five new school bldgs. were added to the existing no. of 218 during the year under report bringing the total No. to 223 in Greater Bombay. Extensions to three school buildings have been carried out, thereby increasing the No. of class rooms as additional accommodation for classes.

The school buildings at twenty-six places are under construction and extensions in respect of certain school buildings are in progress. 632 schools (including classes) were accommodated in Municipal-owned school buildings, 413 (schools included classes) were accommodated in rented buildings and 30 schools (including classes) were housed in rent-free buildings.

II Municipal Aided and Recognized Schools

Aided Schools

On 31st March 1973, the number of Aided Schools was 231 (120 in City, 70 in Suburbs and 41 in Extended Suburbs) as against 218 (119 in City, 60 in Suburbs and 39 in Extended Suburbs) in the previous year. The number of pupils in Aided Schools in the City, Suburbs and Extended Suburbs increased during the year under review from 67,893 to 72,586.

The average number of pupils on roll in Aided Schools during the year under report was 72,038 as against 67,183 in the previous year.

The average daily attendance was 68,574 (94.5 percent) as against 64,646 (95.2 per cent.) of the previous year.

The total number of teachers in Aided Schools as on 31st March 1973 was as under:—

	City	Suburbs	Extended Suburbs.	Total
Ordinary teachers	794	551	396	1,741
Special teachers	105	125	42	272
	899	676	438	2,013

Out of 2,013 teachers, 1,672 were trained and 341 were untrained as against 1,880 teachers in the preceding year, out of whom 1,542 were trained and 338 were untrained.

The percentage of trained teachers worked out to 83 per cent.

During the year 1972-73, the following activities were organized by the Aided Section of the Education Department.

On 5th September 1972 Teachers' Day was celebrated under the presidentship of Dr. Usha Mehta of the Department of Politics, University of Bombay at Neptune Talkies, Bandra. The department took the privilege of honouring Dr. Mehta as a freedom fighter on the occasion. Dr. Mehta narrated her experience in the struggle for independence and spoke about the role of teachers in free India. An award-winning picture "Teesri Kasam" was shown to the teachers who participated in the programme in large numbers.

A workshop on the teaching of Science for teachers of Stds. I to IV of private primary Marathi and Gujarati Schools was organized at Hindu Colony Municipal School Building from 8th to 20th January 1973. About 300 teachers who participated in the Seminar were given an opportunity of observing and doing experiments based on Revised Syllabus in Science.

In January 1973 a lecture on "School for tomorrow" by Dr. Redcliff of New York University was arranged at Birla Kceeda Kendra for teachers of English medium private primary schools. Dr. (Mrs.) Madhuri Shah, Education Officer presided. The talk was very enlightening and opened new horizons of knowledge for teachers.

From 8th to 17th February 1973, with the Co-operation of Bombay Psychiatric Society, a series of lectures pertaining to psychological problems of children were arranged for the benefit of teachers working in private primary schools. A number of noted psychiatrists delivered lectures on different topics and give practical guidance to teachers in solving psychological problems of children. They also showed their willingness to help the teachers in solving individual cases if brought to them.

Unaided and Recognized Schools

Besides Aided Schools, there were 390 (197 in City, 133 in Suburbs and 60 in Extended Suburbs) Recognised Schools as against 391 (203 in City, 131 in Suburbs and 57 in Extended Suburbs) in the previous year. The number of teachers in these schools was 4,026 as on 31st March 1973 as against 3,979 teachers as on 31st March 1972. The number of pupils increased during the year from 1,27,387 to 1,30,204.

III A.—Educational Guidance Centre

I. Educational Guidance in primary schools is given through teachers. Guidance consciousness is created in teachers through lectures given to them on following topics:—

- (i) Guidance in Elementary Schools.
- (ii) How to cultivate proper study habits with the help of the following:—
 - (a) Functions of Memory.
 - (b) Powers of Imagination.
 - (c) How to think clearly and creatively.
 - (d) Power of Decision-making.

Educational Guidance on the lines mentioned in (ii) is also given to students of Std. IX in our Secondary Schools in all wards. The lectures on the above mentioned topics were attended by nearly 5,000 pupils.

II. Vocational Guidance in Secondary Schools was given to the students of Std. X in all wards. Lectures on the following topics were attended by nearly 5,000 pupils.

- (i) How to choose a career.
- (ii) Technical careers.
- (iii) Medical.
- (iv) Commercial.
- (v) How to prepare for final examination.

III. Career conferences, consisting of (a) Lectures by eminent personalities (b) Exhibition of posters on various careers and courses and (c) Display of career films were held at (i) Dadar Woollen Mill Lane Municipal Secondary School, (ii) Rajawadi Municipal Secondary School.

The conferences were attended by students of Std. XI, past students, parents and teachers.

IV. Vocational Counsellor continued to take active part in the Workshop on Programmed Learning in the months of June and July 1972.

III B.—Vocational Education

There are 33 vocational classes in 22 Vocational Schools, 16 Carpentry, 12 Tailoring, 1 Sign-board Painting, 1 Painting, 1 Book-binding and 2 Clock-repairing.

IV.—Physical Education

The Government Syllabus in physical Education in Lower Primary Schools in the State continued to be followed in Municipal Schools this year also with suitable modifications to suit the local conditions which are the direct results of the shortage of open spaces and playgrounds adjoining the schools.

During the year under report, the Physical Education Section carried out the following activities:—

(1) *Refresher Class*.—In order to acquaint the inservice teachers with the programme and methods of Physical Education, a Refresher Class was organised by the Department. It was conducted on zonal basis and in two separate batches, for U. P. and L. P. teachers respectively. About 400 teachers attended the class.

(2) *Annual Sports*.—Individual events in running, jumping, throwing, hopping, etc. were included in the programme. The sports were conducted at 128 different centres throughout Greater Bombay. 63,813 pupils participated in the programme. The finals were organised at St. Xaviers College Gymkhana Ground, Parel, where 864 qualified competitors from all zones participated. Prizes were distributed to first three winners in each event.

(3) *Mass Drill (Children Rally)*.—The high light of the yearly programme of this was 'Children Rally' organised on the 2nd November 1972 at Vallabhahai Patel Stadium, Worli, when the Prime Minister Smt. Indira Gandhi was the Chief Guest. In all more than 25,000 children participated in the programme and about 50,000 children witnessed the same. Items like March Past, Mass T. T., chorus song (specially composed for the occasion), Frolicks, Asanas, Pyramids, Ras were included in the programme and number of participants in each item was between 600 and 800. The programme was highly appreciated from each corner spectators, educationists and distinguished guests.

The groups from our schools participated in the children Rally organised by the central committee on the 19th November 1972 also as part of the Independence Silver Jubilee programme. The items given by our pupils were Asanas, Pyramids and Ras.

(4) *Drills and Games Competitions*.—These competitions were held in each Beat and were followed by semifinals at zonal levels and finals at central level. Drill competitions consisted of Squad Drill/Marching, Asanas/Namaskars, Pyramids/Stunts, Frolicks and Lezim, which is introduced from this year. Games competitions were conducted in Kabaddi, Kho-kho, and Langadi for boys and KhoKho, Langadi and Dodge-Ball for girls. About 16,000 and 10,000 pupils participated in Drill and Games competitions respectively.

(5) *Physical Training Institute*.—Physical Training classes for inservice teachers were being organised for a period of three weeks on residential basis so far. However from this year a special facility in the form of Training Institute has been made available by the Corporation and the courses of 4 weeks and 10 weeks durations have been introduced from this year. The institute works throughout the year and inservice teachers

attend the courses in batches. Four week course is meant for advance training in special subjects like Gymnastics and Frolics at present and ten week course is meant for regular training in Physical Education programme being followed in the schools. Tests and examinations at the end of each course are conducted and the certificates are awarded to successful candidates. A camp of the trainers of ten week course was organised at Nargol, about 80 miles away from Bombay, when emphasis on practical and organisation work was specially given. It also helped to experience the corporate and group life in real sense. This year in all 340 teachers attended the respective courses.

(6) *Educational Excursions.*—Educational excursion programme was conducted from 11-12-1972 to 14-4-1973 as usual. 66,505 pupils from Std. III participated in it. The pupils were accompanied by 2,492 teachers. Participants were taken to places like Jijamata Udyan, Kamala Nehru Park, Taraporwala Aquarium, Gate Way of India, Birla Kradakendra, etc. They were provided with refreshment and transport by the Municipal Corporation.

(7) *Balbhavan Centres.*—29 Balbhavan centres all over Greater Bombay are conducted which provide facilities for part time activities after school hours. Each centre is provided with a trained Instructor, assisted by helper. Activities like Games, Crafts, Drawing, Dramatics, Hobbies, Folk Dances, Action Songs, etc. have been included in the programme. At the end of the year, competitions were organised at each centre, and followed by a final at a central place.

(8) *R. S. P. Units.*—During this year 10 more units have been introduced thus making the total number 25. Each unit is under the charge of Instructor—a teacher. The unit consists of 24 pupils. These units look after the Traffic and Safety of the pupils crossing the road in the morning and evening. Uniforms to pupils and teachers are provided by the Corporation. The Instructor is paid Rs. 25 per month for this work.

(9) *Band Troop.*—This activity, introduced last year, is continued this year. Eight Schools were selected for the purpose and it is observed that the pupils have shown good progress and they are interested in the activity.

(10) *Chief Minister's Draught Relief Fund.*—Our Municipal School children participated in Chief Minister's Draught Relief Fund Drive, organised on school level and collected the amount to the tune of Rs. 51,774.50.

V.—Scout and Guide Movement

Statistical Information

No. of Cub Masters	...	...	214	No. of Cubs	...	...	...	4,516
No. of Scout Masters	...	...	222	No. of Scout	...	...	...	3,580
No. of Flock Leader	...	...	141	No. of Bulbuls	...	...	...	2,336
No. of Guide Captains	...	...	161	No. of Guides	...	...	...	2,678

The following are some of the important activities conducted during the year under report:—

(1) *Explanatory Training Camps.*—This year this camp was divided into two separate Groups i. e. CUB/BULBUL Teachers and SCOUT/GUIDE Teachers and these camps were conducted at two different places. This camp was conducted to create leadership and to acquaint the teachers with the yearly programme of Scout/ Guide activities. About 256 Scouters/Guiders attended this camp.

(2) *Proficiency Badge Training Course.*—Proficiency Badge Training is one of the most important training in Scout/Guide Craft. There are also some Proficiency badges which are compulsory for every Scouts and Guides. Therefore, this year work-shop for some selected Proficiency Badges like Ambulance, Handyman, Carpenter, Electrician, Toy Maker, Gardener etc. was conducted for Scouters and Guiders. Emphasis was given on training to Scouters Guiders in selected Proficiency badges, so that they would train their Scouts Guides, Cubs/Bulbuls in some particular badge. Nearly 300 Scout/Guide teachers took part in it.

(3) *Patrol Leaders Training Camp.*—About 1,800 Scout/Guide Patrol Leaders attended this camp which was conducted at Aarey Milk Colony Camping Ground. The work-shop of different hobbies was organised for Scouts and Guides. Emphasis was given on training in leadership and work experience.

(4) *Training Camp for Sports Examiners.*—This year 100 Scouters/Guiders were selected for the training of sports examiners. This camp helped to a great extent the Scout/Guide Sports Activity.

(5) *Cub/Bulbul Excursion.*—About 1,800 Cubs and Bulbul were taken on a day's excursion at Aarey Colony Camping Ground, where the cubs and bulbuls could get an opportunity of observing the nature.

(6) *Patrol Hikes.*—About 1,101 Scouts and Guides participated in this programme during this year. The participants stayed over night in the camp. Several hike routes with distance of about 15 K. M. were given to the hikers in advance. Emphasis was given on training in map reading, compass reading and map drawing.

(7) *The Scout/Guide Week.*—This year the Scout/Guide week was celebrated from 3rd to 10th December 1972. During the week different Scout/Guide activities like Rallies, Camp fires, Parents' meetings, Hobbies in action, Exhibition, Kharri-Kamai etc. were organised. The total amount of Kharri Kamai collected by our Scouts and Guides was about Rs. 19,476.44.

(8) *Final Zonal Sports.*—This year Zonal Sports were organized at 11 different places all over the Greater Bombay. About 1,200 Scouts/Guides/Cubs/Bulbuls took part in it. This was followed by finals at New Municipal Camping Ground, Powai High level reservoir.

(9) *Scout/Guide Rally*.—This year only one Divisional rally was organised on 19th February 1973 at St. Xavier's College Gymkhana, Parel, some activities like March Past, Cub/Bulbul/Novel, folk dances/signalling and pioneering work was displayed for Scouts/Guides/Cubs and Bulbuls. Nearly 7000 Scouts/Guides/Cubs/Bulbuls attended the Rally.

(10) *A New Camp Site*.—Looking to the longfelt need of the Department, a new camp site at Powai Reservoir has been given to us recently by the Municipal Commissioner for our camping purposes. This site is being developed and will be provided with necessary facilities. This facility will help in conducting our scouting programme smoothly and effectively.

(11) *Sangeet Sabha*.—With a view to bringing out hidden talents of our Music teachers and also to entertain Municipal employees as well as public interested in this art, 'Sangeet Sabha'—A new activity has been introduced from this year. This will give opportunity to bring out Music teachers in the lime light and will help to teach them ways to give public performance.

Three programmes presented by the Sangeet Sabha with the help of renowned artists were highly appreciated by the Mayor, Councillors, Guests, Members of the Sabha and Officers of the Corporation.

Present strength of the members is 600 which includes Municipal employees and outsiders also.

VI A.—Audio Visual Education

Ten Projectionists of this section arranged 1,459 film shows in various Municipal Primary Schools all over Greater Bombay. These shows were witnessed by 3,37,677 pupils. Films on different educational subjects were projected for the benefit of the participants of Science and Mathematics Work-shop and Refresher Classes.

Science Exhibition.—The Science Exhibition was organised at Manmala Tank Municipal School as a part of Silver Jubilee Independence Programme by this section.

VI B.—Teaching Aid Centres

The three centres carried out the programme as per plan, throughout the year. More than 5,000 teachers took the advantage of the centres and prepared various teaching aids on different subjects. About 2,500 aids were prepared at each centre. The printing section of the centre printed 2,500 copies each, of science books of Stds. I and II. The printing of Physical Education syllabus was also done at the press. This section took active part in setting Science Exhibition specially organised at Manmala Tank School as a part of Independence Silver Jubilee programme. The centre shared the responsibility of assisting the organisers in Children Rally, Sharad Utsav, Balbhavan functions and Science work-shops. During the year under report new electrical machinery worth to Rs. 11,900 and tools and spare parts to the tune of Rs. 3,000 were purchased.

VII.—Finance

The principal sources of income of Primary Education Department (1) five times the actual net realisation of the Corporation in the preceding year under the head of General Tax (including arrears and payments in advance) divided by the rate fixed for the General Tax for the said financial year, (2) Government grant towards Primary Education, (3) Education Cess, (4) Interest on Endowments and Investments, (5) Rent and other proceeds of properties, (6) Interest on profits on investments of Surplus loan and other balance and (7) Other Miscellaneous Receipts.

The Opening Balance as on 1st April 1972 was Rs. 55,17,929. The details regarding Municipal Contribution and other Miscellaneous Receipts are as follows:—

	Municipal Contribution	Government Grant	Education Cess	Other Misc. Receipts.
	Rs.	Rs.	Rs.	Rs.
City, Suburbs and Extended Suburbs	7,45,35,855	78,80,000	1,68,41,105	14,24,227

The total expenditure for the year amounted to Rs. 10,41,54,285. The closing balance as on 31st March 1973 (after taking into account increase in Renewed Grant) was Rs. 358,112.

VIII.—Research Unit (Education)

The Research Unit carried out the following studies during the year 1972-73:—

1. The Graded Assignments in languages and Arithmetic for Std. III have been prepared and are ready for distribution. Similarly, Assignments in Arithmetic of Revised Syllabus for Stds. I and II have been revised.
2. The study on "Identification of the Gifted Children from the Municipal Primary Schools and preparation of the programme for such children" is under progress.
3. In-service Training Classes for teachers teaching Science and Mathematics to Stds. I—VII had been organised and guidance and orientation was given to about 500 teachers.
4. The follow-up study of the children passing in the Vacation Classes for failures organised by the Education Department has been undertaken and is under progress.
5. "Ungraded Unit" study has been undertaken and the data is under process.

6. Preparation of the Enrichment materials in Mathematics, Social studies and languages is in progress.

7. Pre-Service Training Classes for primary teachers to be recruited in the Municipal Schools had been organised and training was given to about 125 teachers of different languages.

IX.—Secondary Schools

During the year under report 22 new Secondary Schools were opened. Standards V to VII of Municipal Primary Schools were also attached to old and new Secondary Schools. The fourth batch of S.S. C. students from 27 schools appeared for S. S. C. Examination held in March 1973.

The No. of Secondary Schools, Divisions etc. is given below:—

					As on 31st March 1972	As on 31st March 1973
No. of Schools	...	...	...	...	27	49
No. of Divisions	...	...	...	...	435	1,466
No. of Pupils	...	...	...	...	18,870	63,585
No. of teachers	...	...	...	...	650	1,178

X.—General

During the year under report 1,35,910 Children from the Municipal and Secondary Schools were medically examined and in 1,14,714 Children defects were noticed.

The Health Visitors (Schools) paid 7,410 domiciliary visits to guide the guardians of ailing children as regards nutrition, care, treatment etc.

The defects such as scabies, ringworm and other ailments noticed at the time of Medical Inspection were treated at the Municipal dispensaries. The Municipal School Children were also treated at the School Clinics attached to K. E. M. Hospital, Nair Hospital, L. T. M. G. Sion Hospital, Borivli Hospital, Full Time Dental Clinic at Nair Hospital and Juhu Hospital. During the year 63,757 new and old cases were treated at the Clinics. Suspected cases of Tuberculosis and Leprosy were referred to the special Clinics for investigations and treatment and were not allowed to attend Schools, if found infectious.

Immunization

Immunization against certain infectious diseases was carried out in the Municipal Schools.

Total number of children immunized is as shown below:—

Typhoid—2,45,217

Diphtheria and Tetanus	...	
1st dose	...	79,768
2nd dose	...	58,119

B. C. G. (Tuberculosis)	...	57,191
-------------------------	-----	--------

Small-pox	...	1,14,737
-----------	-----	----------

Health Education

(i) Health talks were given to the students and the teachers by the A. M. Os. and the Health Visitors.

(ii) Domiciliary visits were paid by Health Visitors.

(iii) Parents'/Teachers' meetings were organised.

(iv) Health Parade, Health Ministry, and Health Trophy competitions were organised in the Schools in G/South and K Wards with a view to inculcating health habits among School Children.

Milk was supplied to the ailing children attending the School Clinics.

First aid was rendered at the time of sports, Mass drill etc.

XI.—Municipal Teachers' Library

There are three Libraries for Municipal Teachers. The Central Library is located at Gilder Tank. The other two branch libraries are at Santacruz and Ghatkopar. The total number of books at the end of the year was 61,683. (33,000 at Central Library, 18,110 at Santacruz Library and 10,573 at Ghatkopar Library) This number is inclusive of books in Children's Corner. The total number of periodicals and news papers subscribed during the year under review was 146 as against 151 in the previous year. This number is reduced

because of closure of some publications. 8,923, 9,325 and 3,217 books have been issued to readers from G. T. Santacruz and Ghatkopar Libraries respectively. 260 new members (108 at Central Library, 95 at Santacruz Library and 57 at Ghatkopar Library) were enrolled during the year under report.

All these libraries have got Children's Corner attached to them. The number of books for children at Central Library, Santacruz and Ghatkopar Libraries are 8,524, 8,586 and 6,085 respectively.

XII.—Gratis use of school premises

The use of Municipal school premises for conducting Social Education Classes, Hindi Classes, Night Schools, etc., under the auspices of Educational and School Welfare Institutions was continued to be allowed gratis or at nominal fees and leave and licence fees outside regular school hours on prescribed conditions and with the consent of the landlords of the premises in case of rented premises.

XIII.—Special Classes for Mentally retarded children

Lions Juhu Centre for Mentally Retarded Children started by the Corporation in collaboration with Gujarat Research Society and Lions Juhu, in the year 1965 with only 5 pupils on roll has now 80 pupils on roll during the year 1972-73.

The education is imparted through different media such as Marathi, Gujarati, English and Hindi by trained and experienced staff. Besides teaching of other subjects, the pupils are taught craft work and paper making work. Tailoring and Envelope making (Big and Small Size) is also introduced this year in this school and special machinery is provided for the purpose. The pupils are found taking more and more interest in vocational subjects. Special type of furniture befitting the mentally retarded children is provided in the school.

From this year, arrangement is also made for development of gardening and such other recreational activities in the schools through which the pupils can develop their mental growth.

In addition to the Lions Juhu Centre School at Khar, special classes for mentally retarded children have been started on experimental basis at four places in different Wards from June 1971, as shown below:—

(1) Mumbadevi Municipal School building 'C' Ward	...	25 pupils.
(2) Nare Park Municipal School Building F/South Ward	...	25 pupils.
(3) Akurli Road Municipal School Building 'R' Ward	...	50 pupils.
(4) Dhanji Devshi Municipal School Building 'N' Ward	...	50 pupils.

Those educable children whose mental growth is very slow and who are not benefited by attending ordinary schools are admitted in these special classes after psychological test. These pupils are given free education. As a special feature, the pupils of these classes are allowed to appear at the normal examinations along with other pupils in Municipal Primary Schools.

Teaching aids specially meant for mentally retarded children are provided in these classes. The pupils are also medically tested regularly by psychologists.

The observations and experiences of the Special Classes during the year have revealed that there is quite satisfactory progress and enough scope for expansion of the activities thereby giving more and more benefit to such mentally retarded pupils who are not benefited from attending ordinary schools.

XIV.—Extra curricular Activities

(a) Shared Utsav (Autumn Festival)—8 centres of cultural programmes, 7 Division-wise competitions, 3 school hall programmes, 1 Central Functions and 1 Final Dramatics (b) School Anniversaries, Independence and Republic Days were celebrated in a number of schools where special invitations were given to the parents so as to bring them into close contact with schools. Parents and teachers days were also celebrated in a number of Municipal Schools. (c) Vacation Coaching Classes at 21 centres were conducted for the children of Standards III, IV and V who were detained at the annual examination held in 1972. The children were subsequently promoted to the next higher standards after successful completion of the course. (d) Educational Seminars were organised in which Municipal teachers of all Beats took part. (e) Vacation Libraries were conducted at 74 centres for the benefit of the children.

XV.—School Feeding Programme

Under this programme all the children of Municipal Primary Schools in Stds. I to IV were catered with 200 ml. of double toned pasteurised milk in sealed bottle on every working day except during the month of April when the examinations are being conducted. Due to some technical difficulties of Government dairies, they could not meet our full requirements of three lakhs bottles per day so only 50,000 bottles were supplied from the Worli Dairy. The schools were therefore divided into different groups and each group of schools gets different type of foods (i.e. milk and biscuits, peanuts and biscuits, and buns only). During this year about 2,00,000 children got 15 and 16 gms. of biscuits containing 15 per cent. protein on every school working day. Nearly, 70,000 children were also catered with peanuts (groundnuts) each child getting 20 gms. of baked and salted peanuts. Under Buns programme, the beneficiaries were about 70,000 children per day. Each child was supplied with a sweet bun of 50 gms. each manufactured by Modern Bakeries (India) Ltd. In addition to these, Sukhada was also given to about 7,000 children of Dharavi area on experimental basis for about 20 days only. Each child was given 100 gms. of sukhada packet prepared by Sadguru Seva Sangh Trust out of C. S. M. donated by CARE. The milk powder and wheat flour required for manufacturing buns, biscuits were received as free gift from CARE (Co-operative for American Relief Everywhere).

MADHURI R. SHAH,
Education Officer.

APPENDIX No. 1
Municipal Schools and Pupils

Language	As on 31st March 1972			As on 31st March 1973		
	Schools	Classes	Pupils	Schools	Classes	Pupils
CITY						
Marathi	228	3	1,68,791	228	3	1,54,632
Gujarati	71	9	24,845	70	8	20,349
Urdu	93	10	36,310	93	10	32,537
Hindi	49	4	17,893	49	3	16,430
Tamil	10	6	2,960	9	7	3,099
Telugu	11	3	4,293	12	2	4,601
Kannad	12	10	3,176	12	9	2,801
English Primary	17	2	6,775	17	2	6,094
Sindhi	2	...	296	2	...	260
Total ...	493	47	2,65,429	492	44	2,40,803
SUBURBS						
Marathi	129	1	1,08,287	135	2	1,07,862
Gujarati	46	9	21,759	40	15	20,985
Urdu	68	2	25,430	69	2	26,212
Hindi	49	6	19,580	52	5	20,265
Tamil	8	5	2,304	9	4	2,467
Malayalam	1	3	312	1	3	280
Telugu	3	4	773	5	4	1,106
Kannad	15	5	5,429	16	4	5,471
Eng. Primary	6	1	1,940	9	1	2,248
Sindhi	3	2	1,468	2	3	1,395
Total ...	330	38	1,87,282	338	43	1,88,291
EXTENDED SUBURBS						
Marathi	55	3	40,878	57	3	41,377
Gujarati	28	2	18,952	29	2	17,805
Urdu	15	2	3,469	17	1	3,878
Hindi	21	3	8,676	23	1	8,525
Tamil	5	4	1,113	5	4	1,216
Telugu	1	1	231	1	2	296
Kannad	2	4	1,525	4	2	1,699
English Primary	3	...	590	3	...	737
Sindhi	3	1	657	4	...	622
Total ...	133	20	76,091	143	15	76,155
Grand Total ...	956	105	5,28,802	973	102	5,05,249

APPENDIX No. III

Statement showing the number of Trained and Untrained Teachers in Municipal Schools according to Sides

Side	As on 31st March 1972			As on 31st March 1973		
	Trained	Untrained	Total	Trained	Untrained	Total
CITY						
Marathi	4,861	16	4,877	4,888	16	4,504
Gujarati	777	5	782	662	5	667
Urdu	1,058	22	1,080	965	21	986
Hindi	518	4	522	502	4	506
Tamil	79	7	86	75	7	82
Telugu	98	20	118	95	20	115
Kannad	94	2	96	80	2	82
English Primary	177	22	199	149	22	171
Sindhi	11	2	13	10	2	12
Total	7,673	100	7,773	7,026	99	7,125
SUBURBS						
Marathi	2,847	12	2,865	2,827	12	2,839
Gujarati	643	4	647	619	4	623
Urdu	660	22	682	688	22	710
Hindi	523	5	528	549	5	554
Tamil	59	3	62	60	3	63
Malayalam	10	...	10	10	...	10
Telugu	18	...	18	27	...	27
Kannad	157	1	158	156	1	157
English Primary	50	2	52	58	2	60
Sindhi	45	4	49	41	3	44
Total	5,012	53	5,065	5,035	52	5,087
EXTENDED SUBURBS						
Marathi	1,140	6	1,146	1,162	2	1,164
Gujarati	544	1	545	532	1	533
Urdu	95	3	98	103	3	106
Hindi	237	4	241	227	9	236
Tamil	28	1	29	30	—	30
Telugu	8	...	8	6	1	7
Kannad	41	1	42	47	1	48
English Primary	15	3	18	18	2	20
Sindhi	24	...	24	22	...	22
Total	2,132	19	2,151	2,147	19	2,166
Grand Total	14,817	172	14,989	14,208	170	14,378

APPENDIX No. III

Municipal Recognised and Aided Schools and Pupils.

Language	Recognised Schools as on 31-3-1972		Recognised Schools as on 31-3-1973		Aided Schools as on 31-3-1972		Aided Schools as on 31-3-1973	
	No. of Schools	Pupils	No. of Schools	Pupils	No. of Schools	Pupils	No. of Schools	Pupils
City								
Marathi	26	9,897	24	9,742	24	5,828	24	6,276
Gujarati	55	9,530	51	9,059	30	7,093	30	7,155
Urdu	3	1,609	3	976	6	1,802	6	1,729
Hindi	...	...	...	...	11	3,218	11	3,243
Sindhi	...	...	...	...	4	408	3	338
Tamil	1	108	...	...	4	1,064	5	1,021
Telugu	...	...	...	...	1	119	1	92
Malayalam	...	...	...	...	3	511	3	469
Kannad	...	...	...	...	1	404	1	341
English	110	40,196	111	39,984	25	6,648	27	7,449
Marathi Night	...	...	...	...	1	141	1	149
Kannad Night	1	74	1	50	6	460	5	435
English Night	7	992	7	1,156	6	284	3	272
Total	203	61,806	197	60,967	119	27,980	120	28,969
Suburbs.								
Marathi	24	5,603	19	4,332	16	6,489	23	8,385
Gujarati	20	4,502	19	3,938	14	6,845	15	7,209
Urdu	...	...	2	86	1	306	1	320
Hindi	3	203	1	175	9	2,758	10	2,855
Sindhi	...	...	...	...	3	243	3	361
Tamil	...	...	...	...	2	563	2	501
Malayalam	...	...	...	...	2	645	2	601
English	83	38,273	91	41,971	12	4,241	13	4,899
English Night	1	51	1	59	1	254	1	280
Total	131	48,632	133	50,561	60	22,344	70	25,411
Extended Suburbs								
Marathi	5	1,200	6	1,560	10	3,601	11	3,506
Gujarati	19	4,715	21	5,234	18	10,649	18	10,777
Hindi	2	333	2	421	6	1,811	6	1,961
Tamil	1	233	1	249	...	...	...	...
Malayalam	1	131	1	147	...	...	...	...
Kannad	1	217	1	233	...	...	...	...
English	28	10,120	28	10,832	5	1,508	6	1,962
Total	57	16,949	60	18,676	39	17,569	41	18,206
Grand Total	391	1,27,387	390	1,30,204	218	67,893	231	72,586

APPENDIX No. IV

Information re : Physical Education in Municipal Schools

Total number of schools and classes 973+102	...	...	...	1,075
Number of schools imparting physical education on playgrounds	...	...	...	193
Number of schools imparting physical education in open spaces	...	...	...	592
Number of schools imparting physical education in class-rooms	...	...	...	285
Total number of pupils	...	...	...	5,05,249
Total number of pupils taking physical education	...	...	...	All
Total number of trained teachers in physical education	...	...	...	1,524
Special Teachers in Physical Education	...	...	...	186
Total number of untrained teachers in physical Education	...	...	...	11,945

APPENDIX No. V

Average Cost per Pupil for the year

	Average cost per pupil for the year.
	Rs.
City, Subs. & Ext. Subs. :	
According to the number of pupils on roll as on 31-3-1971 (5,03,047)	175.32
City, Subs. & Ext. Subs. :	
According to the number of pupils on roll as on 31-3-1972 (5,28,802)	184.65
City, Subs. & Ext. Subs. :	
According to the number of pupils on roll as on 31-3-1973 (5,05,249)	206.14

LABOUR DEPARTMENT

Summary of the Administration Report of Labour department for 1972-73.

1. Money Spent by the Corporation :—

	Rs.
(a) On Establishment ...	3,98,860
(b) Other than Estt. ...	1,86,900
Total ...	5,85,760

2. *Results achieved*—The department has dealt with 1891 departmental cases and grievances regarding the services conditions, recruitments, promotions, transfers etc. Seven disputes were referred to the Asstt. Commissioner of Labour, Conciliation Officer etc. during the year.

At the end of the year, 27 recognised Unions remained to represent the Labour and the other staff of the Corporation. There exist 22 Joint Councils representing Labour, subordinate, Executive and Nursing staff.

The recreational, educational, hygienic, cultural and Social activities-indoor as well as outdoor-were organised by the Welfare Branch of this department for the benefit of Municipal employees and their dependents. The average daily attendance of adults and children at different welfare centres was 2540 and 2700 respectively. The total strength of scouts and guides was 4481.

Under the scheme for granting scholarship to the children of the Municipal employees, 238 scholarships for the secondary education and 178 scholarships for higher education were awarded amounting to Rs. 40,980.

Under the scheme for granting the medical assistance to the Municipal employees suffering from T. B. Leprosy etc. 181 deserving employees were given the medical assistance amounting to Rs. 17,848.

3. Suggestions for remedying any deficiencies :—

No

4. Other Special information :—

(i) The five new unions were recognised during the year.

(ii) The Inter departmental and Inter-ward dramatic competitions was held by this department for the second year in which 16 Marathi plays were staged. Three running trophies were given to the best and the 2nd best and the 3rd best entries.

(iii) Two new Welfare Centres were opened during the year.

G. S. SAUDAGAR,
Labour Officer.

LABOUR DEPARTMENT

Administration Report of the Labour Department for the year 1972-73.

The Labour Officer dealt with 18091 individual grievances of Labour staff.

Trade Union :—Trade Unions activities among Labour and other staff engaged in the service of the Corporation were mostly confined to the Unions whose names and other particulars including membership are given below. These Unions were recognised by the Municipal Commissioner as per rules.

Serial No.	Name of the Union.	Date of Establishment.	Date of Registration	Registered Number	Membership as on	
					31-12-1970	31-12-1971
1	Municipal Worker's Union ...	27-2-1935	29-3-1935	90	2020	1950
2	Bombay Sweeper's Union, / ...	30-7-1946	7-9-1951	1,118	2,091	2,301
3	Bombay Municipal Subordinate staff Union ...	2-8-1946	31-1-1948	483	3,252	...
4	Municipal Mazdoor Union ...	...	3-7-1956	2,100	15,552	15,604
5	Bombay Municipal Engineer's Union ...	...	30-10-1956	3,281	483	658
6	Bombay Municipal Kamgar Singh ...	1-4-1933	28-6-1962	4,212	3,256	2,726
7	The Administrative Officer's Association (B.M.C.) ...	...	6-6-1967	6,008	88	88
8	Bombay Municipal executive Staff Union ...	21-6-1955	21-5-1966	1,836	2,280	2,892
9	Bombay Municipal Health Visitor's Association ...	28-8-1950	18-1-1951	1,001	95	94
10	Maharashtra State Nurses' Welfare Association ...	...	...	4,638	397	753
11	Mahamumbai Nagarpalika Prathamik Shikshak Singh ...	14-4-1906	20-12-1954	1,674	6,567	1,156
12	Brihanmumbai Nagarpalika Special Shikshak Singh ...	1959	1960	3,593	134	118
13	Bombay Municipal Urdu Teachers Association ...	1926	28-4-1953	1,356	243	350
14	Municipal qualified overseers Union ...	...	...	4,977	61	...
15	Bombay Fire Service Union ...	16-4-1946	13-1-1948	479	474	290
16	Bombay Fire Fighters' Service Union ...	13-7-1967	13-7-1967	6,019	105	105
17	Mahamumbai Municipal Marathi Madhyamik Shikshak Singh ...	...	...	...	...	...
18	Association of Inspector (School) ...	7-7-1970	...	...	...	...
19	The Municipal Secondary Teachers' Association. ...	2-1-1967	...	...	...	...
20	Municipal Head and Dy. Head Teachers' Association. ...	...	...	...	...	...
21	Bhartiya Kamgar Sena. ...	...	...	6,142	...	25,693
22	Bombay Municipal Medico Technical Staff Association. ...	...	...	6,455	300	300
23	Senior Medical Teachers' Association ...	...	...	...	...	...
24	Brahatur Bombay Mahanagar Palika Madhyamik Shikshak Singh ...	...	...	...	...	...
25	Brihan Mumbai Mahapalika Shikshak Sabha ...	...	...	4,355	...	...
26	Bombay Municipal Hindi Shikshak Parishad ...	...	...	4,185	...	299
27	Graduate Teachers' Association ...	...	...	...	...	...

Industrial Relations

The following five unions of Municipal employees' have been granted recognition during the year under report.

1. Senior Medical Teachers' Association.
2. Brahatur Bombay Mahanagarpalika Madhyamik Shikshak Sangh.
3. Brihan Mumbai Mahapalika Shikshak Sabha.
4. Bombay Municipal Hindi Shikshak Parishad.
5. Graduate Teachers' Association.

The recognitions of the Greater Bombay Nurses' Association has been withdrawn during the period under report.

Labour Management Co-operation

With a view to promote cordial relations between the employees and the Administration the following steps were continued.

(i) **Joint Council**:—The total Number of Joint Councils constituted by the end of the year under report were 22.

(ii) **Grievance Procedure**:—A four stage grievances procedure is continued to redress the grievances of the employees in all Municipal Departments. The grievances Committee consists of the representatives of Labour and the management which investigates the grievances of the employees.

(iii) **Individual grievances**:—Complaints received by the Labour Officer from the employees and also from the Union were of various nature. The following table gives the number and the nature of the grievances received and dealt with by the Labour Officer.

TABLE II.

Serial No.	Nature of Cases	Total		Grievances registered		Non-genuine City	Sub.	Pending Cases.	
		City	Sub.	City	Sub.			City	Sub.
1	Recruitment and Retrenchment etc.	1101	1082	813	1069	269	13	19	Nil.
2	Promotion Transfers confirmation and annual increments.	521	343	438	335	78	7	5	1
3	Fines, Reversions suspensions, Dismissals and other punishments.	345	19	256	16	86	3	3	Nil.
4	Delay in payment of Wages (Wage leave) and allowances.	320	288	268	282	50	6	2	Nil.
5	Delay in settlement of provident Fund and to other retirement benefits.	148	180	110	175	32	5	6	Nil.
6	Non-supply of equipment and Uniforms.	135	43	91	40	40	3	4	Nil.
7	Delay in sanctioning leave due	236	91	188	87	46	4	2	Nil.
8	House rent, Accommodation and transfer of quarters.	639	110	620	82	18	26	1	2
9	Miscellaneous	881	662	828	615	48	44	5	3
10	Departmental references etc.	9898	1049	9898	1049	...	...	...	...
Total:—		14224	3867	13510	3750	667	111	47	6

ANNUAL REPORT OF WELFARE BRANCH

Following Welfare activities were organised at the Welfare Centre during the year 1972-73.

(1) Inter-Centre Tournaments and Competitions.

Volley Ball Carrom, Kabaddi, Table Tennis, Best Physique & Elocution Tournaments and Competitions were held during the year. Prizes were given to the winners. This time certificates were awarded to the winners along with the prizes.

(2) Inter-Centre Folk Dance Competition.

This competition was held in the month of October 1972. 25 items in Folk Dances were presented. Smt. Deviben Dalal, Chairman, Education Committee presided over the Function and distributed the prizes.

(3) Inter Centre Dramatic Competitions.

Inter-Centre Dramatic Competitions were held at the Birla Krida Kendra in the month of November 1972. Sri Correa, Chairman, standing Committee, presided over the function and distributed the prizes to the Best Actor, Best Actress and Best Director. Trophies were given to the first three dramas. 16 Welfare Centres participated in the competition. Consolation prize to the 4th drama was also given.

(4) Picnic.

One day picnics were organised for the children of the Welfare Centres at the places of interest around Bombay.

(5) Film Shows.

Documenting & full length films of educative and social importance were shown daily at the different Welfare Centre during the year.

(6) Opening of New Welfare Centre.

One new welfare Centre was opened at Mitha Nagar Colony Goregaon during the year.

Daily Attendance:—The average daily attendance of adults and children at the different Welfare Centres during this year was 2,540 adults and 2700 children as against 2515 adults and 2640 children in the previous year.

Excursion for Nursing Staff:—The excursion could not be organised due to drought situation in the state.

Band Activities:—Scout Band is organised at G. T. B. Hospital and Brass Band is organised at Umar-khady Welfare Centre.

Nurseries:—Two nurseries are conducted at Bupty Road and Pulton Road Welfare Centres. Nearly 80 children of Municipal employees take advantage of the Nursery Schools.

Different Functions:—Combined Ganpati Festivals, were organised during the year under report. Cultural items, competitions etc. were held during the festivals and prizes were distributed to the participants taking part in the programme. Holi Kumkum functions were held at 30 Welfare Centres. Baidi Jayanti functions were held at 8 Welfare Centres.

Other Activities:—Fabrication of Petty Coats and preparation of Arm ands was carried out through the participants of Welfare Centres and supplied to the various municipal departments.

Scouting and Guiding:—The total strength of Scouts and Guides Section was 4481 in the year. The organisation gave the following services during the year under report.

(1) They carried out duties in maintaining law, & order at the time of several celebrations, Urus, Flower shows, etc.

(2) The Scouts and guides, Scouters, and Guiders participated in several scout Activities in the City and the Scout Guide week Camp Fires of the West Bombay Bharat Scout & Guides.

(3) Our Scouts took part in the competitions, Patrol leaders' Training Camp, & First Class Training Camp and Hike competitions organised by West Bombay District Association.

(4) Our guides took part in the Sports, & Elocution competitions, organised by the West Bombay District Association.

Training Course:—First class training course organised for the scout & Guides at K. E. M. Hospital Centre.

Training Camps:—Several Camps were organised for the Guides and Scouts at Powai Scout Camp for the Different Welfare Centre during the year.

Inter Ward and Inter Department Dramatic Competition:—Inter Ward and Inter Departmental dramatic Competitions were held at Birla Krida Kendra from 4th January to 2nd February 1973. 16 Departments participated in the competitions. The first three entries were given running trophies. Four prizes of Rs. 101 each were given for the Best Director, the Best Actor, The Best Actoress the Best Art Director and 30 consolation prizes of Rs. 51.00 each were given for acting on merits. Shri M. W. Desai, Municipal Commissioner, presided over the function and distributed the prizes.

The Scholarship to the Children of Municipal employees:—During the year 582 application for scholarships were received and 178 scholarships were granted to applicants for higher education and 238 for secondary education. The total amount given by way of scholarships to the Municipal employees was Rs. 40,983

Medical Assistant Scheme to the Municipal employees:—221 employees applied for Medical assistance under the a above scheme 181 employees were given aid amounting to Rs. 17,848.

G. S. SAUDAGAR,
Labour Officer.

APPENDIX A'

Serial No.	Name of the Union	Department concerned	Categories attached.	Referred to	Nature of Dispute.
1	Maharashtra State Nurses Welfare Association.	Kesturba Hospital.	Nursing Staff.	Asstt. Commissioner of Labour.	Grievances of the Nursing staff. Re: Appointment of sisters.
2	Do.	K. E. M. Hosp.	Ward Assistant.	Do.	Working hours of the Ward Assistant.
3	Municipal Workers Union	All the Depts.	All the categories	Do.	Payment of 8½ per cent Bonus to all the Municipal employees.
4	Bombay Municipal Executive Staff Union.	C.I.S.E./S.L./H.O./ Factory Branch under C. E.'s dept.	Beat Inspectors & Beat Officers.	Do.	Payment of Special Pay etc. to the beat Inspectors and Beat Officers for performing odious duties.
5	Municipal Mazdoor Union	Rajawadi Hospital.	Labour Staff.	Do.	Allotment of quarters to the employees working at Rajawadi Hospital.
6	Do.	H. S.	Sweeper	Shri Patankar Industrial Tribunal.	Approval given under Section 33(2) (b) to the I.D. Act for removal action.
7	Do.	L-Ward.	Employees under L-Ward Drainage & Repair Section.	Dy. Commissioner of Labour.	Strike Notice Re: Non deduction of Rs. 5 from their wages/salaries towards the Bangladesh Fund.

PUBLIC RELATIONS DEPARTMENT

Summary for the year 1972-73 of Public Relations Department

Money spent by the Corporation.

Total expenditure of Public Relations Department and Bombay Civic Journal.

	Public Relations Department	Bombay Civic Journal
(i) On Establishment ...	1,66,455.00	12,241.00
(ii) On other departmental activities ...	1,19,122.00	33,153.00

Results achieved :—

Health Publicity

Film shows		Audience
128		66,000
Anti diseases campaigns		No. of persons inoculated/vaccinated
740		53,700
Exhibitions 11		Exhibitions visited by 1,00,000 persons.

General Publicity

Press trips arranged to Municipal institutions/installations during 1972-73		11
Press Conferences arranged		25
Display posters and other publicity literature		10,000 posters. 1,00,000 folders and leaflets.
(3) Suggestions for remedying any deficiencies		Nil.
(4) Such other special information		Nil.

K. T. PANDIT,

Public Relations Officer.

PUBLIC RELATIONS DEPARTMENT

Shri K. T. Pandit, M. A., continued to be in charge of the post of Public Relations Officer during 1972-73.

The Department effected publicity about the various activities and services rendered by different Municipal Departments and worked as a clearing house in respect of criticisms and suggestions appearing in the local newspapers. It also carried out health education work and dissemination of information to the public through various media.

Information Counters.

Two information counters at the main and extension buildings continued to prove as useful adjuncts in giving necessary guidance and information to the public besides effecting the sale of civic publications.

Informative Publications

The "Civic Guide cum Diary 1973" containing useful information on civic affairs was brought out in English, Marathi and Gujarati. In addition, publications viz. "Civic Guide", "Know Your Ward" were also published in English and Marathi. List of Municipal Councillors and Officers was brought out during the year in English and Marathi.

Press-room equipped with lockers etc. enabled the press reporters as well as the department to keep proper liason with each other. Visits of press representatives to Municipal installations and institutions were also arranged regularly and the press was also provided with specially prepared handouts, photographs etc. for the respective visits. A good coverage was secured in the newspapers through this activity for various civic installations, services, institutions projects etc.

The department participated in the observance of World Health Day, National Cleanliness Day, World Leprosy Day, Social Education Week, Sharad Utsav, Family Planning Fortnight, Fire Services Day and also in various Health Drives and Exhibitions organised by the Lions Clubs, Citizens Welfare League, Bhagini Samaj, Consumers Guidance Society and such other Social Welfare Organisations.

In connection with the Municipal General Elections held in March 1973 the entire press liason work was attended to by this Department. All the necessary assistance was extended to the Education Department for holding the Childrens' Rally at Vallabhbai Patel Stadium where Smt. Indira Gandhi, India's Prime Minister was the Chief Guest and also for the Civic Reception and presentation of civic address by the Corporation in honour of the Prime Minister, Smt. Indira Gandhi for which a function was held at Kamla Nehru Park. The Los Angeles Sister City Delegation was on a goodwill visit to the City on the invitation of the Corporation and this Department helped in organising press conferences, publication of Souvenir, preparation of medallions, etc. and such items connected with this visit.

Necessary co-operation was also extended for the activities, campaigns etc. carried out by the citizens Committee for Clean Bombay Campaign.

The work of collecting donations for the National Flag Day was also carried out. In addition to providing information to various civic bodies in India and to other Government Departments and arranging visits of V. I. Ps., information both in write-ups and pictures was culled, collated and furnished to various foreign countries, many of them coming through the Mayor. A number of central functions, official public meeting and press conferences were also organised in connection with the opening of various civic projects and necessary assistance was also given to departments holding such functions.

K. T. PANDIT,
Public Relations Officer.

Municipal Swimming Pools

Mahatma Gandhi Memorial Olympic Swimming Pool

- (1) 5948 Members joined the Swimming Pool during the year under report.
- (2) 3534 Beginners were trained in swimming during the year.
- (3) 54159 casual swimmers including Labourers & Factory Workers availed of the facility of Swimming.
- (4) Eleven educational Institutions availed of the swimming facility at concessional charge.
- (5) 15 Members of the M. G. M. O. Swimming Pool were included in the Maharashtra State Aquatic Team for participation in the National Aquatic Championship held at Madras in November 1972.
- (6) The Intercollegiate Swimming competitions were held at the M. G. M. O. Swimming Pool in September 1972.
- (7) Free Swimming facilities were provided for the blind persons by granting reservation of the Pool for 2 hours in a week.
- (8) 3146 School going children upto the age of 18 years availed of 50 per cent concession in fees during the year under report.
- (9) 14 Polio crippled children availed of the free swimming facility at the Pool during the year.
- (10) Collection of fees during the year was Rs. 2,57,683 as against Rs. 1,98,435 during the previous year.
- (11) Private parties reserved the Swimming Pool for 587 hours by which a revenue of Rs. 14,220 was Collected.
- (12) The total annual expenditure was Rs. 1,55,382. including the establishment cost of Rs. 1,04,955 during the year under report.
- (13) 20th Anniversary of the M. G. M. O. Swimming Pool was observed by holding Swimming competitions of the members. Prizes were awarded to the winners by Sri R. K. Ganatra, Mayor of Bombay.
- (14) The M. G. M. O. Swimming Pool was closed from 13-1-1973 to 26-1-1973 for repairs work.

Sardar Vallabhbhai Patel Swimming Pool, Kandivli.

- (1) 2533 New members joined the Pool during the year under report.
- (2) 1504 Beginners were trained in swimming during the year under report.
- (3) 17662 Casual swimmers including the Labourers & Factory Workers availed of the swimming facility.
- (4) Two Educational Institutions availed of the swimming facility at concessional rate of Rs. 100 P. M.
- (5) 1530 school going children upto the age of 18 years availed of 50 per cent. concession in fees during the year under report.
- (6) The amount of fees collected during the year was Rs. 86,259. as against Rs. 80,700 during the previous year.
- (7) Total expenditure during the year was Rs. 90,546 including the establishment cost.
- (8) Private parties reserved the Swimming Pool for 21 hours by which a revenue of Rs. 340 was collected.

Ghatkopar Lions Municipal Swimming Pool, Ghatkopar.

- (1) 1665 New members joined the Pool during the year ending 31st March 1973.
- (2) 979 Beginners were trained during the year under report.
- (3) 20741 Casual Swimmers including Labourers and factory workers availed of the swimming facility in this Pool during the year under report.
- (4) One educational Institution availed the swimming facility at concessional rate.
- (5) Private parties reserved the Pool for 12 hours by which a revenue of Rs. 480 was collected.
- (6) Collection of fees during the year was Rs. 101078.
- (7) Total expenditure during the year including the establishment cost was Rs. 75580.
- (8) 403 students availed of 50 per cent concession in fees during the year.

S. N. PINGE
 Manager
 M. G. M. O. Swimming Pool.

ADMINISTRATIVE OFFICER'S DEPARTMENT ENQUIRIES & INVESTIGATION.

Summary of Administration Report—1972-73.

Shri C. K. Patel, Superintendent of Licence continued to remain as Administrative Officer (Enquiries) in charge during the year under report.

(1) **Money spent during the year 1972-73.**—The total grant allotted to this department for the year 1972-73 is Rs. 4,04,780.00.

(2) **Results achieved.**—During the year under report total No. of 812 cases regarding acceptance of illegal gratification, mis-appropriation of municipal money, pilferage of municipal property & material, serious nature of misconduct, misbehaviour etc., on part of the municipal employees & irregularities of minor nature were investigated. Departmental enquiries were conducted in 148 cases in which 180 employees were awarded punishments ranging from warnings to dismissal. In 64 cases preliminary enquiries were completed & cases were sent to respective departments for conducting departmental enquiries. 238 cases were sent to various departments for taking necessary remedial actions. In 22 cases the delinquents were exonerated as the charges were not proved. 207 cases were filed as the allegations were found to be too false or vague. In 133 cases investigations were progressed at the end of the year. Besides the above surprise visits were also paid to various municipal works in progress, offices & installations for checking musters, accounts & detecting other malpractices. Auction sales & sale of rights in different depts. were attended too. The depts. were also given advice & guidance in respect of representation from employees in disciplinary cases & procedural matters in respect of Department of Enquiries.

Verification of stores including capital stores & verification of Dead Stock & Plant & Machinery was carried out in various departments throughout the year.

(3) **Suggestions for remedying any deficiencies:**— Nil.

(4) **Such other special information:**— Nil.

C. K. PATEL,
A. O. (Enquiries)

ADMINISTRATIVE OFFICER (ENQUIRIES)

for 1972-73.

Details of investigations work done by Enquiries and Investigations Branch.

I.—Investigation of:—

(a) Cases of alleged acceptance of illegal gratification and misappropriation of Municipal money by the Municipal Staff	34
(b) Cases of pilferage and misuse of Municipal property and materials	63
(c) Cases of irregularities of serious nature on the part of Municipal employees such as misconduct, misbehaviour, rude behaviour and assaults, harrasment to patients in the Hospital, taking leave under false pretext, driving or allowing to drive Municipal vehicles by unauthorised persons, gross dereliction of the duties etc.	227
(d) Cases of irregularities of minor nature on the part of Municipal employees, such as irregular attendance, sub-letting of rooms, harbouring outsiders in their rooms without permission and negligence of duties, etc., and complaints against stall-holders, licences and other regarding sub-letting of stalls, infringement of licences conditions, breach of provisions of Shops and Establishment Act, Municipal Bye-laws and Regulations	488
Total No. of cases investigated	812

The actions taken in the above cases investigated are summarised as under:—

	No. of Employees	No. of Cases.
(1) Dismissal	8	} 148
(2) Removal from Service	13	
(3) Demotion	2	
(4) Resignation accepted	1	
(5) Withholding of increments	59	
(6) Fines imposed	54	
(7) Censures and warnings	41	
(8) Recoveries made for loss of Municipal property	2	
	180	
(9) Sent to Departments for conducting Departmental Enquiries		64
(10) Sent to Departments concerned for necessary remedial actions		238
(11) Filed as the allegations were found to be either false or too vague		207
(12) Exonerated as the charges were not proved		22
(13) Enquiries in progress at the end of the year		133
		812

I.—The split up according to the status of the delinquents in the cases 83 employees who have been awarded deterrent punishments such as dismissal, removal from service, demotions and withholding of increment is as under:—

Category	Dismissal	Removal	Demotion	Resignation accepted.	Increment— withheld.
Sr. Overseer		1			
Head Teacher					2
Teachers	1				10
Clerk		2			4
Overseer					2
Shop Recorder				1	
Time Keeper			1		
Rent Collector					1
Market Inspector					1
Staff Nurse					3
Scaffolding Mistry	1				2
Labour Staff	6	9	1		34
Total	9	12	2	1	59

Other work done by Enquiries Section :-

Serial No.	Details of work.	No. of cases.
(1)	Surprise visits to places of Municipal works in progress and offices and installations for checking of musters, Accounts etc., detecting malpractices etc.	216
(2)	Attending sale by auction of Municipal Property or rights etc.	198
(3)	Disposal of cases of miscellaneous nature such as cases referred to by departments for advice in representations from employees in disciplinary cases, advice on procedural matters regarding departmental enquiries.	1,302
	Total	1,716

Work done by the Stock Verification Section.

Verification of Stores including capital stores at the Stores and Sub-Depots was carried out during the year as usual. Periodical checking of balances of petrol, diesel oil etc., at the various Municipal Pumps was also done and quarterly live stock statement of bullock as well as increase and decrease statements of live stock at the Victoria Gardens were verified, checking of the unserviceable articles needlessly occupying considerable space in Municipal Schools was also carried out. Schools and other Ward Offices were visited and unserviceable articles lying there were disposed of as per procedure laid down.

This section also helped the Enquiries Section in keeping a watch etc., at different places and times for detection of malpractices and investigation work such as scrutiny of voluminous records in specific cases.

The other important work attended to by this Section was the distribution of relief grants from the Mayor's Relief Fund to the persons and families affected by fire, house collapse and other natural calamities.

G. K. PATEL
A. O. (Enquiries).

THE BOMBAY CIVIC JOURNAL

Shri K. T. Pandit, M. A., continued to be incharge of the post of Public Relations Officer during 1972-73.

The year under review was eventful, in more ways than one, so far as the Municipal Corporation was concerned. It marked with the celebration of the 25th Anniversary of the Country's Independence, in a fitting manner. The B. E. S. T. Undertaking of the Corporation also celebrated its Silver Jubilee, in August 1973. Smt. Indira Gandhi, Prime Minister of India was accorded the long awaited Civic Address. The Corporation also played a host to the delegates of Bombay/Los Angeles Sister City Relationship Committee, who paid a goodwill visit to the city and presented a handsome donation for one of our Municipal Schools, which has been named as "City of Los Angeles High School". To commemorate these important landmarks in the civic annals, special issues of the Bombay Civic Journal either jointly or severally were taken out in addition to the publication of the usual Diwali Number.

Another most significant event, which took place during the year under report was the Municipal General Elections which were held in March 1973. Articles on other important related details including the ward-wise results of candidates who contested the Civic Elections formed another special feature of Journal this year.

Besides publishing articles on civic and metropolitan matters and highlighting the measures undertaken by the Civic Body in alleviating the sufferings of the scarcity stricken areas of Maharashtra, pictorial features on numerous subjects were also published in the Journal.

While concluding the 'Know Your Ward Series', a new series "सुवर्द्धे ऐतिहासिक दर्शन" written in Marathi by a noted historian, Prof. N. R. Phatak, was introduced.

K. T. PANDIT,
Editor, Bombay Civic Journal.

ORGANISATION AND METHODS DIVISION.

Dr. S. D. Parchure M.A., Ph.D., was in charge of the Division during the year under Report except during 1-7-1972 to 31-7-1972. Sri D. T. Chaubal, B.Sc., P.A. to M.C. was in charge of the office during this period.

During the year the following main activities were conducted by the Division.

- (i) Standardisation of forms and registers.
- (ii) Operation of suggestion scheme.
- (iii) Rearrangement of Municipal Records.
- (iv) Scrutiny of proposals from the following Departments:—
 - (a) Birla Kreedha Kendra.
 - (b) M. G., M. O. Swimming Pool.
 - (c) Chief Librarian.
 - (d) Curator of Museum.
 - (e) Municipal Chief Auditor.
 - (f) General Manager, B.E.S.T.
- (v) Examination of office procedure and suggesting improvements therein so as to tone up the Administration.
- (vi) One Book of M.C.'s circulars for the year 1966-67 and 67-68 was got printed.
- (vii) Record classification list which was not revised since 1930, was revised and got printed.
- (viii) Introduction of Marathi.
 - (a) One book under the caption of वेतन वितरण परिपत्रक giving English and Marathi version side by side of the pay circulars issued by C. A., D. A. (Sub.) and A. A. (E.F.), was got printed and was circulated to all the Departments.
 - (b) Employees are allowed to do original noting and drafting in office files in Marathi without furnishing the English version thereof.
 - (c) Some more forms were got printed only in Marathi.
 - (d) In the departmental tests the quantum of marks for questions to be answered compulsorily in Marathi is increased. Examinees are further allowed to answer the General knowledge paper entirely in Marathi.
 - (e) Some circulars are being issued in Marathi.
 - (f) The proposal of granting Rs. 100 as a prize for acquiring efficiency in Marathi typing by the employees, who are not recruited as Marathi typists, is sanctioned upto 31-12-1977.
 - (g) Classes for teaching the Marathi language to the officers and other staff of the B. M. C. who do not have Marathi as their mother tongue were continued.

S. D. PARCHURE,

Organisation & Methods Officer.

PRODUCTIVITY CELL

The Productivity Cell established in the year 1968 comprised of specially trained personnel in the fields of various Management Techniques. It is now universally accepted that these techniques play a vital roll in stream lining methods and procedures of work and up-dating working norms. These techniques are the tools in the hands of the Management to attain higher efficiency of the office and to bring in the desired results by the optimum utilization of the available resources along with the improved methods.

Shri N. P. Nobre—Executive Engineer in charge of the Cell during the period 1972-73.

Some of the major projects carried out during the period 1972-73 are :—

- (1) Study of immediate need of all the wards with respect to Roads, Drainage and Water Supply.
- (2) Preparation of training scheme (an outline) for Water Supply and Sewerage Board.
- (3) Establishment of drought relief centre at Khalind Khurd.
—Preparation of phased programme of construction
- (4) Scrutiny of staff proposals for Engineering Unit of F/N Ward Office.
- (5) Study of Ward building section to improve the procedure for controlling unauthorised constructions.
- (6) Study of maintenance of municipal properties in F/South Ward and preparation of Development Scheme for Bhoiwada Village and Morachi Wadi area.
- (7) Classification of circulars in terms of D. C. Rules Building Proposal Section.
- (8) Incorporating provisions of National Building code in the Building Bye-laws.
- (9) Designing of new billing form and Register of Billing Section with respect to Water Charges, and Mechanisation of Water charge bill.
- (10) Fixing Duties and Responsibilities of Technical Staff in Roads, Drainage and Building Construction Departments.
- (11) Standardisation of labour gangs and work norms for the ward Engineering Maintenance Section.
- (12) Study of requirements of artisans tools.

In addition to the above mentioned major projects about twenty minor projects were also carried out.

Training Activity :—

PERT, CPM training programmes were conducted for the Engineers. Training Programmes in Materials Management were conducted for the Municipal Hospital Staff. Office Supervision courses were conducted for the Supervisory Cadre working in M. C. 's C. A.'s and C. E.'s units. These courses were conducted in the interest of the personnel to increase their effectiveness in performing their job.

Manuals :—

Detail manuals for Building repairs, Factory and Drainage pertaining to the Engineering Unit of the Ward office were prepared.

Job Training :—

Job training scheme for the Meter Readers and Drainage (Maintenance) of the Engineering Unit of the Ward Office has been drawn and the courses will be started shortly.

Library :—

The centralised technical library which has been established to have better co-ordinated effort to disseminate literature and to have an effective control over the purchase and issue of the books, has been further developed by additions of new technical books and new memberships.

N. P. NOBRE,
Executive Engineer,
(Productivity Cell).

BOMBAY MUNICIPAL SECURITY FORCE

Summary for the Administrative Report for the year 1972-73.

1. Money spent by the Corporation:—

Total Expenditure of the Bombay Municipal Security Force during the year was.

1. On Establishment matters	...	Rs. 70,28,308.44
2. On other matters	...	Rs. 2,20,473.37
Total	...	Rs. 72,48,781.81

2. Results achieved—

1. No. of Departmental Enquiries completed by the Security Branch	...	149
2. No. of theft etc. cases reported	...	199
3. Value of Municipal property involved	...	Rs. 24,155.34
4. No. of cases detected	...	90
5. Value of property recovered	...	Rs. 11,168.64
6. No. of Security Guards recruited in the year	...	272

3. Suggestions for remedying any deficiencies—

NIL

4. Such other special information—

1. The Bombay Municipal Security Force conducts a Training School for Security Guards. During the year under report 289 Security Guards were imparted Training.
2. The Bombay Municipal Security Force is in-charge of Industrial Home Guards Unit of the Municipal employees. It has 109 members enrolled on it.

G. H. SALUNKHE,
B.A. (Spl.)
[Security Officer I/C.]

Shri B. R. Sawant, Dy. Superintendent of Police, Maharashtra State, Bombay, on deputation to the Bombay Municipal Corporation continued to hold the post of Security Officer during the year until 9th March 1973. His term of deputation having come to an end on that date he was repatriated to the Government from 10th March 1973. Shri G. H. Salunke, Assistant Security Officer held over the charge of the Security Officer's post from 10th March 1973.

2. The Security Officer is assisted by three Assistant Security Officers in his day-to-day administration. Sarvasri G. H. Salunke, D. G. Shinde & C. W. Zambre from among the rank of Security Assistants are holding the charge of posts of Asstt. Security Officers temporarily after their selection by the Selecton Board of the Corporation.

3. The work done by the Security Force is of two types, one is of Investigation which includes conducting the Departmental Enquiries & the other of Detection of theft & pilferage cases of Municipal Properties in addition to making necessary arrangements for guarding Municipal Buildings & Municipal Installations.

4. The work of Departmental Enquiries completed by Assistant Security Officers is as follows :—

I—Departmental Enquiries—

(a) Cases of alleged acceptance of illegal gratification & misappropriation, theft or pilferage of Municipal Property or Materials	...	33
(b) Cases of irregularities of serious nature on the part of Municipal employees such as misconduct, misbehaviour, rude behaviour & assaults, harassment to patients in the hospitals, taking leave under false pretext, gross dereliction of duties etc.	...	81
(c) Cases of irregularities of minor nature on the part of Municipal employees, such as irregular attendance, sub-letting of rooms, harbouring outsiders in their rooms without permission & negligence of duties etc.	...	35
Total: ...		149

(a) The action taken in the above cases is summarised below :—

	No. of employees	No. of cases
(1) Dismissal	18	149
(2) Removal from service	12	
(3) Promotions withheld	...	
(4) Demotion	2	
(5) Withholding of increments	83	
(6) Fine imposed	29	
(7) Censures & Warnings	8	7
(8) Recoveries made for loss of Municipal property	3	
(9) Sent to Departments concerned for conducting further D. Es.	...	
(10) Sent to Department concerned for necessary remedial action	...	
(11) Filed as the allegations were found either false or too vague	...	
(12) Exonerated as the charges were not proved	...	
(13) Enquiries in progress at the end of the year	...	
Total ...		203

I(a) : The split up according to the status of different employees who have been awarded deterrent punishments such as dismissal, removal from service, demotion & withholding of increment is as under:—

Category	Dismissal	Removal	Demotion	Increment withheld.
Clerk	...	...	...	1
Security Guards & Head Security Guards	6	7	1	60
Labour Staff other than Security Guards	12	5	1	22
Total :	18	12	2	83

II : The classification of very serious offences for which punishments of Dismissal, Removal from service, Demotion and Withholding of increments was resorted to & the number of employees to whom the said punishments were awarded for such offences is as follows :—

Description of the offences	Dismissal	Removal	Demotion	Increment withheld.
1. Pilferage of Municipal property such as Store articles, Dietary articles, etc.	9	2	1	1
2. Misbehaviour, Misconduct etc.	9	10	1	82
Total :	18	12	2	83

The Departmental Enquiries pending with this department (A. S. Os.) is 128.

III: The Security Department maintains Orderly Room Registers with the Security Officer and Asstt. Security Officers & the Staff of Security—Department is placed in the Orderly Room. The persons found guilty of minor defaults are punished such as cautioned, censured or fined. The punishment imposed is recorded in Orderly Room Registers. The fine Thus recovered from 208 Security Guards amounts to Rs. 250.50 during the year under report. This procedure is adopted in the Police Department & it is found suitable as it gives better control over the men working in the Bombay Municipal Security Force.

The work of theft cases detected & the recovery of stolen property is tabulated below:—

	Total No. of cases	Total property involved Rs. P.	Total property re- covered Rs. P.
Detected	199	24155.34	11169.64
	90		

Cases	Hospitals		Cases	Others	
	Property lost Rs. P.	Property re- covered Rs. P.		Property lost Rs. P.	Property re- covered Rs. P.
Detected	43	3,657.89	Detected	156	20,497.45
	35			55	8,557.75

Hospitals			Others		
I—Municipal employees involved.		43	I—Municipal employees involved.		67
(a) Municipal employees against whom departmental action is taken.		22	(a) Municipal employees against whom departmental action is taken.		20
(b) Municipal employees against whom departmental action is pending.		21	(b) Municipal employees against whom departmental action is pending.		47
II—Municipal employees against whom Police cases were made.		5	II—Municipal employees against whom Police cases were made.		13
(a) No. of employees convicted.		2	(a) No. of employees convicted.		1
(b) No. of employees against whom Police cases are pending.		3	(b) No. of employees against whom Police cases are pending.		12

5. With the expansion of activities of Municipal hospitals viz. (i) L. T. M. G. Hospital, (ii) K. E. M. Hospital & (iii) B. Y. L. Nair Ch. Hospital & Kasturba Hospital, the number of patients attending them has also increased. In order to put a check on the pilferage & other complaints the Security Staff at these hospitals was increased. One additional Security Assistant was also posted at each of these hospitals. This increased strength of Security personnel is showing the desired effect.

6. The Security Force was engaged for special bandobust on Bombay Bunch days, Morchas, Demonstrations etc. The Security Force was also engaged in special bundobust at Corporation Meetings at Corporation Hall. The Security personnel have rendered valuable service during the strike of Municipal employees in August 1972 by remaining on duty round the clock.

7. The Security Force conducts the Industrial Unit of the Home Guards for Municipal employees and there are 109 members enrolled on it at present.

8. The Security Force participates in Flag Salute Ceremony on the Republic Day (i.e. 26th January) and Independence Day (i.e. 15th August) every year when special staff is called for Parades at the occasions.

9. The Security Force has got its own Training School for the Security Guards & during the year under report 289 Security Guards (Recruits) were imparted Training.

10. The total expenditure on the Establishment of Security was Rs. 72,48,781.81 & there were 2350 men working on the Establishment which includes Officers, Sub-ordinates & Labour Staff. The Security Force recruited 272 candidates as Security Guards during the year under report.

G. H. SALUNKHE,
B.A. (Spl.)

Security Officer I/C,

ADMINISTRATION REPORT OF THE EXECUTIVE HEALTH OFFICER FOR THE YEAR 1972

SUMMARY OF THE ADMINISTRATION REPORT OF THE PUBLIC HEALTH DEPARTMENT FOR 1972.

Total expenditure :

	Rs.
(i) Maternity and Child Welfare	...
(ii) Pre-school and school health services	...
(iii) Prevention and control of infectious diseases, maintenance of vital statistics, pest control, public health laboratory, food sanitation, Prevention of food adulteration and control over certain other trades connected with public health and regulation of places for disposal of dead, etc.	5,75,61,120.00

Income : Issue of licences, certificates of birth/death registry and other miscellaneous fees, etc. Rs. 20,55,150.00

(A) Control on Food Adulteration :

Samples under P. F. A. Act	9,570
—Adulterated	1,068
Prosecutions	771
Fine amount	Rs. 88,530

(B) Grading of Eating Houses :

No. of Eating Houses :—	5,181
I—Grade	95
II—Grade	675
III—Grade	4,377
Without grades	34

(C) Food Establishment Licensed :

14,402

(D) Grading of bakeries :

No. of bakeries	352
I—Grade	3
II—Grade	20
III—Grade	327
without grade	2

Vital Statistics :

Births registered :	1,67,821
Deaths registered including infant mortality death	58,549
Infant deaths	13,445
Notifiable Diseases reported	31,737

Plague, Cholera, Smallpox :

	No cases.	
	Cases	Deaths
Enteric fever:	899	48
Poliomyelitis :	844	88
Infectious Hepatitis:	2,610	189
Diphtheria :	1,253	85
Tuberculosis	26,090	6,349
Imported cases of smallpox	10	3

Immunization :

Anti-Typhoid :	5,92,389
Anti-Cholera :	6,65,979
B. C. G. to new-born	49,118

	1st dose	2nd dose	3rd dose
Polio	70,390	50,645	41,045
Triple	37,407	25,425	22,453
Tetanus	94,291	20,606	14,141
Diphtheria	60,880	34,650	...

Venereal Diseases cases treated: 18,154

Malaria : Inspections were carried out to detect mosquito breeding places. Breeding places detected were destroyed by treating with larvicides.

National Malaria Eradication Programme which was introduced in 1962-63 is now under the consolidation phase.

Hygiene

Maternity and Child Welfare Services were rendered through 20 municipal maternity homes and 35 centres.

Deliveries conducted	...	65,935
Cases treated at the clinic	...	3,08,349
7. General Hospitals :		
Total beds	...	1,618
Indoor patients treated	...	2,94,074
Outdoor patients	...	30,48,294
Family Welfare Planning :		
I. U. C. D. Insertions	...	2,041
Vasectomy operations	...	29,516
Tubectomy operations	...	11,269
Condoms distributed	...	34,90,058
Municipal dispensaries	...	92
Mobile dispensaries	...	15
New cases	...	29,08,138
Total attendance	...	107,99,402
Eye Hospital at kamathipura : New cases	...	35,095
Total attendance	...	1,41,518
Upgraded dispensaries	...	16
Total samples examined	...	47,601
Screenings done	...	13,549
Vaccination Branch :		
Primary vaccinations	...	1,92,376
Re-vaccinations	...	17,39,258

As a result of implementation of Smallpox Eradication Programme there was no local case of Smallpox in Greater Bombay.

Municipal laboratory received 39,846 samples for examination during 1972.

Total water samples	...	18,033
Found unfit for potable purposes	...	2,624

School Health Works :		
Medical Inspection of Municipal Schools	...	970
Students examined	...	1,25,834
Defective students	...	1,06,177
Mobile Health Unit :—		
Medical Inspection of schools	...	232
Children medically screened	...	33,089
Immunization in schools	...	1,29,525
In field	...	2,04,942

Outstanding activities

12 new dispensaries opened.

One maternity home at Deonar and 1 general hospital at Chembur. 2 blood banks one at Dr. R. N. Cooper Juhu Hospital and 1 at Rajwadi Hospital, Ghatkopar were opened.

Specialised Department (E. N. T., Orthopaedic, Ophthalmology and Dermatology) upgraded Pathological laboratory, new O. P. D. at Rajwadi Municipal General Hospital, Ghatkopar.

One Paediatric ward at Borivli Hospital and one Paediatric ward at Kurla Hospital.

Dental clinic at Kolsa Mohalla. Extension of 20 beds to the Goregaon Maternity Home.

Suggestions

(1) To achieve the target of 240 dispensaries for 60 lakh population, efforts are made to obtain suitable plots for structures. More funds are also necessary.

(2) 12 additional dental clinics are necessary.

(3) Casualty Department at Rajwadi and Borivli Hospitals are necessary.

(4) Expansion of hospitals : at Borivli Hospital work of providing 60 additional beds is in progress. Also at Rajwadi Mulund, Juhu and Chembur, Expansion is under consideration.

DR. D. V. PARULEKAR

M.B.B.S., D.P.H., M.P.H., (U.S.A.)

Executive Health Officer.

**ADMINISTRATION REPORT OF THE
EXECUTIVE HEALTH OFFICER
FOR THE YEAR 1972**

Population.—The mid-year estimated population *viz.* 62,92,000 for Greater Bombay for 1972 has been taken as the basis for working out the rates of vital statistics.

Rainfall.—The total rain-fall in millimetres recorded at the Colaba Observatory was 1511.7 mm. It was below normal by 293.1 mms. It rained on 54 days as against 101 in 1971 and 113 in 1970. The wettest month was June, with a rain-fall of 732.1 mms.

At the Santacruz Observatory the total rainfall recorded was 1635.0 mms. as against 2697.2 mms. June was the wettest month with a rainfall of 693.3 mms.

Outstanding Activity of the year

The following new Municipal Medical institutions were opened from 1st January, 1972 to 31st December 1972.

Date of opening	Name of the dispensary and location
17-1-1972	Sanitary Institution Building, Samaldas Gandhi Marg, Bombay 2.
25-1-1972	Dhaku Prabhu Wadi, Chodapdeo, Bombay 33.
18-2-1972	Head Office, Extension Building, Mahapalika Marg, Bombay 1.
16-4-1972	Nawab Tank Bridge, Dock Yard Road, Bombay 10.
22-4-1972	Nemani Compound, Swami Vivekanand Road, Malad.
11-5-1972	Siddharth Nagar, Bapty Road, Kamathipura.
2-10-1972	Municipal School Building, Trombay.
13-10-1972	Plot No. 162, Scheme 57, Wadala, Opp. V. J. T. I.
18-10-1972	Chinchawali, Squatters Colony, Goregaon (East).
11-11-1972	Christian Village, Kurla.
23-11-1972	Love Grove Pumping Station, Dr. Annie Besant Road, Worli, Bombay 18.
9-12-1972	55, Sewree Cross Road, Opp. Old Post Office, Rafi Ahmed Kidwai Road, Bombay 14.

MATERNITY HOME

10-10-1972 Municipal Maternity Home, Deonar.

Hospital

27-5-1972 Diwalibai Mohanlal Mehta (MAA) Hospital, Sarvodaya Estate, Chembur, Bombay.

Opening of Blood Bank, Specialised Departments, etc.

10-1-1972 Blood Bank at R. N. Cooper, Municipal General Hospital, Juhu.

6-5-1972 Specialised Department (E. N. T., Orthopaedic Ophthalmology and Dermatology) up-graded Pathological Laboratory and New O. P. D. at Rajawadi Municipal General Hospital, Ghatkopar.

31-5-1972 Paediatric Ward at Harilal Bhagwati Municipal General Hospital, Borivli.

3-10-1972 Paediatric Ward at K. B. Bhabha Hospital, Kurla.

12-10-1972 Dental Clinic at Kolsa Mohalla, Bombay 3.

16-10-1972 Extension of 20 beds to the Municipal Maternity Home at Station Road, Goregaon, (West).

26-12-1972 Blood Bank at V. C. Gandhi and M. A. Vora Municipal General Hospital, Rajawadi, Ghatkopar.

PUBLIC HEALTH ADMINISTRATION

I.—GENERAL SANITATION

(A) Food Sanitation, etc.—This includes enforcement of sanitation and hygiene in food establishments, check on hawkers, of food, and destruction of unwholesome articles of food. Control over food establishments is exercised under the conditions of licences issued under sections 394 and 412-A of the Bombay Municipal Corporation Act, and under the Maharashtra Prevention of Food Adulteration Rules, 1962. There is also a system of Medical Examination of food handlers (cooks and cook-mates) in eating houses so as to prevent the spread of various diseases through articles of food.

(B) Grading of Eating Houses.—The scheme for grading of eating houses introduced from the year 1961 contemplates improvement of sanitary etc. conditions obtainable in eating houses, by introducing the element of competition amongst the licensees. Grades I, II, and III are determined on the basis of marks secured out of 100, allotted for the observance of the conditions of eating house licences and provision of special arrangements such as sterilising of all utensils, cups, dishes, etc., additional arrangements for periodical cleanliness of the premises and tables, cleanliness of the servants and their uniform, refrigeration for food preservation and periodical medical examination of all employees, etc. The grade allotted to an eating house is required to be exhibited in the prescribed form conspicuously at the entrance of eating houses. Eating houses securing less than 35 marks out of 100 are not allotted any grade, nor are allowed to be licensed and they come under prosecutions till they either improve the conditions or close down.

(C) **Grading of Bakeries.**—Almost on similar lines as eating houses, grading of bakeries in Greater Bombay has been introduced from September 1964 so that the conditions obtainable in bakeries may be improved by competition. The special arrangements that upgrade a bakery are, *inter alia*, arrangements for cleansing and sterilizing all utensils and other appliances, personal hygiene of the staff, special retiring room for workers, perfect fly-proofing of the bakeroom and the store-room, use of electric oven for baking etc. Bakeries securing less than 35 marks out of 100 are not allotted any grade nor are allowed to be licensed and are subjected to prosecutions till they either improve or are discontinued.

(D) **Water Supply.**—The city continued to receive chlorinated water supply from Tansa, Vaitarna and Vihar and filtered water supply from Ulhas and Tulsi lakes. Constant check on the quality of water supply and dosage of chlorine was exercised through systematic sampling and analysis of water at various points in the supply and distribution system.

(E) **Drainage.**—The work of laying sewers and storm water drains in Mandvi Town Planning Scheme in roads bounded by Masjid Siding, Clive Road Cross Lane, Kurla Street, and Masjid Siding Road is mostly completed in all respects.

(F) **Prevention of Food Adulteration.**—This includes sampling of articles of food stored, sold or exposed for sale, etc. for checking adulteration and misbranding of food, under the prevention of Food Adulteration Act, 1954. This work is being done by the Food Inspectors appointed for the purpose, under the provision of the Act. There is a counter over the Food Inspector by a mobile squad provided with a van for swifter and surprise sampling. Food establishments and food hawkers are also licensed under the Maharashtra Prevention of Food Adulteration Rules, 1962.

II—VITAL STATISTICS

Births and Birth rate.—The live births registered were 1,67,821, which were 3,528 more than those for 1971 and 8,764 above the average of the quinquennium 1967-71. Of the registered births, 89,006 were males and 78,815 females, giving a proportion of 113 males to 100 females. The birth rate was 26.7.

Deaths and Death rate.—The deaths registered from all causes were 58,549 as against 57,245 in 1971, being 3,527 more than the mean mortality of the preceding 5 years.

The death rate was 9.3 as against 9.5 in 1971. 22.9 per cent. of the total deaths were among infants below 12 months. Of these 38.4 per cent were recorded as due to congenital malformation and diseases of early infancy.

Mortality by sex and age.—Of the 58,549 deaths, 34,556 were among males and 23,993 among females. The excess of deaths among males may be ascribed to the slight preponderance of males in the population, their number being nearly 59.0 per cent of the total population. The death-rate among males was however, actually higher than that among females. On the basis of 1971 census population, the male death-rate was 9.9 and the female death-rate 9.6 as against 9.8 and 9.4 respectively in 1971.

Principal causes of deaths.—Diseases of the respiratory system claimed the highest number of deaths as in the past, with a death-rate of 1.8 per 1,000 of population. A large proportion of deaths from respiratory diseases occurred among infants and children under 5 years of age. The causes coming next on the list for the year were tuberculosis, congenital malformation, and diseases of early infancy, diarrhoea, early infancy, diarrhoea and dystemtery.

Infant mortality.—Death among infants under 1 year of age numbered 13,445 which were 472 more than in the preceding year and 207 more than the annual average of the quinquennium 1967-71. The infant mortality rate for the year was 80.1 per 1,000 live-births as against 79.0 in 1971.

Of the 13,445 infant deaths, 12,509 *i.e.* 93.0 per cent were among infants born in Greater Bombay and 936 *i.e.* 7.0 per cent. were among those born outside Greater Bombay. The births of these 936 infants were naturally not registered in the Greater Bombay birth registry. Excluding these 936 deaths, the infant mortality rate would be 74.5. How much of this reduction in the rate could be set off against the deaths of infants occurring outside Greater Bombay though born and registered in the Greater Bombay, cannot be estimated but in the absence of any specific cause of evidence of emigration, the number must be small and, therefore the infant death rate after correction for residence would not be much above 74.5 *i.e.* 5.6 less than the recorded rate 80.1.

Causes.—8,634 or nearly 64.6 per cent, of the total infant deaths were due collectively to diseases of the respiratory system, congenital malformation and diseases of early infancy, as against 64.8 per cent. in 1971. Diarrhoea and Enteritis caused 1,793 deaths, Dysentery 68 and Convulsions 22 deaths. Deaths from Smallpox were Nil and Measles 27 Poliomyelitis caused 25 deaths.

Quinquennial average.—Compared with the annual average of the preceding five years, the total deaths among infants in 1972 were 207 more, increase of 144 Diarrhoea and Enteritis 11 under Dysentery and 187 under Diseases of Respiratory systems and 8 under Poliomyelitis was recorded. Decrease of 37 under Smallpox 29 under Measles 20 under convulsions and 87 under Congenital Malformation and diseases of early infancy was recorded.

Age at death.—The infant deaths in the first week of life were 5,495 or 40.9 per cent. and in the age group of 1 to 4 weeks, it was 2,594 or 19.3 per cent. of the total. Thus, 8,089 infant deaths or 60.2 per cent. of the total number occurred in the first month of life. In the next two age-groups *viz.* 4 weeks to 6 months and 6 to 12 months, the infant deaths numbered 3,405 and 2,411 respectively constituting 25.3 per cent. and 17.9 per cent. of the entire infant mortality.

The maternal mortality numbered 101 and the rate being 0.6 per 1,000 live births as against 0.5 during 1971.

Cemeteries.—There were in all 120 cemeteries in use in Greater Bombay. Of these, 20 were Municipal managed and at 5 private cemeteries amenities were provided of Municipal Cost. One cemetery from extended suburbs as registered.

Notification.—Notifications of infectious diseases received from the Medical Practitioners, numbered 1,878 as against, 2,082 during 1971.

Infectious Hepatitis.—2,610 attacks (including 75 originating in the other local areas of India) and 189 deaths occurred due to Infective Hepatitis.

Plague.—This disease was absent.

Rat Control work.—Integrated rat control work by adopting combinations of various anti-rate measures directed at reducing the indoor as well as outdoor population of rats was organised and continued.

Rat destruction.—The total number of rats caught and destroyed in Greater Bombay was 8,80,943 (including 1,76,967 *Rattus Rattus* and 3,21,281 *Gunomys Kok*) as against 6,78,573 in 1971. No rat was found plague infected. Immunity tests on the rats *Rattus* against plague were carried out at the Haffkine Institute and the susceptibility of rats to plague infection was reported as 14 per cent. in *Rattus Rattus*, 12 per cent. in *Rattus Narvegicus* and 82 per cent. in *Gunomys Kok*.

Other anti-plague measures *viz.* flea destruction, especially through cyanogassing of rat holes and thorough cleansing of areas were carried out.

Smallpox.—As a result of the implementation of the Smallpox Eradication Programme, there was no local case of smallpox in Greater Bombay. However, there were 10 cases of Smallpox which has their origin in the other local areas of India. The Deputy Assistant Director General of Health Service (Smallpox) New Delhi was informed accordingly.

Cholera.—This disease was absent. Preventive measures such as anti-cholera inoculations, disinfection of well water, destruction of over-ripe and rotten fruits, were continued and 6,65,979 persons were inoculated against Cholera.

Influenza.—Influenza did not cause any death.

Enteric Fever.—The number of notified cases *viz.* 879 (including 6 originating in other local areas of India) was less by 460 than that in 1971. The total number of deaths was 48 as against 47 in 1971. 5,92,389 persons were inoculated with T. A. B. vaccine. Other preventive measures including D. D. T. spraying as an anti-fly measure, surprise inspection of food establishments, etc., destruction of unwholesome food stuff, propaganda, etc., were carried out as usual, besides treating all cases of typhoid with chloramphenicol, etc. at the Kasturba Hospital for Infectious Diseases.

Acute Anterior Poliomyelitis.—844 cases (including 125 originating in other local areas of India) and 88 deaths were reported due to this disease. 2,29,890 immunizations were carried out.

Diphtheria.—1,253 cases were notified. Of these, 78 were originating in other local areas of India 85 cases proved fatal.

Cerebro spinal meningitis.—This disease caused 4 attacks.

Tuberculosis.—As per the Corporation Resolution No. 1366, dated 13-2-1969, a central T. B. Case Registration Unit has been established under the control of Executive Health Officer. The following preventive measures were taken by the Unit during the year.

1. 27,079 cases of T. B. were notified to this Unit from different T. B. Clinics and Medical Institutions both Municipal and Non-Municipal from all over Greater Bombay.

2. To begin with, domiciliary treatment and follow-up of T. B. patients is to be carried out in E, F and G Wards, only, and 3 T. B. Inspectors and 50 T. B. Investigators will attend to the following work:—

(1) To contact the T. B. patients at Municipal general dispensaries to see that they take Injection Streptomycin regularly as prescribed.

(2) To pay domiciliary visits at the residence of each and every T. B. patient once in a week or fortnight.

(3) To impart health education and to give instructions to adopt preventive measures in order to preclude dissemination of infection in the community. To motivate and re-orient the T. B. patients to take the treatment thoroughly and regularly.

(4) To attend T. B. Clinics once in a week to check the defaulters and take suitable remedial measures for retrieval of defaulters.

(5) To report all suspected close contacts to the nearest T. B. clinic for early detection of T. B. cases.

(6) To maintain 'Family Folders' for T. B. patients for their follow-up. Besides, family folder will show the name of all close contacts, their nutritional status, socio-economic condition, mode of accommodation, occupation, etc.

(7) To maintain 'standard treatment' card for each T. B. patient which will be kept at the residence of the T. B. Patient.

(8) To supply anti. T. B. drugs at the residence of those T. B. patients who are bed-ridden, crippled or infirm.

3. B. C. G. vaccination was given to new-born babies in all Municipal Maternity Homes by trained nurses and to children studying in standard 1st Municipal Primary Schools by B. C. G. Vaccination Team of the State Government.

Examination of specimens.—Sputum specimens sent by the medical practitioners were examined free of charge at the Municipal Laboratory.

Cases of Tuberculosis were admitted to the Municipal Group of Hospitals for Tuberculosis, at Sewri which has an accommodation for 830 in-patients, besides 600 beds are reserved by the Municipal Corporation of Greater Bombay at the Survoliya Hospital, Ghatkopar. The cases directed by the 4 clinics at Shammaaldas Gandhi Marg, Foras Road, Dadar, and Khar were admitted as per the waiting list maintained at the Hospital Outdoor Department after examination by the honoraries. A. P. and P. P. refills and screening were done at the hospital as also at the above four clinics. Advanced cases of tuberculosis were isolated at the Daftary Municipal Isolation Wards at Dadar which has an accommodation for 88 in-patients.

Incidence.—Tuberculosis took a toll of 6349 lives and the death-rate of tuberculosis was 1.0 per 1000 of mid-year estimated population.

Venereal Diseases.—The Municipal Venereal Diseases Clinic is situated at 254, Bellasis Road, Byculla, Bombay 8. It treats Venereal Diseases Cases with the latest methods of treatment after proper clinical diagnosis confirmed by modern laboratory tests carried out at the clinic's laboratory.

Antibiotics like penicillin 'G' in oil, streptopencillin, Benzathine penicillin, Ledermycin capsules and chloromycetin etc., were the drugs of choice in the treatment of Venereal Diseases.

Male and Female patients were examined and treated in separate wings of the clinic maintaining absolute privacy and secrecy.

A refresher course in Venereal Diseases was conducted at this clinic for the benefit of general practitioners, under the joint auspices of the Association for Moral and Social Hygiene, the V. D. Advisory Committee, Maharashtra State, and the Municipal Corporation of Greater Bombay.

The Medico Social Workers, one male and the other female, and the Health Visitor (Auxiliary Nurse) helped in inducing the defaulting patients and married partners to take continued and complete treatment and impressed upon their minds the disastrous after-effects of the disease.

Some female patients willing to be rescued were given aid in rescuing themselves through the Vigilance Branch of the Police Department.

The private medical practitioners who sent blood samples and urethral smears to this clinic for examination, were given the reports confidentially free of charge. Also, 838 samples of blood were received from the Municipal maternity homes and hospitals as well as private medical practitioners, (431 ante-natal and 95 post-natal) for opinions as follows:—

Kamatipura Municipal Eye Hospital	19
Bellasis Road Municipal Maternity Home	231
Savarkar Marg Municipal Maternity Home	153
Andheri Municipal Maternity Home	54
Kamatipura Municipal Maternity Home	88
Private Medical Practitioners	293
Total	838

Of these, 128 were positive for V. D. R. L. or Kahn Test. These positive cases were treated in the respective maternity homes and hospitals for the convenience of the patients.

As many as 18,154 (17,553 males and 601 females) Venereal and 4,123 (3,271 males and 852 females) non-Venereal cases were treated.

Out of 18,154 Venereal Cases, 3,748 were Syphilis, 5,091 were Gonorrhoea and 9,315 were cases for non-syphilitic sores.

On an average, 852 patients were treated daily at this clinic. The clinic played an important part in the control of Venereal Diseases.

Leprosy.—The Acworth Leprosy Hospital was founded in 1890 and since then has been doing commendable work and is also conducting 9 clinics, 5 in the city and 4 in the Suburbs and extended Suburbs, maintained by the Greater Bombay Leprosy Control Scheme whose aims and objects are to control leprosy in Greater Bombay through survey, education and treatment. In addition to providing a hospital for the isolation of 500 patients, either voluntarily admitted, or committed by Magistrates, under the Leprosy Act, the Institution conducts a well-equipped Out-patient Clinic, with facilities for education, case-detection and treatment, including physiotherapy and chemo-prophylaxis, and reconstructive and plastic surgery. Medical social service is also provided. The figures of attendance at the 9 clinics are given below:—

	A. L. Hospital clinic.	G.B.L.C. Scheme (9 clinics).
New Cases	4,479	2,675
Old cases	11,528	9,029
Average daily attendance	280.7	395.42

The Corporation bears the entire cost of the out-patient clinic attached to the Acworth Leprosy Hospital and also additional cost on account of:—

- (1) 48 beds for the voluntary patients domiciled in Bombay.
- (2) approximately 230 beds for the resident patients (domiciled in Bombay), committed under the Leprosy Act,
- (3) Domiciliary service by 6 Health Visitors.
- (4) An amount of Rs. 10,000 (Ten Thousand) every year for Sulphone treatment to out-patients.
- (5) One-third of the recurring expenditure and the entire cost of the capital works such as construction, etc., on account of the Greater Bombay Leprosy Control Scheme activities.

Six Health Visitors appointed by the Municipal Corporation of Greater Bombay and three Medical Social Workers and 3 non-medical Assistants appointed by the Acworth Leprosy Hospital and 7 Health Visitors appointed under the Greater Bombay Leprosy Control Scheme are doing the important work of detecting cases of the diseases among the contacts of the patients. The Medical Officers in charge of the Municipal free dispensaries have also been specially trained for detection of early cases of leprosy.

Under the auspices of the Acworth Leprosy Hospital Society for Research rehabilitation and Education and Education in Leprosy, the following programme were started.

- (1) Annual Essay Competition in Leprosy for Medical Undergraduates.
- (2) Orientation Programme in Leprosy for General Medical Practitioners.

Malaria.—Inspections were carried out for detecting mosquito breeding places and breeding detected was promptly destroyed by treating with larvicides. The urban vector, *A. Stephensi* (larvae) was detected on 4 occasions and rural vector *A. Fluviatilis* and *Culicifacies* were detected on 34 occasions.

Wells.—25 open wells and 2 H. C. C. wells were filled in and 7 open wells were rendered H. C. C.

Cisterns.—Cisterns in Greater Bombay numbered 1,42,918 (City 97,254, Suburbs 37,001, Extended Suburbs 8,663).

Overhead tanks.—All the 214 overhead tanks on mills and other similar premises were maintained in mosquito-proof condition.

Mills tanks.—68 mills tanks in Greater Bombay were periodically inspected and necessary measures were taken to prevent or destroy mosquitos breeding in them. Some of these tanks were kept under insecticidal treatment on payment.

Storm Water Enterances and Drains.—All the Storm Water entrances and drains were kept under regular weekly treatment with larvicides to prevent mosquito breeding.

Precautions against Yellow Fever.—Campaign against *Aedes Aegypti* mosquito, the vector for yellow fever and dengue was continued throughout the year. Breeding of *A. Aegypti* was detected on 83 occasions. *Stegomyia* index for the year was 0.003 per cent.

Statutory actions were taken against the owners of premises etc. to keep their compounds free from breeding of mosquitoes.

Insecticidal services.—Fly and other insect pests likely to cause nuisance and transmit insect borne diseases were reduced as a result of regular anti-fly and other disinfestation measures adopted by the Insecticidal Branch.

Filariasis.—Filaria control programme has been continued with the appointment of additional staff of 3 laboratory technicians, 10 Insect Collectors and other staff. Entomological survey to assess and delimit the transmission of filariasis by mosquitoes was also continued.

Insecticidal treatment on payment of fees in private premises.—The Insecticidal squads operated all over Greater Bombay. Fees of Rs. 3,14,000 were received for the services rendered.

Insecticidal fogging operations.—The fogging operations were continued.

Aerial spraying.—29 Aerial spraying operations were carried out during dry season and 500 acres of marshy inaccessible lands were treated.

National Malaria Eradication Programme.—The National Malaria Eradication Programme in the Municipal Corporation of Greater Bombay was established in 1962-63. The Unit is under consolidation phase at present. The unit covers an area of 168 sq. miles (436.85 sq. km.). Bombay is an island situated on the western coast of Maharashtra State. It is the chief industrial city known as Gateway of India. People, come to the City by air, sea, rail and road. People from other states as well as from other countries are also engaged in various pursuits in suburban areas of Bombay. Some of the adjoining districts of Bombay are malarious. If the people bring potential reservoir and if they are not examined and treated, they are likely to spread the disease in Greater Bombay or in the native place. Hence, to avoid this, the surveillance scheme is introduced. The idea behind the Surveillance Scheme is not to eliminate mosquitoes (vector species) but to eliminate the malaria parasite from the human blood stream, so that even if vector densities increase to pre-control level, there will be no transmission of malaria parasites. Malaria in Bombay prior to 1930 was reported to be hyper-endemic. *A. Stephensi* is the vector in Greater Bombay Municipal area.

For Surveillance purposes, the Greater Bombay Municipal unit is divided into 3 units (1) City, (2) Western Suburbs and Extended Suburbs and (3) Central Suburbs and Extended Suburbs. The city is covered by passive surveillance only whereas the Western and Central Suburbs and Extended Suburbs are covered by both active and passive surveillance. In city, the blood smears are collected from fever patients, attending the Municipal free dispensaries, Municipal and Government hospitals, other charitable institutions and from those treated by private medical practitioners whereas in Suburbs and Extended Suburbs, in addition to above the blood smears are collected by house to house visits and if found positive, radical treatment is given. On an average, 12 to 15 hundred blood smears are daily collected and they are examined in the Malaria Laboratory situated in the premises of old office of Superintendent of Vaccination, Elphinstone Road, Parel, and the results are conveyed to both the active and passive agencies through the inspectorial staff.

In the Surveillance laboratory at Parel, 40 technicians are working in 2 shifts, and the blood smears examined by them are not only checked by the Assistant Health Officer and Assistant Unit Officer, but also 2.5 per cent. and 5 per cent. of the total monthly collection is sent to Biroda and Thana respectively per month for cross-checking in order that no positive cases be missed in the Laboratory examination.

On detection of positive case, the Radical treatment is given to the patient and epidemiological investigation is carried out with the interval of 1 month in the locality where positive case is detected, in order to be sure that the positive case has not transmitted the infection in the locality. Follow-up of each positive case is done by taking blood smear every month for 12 successive months, to ascertain the success of radical treatment.

Surveillance unit is also vigilant about the nomadic population which frequently appears in Suburbs and Extended Suburbs. As soon as the location is noticed, the blood smear from each member of the group is collected and certificate is also issued to them regarding their blood smear examination for the information of the other units of their visits.

In order to make sure that hamlets, isolated houses and slum areas are left with no residual parasitic load, a Bias Mass Survey is carried out in all such places. In addition to this, mass suppressive treatment and mass Radical treatment is carried out wherever necessary.

The Medical institutions partly covered in the year 1971 were fully covered during the year 1972. Which was also kept on the blood donors to prevent them from becoming carriers of malaria parasites.

The Assistant Health Officer (Surveillance) is in overall charge of the whole scheme. There are 4 Assistant Unit Officers who are looking after the active and passive surveillance.

III.—HYGIENE

The Maternity and Child Welfare services were rendered through the 20 Municipal Maternity Homes and four Hospital with Maternity wards and 35 Maternity and child Welfare Centres. The scheduled strength of Maternity beds was 987. The number of deliveries conducted was 65,935. The average stay of mothers in the Maternity Home was 5 days.

Domiciliary care was rendered to impart health education and to carry out health propaganda amongst mothers. The mothers were also guided how to bring up their babies well and persuaded to take advantage of the services at the centres. The Medical Officers in charge Maternity Homes also paid domiciliary visits to supervise and guide the Health Visitors in their work.

Institutional care included ante-natal, natal, postnatal, infant and pre-school age child care, follow-up work, and health education by propaganda through posters, leaflets, group talks, demonstrations and film-shows, etc.

During the natal period, each mother was explained importance of family planning. Milk was given free to the poor and needy expectant and nursing mothers, 3 months before and 3 months after delivery at the Maternity Homes. Poor mothers who delivered at their homes were also given help in the shape of milk.

Arrangements for the post-mortem examination in the cases of certain deaths occurring in Municipal Maternity Homes were continued at the B. Y. L. Nair Hospital.

B. C. G. Vaccination was given to 49,118 new-born babies at 20 Municipal Maternity Homes and 4 Hospitals with Maternity wards after obtaining consent of their parents.

Pædiatric centres were conducted at 7 Maternity Homes with a view to providing a service to the community in which efficient, effective and comprehensive pædiatric care can be given outside the hospital by promoting good growth and development, providing immunization facilities, teaching family and community health as also nutrition. (ii) to reducing the load of hospital O. P. Ds. by referring cases for different Medical care and (iii) to providing a teaching field and educational experience in an urban centre to doctors, nurses and allied workers.

Immunization.—Infants and children aged 6 months and above were immunized with triple vaccine at the Maternity Homes. Polio vaccine was given to the infants and children upto the age of 6 years at the Maternity Homes.

Family Welfare Planning.—With a view to preventing or minimizing maternal and infantile mortality and morbidity, instructions in spacing of birth are given by trained doctors, to married men and women at the family welfare planning centres free of charge. Contraceptives are also given free after demonstrating the use of the same.

These activities are conducted under the supervision of the Special Officer in charge Family Planning F/South Ward Municipal Office, Dr. Ambedkar Road, Parel.

Summary of the work done:—

(1) I. U. C. D. insertions	...	...	...	2,641
(2) Vasectomy operations	...	...	...	29,516
(3) Tubectomy operations	...	...	...	11,269
No. of condoms distributed	...	...	...	34,60,058

SCHOOL HEALTH WORK

(1) Medical Inspection of School Children

(a) *Primary Schools.*—Pupils in standards I to IV and V to VII in 962 Municipal Primary Schools and 104 classes in Greater Bombay numbered 5,42,460.

The Medical Inspection was conducted in 970 schools and classes by the Assistant Medical Officers (Schools) and Medical Examination of 1,25,834 children (65,587 boys and 60,247 girls) studying in standards I and III as well as of those from standards II and IV who remained unexamined during the previous year was done this year.

As many as 1,06,177 children were found defective. The defects were communicated to their guardians. The total defects noticed amongst the children were 2,28,527. The guardians of 2,173 children were interviewed by the Assistant Medical Officers (Schools) and were explained the necessity of getting their wards investigated and treated.

The percentage of defectives to the total defectives i.e. 1,06,177 in 1972 was as follows:—

Serial No.	Defects	Total defective in	Total defective in
		1972 : 1,06,177	1971 : 1,09,825
		Percentage 1972	Percentage 1971
(1) Dental	...	68.13	69.87
(2) Throat	...	30.66	28.52
(3) Nose	...	16.95	16.35
(4) Eye (External)	...	4.23	4.84
(5) Eye (Vision)	...	1.45	1.44
(6) Ear diseases	...	6.87	6.63
(7) Enlarged lymphatic glands	...	29.19	28.23
(8) Heart and circulation	...	1.33	1.28
(9) Lungs and Tuberculosis	...	0.80	0.77
(10) Spleen	...	0.01	0.01
(11) Skin (Contagious)	...	4.84	3.86
(12) Deformity of bones and rickets	...	1.90	1.78
(13) General debility	...	54.46	44.76
(14) Other diseases	...	9.18	10.24

(b) *Secondary Schools.*—Out of 18,911 children studying in 27 Municipal Schools (Secondary) 18,639 were medically examined and 11,518 were found defective.

(2) Follow up

(a) *Corrections of defects.*—The number of children treated at each clinic was as below:—

School clinic at	New cases	Repeaters
L. T. M. G. Hospital, Sion	2,200	10,177
K. E. M. Hospital	2,067	15,854
Nair Hospital	2,341	21,910
Nair Hospital Dental Clinic at Dental College, Nair Hospital...	1,235	5,141
Lions Juhu Dental Clinic	1,249	4,170
H. B. M. General Hospital, Borivli	184	1,026
	9,276	58,278

(b) 710 cases with minor ailments were treated in the Municipal dispensaries. 2,997 children were referred to the honoraries of the out-patients' department for expert opinion. 248 cases of tonsils were operated at the school clinics. 1,135 children suffering from scabies, ringworms, boils, etc. were treated in the schools by the Assistant Medical Officers (Schools). 23 students were supplied special aid such as calipers hearing aid, etc. 430 children were supplied with spectacles free of charge. 184 children were found suffering from Leprosy out of whom 21 children were disallowed from attending Municipal schools as they were contagious. The parents of the children suffering from Leprosy were advised of the importance of regular treatment.

(c) 384 children suffering from tuberculosis were treated in clinics.

(3) Sanitary Inspection of school Buildings

The school buildings were inspected from the sanitary point of view and the reports were sent to the departments concerned, for necessary action.

(4) Health Education

(a) 990 and 2,601 Health talks were given in schools by the Assistant Medical Officers (Schools) and Health Visitors respectively.

With a view to improving school health services, the following activities were conducted.

(b) 45 meetings of parents and teachers were organised by the Medical Inspection Branch in the school premises. Educational films were shown as well as informative talks were given at these meetings.

(c) *Health Ministry*.—Health Ministry was formed by selecting one or two students of each standard viz. IV to VII in some of the Upper Primary schools to look after the sanitation of school environment. This Ministry was guided by the school teachers every day and by the Assistant Medical Officers and Health Visitors periodically.

(d) *Health Trophy Scheme*.—This scheme was introduced so that the school children inculcate proper health habits. 176 schools were included in this scheme.

Two schools standing first in the city and 2 schools standing first in the suburbs and extended suburbs were awarded Health Trophies and first three schools were awarded certificates of merits.

(e) *Health Parades*.—Under this scheme, Health Parades were held in a few selected lower primary schools where the school teachers inspected students for personal hygiene daily. The Assistant Medical Officers (Schools) and Health Visitors (Schools) visited and inspected the students once in a month to give marks to the children for personal hygiene and cleanliness. The first two children from each class who secured highest number of marks were given prizes as an encouragement.

(5) Supply of milk to the ailing children

8,352 ailing children attending school clinics at the K. E. M. Hospital and 3,343 children attending the dental clinic at Nair Hospital Dental College were supplied with 200 ml. toned milk each and 200 ml. double toned milk was supplied to 3,300 and 6,350 children attending the Nair Hospital school clinic and the L. T. M. G. Hospital, Sion School Clinic respectively.

Supply of milk buns, peanuts and biscuits to the children attending Municipal schools by Education Department:—

Milk.—2,35,000 children daily 200 ml. per child.

Buns.—1,40,000 children daily 50 grams bun in polythene packet per child.

Peanuts.—2,90,000 children daily 20 grams peanuts in polythene packet per child.

Biscuits.—5,00,000 children, on alternate days 15 gram biscuits per child.

Sukhadi.—7,000 children daily 50 grams per child on experimental basis for one month.

(6) Child Welfare Centre

Child Welfare Centre at the J. J. Group of Hospitals which is a part of the World Health Organization Nursing Education Project, assisted the Municipal Inspection Branch in the Health Programme in 2 Municipal schools located in the hospital compound, where 320 children were treated.

649 children were examined by the Department of Preventive and Social Medicine, Topiwala National Medical College, 279 by the Department of Preventive Social Medicine, L. T. M. G. College, Sion and 207 by the Preventive and Social Medicine, G. M. S. College, Parel.

(7) Immunization

Immunization.—The Immunization work was carried out in Municipal Schools as follows:—

(a) Diphtheria and Tetanus	1st dose	...	51,407
	2nd dose	...	29,273
(b) Smallpox		...	1,14,737
(c) B. C. G. Vaccination		...	53,604
(d) T. A. B. C.		...	2,65,339

Immunization work was carried out by Mobile Health Unit also in addition to the abovementioned work.

8.—Emergency Care

First Aid was rendered at the time of sports, Mass drills, scout rallies, Sharadotsav, etc. organized by the Municipal Education Department.

9.—Lectures

Lectures on Health Services for children of school-age, were given by the Medical Officer (Schools) to the students attending D. C. H. course, Sanitary Inspectors' Course, Post-Certificate Paediatric Nursing Course and D. P. H. Course.

The Mobile Health Unit

The Mobile Health Unit working under the supervision of Dr. D. N. Pai, Honorary Director, Mobile Health Unit and Professor of Preventive Social Medicine. Seth Gordhandas Sundardas Medical College, performed the following activities in the Municipal Schools and in the field from 1-1-1972 to 31-12-1972 as per its stipulated objectives as under:—

(1) Comprehensive Health Care to the Municipal School Children.

The Mobile Health Unit assisted the Medical Inspection Branch working under the control of Medical Officer (Schools) in conducting the medical inspection in 232 Municipal Schools 33,089 children from standard 1st to 3rd were medically screened.

(2) *Control of communicable diseases.*—Immunization procedures against various communicable diseases performed both in the Municipal Schools and in the field were as under:—

	Immunization		
	In schools	In field	Total
Diph. Tetanus—			
1st does	...	1,374	1,374
2nd does	...	297	297
Triple—			
1st does	...	1,636	1,636
2nd dose	...	1,073	1,073
3rd dose	...	943	943
Booster dose	...	368	368
Polio—			
1st dose	...	1,975	1,975
2nd dose	...	1,151	1,151
3rd dose	...	1,144	1,144
Booster dose	...	398	398
Tetanus Toxide	...	30	30
T. A. B. C.	...	48,226	93,237
Cholera	...	48,226	93,237
Smallpox	...	31,402	1,37,604
		<u>1,29,525</u>	<u>2,04,942</u>
			<u>3,34,467</u>

(c) Health Drives and Family Planning Exhibitions

In addition to general health education performed and the mass immunization carried through its Units, 25 Health Drives, 20 Family Planning Exhibitions in the different localities, mills and factories were held.

The Family Planning Fortnight was organized from 16-9-1972 to 30-9-1972 in association with the Family Planning Unit.

Six information-cum-distribution centres with facilities for Vasectomy Operations were conducted in co-operation with the Central and Western Railway authorities. The activities at these centres included lectures by the eminent speakers, film shows, instructions on family planning, distribution of contraceptives and literature thereon.

4. *Training of medical and para-medical personnel.*—536 medical interns from Municipal Medical College were trained in Urban Health Practice.

5. *Any other medical problem of medical emergency.*—Special efforts for taking comprehensive health care and family planning to slum areas were made during this year.

IV.—MEDICAL RELIEF

Municipal General Hospitals

The Public Health Department conducted seven general hospitals in the suburbs and extended suburbs.

Free Dispensaries

New cases treated at the 92 dispensaries and 15 mobile dispensaries were 29,08,104 as against 27,10,545 in 1971. The total attendance was 1,07,99,402 as against 1,00,07,699 in 1971.

Clinics for women and children were conducted by 3 part-time Lady Doctors at 6 Municipal dispensaries for two hours thrice a week. New cases treated were 2,003 (1,808 women and 195 children) as against 1628 in 1971. The total attendance was 12,011. These figures include visits by the Lady Doctors to patients at their homes. At the 35 maternity and child welfare clinics, 3,08,349 new cases, 2,16,297 women and 92,052 children were treated. The total attendance was 7,26,316.

The Municipal Eye Hospital at Kamathipura was in charge of the part-time Superintendent who is assisted by two Resident Assistant Medical Officers in clinical and administrative work. Besides, there are eight honoraries who attend on alternate days.

The total number of new cases treated and the total attendance was 35,095 and 1,41,518 as against 40,729 and 1,46,768 respectively during the previous year. The number of indoor patients amongst new cases and total attendance was 1,838 and 18,151 respectively.

The Medico-social Unit, established in April 1957 at Kherwadi, Bandra, by appointing a Medico-Social Worker, in order to carry out an integrated practice of medicine based on the family and community as a Unit continued working. The medical personnel specialising in different fields of medicine and working at the Kherwadi Family and Community Health Centre, a Voluntary social organization, rendered honorary service at the Unit.

Ambulance Service

(1) Fire Brigade Head Quarters, Byculla, For removal of cases of maternity and of street accidents (free) and non infectious medical case on payment within Greater Bombay Municipal Limits.

(2) Ambulance Garage, Sane Guruji Marg, for Infectious Diseases cases (free) and dead bodies (on payment) within Greater Bombay.

An ambulance is also attached to each of the undermentioned Municipal Medical Institutions which is made available to public for removal of patients within Greater Bombay Municipal limits at the rate of Rs. 8 for the 1st hour and Rs. 4 for each subsequent half-hour or fraction thereof.

Name of the Municipal Medical Institution	Working hours
(1) K. B. Bhabha Hospital, Bandra	... Round the clock (Private calls from 9 A.M. to 5 P.M. only).
(2) Dr. R. N. Cooper Municipal General Hospital, Juhu	... Round the clock.
(3) K. B. Bhabha Hospital, Kurla	... Between 7 a.m. and 3 p.m. only.
(4) Municipal General Hospital, Rajawadi, Ghatkopar	... Round the clock.
(5) Shri Harilal Bhagwati Municipal General Hospital, Borivli	Round the clock.
(6) Municipal Maternity Home, Bhandup	... Between 8 a.m. and 4 p.m.
(7) Municipal Maternity Home, Mulund	... Round the clock.

Upgraded dispensaries.—There has been considerable overcrowding at the outpatients' department of the Municipal General hospitals, making it difficult for the medical staff of the hospitals to pay adequate attention to each patient. The overcrowding in the outpatients' department is due to the attendance of a large number of patients requiring only dispensary treatment. With a view to relieving the general hospitals of the heavy load of patients 13 general dispensaries in the beginning were with the approval of the Corporation by their Resolution No. 286, dated 8-5-1969, upgraded by providing the great facilities for screening and routine laboratory investigations. Three more dispensaries were upgraded. The total number of such upgraded dispensaries was sixteen during the year.

V.—HEALTH PROPAGANDA AND EDUCATION

The Health propaganda and education were carried out through the Public Relations Department.

VI.—MUNICIPAL LABORATORY

During the year Shri R. S. Chatim held the post of Municipal Analyst and Public Analyst and Sarveshri P. S. Joshi and R. M. Balvalli as additional Public Analysts, under the Prevention of Food Adulteration Act, 1954.

The Municipal Analyst continued to be a member of the following committees :—

- (1) Pesticide Sub-Committee of the Indian Standards Institution.
- (2) Water Sectional Committee of the Indian Standards Institution.
- (3) Food Hygiene Sampling and Analysis Sectional Committee of the Indian Standards Institution.
- (4) Air Pollution Sub-Committee of the Indian Standards Institution.
- (5) Panel for Microbiological tests of the Water Sectional Committee of the Indian Standards Institution.
- (6) Composition of the Water for Industrial Purposes Sub-Committee of the Indian Standards Institution.
- (7) Composition of processed Cereals and Pulses, Sectional Committee of the Indian Standards Institution.
- (8) Chemical Standards Sectional Committee of the Indian Standards Institution.
- (9) Committee for the detection of Argenone Oil in Foodstuffs (under Directorate General of Health Services).

The Laboratory continued to be of assistance to the several departments of the Municipal Corporation in the examination of samples of various articles sent by them but the important items examined in the laboratory in large numbers were samples of foods of all kinds under the Prevention of Food Adulteration Act, 1954 and water samples collected from Greater Bombay. In addition to this, samples of food-stuffs were also received from the Food and Drug Administration, Maharashtra State, for Analysis under the Prevention of Food Adulteration Act, 1954.

The Laboratory received 39,846 samples as against 35,196 in the preceding year. Categorywise, they arrange themselves into the following groups:—

I.—Chemical Examination

1. Food (i) P. F. A. Act.	10,167
(ii) Other than P. F. A. Act.	4,093
2. Water samples	4500,
Chemical	
3. General Stores	342
4. Hospitals	108
5. Miscellaneous	260
	20,010

II.—Bacteriological Examination

1. Water (i) from city and suburbs	17,412
(ii) From Bombay Port Trust area	621
2. Disinfectants	24
3. Foods	1,779
	19,836

III.—Clinical Examination

1. Urine ... ..	...
2. Blood for general examination ... ..	...
3. Stools ... ..	...
4. Semen ... ..	...
	Total

Water sampling programme was continued as usual. The sampling was done both in the morning and evening so as to cover all the wards.

The Municipal Analyst attended courts in the City to give evidence in 14 cases under the Prevention of Food Adulteration Act.

I.—Chemical

1. *Samples of food-stuffs.*—Examined chemically were 15,710 of these, 10,167 were examined under Prevention of Food Adulteration Act, 1954.

2. Of the 5,040 samples of water examined, 124 of well water and 186 from other sources were found unfit for potable purposes.

3. As many as 260 samples of different kinds such as soaps, paints, varnishes, articles of stationery (i.e. different kinds of inks and gums), drugs, chemicals, etc., were received from different departments and from members of the public.

II.—Bacteriological

1. Of the 18,033 samples of water from Greater Bombay examined 153 of well water and 2,624 from other sources were found unfit for potable purposes.

Out of 621 samples collected from the Bombay Port Trust area, none was found unfit for potable purposes.

2. 24 samples of disinfectants were examined to determine the Rideal Walkar Co-efficient.

3. Of the 404 samples of food-stuffs examined, 66 were found unfit human consumption.

III.—Clinical

No sample of urine was received from the Municipal Medical Institutions or from private parties. Not a single sample of miscellaneous nature such as stools, semen, was received for examination.

VII.—KASTURBA HOSPITAL FOR INFECTIOUS DISEASES

Dr. R.S. Deshpande, M.B.B.S., D.P.H. Medical Officer continued to be in full charge of the administrative work of the Medical Superintendent in addition to his own. With a view to upgrading this Institution and putting medical relief work on a better footing, the Honorary physicians and Paediatricians appointed in 1964 continued to visit this hospital twice a week. One additional post of Honorary Paediatrician was created to fulfil the UNICEF's condition for the establishment of a Paediatric teaching centre in communicable diseases.

- | | | |
|-------------------------|-----|---|
| (1) Dr. V. V. Shah | ... | M.D. (Bom.), M.R.C.P.E. (Lond), F.C.C.P. (U.S.A.), M.B.C.P., F.I.C.A., F.R.C.S.—Retired from 15-7-1972 due to superannuation. |
| (2) Dr. L. R. Patel | ... | M.D., M.R.C.P., F.C.P.S. |
| (3) Dr. A. F. Golwala | ... | M.D., F.C.P.S. |
| (4) Dr. N. M. Shah | ... | M.D. (Bom), M.R.C.P. (London), Appointed from 22-7-1972. |
| (5) Dr. P. E. Bharucha | ... | M.D. (Lond), D.C.H. (Lond), (Hon. Paediatrician). |
| (6) Dr. N. S. Tibriwala | ... | M.D., D.C.H. (Hon. Paediatrician). |

The following Assistant Physicians (part-time) who attend daily continued to help the Honorary Physicians.

- | | | |
|-------------------------|-----|----------------------|
| (1) Dr. S. A. Kamat | ... | M.D. |
| (2) Dr. V. S. Ajgaonkar | ... | M.D., F.C.P.S. |
| (3) Dr. A. J. Mehta | ... | M.D. |
| (4) Dr. B. L. Varudkar | ... | M.D., F.C.P.S.D.H.C. |

The following consulting Honorary staff was attached to the Hospital:—

- | | | |
|---------------------------|-----|--|
| (1) Dr. L. H. Hiranandani | ... | F.R.C.S., D.L.R.O., F.C.P.S. Honorary E. N. T. Surgeon |
| (2) Dr. J. V. Desai | ... | M.S., D.L.O. (Lond), Honorary E. N. T. Surgeon. |
| (3) Dr. V. N. Purandare | ... | M.D., F.R.C.S., Honorary Obstetrician and Gynaecologist |
| (4) Dr. K. V. Chaubal | ... | M.S., F.R.C.S. (Eng.) P. M.C.H. Orth. (Liverpool), Honorary Orthopaedic Surgeon. |
| (5) Dr. C. A. Talwalkar | ... | M.S., Honorary Orthopaedic Surgen. |
| (6) Dr. S. C. Desai | ... | M.D., Honorary Dermatologist and Venereologist. |
| (7) Dr. D. G. Mody, | ... | M.B.B.S., D.O., D.O.M.S., Honorary Ophthalmic Surgeon. |
| (8) Dr. N. S. Vahia | ... | M.D., Honorary Psychiatrist |
| (9) Dr. R. G. Ginde | ... | M.S., F.I.C.S., F.A.C.S., Neuro-Surgeon. |
| (10) Dr. Janak Mehta | ... | M.B.B.S., D.A., Honorary Anaesthetist. |
| (11) Dr. R. B. Raut | ... | L.D.Sc., Honorary Dental Surgeon. |
| (12) Dr. S. C. Sheth | ... | M.D., F.R.C.P. (Lond), F.A.A.P., F.A.Sc., F.C.P.S., D.C.H. |

Honorary Consultant, Paediatrician (without Honorarium from 16-12-1971).

- | | | |
|----------------------|-----|--|
| (13) Dr. M. M. Mehta | ... | M.B.B.S., D.M.R.E., Honorary Radiologist |
|----------------------|-----|--|

As the activities of X-Ray Department increased one post of Honorary Part-time Radiologist was created and as a temporary arrangement, Dr. R. S. Pradhan, Honorary Radiologist of B. Y. L. Nair Hospital was appointed to look after the said work. As he proceeded on leave from 1-9-1971, Dr. G. R. Jankharia, M.B.B.S., D.M.R.E. (Bom.), D.M.R.D. (Lond), F.R.R. (Eng.), was appointed.

(1) Medical Record Department

The record system is being planned as per the Vellore system with a view to rendering quick medical relief to the patients and helping the medical staff and post-graduate students in carrying out the research work. All the discharged case papers are preserved properly and made available to the medical staff when required. All the discharged case papers are coded disease-wise. Diagnosis sheets are prepared so as to be able to furnish the statistical data to the medical staff, post-graduate students or Municipal authorities, etc.

(2) Infectious Hepatitis Out patient Department

For treating mild cases of Infectious Hepatitis not requiring hospitalization, a small O. P. D. was established from 4-2-1971. The out-patient attendance during 1972 was 7,405.

(3) *Portable X-Ray Machine.*—A portable X-Ray machine purchased on 24-3-1971 was used for X-Ray work.

(4) The University of Bombay recognised 14 posts of housemen, 10 in general medicine and 4 in Paediatric medicine for M. D. degree examination. They were created by holding in abeyance 5 posts of Junior Medical Assistants, and 9 posts of Medical Assistants, to enable them to keep terms for Post-graduate qualifications.

Initially 3 Posts of Housemen (2 medicine, 1 Paediatrics) were filled in from 1-2-1971 to 31-7-1971 and 5 posts (3 in medicine and 2 in Paediatrics) from 1-7-1971 to 31-1-1972 and 10 Posts (6 in medicine and 4 in Paediatrics) from 1-2-1972 onwards.

(5) Operation Theatre

A well-equipped new operation theatre is now being kept ready. It will start functioning soon. Dr. J. S. Shah formerly Honorary Consulting Surgeon at this Hospital was appointed from 1-9-1971 as Honorary Surgeon. This arrangement was made to avoid transfer of patients for major operations such as intestinal perforation, etc. to B. Y. L. Nair Hospital or K. E. M. Hospital.

(6) Laboratory

The laboratory has been upgraded with the functioning of the Departments like Microbiology, Chemical Pathology and clinical Pathology. Though all the investigations are carried out, Microbiology section requires an animal house to carry out further investigation. The functioning of the animal house is a must for the bacteriological department. Maintenance of the animal house will be useful in future for a Virological section too. Therefore, beginning has been made by keeping a few animals like rats, mice etc.

(7) Pharmacy Department

Kasturba Hospital being an Infectious Diseases Hospital emergencies are more frequent requiring infusion of Saline to the patients in large quantities. Steps have been taken to establish a full-fledged Pharmacy Department to manufacture these fluids at the hospital itself, as this will be not only economical but also of help to have fluids of standard quality.

During this year, preparation of Saline water was started on a small scale, on experimental basis, in the Pharmacy Department.

(8) Immunization Centre

At the immunization centre 3,748 persons were immunized against Diphtheria, 5,418 against Enteric Fever, 7,238 against Cholera and 243 primary and 4,672 re-vaccinations against Smallpox.

Admissions

29,188 patients suffering from various acute infectious and communicable diseases, except Tuberculosis and Leprosy were admitted to the hospital, as against 31,749 during the previous year. They included 887 cases of Enteric Fever, 1,197 of Diphtheria, 2,401 of Infectious hepatitis.

The daily average number of patients was 660. The fatality rate in the total admissions was 2.9%.

Small pox—As a result of the implementation of the Smallpox Eradication Programme in Greater Bombay there was no local case of Smallpox, admitted to Hospital for treatment. However, in all, 24 cases were treated at the Hospital, of which 2 proved fatal, giving a case fatality rate of 8.3%. Of the 24 cases, 15 were admitted direct from Thana, a border area of Bombay, for treatment and the remaining 9 had their source of infection in the other local areas of India. February 1972 was the month of more admissions.

Diphtheria.—Of the total 4,745 cases admitted, 1,197 were positive for diphtheria and 3,548 were found negative, on laboratory investigations. 86 cases proved fatal, of which 66 were those admitted in moribund condition *i. e.* which died within 48 hours of admission. The case fatality rate was 7.1%. The operation of Tracheotomy was required to be performed at this Hospital in 14 cases of Diphtheria with Laryngeal Obstruction, 6 of whom succumbed to the disease. Of the 3 cases, transferred to this hospital by general hospitals, after tracheotomy was performed, 2 were discharged cured and 1 expired. Cases admitted were from all parts of Greater Bombay, predominantly from Byculla, Parel, Lalbaug, Sewri, Matunga, Mahim, Sion and Bandra and Andheri ('H' and 'K' Wards).

Broad-spectrum antibiotic *viz.* Erythromycin, along with steroids particularly hydrocortisone and—dexamethasone were administered in secondary laryngeal and 'Bull's neck' variety of cases with severe toxæmia. These anti-biotics and steroids helped to reduce the incidence of Tracheotomy operation and fatality rate which is mainly due to Myocarditis.

The highest incidence of the disease was in the age-group of 2-5 years. The youngest patient admitted was a female child of 6 months and the eldest patient was a female of 55 years, and both were discharged cured.

Enteric Fever

Admissions numbered 887 as against 1,179 during the previous year. All these cases were confirmed by isolation of organism from clot culture and or Widal Test in rising titre. There were 805 cases of typhoid and 82 of paratyphoid fever.

October 1972 was the peak month for admissions.

Meningeal symptoms developed in 11 cases and 17 cases had a relapse. 11 cases in which signs of intestinal perforation and acute abdomen were detected were transferred to General Hospitals for further treatment.

10 cases proved fatal giving a case fatality rate of 1.1%.

Incidence was highest in the age-group of 11-20 years. The youngest patient admitted was a male child of 1½ year who was discharged cured and the eldest a male of 65 years who expired.

Cholera and Plague.—There was no case of Cholera and Plague.

C. S. Fever.—All the 4 cases admitted to the hospital were discharged cured. Out of these four cases one was a female child of 10 years and the other three were adult males between the ages of 20 and 35 years.

Anterior Poliomyelitis.—Of the 834 cases admitted, 31 were of bulbar variety 741 of spinal variety and 62 of spinobulbar variety. Of the 78 cases proved fatal, 3 belonged to Spinal variety, 18 to bulbar variety and 57 to Spinobulbar variety. 55 deaths occurred within 48 hours of admission among those that were admitted in a moribund condition. The highest incidence of the disease was in the age group of 2 to 5 years. The youngest patient admitted was a 3 months old female child. The eldest patient was a 15 years old female. Both were discharged cured.

Whooping Cough.—Of the 76 cases admitted, 2 died of Encephalitis or Encephalitis as complication. Age incidence varied between 3 and 4 years. Female children were predominant.

Infectious Hepatitis.—Out of 2401 cases, 65 proved fatal. All deaths were due to hepatic coma. 20 deaths were within 48 hours of admission among those that were admitted in a moribund condition.

Other Diseases.—Of the 1100 cases of measles, 597 of Mumps and 1622 of Chickenpox admitted, 95 of measles and 7 of chickenpox proved fatal. Majority of the cases were from children's homes, convents, etc. The deaths were generally due to the complications of Broncho-Pneumonia and Encephalitis.

Paying Beds.—The paying beds started in November, 1966 were continued to be taken advantage of in large numbers by the members of the public.

Clinical Laboratory.—The investigations carried out in the laboratory numbered 81,376 and blood transfusions were 79.

Welfare Centre.—The Welfare Centre for the Labour staff carried out its activities satisfactorily.

Teaching.—Instructions in Infectious Diseases were given to 688 including Undergraduates, of M.B.B.S., G.F.A.M., B.A.M.S., Ayurvedic, Homeopathic and 89 post-graduate students preparing for the examination of Diploma in Child Health and Diploma in Public Health.

Student Nurses, Nurses, Health Visitors, etc., from different institutions in Greater Bombay were also given instructions in nursing management of infectious diseases. The Medical Officer continued to be the External Lecturer for student nurses in Infectious and tropical diseases at J. J. Hospital and Hurkisondas Hospital, 536 interns were given training in Infectious Diseases. Members of the Medical staff took advantage of medical library and the recreation facilities provided at the hospital.

Blood Transfusion.—Instead of supplying donors, sealed bottles containing blood of different groups supplied by the Bombay City Red Cross Blood Transfusion Service were stored in the Laboratory so that blood was available for transfusion any time.

Joint Council Meeting of Nursing Staff.—Joint council for Nursing staff consisting of 11 members (5 from administration and 5 from Nursing staff and Labour Officer as an ex-Officio under the rules, to discuss general aspects and principles governing condition of services, etc.) was formed. One meeting was held on 20-4-1972.

Nurses Welfare Fund.—The total amount received during the year was Rs. 1,501 (subscription from the members of the Nursing staff was Rs. 273 and as donation Rs. 1,228).

As decided by the Labour and Nursing Staff, a donation of Rs. 1,651 (Rs. 1,150 being the amount of their Servants' Welfare Fund credited to the Nurses Welfare Fund and Rs. 501 on behalf of Nurses Welfare Fund) was given for the Welfare of Jawans through the Indian Air Force Benevolent Associations. The amount was handed over to Sri D. L. Grover, Squadron Leader, Indian Air Force, Colaba, Bombay, 5, on 13-5-1972. The expenditure was Rs. 85.00. The balance at the credit of the fund at the end of the year was Rs. 2,218.

Expenditure.—The total expenditure during the year was Rs. 53,47,907 as against Rs. 48,63,895 during the previous year.

VIII—VACCINATION

There was no smallpox in Greater Bombay. The Greater Bombay was declared to be an area of compulsory protection from smallpox throughout the year by Government of Maharashtra. The vaccination drive was continued on mass scale. There were in all, 13 vaccinators including 100 appointed on temporary basis. These additional 100 vaccinators worked under 10 Supervising Vaccinators. They carried out mass vaccination at the big establishments, such as mills, factories, schools, colleges, etc.,. Response to the scheme was excellent. 1,93,133 persons (1,92,375 primary and 17,3,253 re-vaccinations) were vaccinated. Primary vaccinations were given to 1,65,083 children including Bombay-born children.

Out of 85 permanent Public Vaccination Stations, 7 functioned daily, 8 twice a week and the remaining for 3 hours a week by rotation. On an average 19 permanent Public Vaccination Stations functioned daily.

The results of the vaccinations were verified on the 8th day of vaccination operation. 5 certificates of postponement of vaccination were issued on the ground of ill-health.

Nine cases of Tetanus, following primary vaccinations due to complication were admitted to the Municipal Hospital for treatment. All cases proved fatal. Out of these 9 cases, one was from outside Greater Bombay, 1 of generalised vaccinia following primary vaccination was reported. The patient recovered. 51 candidates who joined vaccination course were imparted theoretical instructions and practical training in vaccination.

6,159 pilgrims who proceeded to Hajj were vaccinated. They were issued certificates in International forms.

DR. D. V. PARULEKAR,

M.B.B.S., D.P.H., M.P.H. (U.S.A.)

Executive Health Officer.

SUMMARY OF STATISTICS FOR THE YEAR 1972

		CITY	SUBURBS	EXTENDED SUBURBS	GREATER BOMBAY
(1) Area of Greater Bombay and Island in Sq. Kms.		67.78	175.08	194.00	436.86
(2) Density of Population per Sq. Km. 1971 Census		45,254	11,630	4,458	13,662
(3) Population	Census of 1971	30,67,321	21,68,160	7,33,065	59,68,546
	Mid-year estimated	30,97,000	23,86,000	8,09,000	62,92,000
(4) Total live births registered		79,580	61,549	26,692	1,67,821
(5) Birth rate per 1,000 population.	Census of 1971	25.9	30.2	30.9	28.1
	Mid-year estimated	25.9	25.8	32.9	26.7
(6) Total deaths		32,342	19,286	6,921	58,549
(7) Death rate per 1,000 population	Census of 1971	10.5	8.9	9.4	9.8
	Mid-year estimated	10.4	8.1	8.6	9.3
(8) Total deaths among infants (under 1 year)		6,736	4,970	1,739	13,445
(9) Infant deaths per 1,000 live births		84.6	80.7	65.2	80.1
(10) Maternal deaths		47	42	12	101
(11) Maternal death rate per 1,000 births (including still births)		0.6	0.7	0.4	0.6
(12) Maternal death rate per 1,000 live births		0.6	0.7	0.4	0.6
(13) Still-births		2,700	2,527	905	6,132
(14) Plague	Deaths	...	...	...	...
(15) Cholera	Deaths	...	...	...	...
(16) Small-pox	Deaths	1	2	Nil	3
	Death-rate	0.0	0.0	0.0	0.0
(17) Influenza	Deaths	...	...	...	...
	Death-rate	...	...	...	...
(18) Tuberculosis	Deaths	4,092	1,665	592	6,349
	Death-rate	1.3	0.7	0.7	1.0
(19) Acute Anterior Poliomyelitis	Deaths	42	35	11	88
	Death-rate	0.0	0.0	0.0	0.0
(20) Diphtheria	Deaths	42	27	16	85
	Death-rate	0.0	0.0	0.0	0.0
(21) Typhoid	Deaths	32	13	3	48
	Death-rate	0.0	0.0	0.0	0.0

TABLE I
METEOROLOGICAL DATA (Government Observatory, Colaba) LATITUDE 18°-54' NORTH LONGITUDE 72°-49' EAST.

Months 1972	WIND			TEMPERATURE (°C)						Mean barometric Pressure (in Millibars) Station Level corrected 285° Absolute		Mean Relative Humidity (in percent).		Total rain fall for the month (in Milli- meters)	Departure from normal (mms.)	RAIN FALL		No. of rainy days		
	Mean Direction		Mean wind speed in Kms. per hour at 0830 hours I.S.T.	Mean maximum temperature	Departure from normal	Highest in the month	Minimum temperature Mean	Departure from normal	Lowest in month	Station Level corrected 285° Absolute		Mean Relative Humidity (in percent).				Highest fall in one day	Minimum fall in one day			
	At 0830 hours I.S.T.	At 1730 hours I.S.T.								At 0830 hours I.S.T.	At 1730 hours I.S.T.	At 0830 hours I.S.T.	At 1730 hours I.S.T.				Mms.		Date	Mms.	Date
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
January	N 56 E	N 25 W	7.1	29.4	+0.3	33.3	18.7	-0.7	16.1	1014.3	1011.4	73	60	0.0	-4.1	...	...	0.0	...	0.0
February	N 58 E	N 23 W	7.8	27.8	-1.7	34.4	19.2	-1.1	14.9	1013.2	1010.3	65	56	1.5	-0.5	1.4	5	0.1	13	0.0
March	N 42 E	N 35 W	5.1	29.9	-1.1	34.4	22.2	-0.5	20.1	1012.4	1009.0	77	62	Trace	-1.5	...	...	...	...	0.0
April	N 27 E	N 46 W	7.4	31.4	-0.9	34.9	24.6	-0.5	22.2	1019.9	1007.6	75	65	0.5	-1.0	0.5	30	...	...	0.0
May	N 74 W	N 69 W	7.4	33.1	-0.2	34.3	26.8	-0.1	24.6	1008.9	1006.2	74	66	1.2	-17.1	1.2	19	...	...	0.0
June	S 79 W	N 84 W	8.7	32.6	+0.7	34.6	26.5	+0.2	23.2	1005.9	1003.5	78	73	732.1	+267.3	175.6	28	0.5	16	12
July	N 88 W	N 82 W	16.8	30.5	+0.7	31.9	25.7	+0.6	24.9	1005.1	1003.7	85	81	554.6	-58.8	137.6	2	0.1	15	17
August	S 81 W	N 80 W	15.6	30.3	+0.8	31.5	25.2	+0.4	23.2	1006.7	1005.1	83	78	122.2	-206.7	17.0	24	1.0	1	16
September	N 66 E	N 62 W	9.5	31.1	+1.0	33.6	25.2	+0.5	23.1	1009.6	1006.8	86	75	67.5	-218.5	29.2	11	0.2	3	8
October	N E	N 34 W	1.0	33.5	+1.6	35.2	25.6	+1.0	23.3	1011.8	1008.5	76	65	0.2	-64.3	0.2	28	...	...	0.0
November	N 70 E	N 42 W	9.1	32.7	+0.4	35.8	22.4	-0.4	18.0	1013.0	1009.8	73	57	31.9	+14.4	31.8	2	0.1	4	1
December	N 47 E	N 29 W	6.8	30.9	0.0	35.6	20.9	+0.1	17.6	1014.3	1011.2	69	63	0.0	-2.3	...	...	...	...	0.0

Total rain fall during the year 1511.7 mms.

Departure from normal -295.1 m.m.

Rainy day : a day on which 2.5 m.m. or more of rain is recorded.

TABLE 2

METEOROLOGICAL DATA (GOVERNMENT OBSERVATORY SANTACRUZ)

LATITUDE: 19°-07' NORTH
LONGITUDE 72°-51' EAST

Month	WIND.		TEMPERATURE (°C)							MEAN BAROMETRIC PRESSURE (IN MILLIBARS) STATION LEVEL CORRECTED TO 285 ^a ABSOLUTE		MEAN RELATIVE HUMIDITY (in %)		RAINFALL (mm.)						
	Mean Direction.		Mean Speed in Kms. per hour at 0830 hrs. I.S.T.	Mean maximum temperature.	Departure from normal.	Highest in the month	Minimum temperature Mean	Departure from normal.	Lowest in the month	At 0830 hrs. I.S.T.	At 1730 hrs. I.S.T.	At 0830 hrs. I.S.T.	At 1730 hrs. I.S.T.	Total rainfall for the month (in Millimeters)	Departure from normal. (mm.)	Highest fall in one day.		Minimum fall in one day.		Number of rainy days.
	At 0830 hrs. I.S.T.	At 1730 hrs. I.S.T.														mm.	Date.	mm.	Date.	
1972																				
January	N 66 E	N 48 W	3.5	31.7	+1.1	34.1	15.6	-0.7	-12.6	1014.5	1011.5	59	44	0.0	-0.1	...	...	...	...	0.0
February	N 39 E	N 54 W	5.0	29.2	-2.4	35.9	17.0	+0.1	-11.4	1013.3	1010.4	58	50	12.3	+11.5	12.3	5	...	...	1.0
March	N 18 E	N 55 W	2.7	32.8	0.0	36.4	20.7	+0.5	-17.5	1012.5	1008.8	67	51	0.0	-0.1	...	...	...	...	0.0
April	N 49 E	N 54 W	5.6	33.2	-0.1	38.6	23.4	-0.4	-20.4	1010.7	1007.5	67	56	Trace	-0.3	Trace	30	...	...	0.0
May	N 90 W	N 79 W	7.8	33.7	+0.5	37.0	26.1	-0.1	-23.5	1008.9	1006.0	68	64	0.1	-20.3	0.1	22	...	...	0.0
June	S 47 W	S 69 W	10.1	32.8	+1.1	35.0	26.4	+0.5	-22.0	1005.8	1003.5	77	73	693.3	+102.2	187.7	30	0.6	19	10
July	S 68 W	S 68 W	16.1	30.3	+0.7	31.3	25.2	+0.4	-23.5	1004.9	1003.6	86	81	651.2	-296.2	203.0	2	0.2	17	22
August	S 86 W	S 89 W	12.9	30.2	+1.1	30.8	25.2	+0.8	-23.0	1006.6	1004.9	81	78	108.6	-510.4	22.8	18	0.1	27	12
September	N 72 E	N 62 W	4.8	31.3	+1.4	36.4	24.3	+0.4	-22.7	1009.7	1006.8	82	70	106.2	-125.1	33.7	11	0.2	10	6
October	N 78 E	N 52 W	7.0	34.9	+2.5	37.9	24.1	+1.2	-20.4	1012.0	1007.0	66	59	0.1	-102.9	0.1	28	...	...	0.0
November	N 78 E	N 43 W	7.5	34.9	+1.8	36.2	19.8	0.0	-13.8	1013.1	1009.9	53	50	63.2	+57.0	62.8	2	0.4	3	1.0
December	N 54 E	N 41 W	4.1	33.0	+0.9	36.8	18.7	+1.0	-14.8	1014.5	1011.2	57	51	0.0	-0.8	...	...	...	...	0.0

Total rainfall during the year.....1635.0 mm.

Departure from normal.....-985.5 mm

Rainy day:—A day on which 2.5 mm. or more of rainfall is recorded.

TABLE 3
VITAL STATISTICS (1900 TO 1972)

Year	Births	Rate	Deaths	Rate	Infant mortality	Rate	Maternal mortality	Rate
Old City Limits—								
1900	12,688	15.4	79,350	96.6	13,492	533.5	237	16.1
1910	19,939	20.4	34,933	35.7	8,253	413.9	394	18.9
1920	19,731	20.1	45,837	46.8	10,895	552.2	427	21.6
1930	26,329	19.5	27,552	21.2	7,505	295.3	189	6.9
1940	38,833	33.4	29,100	25.0	7,823	201.4	166	4.0
1950	60,597	26.0	34,285	14.7	9,191	151.6	109	1.7
1960	1,07,333	35.7	40,484	13.5	10,221	95.2	155	1.5
1970	1,61,312	25.3	55,898	9.8	12,994	80.6	89	1.6
Greater Bombay—								
1963	1,31,831	29.8	40,650	9.2	10,677	80.9	147	1.1
1964	1,32,592	29.2	45,161	9.9	11,355	85.6	133	1.0
1965	1,42,781	30.7	54,223	11.7	13,739	96.2	163	1.1
1966	1,47,986	30.9	50,492	10.6	12,660	85.5	159	1.1
1967	1,53,230	31.3	56,701	11.6	14,118	92.1	115	0.7
1968	1,56,880	29.2	50,439	9.4	12,602	80.3	130	0.8
1969	1,59,571	23.8	54,831	9.9	13,506	84.6	102	0.6
1970	1,61,312	28.3	55,898	9.8	12,994	80.6	89	0.6
1971	1,61,293	27.2	57,245	9.5	12,973	79.0	90	0.5
1972	1,67,821	25.7	58,549	9.3	13,445	80.1	101	0.6

TABLE 4
GREATER BOMBAY
BIRTH BY MONTHS 1971-72

Year	MONTHS												Total
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
1971	10,210	10,206	8,842	10,656	11,790	12,194	14,856	12,949	14,841	14,690	19,027	24,012	1,64,293
1972	9,310	10,627	11,022	12,432	12,435	14,956	14,083	7,737	16,616	19,209	17,390	21,914	1,67,821

TABLE 5
PERCENTAGE TO THE TOTAL MORTALITY BY THE AGE PERIODS IN 1970, 1971
AND 1972.

Age period.	1970		1971		1972			Percentage to total mortality
	Deaths	Percentage to total mortality.	Deaths	Percentage to total mortality.	Males.	Females.	Persons.	
Under one year ...	12,994	23.2	12,973	22.7	7,167	6,278	13,445	23.0
1 to 4 years ...	6,350	11.4	6,389	11.2	2,948	3,406	6,254	10.7
5 to 14 years ...	2,153	3.9	2,267	3.9	1,260	1,106	2,366	4.0
15 to 24 years ...	2,965	5.3	3,004	5.2	1,889	1,267	3,156	5.4
25 to 44 years ...	8,473	15.2	8,737	15.3	6,058	2,841	8,899	15.2
45 to 64 years ...	11,067	19.8	11,375	19.9	8,468	3,102	11,570	19.8
65 to 74 years ...	5,487	9.8	5,759	10.1	3,761	2,355	6,116	10.4
75 and over ...	6,408	11.4	6,741	11.7	3,105	3,638	6,743	11.5
Age unspecified ...	...	...	...	...	...	...	...	...
Total	55,898	100.00	57,245	100.00	34,556	23,993	58,549	100.00

TABLE 6.

Statement showing the No. of Live Births in each age group of Mothers in each order of Live Births in Greater Bombay

Age of Mother	1			2			3			4			5			6			7			
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Below 15	...	26	10	36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15-19	...	4,544	3,816	83,60	691	518	1,209	71	41	112	9	7	16	5	1	6	1	1	2	...	...	...
20-24	...	10,890	9,623	20,513	9,538	8,264	18,202	4,600	4,441	9,041	1,736	1,292	3,028	667	571	1,338	262	258	520	51	42	93
5-29	...	8,308	8,474	16,782	8,117	8,183	16,300	4,969	5,685	10,654	4,286	4,368	8,654	1,983	1,549	3,532	728	648	1,376	206	221	427
0-34	...	1,921	1,512	3,433	3,148	2,221	5,369	4,829	4,276	9,105	4,293	2,920	7,213	2,789	2,193	4,982	1,067	659	1,726	599	564	1,163
35-39	...	768	356	1,124	589	398	987	992	762	1,754	1,028	713	1,741	972	786	1,758	638	719	1,357	464	484	948
40-44	...	73	43	116	70	72	142	107	78	185	24	104	128	112	102	214	85	109	194	87	81	168
45 and over	...	13	6	19	6	7	13	19	10	29	22	19	41	10	11	21	16	9	25	8	8	16
Information not available	...	68	62	130	122	78	200	63	63	126	49	45	94	30	17	47	19	13	32	14	14	28
Total	...	26,611	23,902	50,513	22,681	19,741	42,422	15,650	15,356	31,006	11,447	9,468	20,915	6,668	5,230	11,898	2,816	2,416	5,232	1,429	1,414	2,843

8			9			10			11			12			Higher Order Birth*	Information not available			Total.				
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	21	10	36
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	1	8	5,328	4,385	9,713
11	5	16	3	...	3	...	...	...	1	...	1	...	...	...	...	...	...	334	242	576	28,593	24,738	53,331
66	77	143	13	19	32	7	5	12	2	...	2	...	1	1	1	2	3	78	36	114	28,764	29,268	58,032
215	103	318	94	57	151	34	37	71	5	12	17	1	4	5	2	7	9	32	22	54	19,029	14,587	33,616
259	134	393	102	98	200	62	43	105	19	15	34	4	5	9	2	4	6	23	14	37	5,922	4,531	10,453
56	51	107	34	52	86	24	15	39	14	...	22	1	5	6	4	2	6	16	8	24	707	730	1,437
8	5	13	9	4	13	5	4	9	2	5	7	3	...	3	3	2	5	22	45	67	146	135	281
6	3	9	7	1	8	2	2	4	...	...	...	...	...	...	1	3	4	110	130	240	491	431	922
621	378	999	262	231	493	134	106	240	43	40	83	9	15	24	13	20	33	622	498	1,120	89,006	78,815	1,67,821

TABLE 7
Deaths by Ages and Months
Age period

Age period Months.	Under one day	1 day	2 days.	3 days.	4 days.	5 days.	6 days.	7-13 days.	14-20 days.	21-27 days.	28 days to 2 months.	2 months.	3 months.	4 months.	5 months.	6 months.	7 months.	8 months.	9 months.	10 months.	11 months.	TOTAL
January ...	111	50	45	31	23	25	16	106	74	31	103	56	41	23	29	16	18	16	8	17	8	847
February ...	95	51	52	45	25	18	13	77	78	69	59	71	41	32	28	28	14	17	8	11	16	848
March ...	145	55	42	46	30	20	19	97	57	84	45	54	61	48	36	24	30	23	25	23	11	975
April ...	172	50	37	32	26	31	23	81	60	61	31	56	54	39	24	42	36	24	33	19	16	952
May ...	223	48	45	57	19	24	18	73	66	31	99	77	49	48	41	54	48	45	36	37	33	1,171
June ...	201	57	35	38	25	22	27	94	60	21	73	54	49	45	40	60	40	49	49	43	18	1,100
July ...	187	67	50	50	30	38	28	97	51	29	87	68	36	41	35	58	38	48	41	37	25	1,141
August ...	119	65	25	33	18	23	16	65	47	18	68	53	37	33	26	43	35	35	31	33	18	841
September.	282	111	72	76	51	50	57	171	131	43	156	118	103	81	56	80	53	67	63	48	39	1,908
October ...	226	76	52	66	27	28	32	136	88	38	94	73	48	42	35	49	33	39	39	50	29	1,300
November	202	68	62	53	31	30	22	109	75	31	100	86	51	34	27	44	31	33	35	39	28	1,191
December.	171	66	48	56	38	31	30	122	80	43	107	73	57	45	29	39	22	35	31	29	19	1,171
Total ...	2,134	764	565	583	343	340	306	1,228	867	499	1,022	839	627	511	406	537	398	431	399	385	260	13,445

Table 8
Deaths by ages and Months.

Months.	Under 1 year	1-4 years	5-14 years.	15-24 years.	Age period		65-74 years.	75 years and over	Ages unspecified	Total All ages.	Average of previous five years (1967-71).
					25-44 years.	45-64 years.					
January ...	847	348	144	206	599	881	400	465	...	3890	4285
February ...	848	349	170	218	619	841	460	537	...	4042	4362
March ...	975	392	201	258	732	901	548	618	...	4635	4450
April ...	952	363	190	248	654	911	452	488	...	4258	4515
May ...	1171	480	176	311	790	987	553	600	...	5068	4568
June ...	1100	601	210	277	764	995	541	578	...	5065	4352
July ...	1141	530	209	236	776	956	463	505	...	4817	4999
August ...	841	379	127	161	431	635	319	372	...	3265	4737
September ...	1908	634	303	358	1032	1368	693	845	...	7421	4900
October ...	1300	619	212	304	802	1003	517	602	...	5359	4537
November ...	1191	658	198	293	863	1053	568	559	...	5383	4428
December ...	1171	671	226	276	787	1039	602	573	...	5345	4883
Total ...	13445	6254	2366	3156	8899	11570	6116	6743	...	58549	55022

TABLE 9
DEATHS AND DEATH RATES FROM EPIDEMIC AND PRINCIPAL CAUSES

Causes of Death	Average of years (1967-71)		1971		1972		
	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate	
<i>Principal Epidemic Diseases</i>							
Small-pox	...	214	0.0	...	...	3	0.0
Measles	...	251	0.0	194	0.0	208	0.0
Plague
Enteric Fever	...	54	0.9	47	0.0	48	0.0
Malarial Fever
Influenza	...	1	0.0	...	...	...	...
Cholera
Dysentery	...	363	0.1	403	0.1	334	...
Diphtheria	...	110	0.0	97	0.0	85	0.0
<i>Other Principal Diseases</i>							
Tuberculosis	...	5,675	1.0	6,339	1.1	6,349	1.0
Meningococcal Infection	...	1	0.0	...	...	...	...
Diseases of Nervous System	...	1,643	0.3	1,867	0.3	1,022	0.2
Diseases of Respiratory System	...	9,506	1.7	10,730	1.8	11,119	1.8
Diarrhoea and Enteritis	...	3,569	0.6	3,737	0.6	3,745	0.6
Periperal State	...	102	0.0	74	0.0	78	0.0
Congenital Debility and Diseases of early Infancy.	...	5,717	1.0	6,301	1.0	6,587	1.0
Senility without mention of Psychosis	...	3,908	0.7	3,961	0.7	2,060	0.3
Violence	...	3,297	0.6	3,753	0.6	4,042	0.6
Other Causes	...	21,604	3.9	19,743	3.5	23,537	3.7
Total	...	55,022	9.9	57,245	9.5	58,549	9.3

TABLE-10
DEATHS BY MONTHS—1971-1972

Period.	Months.											Total.	
	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.		Dec.
1971 ...	4,427	4,849	4,704	4,438	4,647	4,355	5,001	4,928	5,094	4,455	4,845	5,472	57,245
1972 ...	3,850	4,042	4,635	4,258	5,069	5,066	4,817	3,265	7,421	5,359	5,383	5,345	58,549

TABLE—11.

DEATHS by Localities and causes in GREATER BOMBAY in 1972.

CLASSIFICATION NUMBERS	WARDS																				TOTAL
	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18(a)	B18(b)		
Cholera (000)																					
Typhoid fever (001)																					
Bacillary dysentery and amebiasis (004, 006)																					
Enteritis and other diarrhoeal diseases (008, 009) B4																					
Tuberculosis of respiratory system (010-012) B5																					
other tuberculosis including late effects (013-019) B6																					
Plague (020) B7																					
Diphtheria (032) B8																					
Whooping cough (033) B9																					
Streptococcal sore throat and scarlet fever (034) B10																					
Meningococcal infection (036) B11																					
Acute Poliomyelitis (040-043) B12																					
Smallpox (050) B13																					
Measles (055) B14																					
Typhus and other rickettsioses (080-083) B15																					
Malaria (084) B16																					
Syphilis and its sequelae (090-097) B17																					
Acute infectious encephalitis (065) B18(a)																					
Allother infective and Parasitic disease (002), (003), (007), (021-031), (035), (037-039), (044-049), (051-054), (056-064), (066-079), (085-089), (098-136), B18(b)																					
Malignant neoplasms, including neoplasms of Lymphatic and haematopoietic tissue (140-200) B19																					
Benign neoplasms and neoplasms of unspecified nature (210-239) B20																					
Diabetes mellitus (250) B21																					
Avitaminoses and other nutritional deficiencies (260-289) B22																					
Anaemias (280-285) B23																					
Meningitis (320) B24																					
Active rheumatic fever (390-392) B25																					
Chronic rheumatic heart disease (393-398) B26																					
Hypertensive disease (400-404) B27																					
Ischaemic heart disease (410-414) B28																					
Other forms of heart disease (420-429) B29																					
Cerebrovascular disease (430-438) B30																					
Influenza (470-474) B31																					
Pneumonia (480-486) B32																					
Bronchitis, emphysema and asthma (490-493) B33																					
Other diseases of respiratory system (510-519) B40(a)																					
Peptic ulcer (531-533) B34																					
Appendicitis (540-545) B35																					
Intestinal obstruction and hernia (550-553) (560) B36																					
Cirrhosis of liver (571) B37																					
Nephritis and nephrosis (580-584) B38																					
Hyperplasia of prostate (640) B39																					
Abortion (640-645) B40																					
Other complications of pregnancy, child birth, and puerperium (Delivery without mention of complication) (650-659) (660-678) B41																					
Congenital anomalies (740-759) B42																					
Birth injury, difficult labour and other anoxic and hypoxic conditions (714-763) (772) (776) B43																					
Other causes of Fetal mortality (764-765) (773-775) (777-779) B44(a)																					
Diarrhoea of new-born 1.41(i)																					
Symptoms and ill-defined conditions (780-796) B45																					
Pyrexia of unknown Origin (788-8) 1.45(i)																					
All other disease (Remainder of (240-734) B46																					
Motor vehicle accidents (E-810-E-823) B47																					
All other accident (E800-E807) (E825-E849) 1. E48																					
Suicide and self inflicted injuries CE950-E959 BE-99																					
All other external causes (1900-E999) BE-50																					
Fractures, intracranial and internal injuries (N800-N829) (N850-N869) BN-47																					
Burn (N940-N949) BN-48																					
Adverse effects of chemical substances (N900-N989) BN-49																					
All other injuries (Remainder of N800-N999) BN-50																					
Deaths under inquiry																					
Still-born																					
TOTAL																					

WARDS (City)	AI	BI	BII	CIII	CI	D	EI	EIII	F/South	F/North	G/North	G/South
City—Total A	32	180	1,768	3,702	390	42	5	42	1	87	2	1

WARDS (SUBURBS)	H	K	L	M	N
Suburbs.—Total B	13	112	1,216	1,458	207

WARDS (EXTENDED SUBURBS)	P	R	T
Ext. Subs. Total C	3	42	492

Grand Total A+B+C	48	334	3,476	5,678	671	85	7	88	3	208	3	1,255	2,486	56	591	677	1,637	377	7	294	786	3,801	1,710	1032	8,601	2,334	214	115	4	278	676	526	34	23	78	133	729	5,257	269	5,323	254	4,336	19	3,712	1	310	2,790	870	3	379	6,132	58,549
-------------------	----	-----	-------	-------	-----	----	---	----	---	-----	---	-------	-------	----	-----	-----	-------	-----	---	-----	-----	-------	-------	------	-------	-------	-----	-----	---	-----	-----	-----	----	----	----	-----	-----	-------	-----	-------	-----	-------	----	-------	---	-----	-------	-----	---	-----	-------	--------

TABLE 12.

Deaths among infants from Principal Causes by Age-periods.

Age periods	Small-pox	Measles	Malarial Fever	Diarrhoea and Enteritis	Dysentery	Congenital malformation and diseases of early infancy	Diseases of respiratory system	Convulsions	Poliomyelitis	Other causes	All causes	Percentage to the total of infant deaths	
Upto 7 days	1	...	38	5	3,408	516	5	...	1,052	5,035	37.4
1 to 4 weeks	1	...	311	9	1,051	725	4	...	493	2,594	19.3
Total under 4 weeks	2	...	349	14	4,459	1,241	9	...	1,555	7,629	56.7
4 weeks to 6 months...	4	...	802	30	541	1,355	5	4	664	3,405	25.3
6 to 12 months	21	...	642	24	153	925	8	21	607	2,411	18.0
Total	27	...	1,793	68	5,153	3,521	22	25	2,826	13,445	100.0

TABLE 13

Infant Mortality from Principal Causes (1967-1972)

Causes of death	1967	1968	1969	1970	1971	1967 to 1971 (A)	1972 (B)	Difference between (A) & (B)
Poliomyelitis	...	6	36	8	8	25	17	25 + 8
Small-pox	...	174	8	4	...	...	37	...
Measles	...	137	22	33	48	38	56	27 - 29
Malarial-Fever
Diarrhoea and Enteritis	...	1,639	1,560	1,702	1,705	1,637	1,649	1,793 + 144
Dysentery	...	48	55	48	71	61	57	68 + 11
Congenital malformation and diseases of early infancy	...	5,225	5,188	5,380	5,190	5,267	5,250	1,163 - 87
Diseases of respiratory system	...	4,025	3,073	3,317	3,110	3,144	3,334	3,521 + 187
Convulsions	...	24	48	51	42	43	42	22 - 20
All causes	...	14,118	12,602	13,506	12,994	12,973	13,239	13,445 + 206

TABLE 14

*Deaths of infants under one month**Neonatal Death-Rates (1963-1972).*

Year	Birth	Neonatal death	Rate	
1963	...	1,31,831	5,788	43.8
1964	...	1,32,592	6,050	45.6
1965	...	1,42,781	6,740	47.2
1966	...	1,47,986	7,066	47.7
1967	...	1,53,230	7,195	46.9
1968	...	1,56,880	7,029	44.8
1969	...	1,59,571	7,521	47.1
1970	...	1,61,312	7,488	46.4
1971	...	1,64,293	7,545	45.9
1972	...	1,67,821	7,629	45.5

TABLE 15

Infant Deaths and other Deaths 1972.

Age Period	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Under one year.	847	848	975	952	1,171	1,103	1,141	841	1,908	1,300	1,191	1,171	13,445
One year and ... above.	3,043	3,194	3,660	3,306	3,897	3,965	3,676	2,424	5,513	4,059	4,192	4,174	45,104

TABLE 16
CASES OF NOTIFIABLE DISEASES REPORTED IN 1972.

Wards	Cholera	Small-pox	Plague	Enteric Fever	Diphtheria	Typhus	Puerperal Fever	Tuberculosis	Leprosy	Relapsing Fever	Influenza	Spinal Fever	Acute anterior poliomyelitis	Virus ancephalitis	Scarlet Fever	Infective Hepatitis	Total
A	...	1*	...	52	23	...	...	839	...	...	...	...	7	...	...	109	1,031
B	104	96	...	...	1,564	...	...	...	...	17	...	...	179	1,960
C	24	42	...	...	800	...	...	...	...	12	2	...	53	933
D	...	1*	...	67	73	...	...	2,038	...	...	...	...	31	...	...	121	2,331
E	195	269	...	...	4,548	...	...	...	2	198	...	...	563	5,775
F	150	178	...	...	2,990	23	...	...	1	125	1	...	318	3,786
G	...	4*	...	154	179	...	...	3,113	...	...	...	1	109	...	...	415	3,975
H	40	76	...	...	2,635	...	...	...	...	58	...	...	168	2,977
K	30	87	...	...	2,081	...	...	...	...	76	...	...	147	2,421
L	19	40	...	...	1,142	...	...	...	...	37	...	...	112	1,350
M	...	2*	...	10	34	...	...	945	...	...	...	...	46	...	...	140	1,177
N	...	2*	...	22	68	...	...	1,005	...	...	...	...	53	...	...	115	1,265
P	12	41	...	...	859	...	...	...	...	34	1	...	64	1,011
R	3	17	...	...	534	...	...	...	...	7	...	...	4	602
T	17	30	...	...	997	...	...	...	...	34	...	...	65	1,143
Total	...	10*	...	899	1,253	...	...	26,050	23	...	...	4	844	4	...	2,610	31,737

*All the above mentioned smallpox cases: originated in the other local areas of India

TABLE 17
REPORTED CASES OF DIPHTHERIA BY MONTHS IN 1972

Disease	MONTHS												Total
	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Diphtheria	122	94	133	109	46	92	116	107	92	93	116	133	1,253

TABLE 18
REPORTED CASES OF ENTERIC FEVER BY MONTHS IN 1972

Disease	MONTHS												Total
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Enteric Fever	37	35	22	44	37	49	94	106	104	135	104	132	899

TABLE 19
TUBERCULOSIS—DEATH-RATE

Period	Annual Death-rate		
	Pulmonary	Other forms	All forms
1967-1971 (Average).	0.9	0.1	1.0
1967	0.9	0.1	0.1
1968	0.8	0.1	0.9
1969	0.9	0.1	1.0
1970	1.0	0.1	1.1
1971	1.0	0.1	1.1
1972	0.9	0.1	1.0

TABLE 20
TUBERCULOSIS DEATHS BY SEX

Year	Deaths from pulmonary T.B.	Deaths from T.B. (other forms)	Total no. of deaths	Males	Females	Death Rate
1971	5,673	666	6,339	4,344	1,995	1.0
1972	5,678	671	6,349	4,334	2,015	1.0

TABLE 21
WARD WISE MALARIA POSITIVE CASES WITH THE SPECIES AND CLASSIFICATION

Ward	No. of positive cases	Malaria Parasities					Classification		
		V	F	M	mixed	Imported	Indigenous	Un-traced.	Un-classified
A	18	16	2	...	...	13	1	3	1
B	18	16	2	...	...	11	2	5	...
C	14	14	...	...	...	10	3	1	...
D	28	27	1	...	...	15	11	2	...
E	64	60	4	...	...	49	6	9	...
F	35	32	3	...	...	28	5	1	1
G	61	55	4	...	2	42	10	8	1
H	48	43	5	...	...	31	11	4	2
K	41	38	3	...	...	27	10	2	2
L	22	20	2	...	...	10	7	5	...
M	53	49	4	...	...	35	9	6	3
N	29	27	2	...	...	15	11	3	...
P	30	28	2	...	...	23	2	3	2
R	46	42	3	...	1	30	12	3	1
T	50	47	3	...	...	20	26	4	...
Total	557	514	40	...	3	359	126	59	13

TABLE No. 22

NATIONAL MALARIA ERADICATION PROGRAMME

Annual Report for the year 1972.

Area	No. of fever cases detected	No. of persons given treatment	NUMBER OF BLOOD SMEARS			Found Positive	PARASITE SPECIES				No. OF PERSONS TREATED		EPIDEMIOLOGICAL CLASSIFICATION OF CASES				
			Collected	Examined	Broken		V.	F.	M.	Mixed	Complete	Partially	Induced	Imported	Relapse	Indigenous	Not treated
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Active—																	
City	964	964	883	883	...	4	4	...	...	...	4	...	...	2	...	2	...
Suburbs	30,737	30,737	28,897	28,897	...	25	23	2	...	...	22	...	...	16	...	8	...
Extended Suburbs	13,862	13,862	12,773	12,773	...	24	17	5	...	2	22	...	...	15	...	7	...
Total	45,563	45,563	42,553	42,553	...	53	44	7	...	2	48	...	...	33	...	17	...
Passive—																	
City	1,16,985	1,16,985	1,16,985	1,16,985	...	236	221	15	...	...	189	...	...	170	...	34	28
Suburbs	73,768	73,768	73,768	73,768	...	160	149	10	...	1	118	...	...	91	...	39	25
Extended Suburbs	40,571	40,571	40,571	40,571	...	77	74	3	...	...	61	1	...	50	...	21	5
Total	2,31,324	2,31,324	2,31,324	2,31,324	...	473	444	28	...	1	368	1	...	311	...	94	58
Mass—																	
City	3	3	56,675	56,675	...	3	3	...	...	...	3	...	...	3	...	...	...
Suburbs	17	17	75,406	75,406	...	17	13	4	...	...	17	...	...	9	...	8	...
Extended Suburbs	11	11	71,927	71,927	...	11	9	2	...	...	10	...	...	3	...	7	...
Total	31	31	2,04,008	2,04,008	...	31	25	6	...	...	30	...	...	15	...	15	...

TABLE 23

NEW CASES AND TOTAL ATTENDANCE AT ALL THE MUNICIPAL FREE GENERAL DISPENSARIES AND THE MOBILE DISPENSARIES UNIT IN GREATER BOMBAY DURING 1972.

Description of Disease.	Total attendance
I.—Alimentary System—	
(a) Diarrhoea	2,59,903
(b) Dysentery	89,735
(c) Dyspepsia	93,747
(d) Helminthiasis	76,381
(e) Liver-Jaundice	13,102
II.—Circulation System—	
(a) Heart	2,049
(b) Blood Vessel	1,103
(c) Blood Pressure	13,921
III.—Exanthemata—	
(a) Chickenpox	615
(b) Measles	2,854
(c) Smallpox	...
IV.—Fever—	
(a) Fevers not defined	2,13,687
(b) Malaria	...
V.—Injuries and Accidents	
	60,918
VI.—Nutrition—	
(a) Avitaminosis	56,302
VII.—Nervous System—	
(a) Neuritis	13,326
(b) Sciatica	6,229
(c) Tremors	1,676
VIII.—Respiratory System—	
(a) Bronchitis	3,27,959
(b) Bronchopneumonia	17,271
(c) Common Cold	1,67,524
(d) Influenza (Non-epidemic)	23,133
(e) Laryngitis	7,402
(f) Pharyngitis	27,671
(g) Pneumonia	3,477
(h) Tonsillitis	49,221
(i) Whooping Cough	4,674
XI.—Skin and Appendices—	
(a) Diseases of Skin—	
(i) Herpes	17,821
(ii) Ringworm	63,229
(iii) Scabies	75,416
X—Special Organs—	
(a) Eyes—	
(i) Conjunctivitis	49,769
(ii) Cornea Ulcer	2,737
(iii) Foreign Body in Eye	5,424
(iv) Iritis	3,849
(v) Cphthalmia	14,578
(vi) Spring Catarrh	2,078
(b) Ears (i) Diseases of Ears	61,313
(c) Nose (i) Diseases of Nose	3,142
(d) Teeth (i) Diseases of Teeth.	24,329

TABLE 23—(Contd.)

Description of Disease	Total attendance
XI.—Surgical Ailments—	
(a) Injuries	92,729
(b) Minor Surgical Operations	726
(c) Ulcers	43,235
XII.—Genite Urinary—	
(a) Nephritis	7,128
(b) Pyelitis	4,520
(c) Gravel (Stones)	1,393
XIII.—All other Diseases—	
(a) Specific—	
(i) Anaemia	47,219
(ii) Mumps	8,97
(iii) Tuberculosis	16,100
(iv) Venereal Diseases	4,013
(v) Diabetes	921
(b) Non-specific—	
(i) Fistula in Ano	729
(ii) Gingivitis	4,043
(iii) Migraine	6,524
(iv) Piles	6,312
(v) Sprains	5,977
(vi) Stomatitis	47,649
(vii) Varicose Veins	9,802
(viii) A. N. C.	1,753
(ix) P. N. C.	2,195
(x) Other Causes	3,87,292
Total New Cases	29,08,104
Males (New Cases)	15,72,891
Female (New Cases)	13,35,213
Total Attendance	1,07,99,492

TABLE 24

Total confinements in Institutions in the City doing maternity work, during the year 1972.

Serial No.	Name of Institution (date of establishment in brackets)	No. of bed.	Total confinements.	Deaths among mothers during their stay in Homes.
A—WARD				
1	Cama and Albless Hospital, Mahapalika Marg, Bombay, 1. (23-11-1883)	200	4,318	8
2	St. George's Hospital, near V. T. Bombay, 1. (18-9)	54	955	1
3	Indian Naval Hospital, S. S. Aswini, Colaba, Bombay, 5. (October 1951)	78	1,122	Nil
4	Treatment and Family Planning Centre, Madame Cama Road, Bombay, 1. (1970)	3	95	Nil
5	Paraj Lying-in-hospital, Outram Road, Bombay, 1. (1895)	35	200	Nil
6	Dr. Trivedi's Maternity and Nursing Home, 67, Netaji Subhash Road, Bombay, 1. (1939)	5	5	Nil
7	Godfrey Clinic, 79, Daxlabhai Navroji Road, Off J. J. Schools of Arts, (1-4-1944)	14	145	Nil
8	Marine Hospital and Maternity Home, 5 New Marine Lines, Bombay, 1. (1-12-1947)	3	Nil	Nil
9	Dr. Bicha's Memorial Belle-vue Nursing Home, La Citadella, Queen's Road Marine Lines (1911)	50	53	Nil
10	Bombay Hospital, 12 Marine Lines, Bombay, 1. (May 1950)	24	503	1
11	Dr. M. S. Shah's Maternity and General Hospital, Marine Drive, Bombay, 1. (1952)	14	75	Nil
12	Colaba Maternity Home, 3rd Pasta Lane, Colaba (1-1-1948)	4	30	Nil
13	Northcote Nursing Home, Ormiston Road near Taj Mahal Hotel, Colaba, Bombay, 1. (1949)	4	41	Nil
14	Dr. Shethi's Maternity & Surgical Home, 3 Cufe Parade, Bombay 5 (10-7-1966)	6	66	Nil
15	Dr. Adatia's Nursing and Maternity Home and Gynec. Hospital, 278, D. N. Road, Bombay, 1. (1-10-1957)	6	156	Nil
16	Strand Maternity and Gynec. Surgery near Strand Cinema, Bombay 5 (October 1965)...	7	58	Nil
17	Najara Clinic, 128, Wodehouse Road, Colaba, Bombay, 5. (18-11-1962)	8	52	Nil
18	Khatru Makanji Maternity and Surgical Hospital, 65, Bazar Gate Street, Bombay, 1. (1919)	30	211	Nil
A Ward—Total		545	8,146	10
B - WARD				
1	Sabu Siddik Maternity Home, 27, Imamwada Road, Bombay, 9.	19	134	1
2	Laxmibai Maternity Hospital, 96, D'Souza Street, Wadgaodi, Bombay, 3. (1938)	30	443	Nil
3	Dhanlaxmi Maternity Home, 155-158 Samuel Street, Bombay, 9. (1952)	16	105	Nil
4	H. A. N. Dholkawala Maternity Home, 58, Mhamdali Road, Bombay, 3. (1929)	27	651	1
5	Haji Karim Mohamed Suleman Maternity Home, 173-183, Kambekar Street, Bombay 3 (1927)	13	534	Nil
6	Rahimatbai Maternity Home, Habib Hospital, Jail Road, Dongri, Bombay, 9. (27-1-1937)	20	410	Nil
7	Noor Hospital, 49, Mohamedali Road, Bombay, 3. (20-11-1953)	75	1702	2
8	Vijyalaxmi Maternity Home, Tej Kiran, Nawroji Hill Road No. 5, Bombay, 9. (28-3-1960)	5	143	Nil
B Ward Total		204	5,231	4
C—WARD				
1	Seth Gordhandas Ranchhodas Bhagat Maternity Hospital, 267-259, Kalbadevi Road, Bombay, 2. (1928)	45	540	Nil
2	Women's Clinic, 345-349, Jagannath Shankarshet Road, Bombay 2. (Aug. 1936)	15	353	Nil
3	Dr. Saibai's Maternity Hospital, 190, Princess Street Bombay, 2. (1-5-1935)	12	230	Nil
4	Rattubhai's Hospital, Jai Hind Estate-2, Bhuleshwar, Bombay, 2. (31-5-1959)	23	521	Nil
5	General and Maternity Hospital, Jai Hind Building, Bhuleshwar, Bombay, 2. (11-11-1948)	15	340	Nil
6	Dr. C. L. Zaveri's Hospital, for Women, Jai Hind Estate-2 do. do.	15	451	Nil
7	Dr. Irani's Hospital, Kerwala Mansion, Carnac Road, Bombay, 2. (1947)	2	15	Nil
C Ward—Total		152	2,451	Nil

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements	Deaths among mothers during their stay in Homes.
D—WARD				
1	Sorabji Shapurji Engineer Maternity Home, Khetwadi, 1st Lane, Bombay, 4. ...	12	1,122	Nil.
2	The Bomanji Dinshaw Petit Parsi General Hospital, Cumballa Hill, Bombay, 26. (1912)	35	252	Nil.
3	Bhatia General Hospital, Tardeo Road, (1934)	16	705	Nil.
4	Dr. Karande Maternity & Surgical Hospital, Hughes Road, Bombay, 7. (April 1929) ...	10	212	Nil.
5	Dr. D'Sa's Hospital, 15, Dadi eth Lane, Chowpaty, Bombay 7 (1910) ...	12	265	Nil.
6	Dr. Ajit Mehta's Hospital for Women, 6-A, 2nd Dadise th Road, Bombay, 7. (1-4-1924)	15	335	Nil.
7	Dr. (Mrs.) Vijaykar's Maternity & Surgical Hospital, 139-B, Chandra Terrace, Khadilkar Road. (1-4-1955)	8	99	Nil.
8	Dr. B. D. Pawardhan Maternity and Gynaec. Hospital, Phadke Wadi, Ganpati Temple, Bombay, 4. (11-11-1931) ...	12	132	Nil.
9	Chowpaty Maternity & Gynaec Hospital, 31-C, Sea-Face, Chowpaty, Bombay (December, 1911) ...	78	924	Nil.
10	Dr. Wadia's Nursing Home, French Bridge, Bombay, 7, (April 1933) ...	8	14	Nil.
11	Kanchangouri Maternity Hospital, S. V. Patel Road Bhajekar Street, (27-7-1926) ...	25	564	Nil.
12	Brahmanabha Mhaskar Maternity Home, 9, Bonham Hall Lane, Girgaum, Bombay 4. (1-2-1932)	20	287	1
13	New Hospital for Women, Mama Parmanand Marg, Bombay, 4. (1-5-1933). ...	20	520	1
14	Dr. Kumard Mehta Hospital, Poly Clinic, 20 Mama Parmanand Road, Bombay, 4. (10-10-1929)	20	74	Nil.
15	Ruxmani Hindu Lying-in-Hospital, Babulnath Chowpaty, Bombay, 7. (1920) ...	25	177	1
16	Dr. Harkisandas Narottemdas Hospital, New Charni Road, Bombay, 4. (6-1-1928) ...	36	1,019	Nil.
17	St. Elizabeth Nursing Home, J. M. Meht Road, Malabar Hill, Bombay, 6. (31-8-1922)	22	746	Nil.
18	Women's Clinic (Dr. Pagnis) 61, Narayan Niwas J. S. S. Road, Bombay, 4. (1957) ...	7	83	Nil.
19	Dr. (Mrs.) Kashibai Sathé's Maternity Home, J. S. Road, Bombay, 4. (November 1938)	10	56	Nil.
20	Dr. Amonkar Hospital, 534, Sandhurst Bridge, Bombay, 4. 9-8-1953) ...	18	126	Nil.
21	Dr. (Miss) Shirin G. Patel, Nursing Home for Women, Chowpaty Sea-face (26-5-1940)	12	18	Nil.
22	Dr. K. C. Shah's Maternity Hospital Khetwadi Main Road, Bombay, 4. (1-11-1942) ...	8	1	Nil.
23	Seth Chaganlal Walchand Jain Hospital Marine Mansion, Chowpaty, Bombay 7. (15-6-45)	17	416	Nil.
24	Ideal Nursing Home, Khetwadi, 12th Lane, Bombay, 4. (28-10-1952) ...	8	89	Nil.
25	Himani Clinic, 17, Mathew Road, Bombay, 4. (22-8-1948) ...	4	Nil.	Nil.
26	The Beach Candy Hospital & Nursing Home, 60, Bhulabhai Desai Road, Bombay, 26. (1-1-1952)	13	380	Nil.
27	Lamington Maternity Surgical Hospital, Girdhar Bhuvan, 415, Lamington Road, Bombay, 4. (September 1950)	17	32	Nil.
28	Modern Hospital for Women, 6, Dr. Wilson's Street, Bombay, 4. (11-2-1951) ...	11	422	Nil.
29	Dr. Irani's Maternity and Nursing Home, 17B August Kranti Marg, Bombay, 26. (17-6-1967)	12	67	2
30	Mistry Hospital, 47, Kennedy Bridge, Bombay, 4. (1953) ...	12	162	Nil.
31	Dr. Pratap's Maternity Hospital & Nursing Home, 104, Charni Road, Bombay, 4. (18-1-1953)	6	17	Nil.
32	Dr. Padma Mehta's Nursing Home, Sandhurst Bridge, Bombay, 7. (1952) ...	10	127	Nil.
33	Dr. Premalata S. Pai's Maternity Home, 7, Taty Charpure Path, Bombay, 4. (2-12-1951)	25	394	1
34	Dr. O. J. Shah's Hospital, Opera House, Bombay, 4. (1-1-1951) ...	17	266	Nil.
35	Dr. Wagal Maternity Home, 276-B, Surya Mahal, Thakurdwar, Bombay, 4. (1-12-1957)	12	166	Nil.
36	Saifee Hospital, 15-17, Queen's Road, Bombay, 4. (October 1957) ...	11	166	Nil.
37	Dr. Khandwala Maternity & Gynaec. Hospital Prarthana Samaj, Bombay, 4. (November 1959)	8	80	Nil.
38	Ajinkya Hospital, Hughes Road, Bombay 7 (February 1959) ...	20	144	Nil.
39	Queen's Road Maternity & Surgical Nursing Home, Queen's Road, Bombay 4. ...	12	347	Nil.
40	Dr. Bhaskar Patel Nursing Home & Mastani Clinic, New Queen's Road, Bombay, 4.	13	Nil.	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements.	Deaths among mothers during their stay in Homes.
41	Malabar Hill Clinic, Manav Mandir Road, Bombay, 6. (26-2-1966)	6	51	Nil.
42	Dr. Tara Ramrao Maternity Home, 377, V. P. Road, Bombay, 4. (26-1-1966)	5	100	Nil.
43	Maternity & Nursing Home, Tilak Nagar, V. P. Road, Bombay 4.	11	196	Nil.
44	Ayurvedic Hospital, 87, Mughbhat Street, Bombay 4. (1947)	31	141	Nil.
45	Dr. (Mrs.) Vimal Parikh, Dream Land, 25, Mama Parmanand Marg, Bombay, 4. (Oct. 1960)	4	12	Nil.
46	Dr. N. K. Shah Maternity & Surgical Home, Sadguru Sadan, 15, Babulnath Road, Bombay, 7. (May 1963)	16	243	Nil.
47	Dr. (Miss) N. S. Zaveri Maternity & Gynaec. Hospital, 273, New Charni Road. (11-4-1945)	5	23	Nil.
48	Ajinkya General Nursing Home, 264, Charni Road, Bombay, 4. (15-8-1966)	40	...	Nil.
49	Swastik Nursing Home, Mani Bhuwan, Chowpaty, Bombay, 7. (17-11-1968)	4	5	Nil.
50	Janakee Nursing Home, Bellasis Road Bombay, 34. (19-2-1967)	14	143	Nil.
51	Charak Clinic, Queen's Road, Bombay 4.	...	...	...
52	Dr. T. P. Shah's Hospital, 534, Sandhurst Bridge, Bombay, 7. (1964)	12	81	Nil.
53	Mother and Child Hospital, Gita, Pandita Ramabai Road, Bombay 7 (23-10-1966).	22	77	Nil.
54	Sodha Nursing and Maternity Home, 31, Babulnath Road, Bombay, 7. (1-4-1970)	6	24	Nil.
55	Dr. V. K. Desai Hospital, Mama Parmanand Marg, Bombay, 4. (1-5-1972)	20	21	Nil.
56	Dr. Vora Mat. and Gynaec. Hospital, PARESH, 4-A, Bhulabhai Desai Road, Bombay, 26.	12	56	Nil.
57	Dr. Mrs. Siudhu R. Pandit, Maternity and Gyneec. and Surgical Nursing Home, 23, Peddar Road, Bombay, 26.	14	14	Nil.
58	Dr. Mangeshkar Clinic, 8, Laburnum Road, Gamdevi Bombay, 7.	20	Nil.	Nil.
D Ward—Total		899	11,993	6
E—WARD				
1	Municipal Maternity Home, 252, Bellasis Road, Byculla, Bombay 8 (1915)	37	1,966	Nil.
2	Kamar Khanum Municipal Maternity Home, Victoria Road 3rd Cross Lane, Byculla (19-12-1926)	37	2,632	1
3	Kamathipura Materinty Home, Kamathipura, 13th Lane, Bombay, 8. (2-4-1968)	100	2,023	...
4	Kasturba Hospital, Sane Guruji Marg, Bombay, 11. (12-3-1892)	Nil.	38	Nil.
5	B. Y. L. Nair Charitable Hospital, Dr. A. L. Nair Road, Bombay 8. (1925)	55	2,675	9
6	Central Railway Hospital, Opp. Victoria Garden, Byculla, Bombay, 27. (16-4-1968)	10	455	Nil.
7	Engneec Maternity Home, 10, Victoria Road, Byculla, Bombay, 27. (1924)	10	185	Nil.
8	Masina Hospital, 125, Victoria Road, Byculla, Bombay, 27. (1902)	30	317	Nil.
9	Bai Motlibai & Petit Hospital, Bombay, 8. (1892)	97	2,547	3
10	Central Hospital & Nursing Home, Bellasis Road, Bombay, 8. (1952)	3	44	Nil.
11	Esmail General Hospital, Nesbit Road, Aga Hall, Bombay, 10. (25-10-1945)	8	73	Nil.
12	Byculla Nursing Home, 47, Dr. A. L. Road, Bombay 8.	15	533	1
13	Sheth Maternity & Gynaec Nursing Home, Navjivan Co-operative Housing Society, Lamington Road, Bombay, 8. (12-10-1967).	12	173	Nil.
14	Dr. T. W. Sequeira's Maternity Hospital, Mazgeon, Bombay, 10. (January 1935)	8	249	Nil.
15	Atul Hospital, Bharat Nagar, Grant Road, Bombay, 7.	4	22	Nil.
E Ward—Total		426	13,932	14
F—WARD/North				
1	Lokmanya Tilak Municipal General Hospital, Sion, Bombay, 22. (24-1-1947)	72	4626	19
2	Colony Nursing Home, 216-A, Sir Bhalchandra Road, Bombay, 19. (1935)	3	Nil.	Nil.
3	Rawli Camp Municipal Maternity Home, Sion Koliwada, Bombay, 22.	48	1410	Nil.
4	Matunga Clinic, 241-D, Dr. Ambedkar Road, Bombay, 19. (1930)	10	124	Nil.
5	Dr. Dandekar's Trust Hospital, Bhoj Mahal, Dr. Ambedkar Road, Matunga (Oct. 1937)	8	128	Nil.
6	Divekar Charity Trust Hospital, King's Circle, Bombay, 19. (1932)	8	233	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total Confinements.	Deaths among mothers during their stay in Homes.
7	Dr. Karunakaran Hospital, 477, Edenwala Road, Matunga, (1942)	6	182	Nil.
8	Matunga Nursing and Maternity Home, Matunga, (14-2-1955)	7	38	Nil.
9	Surgical and Maternity Hospital, 350, Chandavarkar Road, Matunga, Bombay, (21-9-1947)	10	193	Nil.
10	Family Nursing and Maternity Home, 64-A, Matunga, Bombay, 19. (1946)	10	448	Nil.
11	R. V. Ayurvedic Hospital, Sion, Bombay 22 (6-4-1948)	10	151	Nil.
12	Wadala Maternity Home & General Hospital, 193, Station Road, Bombay 31 (30-9-1952)	4	Nil	Nil.
13	Dr. D. Sitalaxmi's Maternity & Nursing Home, 239A, Sion Road, Bombay 22 (August 1954)	10	275	Nil.
14	Dr. (Mrs.) Kamala Doshi's Hospital, Gujrahi Society, Sion, Bombay 22 (15-8-1950)	10	104	Nil.
15	Matunga Nursing Home for Women, 590, Vincent Road, Matunga, Bombay 19 (16-7-1951)	14	46	Nil.
16	Talwalkar Nursing Home & Maternity Home, 153, Hindu Colony, Matunga, Bombay 19 (1-5-1951)	3	27	Nil.
17	Dr. Mulla's Clinic, 603, Jambhekar Road, Matunga, Bombay 19 (1952)	6	37	Nil.
18	S. D. Bhavanani Nursing Home, Sion, Bombay 22 (17-5-1953)	25	606	D
19	Dr. Pai's Hospital, 154 Hindu Colony, Dadar, Bombay 14 (17-10-1934)	18	366	Nil.
20	Dr. Merchant's Hospital, Sion, Bombay 22 (June 1963)	25	405	Nil.
21	Sobti Nursing Home, King's Circle, Bombay 19 (15-8-1955)	6	100	Nil.
22	Dr. Cadre's Surgical & Maternity Hospital, Sion, Bombay 22 (Nov. 1958)	8	128	Nil.
23	Mata Laxmi Hospital, 218, Sion East, Bombay 22. (December 1957)	4	44	Nil.
24	Chars Obstetrical & Gynac. Hospital 153, Road No. 9, Wadala, Bombay 31. (April 1962)	15	194	Nil.
25	Dr. Abhyankar's Maternity & Surgical Hospital Sion East, Bombay 22 (Nov. 1957)	7	207	Nil.
26	Shobha Maternity Hospital, 171, Vijay Niwas, R. A. Kidwai Road, Bombay 31 (3-2-1963).	8	112	Nil.
27	Rotunda Nursing Home, 262, Wadala, Bombay 31 (9-2-1964).	8	146	Nil.
28	Dr. Khandeparkar Nursing Home, 151, Sir, Bhalchandra Road, Dadar, Bombay. (4-11-1963)	5	48	Nil.
29	Dr. Parchure's Maternity Home, 159, Ganesh Prasad, Sir Bhalchandra Road, Bombay 14. (January 1968).	3	25	Nil.
30	Port Trust Hospital, Wadala, Bombay, 31 (1970)	23	836	Nil.
31	Sion Poly-clinic and Hospital, Krishna Bhurvan, Sion West, Bombay. (1-1-1970)	4	13	Nil.
F/North Ward—Total		398	11,252	19
F/SOUTH WARD				
1	Naigaum Municipal Maternity Home, Naigaum, Bombay, 14. (2-10-1958)	35	2210	Nil.
2	K. E. M. Hospital, Parel, Bombay, 12. (Maternity Ward opened on 1-12-1959)	176	5403	19
3	The Mahatma Gandhi Memorial Hospital, Government Gate Road, Parel, Bombay, 12 (8-12-1964).	17	389	Nil.
4	Nawroji Wadia Maternity Hospital, King Edward Road, Parel, Bombay, 12. (13-12-1926)	180	8057	15
5	Dr. Cadre's Nursing and Maternity Hospital, 120, Keni Road, Dadar, Bombay, 14. (1940).	16	250	Nil.
6	Desai Memorial Laxmi Lying-in-Hospital and Nursing Home, 94, Hospital Avenue, Parel, Bombay, 12. (June, 1938).	16	213	1
7	Rukmini Maternity Hospital, 7, Aimal Merwanji Road, Parel, Bombay, 12. (1-1-1933)	30	497	Nil.
8	Nursing Home and Eye Clinic, Dadar, Bombay, 14. (15-12-1946)	10	154	Nil.
9	Sobti Hospital, 66, Jyotiba Phule Road, Naigaum, Bombay 14. (1960)	12	69	Nil.
10	Dr. R. D. Desai's Maternity and Surgical Home, Krishna Chhaya, Parel, Bombay, 12 (12-6-1966)	18	205	Nil.
11	Shantayee Nursing Home, Dadasaheb Phalke Road, Dadar, Bombay, 14. (1-4-1970)	10	47	Nil.
12	Dr. Telang Maternity Home, 200, Ambedkar Road, Dadar, Bombay 14	4	36	Nil.
13	Aswini Maternity & Surgical Nursing Home Dadar, Bombay	8	104	Nil.
14	Modern Nursing Home, 60, D. M. Road, Dadar, Bombay 14. (1960)	8	20	Nil.
15	Navin Asha Maternity Home, 126, D. Phalke Road, Dadar, Bombay, 14 (12-12-1972).	6	16	Nil.
F/South Ward—Total		546	17,682	35

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements.	Deaths among mothers during their stay in Homes.
G/NORTH—WARD				
1	Municipal Maternity Home, Lieut. Dilip Gupte Marg, Opp. Shri Cinema, Mahim, Bombay, 16. (9-5-1970) ...	42	3184	Nil.
2	Laxmi Maternity Home, D. L. Vaidya Road Dadar, Bombay 28. (9-10-1929) ...	15	118	Nil.
3	Sadguru Maternity Home, Chhabildas Road, Dadar Bombay, 28. (8-5-1932.) ...	15	120	1
4	Jankibai Maternity Home 64, S. K. Bole Road, Dadar, Bombay 28. (1-4-1936) ...	7	18	Nil.
5	Dr. Narvane's Surgical & Maternity Home, Shivaji Park, Dadar. (4-10-1938) ...	8	27	Nil.
6	Dr. Purandare's Maternity Hospital, 114, Shivaji Park, Bombay, 28. ...	15	130	Nil.
7	Vijay Clinic, Shivaji Park, Dadar, Bombay. (1936) ...	4	Nil	Nil
8	National Hospital, 89, F. S. V. Savarkar Road, Mahim, Bombay 16 (10-12-1951) ...	23	237	1
9	Dadar Surgical & Maternity Hospital Prajapati Bhuvan, Gokhale Road, Bombay 28 ... (November 36).	10	130	Nil
10	Dr. Pinto's Hospital, Portuguese Church Street, Dadar, Bombay 28. (1-4-1947) ...	9	98	Nil.
11	Family Clinic, Mogal Lane, Matunga, Bombay 16 (1-10-1952) ...	10	64	Nil.
12	Dr. Shushila S. Keluskar Maternity Hospital, Portuguese Church, Dadar, (8-6-1952)	9	86	Nil.
13	Dr. C. L. Zaveri, 224, L. H. Road, Matunga, Bombay 16. (15-8-1933) ...	20	507	1
14	Park Nursing Home, 203-204, Shivaji Park Road 5, Bombay 16. (14-3-1950) ...	4	61	1
15	Dadar Clinic & Nursing Home, Dadar Road, Bombay 28. (1949) ...	8	333	Nil.
16	Gupte Maternity and Surgical Home, 143, Sitaladevi Temple Road, Mahim, Bombay 16 (31-5-1953).	12	231	Nil.
17	Dr. D'Souza Surgical and Maternity Temple Home, Sitaladevi Road, Mahim, Bombay 16 (January 1953)	3	1	Nil.
18	Chande Maternity and Surgical Home, Gokhale Road, Dadar, (10-1-1957) ...	10	44	Nil.
19	Bai Radhabai Maternity Home and Women Nursing Home Dadar, Bombay 28 (1-2-1954)	12	94	Nil.
20	Bella Tes Nursing Home, 57, L. J. Road, Mahim, Bombay 16 (29-9-1957) ...	7	45	Nil.
21	Shrada Maternity Home, Kapad Bazar Road, Mahim, Bombay 16 (8-4-1961) ...	4	9	Nil.
22	Parait Maternity Hospital, L. J. Road, Mahim (1963) ...	8	120	Nil.
23	Dr. Vaze's Maternity and Surgical Hospital, Meghdoot, Bhandarwada Road, Bombay 28 (1957).	14	161	Nil.
24	North Bombay Clinic, Opp. City Light Cinema, Lady Hardinge Road, Bombay 16.	4	...	Nil.
25	Ayurvedic Bhawan 444, Manmala Tank Road, Matunga, (W. R.) ...	8	4	Nil.
26	Laxmi Clinic, Vidya Building, Bhandar Galli, Mahim, Bombay 16 (17-9-1967) ...	7	153	Nil.
27	Sane's Nursing Home, 84, Bhawani Shankar Road, Bombay 28 (4-4-1966). ...	8	87	Nil.
28	Dr. Donald's Maternity Home, Dharavi, Opp. Police Station, Bombay No. 17. ...	3	99	Nil.
29	Dr. Fonseca's Maternity and Surgical Home, Opp. Mahim Rly. Station, Mahim, Bombay 16. (20-7-1967)	4	95	Nil.
30	Shushroosha, Citizen's Cooperative Hospital, 198-B, Ranade Road, Dadar (21-5-1969)	4	7	Nil.
31	Dr. Ingle's Surgical and Maternity Hospital, 372-B, Veer Savarkar Marg, Bombay 28 (5-2-1969).	9	129	Nil.
32	Shri Maternity and Nursing Home, 119, Shivaji Park Road, Bombay 28. ...	4	14	Nil.
33	Dr. Thakur's Hospital, 121, Shivaji Park, Bombay 28. ...	16	415	1
34	Nirmal Nursing Home, Gokul, 93, Ranade Road, Bombay 23. ...	3	63	Nil.
35	Singhavi Maternity Home, B/16, Balvind Co-operative Housing Society ...	5	8	Nil.
36	Saraswati Maternity and Nursing Home, Anand-Sagar, L. H. Road, Mahim, ...	5	34	Nil.
G/North Ward - Total ...		346	6,788	6
G/SOUTH WARD				
1	Haji Mohamed Haji Sabu Siddik Maternity Home S. V. Savarkar Road, Bombay 28	55	4,484	1
2	Police Maternity Hospital, Pochkhanwala Road, Worli Police Camp. Bombay 25 (9-3-1951) ...	35	505	Nil
3	Worli Maternity Home, B. M. & C. W. Society Worli, Bombay 25 (10-3-1930) ...	34	1,087	Nil.
4	Lower Parel Health Unit, Western Ry. Bombay 13. (1963) ...	7	57	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds	Total confinements.	Deaths among mothers during their stay in Homes.	
5	Dr. Sathe's Maternity & Nursing Home. (12-6-1966)	...	12	155	Nil.
6	B. M. & C. W Society Maternity Hospital, Delisle Road, Bombay 11 (1-4-1932)	...	40	1008	Nil
7	Worli Hospital for Women, 259, Dr. A. B. Road, Bombay 18 (14-5-1964)	...	15	340	1
8	M. A. Podar Hospital, Bombay (1942)	...	25	908	Nil.
9	Worli General Hospital Sea Face Corner, Bombay 25 (1947)	...	4	19	Nil.
10	E. S. I. S. Hospital, Worli, Bombay, 18 (1-6-1969)	...	10	49	Nil.
11	Dr. Parulekar Maternity and Surgical Home, 7-8, Pankaj Mansion, Dr. Annie Besant Road, Worli, Bombay, 25.	...	10	376	Nil.
	G/South Ward—Total	...	247	8,988	2
H—WARD					
1	Khorshedji Byramji Bhabha Hospital, Waterfield Road, Bandra Municipal (1876)...	...	85	4,787	Nil.
2	Municipal Maternity Home, Kherwadi, Bandra East (14-8-1964)	...	30	3,028	Nil.
3	Western Rly. Health Unit, Bandra (1-9-1938)	...	8	212	Nil.
4	Government Dispensary-Cum-Maternity Home, Bandra, (October 1962)...	...	4	162	Nil.
5	Dr. Moses Hospital, The Home Street, East Avenue, Santacruz (1929)	...	8	6	Nil.
6	Dr. Kashibai Hospital, Swami Vivekanand Road, Santacruz (1937)	...	25	371	Nil.
7	S. M. J. Hospital J. Nehru Road, Santacruz (East), Bombay 55 (1947)	...	18	338	Nil.
8	Dr. Gupte's Lying-in-and Surgical Hospital, 81, G. B. Road, Khar, (1929)	...	10	137	...
9	Ajinkye Hospital, 11th Road, Khar, Bombay 52 (April 1920)	...	8	231	Nil
10	Holy Family Hospital, St. Andrew's Road, Bandra, Bombay 50 (8-6-1953)	...	22	607	Nil.
11	St. Martyre's Nursing Home, 11th Street, Martyres Road, Bandra, (November, 1951)	...	16	591	1
12	Smt. Bhikubai Chandulal Jalandhwala Hospital, Santacruz, Bombay 54 (Oct. 1951)	...	32	955	3
13	Dr. (Miss) Mahashweta V. Bhat's Hospital for women, 29, National Library Road, Bandra (19-4-1953)	...	10	59	Nil.
14	Dr. Patkar's Maternity Home, 97, Hill Road, Bandra (31-10-1932)	...	11	154	Nil.
15	Arora Lying-in-Hospital Jai Bharat Society, Old Khar, Bombay 52 (January 1951)	...	6	51	Nil.
16	Mangala Maternity Home, Santacruz East, (1-5-1961)	...	9	...	Nil.
17	Devi Maternity and Surgical Home, Renuka Linking Road, Bandra	...	10	101	Nil.
18	Jai Devi Maternity and Nursing Home, Dr. Ambedkar Road, Danda, Khar (26-1-1961)	...	6	62	Nil.
19	Sanjivani Maternity and Surgical Nursing Home (27-6-1965)	...	15	320	2
20	Maternity and Surgical Home, 6th Road, Santacruz (East), Bombay 55 (1-7-1969).	...	7	70	Nil.
21	Surgical and Maternity Nursing Home, Nilama, 12th Road, Khar, Bombay 52.	...	10	40	Nil.
22	Durga Clinic and Maternity Home, Kalina, Santacruz (1-7-1961).	...	10	188	Nil.
23	Dr. B. V. Nerurkar Poly & Nursing, 85, Geetha, S. V. Road, Santacruz Bombay 54.	...	10	Nil.	Nil.
24	Kumar Clinic Maternity and Nursing Home, Koumar, 14A, Road, Khar, Bombay 52. (January, 1968)	...	14	63	Nil.
25	Laxmi Padam Maternity and Surgical Maternity Home, 579A, Ramnagar Society, 5th Road, Khar, Bombay 52. (15-7-1967)	...	5	28	Nil.
26	Adarsha Maternity and Surgical Nursing Home, 482, Sahajewan, 33rd Road, Khar, Bombay 52 (13-9-1965).	...	5	90	Nil.
27	Smruti Nursing Home, Maheshwar Darshan, 4, S. V. Road, Santacruz West, Bombay 54. (15-8-1969).	...	7	96	Nil.
28	New Maternity & Surgical Clinic, Gohile Cooperative Housing Society, Santacruz (East) (5-5-1968.)	...	7	245	Nil.
29	Alite's Maternity and Surgical Hospital, Tapodhan, 250B, Linking Road, Bandra, Bombay 50.	...	6	76	Nil.
30	Pushpa-Kunj Maternity and Nursing Home, Nehru Road, Santacruz (East), Bombay, 55. (1-8-1970)	...	6	80	Nil.
31	Dr. Nandan Maternity Home, 6th Road, Santacruz (East), Bombay, 55. (1-7-1969.)	...	7	85	Nil.
32	New Maternity Home, Vinay Kunj, Santacruz (East),	...	7	169	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements.	Deaths among mothers during their stay in Homes.
33	Dr. Sarala Desai's Nursing Home, Dattatraya Road, Santacruz (West) (20-9-1969) ...	15	102	Nil.
34	Raksha Clinic, Guru Krupa, Linking Road, Santacruz, Bombay, 54. ...	7	53	Nil.
35	Sanjeevani Nursing Home, Sangam, 14-B, S. V. Road, Bombay, 53. (28-7-1965) ...	16	336	3
36	Safalva Maternity and Nursing Home, 124, Navin Kunj, S. V. Road, Khar, Bombay, 52 (1-4-1970) ...	10	172	Nil.
37	Santacruz Sarvejanik Hospital, 85, S. V. Road, Santacruz, Bombay 54. (26-1-1970) ...	10	1	Nil.
38	Dr. Ganatra's Maternity Home, 674, Khar, Pali Road, Khar. (3-1-1971) ...	10	127	Nil.
39	Rajani's Maternity and Surgical Home, Plot No. 351, 16th Road, Bandra. (10-10-1971)	7	27	Nil.
40	Dr. Deshmukh Maternity Home, "Saafalya" Bunglow, T. P. S. II-A, Bombay, 52 (26-1-1970)	6	15	Nil.
41	Dr. Kaji's Maternity and Nursing Home, Nehru Road, Santacruz (East), (May 1968)	8	132	Nil.
42	Barfiwala Clinic, Radha Narayan, 32nd Road, T. P. S. III, Bombay, 53 ...	5	86	Nil.
	H Ward—Total ...	528	14,447	7
K—WARD				
1	F. D. K. Municipal Maternity Home, S. V. Road, Andheri (1960) ...	85	4,859	5
2	Dr. R. N. Cooper Municipal General Hospital, Juhu (26-2-1969) ...	60	3152	18
3	Nilima Maternity and Nursing Home, Valabhbhai Road, West Vile-Parle (1950) ...	11	302	Nil.
4	Tilak Maternity and Surgical Hospital, 24, Ram Mandir Road, Vile-Parle (24-12-1929) ...	8	184	Nil.
5	Dr. Balabhai Nanavati Hospital S. V. Road Vile-Parle (24-12-1951) ...	44	1,152	Nil.
6	Dr. Shah's Maternity and Nursing Home, M. G. Road Vile Parle (East) ... (3-10-1943)	22	360	Nil.
7	Dr. Sumitrabai Wagh Hospital, Park Road, Vile-Parle (East) (March 1930) ...	10	83	Nil.
8	Vrindavan General Hospital and Nursing Home, Kurla Road, Andheri (1-11-1949) ...	35	470	Nil.
9	Dr. Bhat's Andheri Maternity and Nursing Home, 208 S. V. Road, Andheri (1932)	8	81	Nil.
10	Laxmi Maternity Hospital, Nariman Road, Vile-Parle, (24-5-1954) ...	6	47	Nil.
11	Dr. Rajan's Maternity Home, Versova, Khoja Lane, (15-2-1958) ...	6	63	Nil.
12	Dr. Sathe's Maternity Home, Hanuman Road, Vile-Parle (East) (22-4-1958) ...	12	303	Nil.
13	Dr. Bakshi's Gynac. and Maternity Hospital, Lallubhai Park, Andheri (12-2-1959)	2	62	1
14	Dhiraj Maternity and Nursing Home, Andheri East (March 1960) ...	10	91	Nil.
15	St. Catherine's Home, off Versova Road, Andheri, Bombay, 58 (1922) ...	10	129	Nil.
16	Dr. Joshi's Surgical and Maternity Hospital, 75, S. V. Road, Andheri (1-10-1953) ...	10	191	Nil.
17	Mstoshri Umabai Rane Maternity Home, Shiv Kunj, Majas Road, Jogeshwari (East) (20-7-1962).	16	548	Nil.
18	Mahelaxmi Maternity and General Hospital Gumpna Road, Jogeshwari, Bombay 60 (12-12-1965.)	12	149	Nil.
19	Holy Spirit Hospital, Mahakali Road, Andheri (17-1-1967) ...	12	162	Nil.
20	Vishwakharati Nursing Home, Joshi Lane, Andheri (West). (19-5-1968) ...	3	50	Nil.
21	Nardedeep Maternity and Surgical Hospital, 140/141, S. V. Road, Andheri (12-5-68).	10	228	Nil.
22	Nutan Nursing Home, Vile-Parle (East), Bombay No. 56 (12-5-1965). ...	12	136	Nil.
23	Parle Hospital, Ghod-Bunder Road, Vile-Parle West, Bombay 56. (1965) ...	8	106	Nil.
24	Shanti Maternity and Nursing Home, Sahar Road, Bombay, 57 (October, 1961) ...	15	699	Nil.
25	Dadhich Maternity & Nursing Home, Bhagwati Bhawan, J. B. Nagar, Kurla-Andheri Road, (November 1969) ...	8	80	Nil.
26	Ashirwad Maternity and Surgical Nursing Home, Sprantsa Manor, S. V. Road, Andheri, Bombay 58, (1-9-1970) ...	11	222	Nil.
27	Shri Durga Maternity and Surgical Home, Jogeshwari (East), Bombay, 60 (15-8-1969)	10	140	Nil.
28	Jogeshwari Maternity Home, Cave Road, Jogeshwari (East) (1965) ...	12	100	Nil.
29	Vijay Maternity Home, Majas Road, Jogeshwari (East), Bombay, 60 (10-11-1962) ...	7	18	Nil.
30	Dr. Rao Nursing Home, Chandro Niwas, Sahar Road, Andheri (East), (May 1965) ...	15	300	Nil.
	K Ward—Total ...	426	14467	24
L—WARD				
1	Khan Bahadur H. K. Bhabha Hospital, Kurla, (Municipal) (1-3-1939) ...	36	5028	3
2	Municipal Maternity Home, Sion-Trombay Road, Chumbhatti, Kurla (4-5-1970) ...	20	1110	Nil.
3	Surgical and Maternity Nursing Home, "Jagannath" Lalbahadur Shastri Marg, Kurla. (March 1965) ...	16	562	1
4	Maternity and Nursing Hospital, 116 Bazar Ward, M. N. Road, Kurla. ... (March 1951)	6	107	Nil.
5	Chanda Maternity Surgical Nursing Home and Diagnostic Centre, (9-5-1971) ...	12	91	Nil.
6	Nehru Nagar Medical Centre, 121, Nehru Nagar, Kurla, (East), Bombay, (3-11-1972)	8	9	Nil.
	L Ward Total ...	98	6909	4

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds	Total confinements.	Deaths among mothers during their stay in Homes.
M—WARDS				
1	Chembur Municipal Maternity Home, near Chembur Naka (Municipal) (1-7-1944)...	30	3758	2
2	Deonar Municipal Maternity Home, Govandi (West) (10-10-1972) ...	22	69	Nil.
3	Receiving Centre for Beggars, Ghatkopar-Mahul Road, Chembur, Bombay 71 ...	2	3	Nil.
4	Chembur Colony Dispensary, Bombay 74 (1947) ...	10	250	Nil.
5	Dr. Bhatwadekar's Nursing and Maternity Home, 203, Station Avenue, Chembur (September 1954)	10	310	Nil.
6	Mona Maternity and Nursing Home, Amar Kunj, E. M. Road, Chembur Bombay (10-6-1968)	7	68	Nil.
7	Chembur Nursing Home, 18th Road, Chembur, Bombay 71 (1957) ...	10	195	Nil.
8	Siddh-Giri Clinics 420 Station, Avenue Road, Chembur, Bombay 71 (26-10-1966)...	10	233	Nil.
9	Joshi Hospital 70, Central Avenue Road, Chembur, Bombay 71 (6-9-1966) ...	10	79	Nil.
10	Lakshmi Maternity Home, Plot No. 213, 11th Road, Chembur, Bombay 71 ...	22	566	Nil.
11	Chembur Hospital, Krishna Baug, Chembur, (1-2-1959) ...	12	417	Nil.
12	Shashikant Hospital, 82-B, Syndicate Bank Building, Govandi Road, Chembur, 71 ...	20	113	Nil.
13	F. C. I. Hospital, Chembur Trombay Unit (14-8-1971) ...	5	162	Nil.
	M Ward—Total ...	170	6223	2
N—WARD				
1	Shamabai Vitthaladas Khimji Maternity Home, Ghatkopar (Municipal) (17-3-1935) ...	90	6404	1
2	Bagwe Hospital, Cama Kale, Ghatkopar (15-4-1951) ...	6	30	Nil.
3	Suburban Maternity and Nursing Home, Ratan Mahal, M. G. Road, Ghatkopar (21-9-1951)	30	894	Nil.
4	Dr. (Miss) Chandra L. Shah Maternity and Nursing Home, Agra Road, Ghatkopar, Bombay 76 (4-5-1958)	35	776	Nil.
5	Pawai Maternity and Nursing Home, Durga Niwas, Pawai, Bombay 76 (1966) ...	8	66	1
6	Ghatkopar Maternity and Surgical Hospital, Jivan Jyot, Bombay 77 AS (1963) ...	50	1096	Nil.
7	Sarvodaya Hospital, B. A. Road, Ghatkopar (9-4-1962). ...	65	2494	Nil.
8	Shushrusha', Citizens' Cooperative Hospital, Kannamwar Nagar Vikhroli (16-4-1967).	15	502	Nil.
9	Dr. Atre Maternity Home, Plot No. 90A, Station Road, Vikhroli (West) Bombay 79. (12-12-1969).	10	28	Nil.
10	Mamata General Hospital, S.T. Road, Vikhroli West ...	12	45	Nil.
11	Dr. Vinod B. Joshi's Maternity and Nursing Home, M. G. Road, Ghatkopar, Bombay 86. (1966)	10	355	Nil.
12	Rajawadi Maternity and Nursing Home, Rajawadi, Ghatkopar (17-5-1964) ...	11	67	1
13	Jyoti Maternity and Surgical Nursing Home, Vaishishtha, Ghatkopar (East), Bombay 77 (1-6-1968).	16	130	Nil.
14	Ashwini Maternity Hospital, Ambika Darshan, M. G. Road, Ghatkopar, Bombay (1-7-1966).	24	874	Nil.
15	Shantiniketan Nursing Home, Agra Road, Ghatkopar (West), Bombay, 86 (1-1-1970)	12	158	Nil.
16	Dr. S. S. Pancholi Hospital, 60, Road, Kavita Building, Ghatkopar (1-6-1968) ..	10	59	Nil.
17	Dr. Sherekar Hospital, Joshi Wadi, Bombay Agra Road, Ghatkopar West ...	15	58	1
	N Ward—Total ..	419	14,036	4
F—WARD				
1	Municipal Maternity Home, Daftary Road, Malad (4-1-1954) ...	28	2,354	1
2	Municipal Maternity Home behind Topiwala Charitable Dispensary Goregaon (West) (1-7-1964).	40	2,332	Nil.
3	Dr. Velaskar's Women's Lying in Hospital, Zakeria Bldg. Zakaria Road, Malad (West) (29-1-1950).	25	376	Nil.
4	Dr. Desai's Maternity Home, Vijaykar Wadi, Silvan Villa S. V. Road, Malad, (West) (4-2-1951).	18	405	Nil.
5	Dr. Chandrakant R. Joshi's Eye and Maternity Home, Goras Road, Ahilya Ashram, S. V. Road, Malad (July 1952).	21	115	Nil.
6	Bagwe Maternity Home, Bagwe Bhuvan, Goregaon (20-7-1951) ...	21	173	Nil.
7	Mrs. Nalini Patwardhan's Colony Maternity and Gynac. Hospital Jay Prakash Nagar, Goregaon (September 1952).	8	79	Nil.
8	Dr. Warko M. G. Home, "Suman", 6th Road, Plot No. 104, Goregaon (West) ...	12	58	1
9	Date Maternity and Nursing Home, 23 Jawahar Nagar, S. V. Road, Goregaon (West) (20-9-1960).	15	311	Nil.
10	Dr. Suchak's Maternity and General Hospital, Manchubhai Road, Malad (East) (7-8-1960).	45	954	Nil.
11	Shri S. K. Patil Arogadham Maternity Dham, Daftary Road, Malad (1959) ...	8	229	1
12	Family Clinic, I. N. S. Hamla, Marve Road, Malad (1952) ...	2	36	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements.	Deaths among mothers during their stay in Homes.
13	Satguru Sainath Maternity Home, S. V. Road, Goregaon (West).	10	183	Nil.
14	Dr. Ray's Maternity Home, 24, Jawahar Nagar, Goregaon (1964).	6	12	Nil.
15	Dr. Bheja's Maternity Hospital, 79, Jawahar Nagar, Goregaon West	12	310	Nil.
16	Patni Maternity and Gyn. & Nursing Home, 8, Jawahar Nagar, Goregaon, (5-11-1965)	18	637	Nil.
17	Dr. Kale's Maternity Hospital, 109, Jawahar Nagar Goregaon (West). (1948)	6	62	Nil.
18	Kapadia Maternity and Surgical Nursing Home, Malani G. Road, Goregaon West.... (19-10-68)	10	153	Nil.
19	Dr. Guiriba Maternity Hospital, Mamlatdar wadi, Malad (June 1963).	15	312	Nil.
20	Shobha Maternity Home and General Hospital, Plot No. 33A, Daftari Road, Malad (East) (9-9-1968).	15	196	Nil.
21	Kalpna Maternity and Surgical Home, Jawahar Darshan, Daftary Road, Malad (East)(April 1968)	10	153	Nil.
22	Dr. Purnanik's Maternity and Nursing Home, Mamlatdar Wadi, Malad (West).	12	16	Nil.
23	Malad Maternity Hospital, Krishna Varma Wadi, Daftary Road, Malad.	6	4	Nil.
24	Baliga Nursing Home, "Paras", S. V. Road, Goregaon (West).	28	183	Nil.
25	Dr. Fernandez Maternity & Surgical Hospital, Ant's Hill, Orlem, Marve Road, Malad (West) (21-2-1971)	8	72	Nil.
26	Kothari Maternity Home, Bachani Nagar, Malad East. (1-1-1971)	13	282	Nil.
27	Usha Maternity S Nursing Home, 93, Usha Niketan, Aarey Road, Goregaon (East) (June 1971)	8	33	Nil.
28	Jyoti Maternity S Nursing Home, Tagore Park, Kothari Wadi, S. V. Road, Malad. (15-8-1971)	11	23	Nil.
29	Dr. Suchak Hospital, Qhary Road, Malad (3-11-1972)	30	73	Nil.
30	Matru Chhaya Maternity and Nursing Home, Malwani Colony, Malad, Bombay, 64... (27-3-71)	4	17	Nil.
31	Aarey Colony General Hospital, Bombay, 65 (1971)	8	85	Nil.
32	Hill Side Maternity and General Hospital, 6th Road, Goregaon (West) (October, 1969)	8	54	Nil.
P Ward—Total		481	10,382	3
R—WARD				
1	Padhabai Dhamanmal Ishwardas Bhatia Municipal Maternity Home Irani Wadi, Mathuradas Road, Kandivli (2-4-1963)	20	953	Nil.
2	Borivli Municipal Maternity Home, S. V. Road, near Borivli Station, Borivli. (4-8-1968)	20	2325	2
3	Pandya Maternity Home, Eksar Cross Lane, 2 Patel Road, Borivli (3-9-1950)	12	274	Nil.
4	Bagwe Maternity Home, Tilak Road, Borivli West (28-2-1952)	12	91	1
5	Sumati Maternity Home, S. V. Road, Borivli, (March 1945)	30	419	Nil.
6	Palkar Maternity Home, Opp. Rly. Station, G. B. Road, Borivli, (15-7-1953)	10	105	Nil.
7	Radhabai Dalvi Hosp. and Mat. Home, G. B. Road, Kandivli (1-1-1928)	22	394	Nil.
8	Dr. Joglekar Mat. Home, G. B. Road, Kandivli (1st May 1952)	14	52	Nil.
9	Mehta Maternity Hospital, Bhimji Kero's Bungalow, Chandarvarkar Lane, Borivli (9-7-1950)	12	95	1
10	Usha Maternity Home, Shantilal Modi Road, Kandivli West (1948)	15	139	Nil.
11	Dr. Usha Hospital, Borivli (West) (8-8-1965).	12	138	Nil.
12	Mandani Maternity Hospital, Pranalal Nagar, Opp. North Level Crossing, S. V. Road, Borivli (East) (17-5-1970).	20	706	Nil.
13	Laxmi Maternity Home, Nandadeep, 169, Shri Krishna Nagar, Borivli Bombay, 92. (20-6-1970).	3	7	Nil.
14	Mahalaxmi Maternity Home, S. V. Road, Kandivli (1966)	3	20	Nil.
15	Dahisar Nursing Home, S. V. Road, Dahisar East (6-6-1971)	3	21	Nil.
16	Shretas Masrani Nursing Home, Shankar Lane, New Kandivli Co-op. Housing Society, Ltd. Bombay 81. (20-6-1971).	15	245	Nil.
17	J. M. G. Medical Centre and Nursing Home, Gandhi Building, Akurli Road, Kandivli (East)	6	25	Nil.
18	Matru Chhaya Maternity and Surgical, Prashanta, Dattapada Road, Borivli (East) (20-1-1972)	11	47	Nil.
R Ward—Total		240	6,056	4
T—WARD				
1	Municipal Maternity Home, Bhandup (1-1-1964)	20	3,710	Nil.
2	Municipal Maternity Home, Mulund (West), Bombay 80 (21-4-1969).	30	2,813	Nil.
3	Manasadevi T. Agarwal General Hospital, Mulund, Bombay 80.	Nil.	16	Nil.
4	Naval Hospital, Pawai, Bhandup (1-9-1964)	4	75	Nil.
5	Indian Institute of Technology, Powai, Bombay 76 (1964)	5	108	Nil.

TABLE 24—(Concl'd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements	Deaths among mothers during their stay in Homes.
6	Modern Maternity and Nursing Home, 68, Mulund Colony, (26-2-1961)	4	61	Nil.
7	Dr. M. J. Thakkar's Maternity Home, Mulund (1-5-1966)	10	41	Nil.
8	Nav Jivan Maternity and Nursing Home, Mulund East, (5-6-1966)	11	168	Nil.
9	Dr. Bhagwat's Maternity Home, M. G. Road, Jamuna Sadan, Mulund, (Sept. 1964)	6	139	Nil.
10	Mulund Poly Clinic Maternity and Nursing Home, Ambedkar Road, Mulund West (1957)	6	22	Nil.
11	Shah Clinic and Maternity Hospital, J. M. Road, Bhandup (30-4-1968)	12	201	Nil.
12	Dr. Badwik Maternity Hospital Agra Road, Bhandup (5-8-1950)	12	278	Nil.
13	Dr. Gore's Laxmibai Mat. Hospital, M. G. Road, Mulund Aug. (10-6-1949)	15	403	Nil.
14	Mulund Maternity and Nursing Home, Gajanan Mansion, Mulund (20-4-1969)	10	196	Nil.
15	Dr. Bhatia's Hospital, "Carrey's Retreat", Village Road, Bhandup Bombay 78 (26-1-1965)	8	145	Nil.
16	Dr. Ganatra's Maternity Home, Opp. Railway Station Mulund (20-3-1952)	15	505	Nil.
17	Dr. Buch's Maternity Home, Munshi Estate G. Road, Mulund (3-10-1965)	15	300	Nil.
18	Dr. Khandekar's Maternity Home, Lokmanya Tilak Road, Mulund East (Dec. 1961)	2	8	Nil.
19	Shri Naresh Manilal Gandhi Sarvajanic Hospital, Mulund, Bombay, 80.	4	56	Nil.
20	Mangala Maternity and Surgical Hospital, L. B. Shastri Marg, Bhandup. (6-12-1971)	13	283	Nil.
T Ward—Total ...		202	9,528	Nil.

Ward	No. of Institutions	No. of beds	No. of confinements	No. of Maternal deaths
A	18	545	8,146	10
B	8	204	5,281	4
C	7	132	2,451	...
D	58	899	11,993	6
E	15	426	13,932	14
F/N	31	398	11,252	19
F/S	15	546	17,682	15
G/N	36	346	6,788	6
G/S	11	247	8,988	2
H	42	528	14,447	7
K	30	436	14,467	24
L	6	98	6,909	4
M	13	170	6,223	2
N	17	419	14,036	4
P	32	481	10,382	3
R	18	240	6,056	4
T	20	202	9,528	...
Grand Total ...	377	6,317	1,68,561	144

Total births (Including 6,132 still births) registered in the Greater Bombay during the year 1972 ... 1,73,953

Deaths registered as Maternal deaths during the year 1972 ... 101