

ADMINISTRATION REPORT

OF THE

MUNICIPAL COMMISSIONER

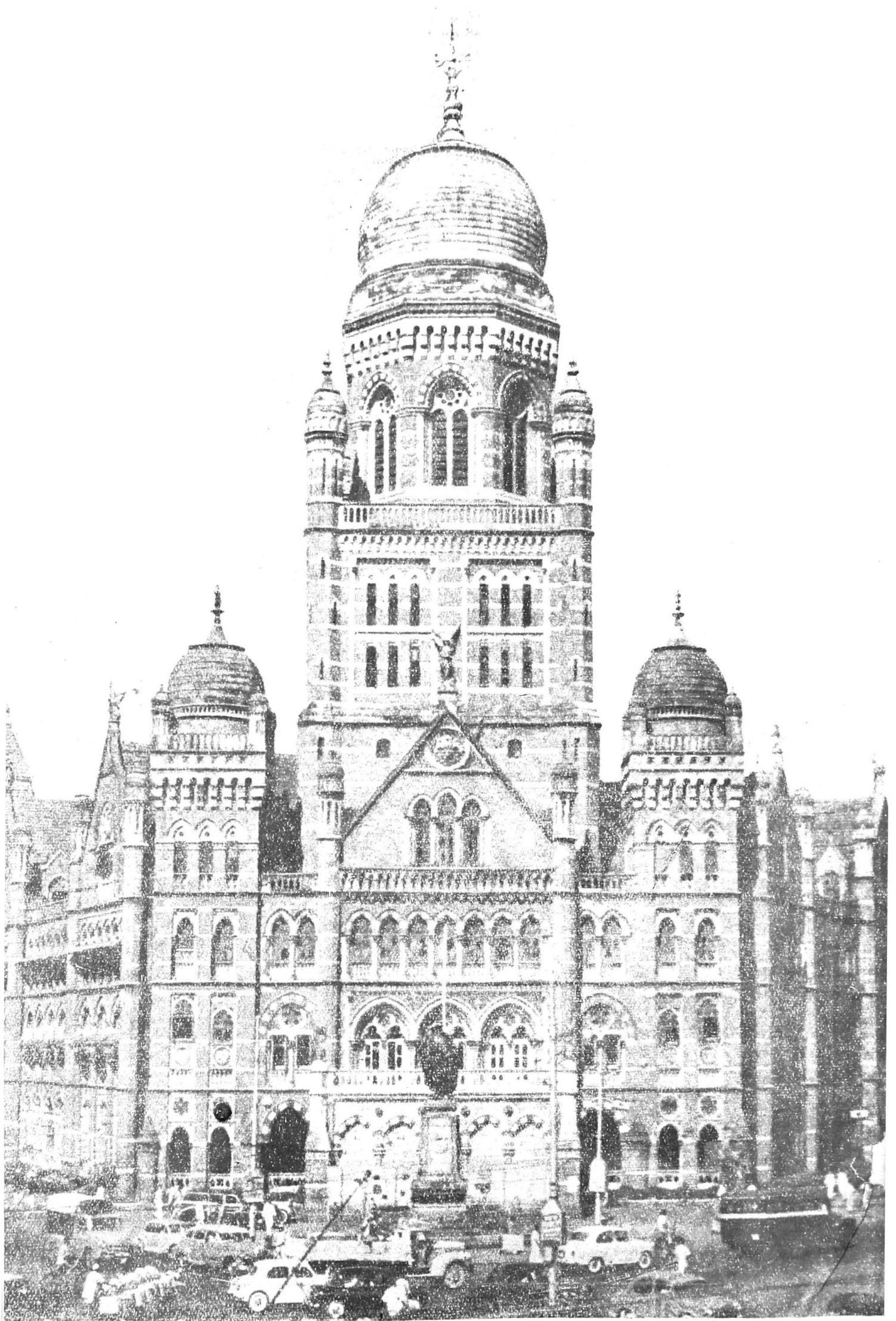
FOR

GREATER BOMBAY

For the Year 1970-71

CITY, SUBURBS AND EXTENDED SUBURBS

BOMBAY
PRINTED AT THE MUNICIPAL PRINTING PRESS
1971



MUNICIPAL HEAD OFFICE

ADMINISTRATION REPORT

OF THE

MUNICIPAL COMMISSIONER

FOR

GREATER BOMBAY

For the Year 1970-71

CITY, SUBURBS AND EXTENDED SUBURBS

BOMBAY
PRINTED AT THE MUNICIPAL PRINTING PRESS
1971

CONTENTS

	PAGE
STANDING COMMITTEE'S REVIEW OF THE REPORT ...	i-xxii
COMMISSIONER'S REPORT ...	1
Accompaniments	
1. GENERAL ...	1-6
Report of the Chief Complaints Officer ...	5
Report of the Manager, Birla Kreedra 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 ...	77-86
4. ELECTIONS :—	
Report of the Dy. Assessor and Collector (Octrol) ...	87-88
5. PUBLIC WORKS :—	
Report of the Dy. Project Engineer—Water Supply ..	89-97
6. REPORT OF THE CITY ENGINEER ...	99-174
7. ADMINISTRATIVE OFFICER (ESTATES) ...	175-188
8. WATER WORKS :—	
Report of the Hydraulic Engineer ...	189-215
9. FIRE BRIGADE :—	
Report of the Chief Officer ...	217-225
10. GARDENS :—	
Report of the Superintendent ...	227-228
11. VICTORIA AND ALBERT MUSEUMS :—	
Report of the Curator ...	229
12. MUNICIPAL FREE READING ROOMS & LIBRARIES ...	231
13. CENTRAL STORES :—	
Report of the Controllor of Stores ...	233-236
14. LICENCES, SHOPS AND ESTABLISHMENTS :—	
Report of the Superintendent ...	237-244
15. MARKETS AND SLAUGHTER HOUSES :—	
Report of the Superintendent ...	245-248
16. PRINTING PRESS :—	
Report of the Manager ...	249-251
17. SETH G. S. M. COLLEGE AND K. E. M. HOSPITAL :—	
Report of the Dean ...	253-278
18. E. N. T. HOSPITAL :—	
Report of the Asstt. Medical Officer ...	278A—278B
19. BAI YAMUNABAI L. NAIR CHARITABLE HOSPITAL AND TOPIWALA NATIONAL MEDICAL COLLEGE	279-310
20. NAIR HOSPITAL DENTAL COLLEGE ...	311-313
21. L. T. MUNICIPAL GENERAL HOSPITAL, SION, AND ANNAFURNABAI DESHMURH HOSPITAL FOR WOMEN ...	315-324
22. GROUP OF T. B. HOSPITALS, SEWRI ...	325-326
23. LEGAL :—	
REPORT OF THE SOLICITOR TO CORPORATION ...	327
24. EDUCATION :—	
Report of the Education Officer ...	329-338
25. LABOUR :—	
Report of the Labour Officer ...	339-341
26. Public Relations Officer ...	343
27. Municipal Swimming Pools ...	345
28. Report of the Administrative Officer (Enquiries) ...	347-349
29. Report of the Editor, the Bombay Civic Journal ...	351
30. Report of the Organizer and Methods Officer ...	353-354
31. PUBLIC HEALTH :—	
Report of the Executive Health Officer ...	355-390

**REVIEW OF THE STANDING COMMITTEE OF THE ADMINISTRATION
REPORT OF THE MUNICIPAL COMMISSIONER FOR
GREATER BOMBAY FOR THE YEAR 1970-71.**

The Administration Report submitted by the Municipal Commissioner, gives in detail the working of the various Municipal Departments, for the year 1970-71.

CORPORATION.

2. Dr. S. G. Patel was elected Mayor of Bombay for the year under report and he continued to hold that Office throughout the year. Shri M. G. Joshi was the Chairman, of the Standing Committee, Shri V. S. Mahadik was the Chairman of the Improvements Committee and Shri P. M. Indulkar was the Chairman of the Education Committee for the year under report and they continued to hold their respective offices throughout the year.

A change in the personnel of the Improvements Committee was the appointment of Shri V. M. Tikekar as the member of that Committee from 14th January 1971 *vice* Shri K. A. Sapat resigned from 2nd December 1970.

Commissioner.

3. Shri C. Soares, from 1-4-1970 to 22-5-1970; Dr. M. N. Desai, from 23-5-1970 to 11-10-1970 ; Shri S. M. Y. Sastry, from 12-10-1970 to 28-10-1970; and Dr. M. N. Desai from 29-10-1970 to 31-3-1971 held the post of the Municipal Commissioner during the year under report.

Complaints Section.

This Section dealt with the complaints concerning Municipal Services received from the public 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 12,361. The Standing Committee finds that the Administration has not effected economy in the cost by substituting complaints officers by complaint clerks.

Birla Kreedha Kendra.

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

Documentaries and demonstrations of the electric toy trains, etc., were shown free of charge to the visitors to the Children's Halls on the first floor on all days between 4 p.m. and 7 p.m. except Sundays and Public Holidays. An amount of Rs. 1,07,330 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. The Unit also pays surprise visits to Wards and checks maintenance jobs carried out under the supervision of Ward Maintenance Engineers. It also assists the Municipal Commissioner, the Dy. Municipal Commissioners, the City Engineer and other Heads of Departments in all technical matters, etc. This Unit inspected 301, 152 and 166 works in respect of building construction, road construction and drainage construction, respectively; visited 298 private properties; attended 15 rounds of Works Committee (Suburbs) and the Education Committee.

FINANCIAL.

4. The financial transactions have resulted in a deficit of Rs. 53.27 lakhs at the end of the year instead of the anticipated deficit of Rs. 87.13 lakhs. This was due to the fact that the actual expenditure decreased by Rs. 688.55 lakhs over the Revised Budget Estimates while the income decreased by Rs. 398.55 lakhs over the revised budgeted amount.

Variation in Income and Expenditure.

5. In preparing the Budget Estimates for the year under report, an Opening Cash Balance of 273.50 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. 395.37 lakhs. The total income budgeted for was Rs. 52,23.27 lakhs, while the actual realizations amounted to Rs. 52,04.49 lakhs. On the expenditure side, the amount budgeted for was Rs. 53,10.40 lakhs whereas the actuals of expenditure were Rs. 52,57.76 lakhs.

Loan Funds.

6. The Opening Balance on 1st April 1970 on account of Loan Funds excluding the Trust Fund was Rs. 11,13.81 lakhs for the City, and the opening deficit on 1st April 1970 for the Suburbs on account of Loan Funds and Trust Funds was Rs. 2,63.72 inclusive of Trust Fund and Rs. 1,86.30 lakhs for the Extended Suburbs exclusive of Trust Fund. Loans aggregating to Rs. 1,61.60 lakhs for the City, Rs. 429 lakhs for the Suburbs and Rs. 308 lakhs for the Extended Suburbs were raised during the year.

The total Loan Funds available for expenditure during the year were Rs. 12,75.41 lakhs for the City. After wiping out the deficit the total Loan Funds available for expenditure during the year were Rs. 165.78 for the Suburbs and Rs. 121.70 for the Extended Suburbs.

The actual expenditure amounted to Rs. 7,88.1 lakhs for the City, Rs. 130.98 lakhs for the Suburbs and Rs. 80.40 lakhs for the Extended Suburbs on Capital Works as against the budgeted figure of Rs. 16,55.97 lakhs for the City, Rs. 3,89.24 lakhs for the Suburbs and Rs. 186.42 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. 23,92.64 lakhs for the City, Rs. 599.23 lakhs for the Suburbs and Rs. 175.77 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 Improvement Trust Debentures at par, the market value of the Sinking Fund Investments held on 31st March 1971 came to Rs. 23,91.27 lakhs for the City, Rs. 595.39 lakhs for the Suburbs and Rs. 175.32 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. 24,15.23 lakhs for the City, Rs. 6,04.22 lakhs for Suburbs and Rs. 1,77.61 lakhs for the Extended Suburbs, the excess in the Sinking Fund Account being Rs. 1,97.20 lakhs for the City, Rs. 55.27 lakhs for the Suburbs and Rs. 8.89 lakhs for the Extended Suburbs respectively.

Improvement Schemes Account, General Account, Income and Expenditure.

8. The total income for the year amounted to Rs. 3,16.43 lakhs against Rs. 2,51.95 lakhs for the previous year, showing a net increase of Rs. 64.48 lakhs. The increases were in respect of (1) Rent and other proceeds of properties Rs. 1.58 lakhs; (2) Contribution from Municipal Corporation Rs. 61.40 lakhs; (3) Interest and Profit on Investments Rs. 1.72 lakhs; (4) Miscellaneous Receipts Rs. 3.62 lakhs, counter-balanced by decrease under Grant-in-Aid from Government for meeting the deficit in the General Account Rs. 39,000.

The total expenditure for the year, viz., Rs. 271.88 lakhs as against Rs. 2,33.07 lakhs for the previous year, showed an increase of Rs. 38.80 lakhs on that of the previous year. This is made up of increase of Rs. 42.66 lakhs under maintenance of properties and streets counter-balanced by decrease of Rs. 3.86 lakhs under Debt Charges.

The surplus of Rs. 44.56 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. 15,42.42 lakhs. The repayment of loan during the year under report was Rs. 89.1 lakhs of which Rs. 12.53 lakhs were repaid to Government and Rs. 76.56 lakhs to the debenture holders. The outstanding liability on loan account at the close of the year stood at Rs. 14,53.02 lakhs.

CAPITAL ACCOUNT.

The year began with an Opening Balance of Rs. 54.27 lakhs. In the course of the year, receipts on account of Sale Proceeds of Lands and Buildings amounted to Rs. 21.85 lakhs. The total funds thus available were Rs. 76.13 lakhs. The total expenditure incurred amounted to Rs. 17.15 lakhs. The surplus in General Account for the year which amounted to Rs. 44.56 lakhs, was transferred to the Capital Account. The unspent balance at the close of the year was Rs. 103.54 lakhs.

The actual expenditure during the year on schemes amounted to Rs. 17.15 lakhs as against the Revised Estimates of Rs. 47.58 lakhs including Rs. 5.64 lakhs on account of the cost of Management and Establishment but minus Rs. 30.07 lakhs of which the

That total expenditure on the improvement schemes against the Budget Estimates of Rs. 47.58 lakhs

The amount of Sinking Fund on 31st March, 1971 was Rs. 703.88 lakhs including 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. 703.40 lakhs. This together with interest accrued upto 31st March 1971, viz. Rs. 0.89 lakhs and cash with the State Bank of India brought the total amount of Sinking Fund to Rs. 704.20 lakhs against Rs. 527.29 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. 176.91 lakhs.

The Gross Capital Liabilities of the Improvement Schemes stood at Rs. 1500.61 lakhs at the close of the year under review and the assets at Rs. 99,62.39 lakhs including the book value of funds comprised in Schedules 'W' and 'X', resulting in a Surplus of Rs. 2461.78 lakhs.

General Account, Slum Clearance—City and Suburbs.

The total income during the year under Slums Clearance, City Section, amounted to Rs. 16.79 lakhs against Rs. 16.59 lakhs in the previous year showing a net increase of Rs. 0.20 lakhs. This is made up of increase of Rs. 1.23 lakh under Rent and other proceeds of properties counterbalanced by decrease of Rs. 1.02 lakh under Interest and Profit on investments.

The expenditure on this account during the year amounted to Rs. 28.84 lakhs consisting of Rs. 11.44 lakhs on Maintenance of Properties and Streets and Rs. 17.40 lakhs on Debt Charges resulting in a deficit of Rs. 12.05 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. 7.95 lakhs against Rs. 4.88 lakhs in the previous year showing a net increase of Rs. 3.07 lakhs. This is made up of increase of Rs. 2.41 lakh under Rent and other Proceeds of Properties and Rs. 0.66 lakh under Miscellaneous Receipts counterbalanced by decrease of Rs. 0.67 lakh under Interest and Profit on Investments.

The expenditure during the year on this account amounted to Rs. 19.73 lakhs made up of Rs. 3.05 lakhs under Maintenance of Properties and Streets and Rs. 16.69 lakhs under Debt Charges. The net deficit of Rs. 11.78 lakhs was transferred to Capital Account.

Capital Account, Slum Clearance—City and Suburbs.

The Opening Balance under Capital Account, Slum Clearance City, on 1st April 1970 was Rs. 25.1 lakhs. An amount of Rs. 4.05 lakhs was received from Government as loan. An amount of Rs. 4.05 lakhs was received from the Government as Subsidies. Thus the total funds available for expenditure amounted to Rs. 33.2 lakhs, against which the expenditure incurred during the year amounted to Rs. 17.75 lakhs. The deficit in the General Account amounting to Rs. 12.05 lakhs was transferred to Capital Account. The unspent balance at the close of the year stood at Rs. 13.4 lakhs.

The Standing Committee view with concern such large amount remaining unspent in this account here as also in the Suburban Sections especially when the Housing problem is very acute and hope that efforts are made to utilise all Fund assigned for this purpose within the scheduled time.

Capital Account, Slum Clearance—Suburbs.

The Opening Balance under Capital Account, Slum Clearance, Suburbs, on 1st April 1970 was Rs. 23.44 lakhs. An amount of Rs. 19.02 lakhs was received as Sale Proceeds of Lands and Buildings. The total funds available for expenditure thus amounted to Rs. 42.46 lakhs against which expenditure incurred during the year amounted to Rs. 10.55 lakhs and deficit in the General Account amounting to Rs. 11.78 lakhs was transferred to the Capital Account leaving an unspent balance of Rs. 20.19 lakhs.

Education Fund.

The actual income for the year amounted to Rs. 893.05 lakhs resulting in a decrease of Rs. 35.38 lakhs in the Budget Estimates and of Rs. 11.82 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 each of which was less than Rs. 300 per annum but not less than Rs. 75 per annum.

That total expenditure for the year amounted to Rs. 881.95 lakhs against the Budget Estimates of Rs. 917.6 lakhs.

The Opening Balance on account of Loan Funds excluding Trust Funds on 1st April 1970 was Rs. 8.97 lakhs. A new loan of Rs. 50 lakhs was proposed for 1970-71 but actually a loan of Rs. 33 lakhs was raised during the year. The total loan funds thus available amounted to Rs. 41.97 lakhs against which expenditure booked on loan funds amounted to Rs. 25.33 lakhs. The closing balance at the end of the year in loan funds amounted to Rs. 16.64 lakhs.

The percentage of actual expenditure on Loan Works to the Loan Funds available was 60.

Taxation, Demands 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 24½ per cent. Water Tax at 4½ per cent. and Halalkhore Tax at 3½ per cent. Tax on vehicles and animals was levied at the maximum rates mentioned in Schedule 'G' of the Bombay Municipal Corporation Act. Rates charged for the supply of water by meter measurement ranged between Rs. 1.70 and Rs. 10 per 10,000 litres according to the class of properties.

The net demand in respect of State Education Cess in the City, Suburbs and Extended Suburbs was for Rs. 141.25 lakhs, 82.22 lakhs and 37.2 lakhs, respectively, while the collections amounted to Rs. 106.78 lakhs, 40.6 lakhs and 16.03 lakhs, respectively.

On the Assessment Register at the close of the year, there were 86,546, 78,049 and 41,600 properties in the City, Suburbs and Extended Suburbs, respectively. 902 properties in the City, 2,779 in the Suburbs and 1,330 in the Extended Suburbs were newly assessed to General Tax, while 3,223 properties in the City, 1,910 in the Suburbs and 1,009 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 5,011, 649, and 4,073 respectively.

The rateable value of all properties on 31st March 1970 was Rs. 49,18,68,419 in the City; Rs. 20,99,46,521 in the Suburbs and Rs. 9,07,82,704 in the Extended Suburbs as against Rs. 46,20,11,753, Rs. 18,65,45,100 and Rs. 7,97,32,991 in the preceding year. It worked out to Rs. 160.35, Rs. 96.83 and Rs. 123.84 per head of population as per the census of 1969 (mid-year estimate), against Rs. 125.07, Rs. 134.98 and Rs. 174.09 in the preceding year.

Wheel Tax in respect of hack-victorias, labour carts and hand carts was levied at the same rates as of the previous year.

The total number of bills in respect of property taxes and Wheel Tax issued during the year was 1,45,107 and 3,00,759, respectively for the City, 1,55,240 and 73,603 for the Suburbs and 83,497 and 14,861 for the Extended Suburbs. The total number of bills for water charges by meter measurement issued during the year by the Hydraulic Engineer was 51,491 for the City, 79,663 for the Suburbs and 37,880 for the Extended Suburbs. As regards property taxes, out of the net demand of Rs. 24,62,73,137 an amount of Rs. 19,81,78,732 was collected leaving the amount of Rs. 4,80,94,405 as outstanding, percentage of outstanding to net demand comes to 19.53 for the City; the figures for Suburbs for net demand and collection stood at Rs. 14,59,97,263 and Rs. 7,85,74,048 leaving the balance at Rs. 6,74,23,215 as outstanding and percentage of outstanding to net demand comes to 46.18. The net demand and collection in the Extended Suburbs stood at Rs. 5,62,53,971 and Rs. 2,71,00,950 leaving the balance at Rs. 2,91,53,021 and percentage of outstanding to net demand comes to 51.82.

In the case of Wheel Tax in the City, the net demand was for Rs. 2,62,99,029 and the amount collected was Rs. 92,93,849 thus leaving an amount of Rs. 1,70,05,180 as outstanding, the percentage of outstanding to net demand comes to 65. As regards Suburbs and Extended Suburbs, the net demand was Rs. 73,22,928 and Rs. 14,29,762 the collection at Rs. 18,67,129 and Rs. 4,37,751 thus leaving an amount of Rs. 54,55,799 and Rs. 9,92,011 as outstanding, respectively and the percentage of outstanding to net demand comes to 74.50 and 69.42, respectively.

2,507, 1,974 and 2,012 complaints in respect of rateable values of the properties in the City, Suburbs and Extended Suburbs, respectively, were disposed of during the year under report. There were 231, 305 and 398 appeals against the rateable value during the year under report in the City, Suburbs and Extended Suburbs respectively, out of which 200, 258 and 359 remained pending at the close of the year.

The Urban Immovable Property Tax.

This tax was abolished from 1st April 1963. The arrears of the tax as on 1st April 1970 were Rs. 7,83,729, Rs. 4,75,012 and Rs. 2,84,731 for the City Suburbs and Extended Suburbs respectively. Out of this amount, a sum of Rs. 87,155, Rs. 73,298 and Rs. 61,749, was collected.

Theatre tax.

11. There were in all 43 Class I and 18 Class II Cinema Theatres in the City and 24 and 12 Cinema Theatres in Suburbs and Extended Suburbs, respectively, out of which 21 and 7 were Class I Cinema Theatres and the remaining were Class II Cinema Theatres. The tax was generally received regularly. Theatre Tax was also recovered in respect of various dramatic performances, dances, variety entertainments, etc., held at various places in Greater Bombay where admission was on payment.

The total income derived by way of Theatre Tax during the year under report was Rs. 8,06,574 in the City, Rs. 3,17,331.69 in the Suburbs and Rs. 1,50,653.20 in the Extended Suburbs.

The Standing Committee note with concern the high percentage of outstanding of property taxes especially in Suburbs and Extended Suburbs and Wheel Tax in general and hope that vigorous efforts will be made and if necessary, the collection machinery remodelled in order to reduce the outstandings to the minimum possible extent as the revenue collection is the mainstay of Municipal finance and hence also of the Civic Administration of this Great City.

OCTROI.

12. The same rate of Octroi as specified in the Octroi Schedule 'H' to the B.M.C. Act as amended, continued for the year under report except in respect of 17 items of goods. The gross collections from Octroi during the year under report amounted to Rs. 17,78 lakhs as against Rs. 14,25 lakhs in the preceding year. The amount refunded during the year under review was Rs. 2,73 lakhs as against Rs. 1,84 lakhs in the previous year. Octroi gave a net revenue of about Rs. 15,05 lakhs as against Rs. 12,40 lakhs in the previous year. The total number of claims for refund was 80,603 as against 77,501 in the previous year.

Fees for stamping sugar bags, tea cases, etc., amounted to Rs. 3.53 lakhs as against Rs. 1.05 lakhs in the preceding year.

The Standing Committee is of the view that Octroi Schedule should be enlarged and made broad-based 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. Due to the death of Shri Jivraj B. Shah, the Municipal Councillor elected from Ward No. 22 (Mandvi) on 20th November 1969, the By-election was held on 8th May 1970 to fill up the casual vacancy and Shri J. G. Kajriya was declared elected at the said By-election but another candidate who was declared defeated filed an Election Petition and the learned Chief Judge, Small Causes Court after allowing partial rescrutiny and re-counting of votes delivered his judgment confirming election of Shri Kajriya on 2nd February 1971.

2. During the year 1970-71 two vacancies of Councillors occurred due to the resignations of two sitting Councillors, Shri K. A. Sapat, from Ward No. 123 (Charkop and Borivli West) and Shri S. A. Modi from Ward No. 122 (Borivli West Rural) and poll for By-Elections in those two wards is yet to be held.

VAITARNA-CUM-TANSA SCHEME.

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

MASTER PLAN FOR THE DISTRIBUTION OF WATER SUPPLY.

The final report on investigations and the recommendations from the Consulting Engineers regarding foundation conditions for the Ravli Hill Reservoir were received. It was not possible to construct the R.C.C. reservoir on top of the hill and designs for steel tank on the top of the hill, etc., were in progress. The works of construction of Reservoir at Powai Hill (High Level) and the construction work of Ghatkopar Hill Reservoir were in progress during the year and the work of construction of Bhandup Hill Reservoir was 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.

Upper Vaitarna Scheme.—The work of preparing formation for pipeline awarded to various Contractors was in progress. The cost of the work executed by Messrs. The Indian Hume Pipe Co. Ltd., Messrs. The Richardson & Cruddas Ltd. and Messrs. Vikhroll Metal Fabricators Ltd., upto 31st March 1971 was Rs. 2,00,00,000.

Out of 67 kms. of pipe line between Bell Nallah and Bhandup only 34 kms. has been laid down and out of 16 kms. between Bhandup and Dharavi about 6.5 kms. has been laid. The work was to be completed by November 1971 but it would be completed by December 1972. The work was delayed due to difficulties in land acquisition in the initial stage, non-release of Municipal Steel material by Banks/Court Receiver and failure of the suppliers of Inertol Paint from Calcutta, due to un-rest prevailing there.

BHATSAI SCHEME.

Messrs. Binnie and Partners (India) Ltd., the Consulting Engineers, as consultants to the Corporation for water supply and sewerage Schemes started the work from 1st June 1970. Five proposals for acquisition of private land were in progress.

ULHAS RIVER SCHEME.

Construction of Road along 1200 mm. dia. pipe line between Ambivli Railway Station and Pogaon Cross connection and Development of plot at Mohone Pump House and construction of outlet channel from the pump etc., was in progress during the year under review, respectively at the cost of Rs. 19,80,025 and Rs. 45,965.00. Acquisition proceedings in respect of private lands required for implementing 20 M. g. p. d. Ulhas Pumping Scheme for augmenting Bombay City's water supply were in progress.

Planning Section, Public Works.

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

The Architectural Planning Branch for the City, Suburbs and Extended Suburbs prepared in all 49 contract Plans, 141 Cloth Tracings, 31 Block Estimates and 58 Detailed Estimates in connection with different building works including (housing in Greater Bombay) costing Rs. 1,76,13,361 in the City and Rs. 1,67,45,465.00 in Subs. and Extended Suburbs.

On account of rock-fall at Malbar Hill area on 6th September 1969 the Municipal Corporation was appointed as Central Agency to carry out protective measures. The work had to be abandoned due to the non-co-operative attitude shown by the concerned property owners by bringing Court Injunctions against Municipal Corporation restraining them from carrying out the works of protective measures and the Special Division Created for the said work was wound up from 1st April 1971.

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 6,453 as against 7,676 in the previous year. The amount spent on 737 buildings in the Suburbs and 132 in the Extended Suburbs for such works was Rs. 2,01,555.69 and Rs. 2,38,545.78 respectively. The work of upkeep and maintenance of buildings including school buildings was carried out partly by contracts and partly by departmental agency in the City and by the Petty Works Contractors in the Suburbs and the Extended Suburbs.

Construction.—During the year under report works amounting to Rs. 84 lakhs were completed. Works amounting to Rs. 14 lakhs were in progress.

Private Buildings.

17. During the year, 1097 applications were received for the construction of new buildings or additions and alterations to the existing ones. The total number of new buildings constructed by private enterprise during the year was 72 out of which 17 buildings were constructed by Co-operative Societies. 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 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, the issue of notices and launching of prosecutions continued as before. 8069 Notices were issued for repairs and/or removal of unsafe buildings. In deserving cases, where the owners resorted to delaying tactics or refused 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 73 cases such authorities were given during the year as against 68 in the previous year and 1,133 tenants took advantage of it against Rs. 1,574 during the last year.

In 348 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 meeting the cost in the first instance from the special provision made for the purpose in the Budget and an expenditure of Rs. 3,18,805.67 was incurred therefor.

During the year 170 buildings or portions thereof collapsed. The total number of persons injured were 77 and those killed was 25. The estimated damage to property was Rs. 5,77,580.

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, 18 slums were cleared and redeveloped. Clearance and re-development of 4 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, 74 tenements were completed during the year, bringing the total number of tenements completed upto 31st March 1971 to 4,821. Construction of 329 tenements was in progress during the year under review.

Financial Assistance from Government under subsidised Slum Clearance Schemes.—The Corporation have received Rs. 4.05 lakhs by way of loan and Rs. 4.05 lakhs by way of subsidy from the Government during the year under report. The Corporation has thus so far received Rs. 1,27.93 lakhs by way of loan and Rs. 1,51.03 lakhs by way of subsidy upto 31st March 1971.

Drainage and Sewerage.

19. *Dadar Purification Works.*—The working of the Sewage Purification Works was satisfactory throughout the year. The plant pumped 98.38 M. litres of sewage during the year under report.

Love Grove Pumping Station and Purification Works.

The working of the old and new pumping stations was satisfactory during the year under report. The old pump house pumped out 51,118 M. litres of sewage directly to sea and the new pump house discharged in all 1,23,421.61 M. litres of sewage.

Dharavi Purification Works.

The sludge gas was supplied fairly continuously to all the consumers during the year under report.

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 330 motor vehicles and 288 trailers were in commission in the City and 239 vehicles in the Suburbs and Extended Suburbs.

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 1,800 tons per day.

Repairs and Maintenance of Roads and Footpaths.

21. The total length of roads in the City, Suburbs and Extended Suburbs at the end of the year was 481.48 K.M., and 549.66 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 19,225; 11,261, in the Suburbs and 52,55 in the Extended Suburbs at an expenditure of Rs. 76,62,174.50, 31,65,000.62 and Rs. 12,90,514.31, respectively.

The lighting of 88 roads was improved with HPMV lamps under the 'All-in-Hire Scheme,' 12 roads were provided with new lighting arrangements, and 15 roads were improved with Tungston filament lamps. 2nd October Colony roads were further provided with additional Tungston Filament lamps under Slums Improvements Programme. The Standing Committee is of the view that better maintenance of internal lanes and by lanes needs greater attention of the Administration.

5 New hutments Colonies were provided with Tungston Filament lamps under Slum Improvement Programme.

Removal of Town Refuse.

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

The total number of wagons sent to Deonar during the year under report was 9,942 as against 16,313, during the preceding year.

As the number of Municipal wagons was insufficient to transport the huge quantity of city refuse 61 wagons were taken on hire from Western Railway during the year at the charges of Rs. 5.08 per wagon per day.

The cost of maintenance of Mahalaxmi and Chembur Siding was Rs. 71,554.

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. 1 (Mandvi and Elphinstone Estate); Town Planning Scheme No. II (Mahim area); Town Planning Scheme No. III (Mahim area); and Town Planning Scheme 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 submitted to the Government for sanction. Schemes at Sr. Nos. 2 and 3 are also intended to be taken up for variation.

There are 25 Town Planning Schemes in the Suburbs out of which 19 have been finalised and are in force. There are only 3 Schemes at present in the Extended Suburbs out of which one Scheme viz., Town Planning Scheme, Malad No. (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 afternoon. The total refuse collected and removed by engaging stationary as well as mobile traction was 1,800 tons in the City, 2,11,094 tons in the Suburbs and the Extended Suburbs.

2,035 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 888 privy seats in the City. The work of removal of night-soil was attended to regularly by 10 cesspool lorries.

There were 622 public sanitary conveniences in the Suburbs and the Extended Suburbs.

The number of basket privies existing in Suburbs and Extended Suburbs was 8,216 as against 6,541 during the previous year and 242 basket privies were either demolished or converted during the year. In addition there were 484 cesspools.

Control of Stray Dogs.—69,001 stray dogs were caught and destroyed, 12,450 pet dogs were licensed and immunization of 438 dogs was carried out at different Anti-Rabic Centres.

The work of immunizing the milch cattle against Rinder Pest was continued. The total number of animals immunized was 49,742 and 58 suspected cases were kept under observation.

In addition to the above, the Conservancy branch also rendered special conservancy and halakhore services to various circuses, exhibitions, fairs, etc., in the City realising thereby Rs. 3,91,035.75 and also collected a sum amounting to Rs. 1,59,786.00 for cleaning of Government Foreshore.

The Municipal Hot Mix Asphalt Plant at Worli was in operation throughout the year except during the monsoon from 1st July 1970 to 31st October 1970. The number of boxes turned out by the main plant and pegson plants were 77,21,980 boxes and 27,03,795 kgs. approximately.

The Crushers at Worli worked satisfactorily during the year. The total output was 3,370.50 brass as against 3,164 brass in the previous year.

ESTATE 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. One plot in Municipal Scheme has been disposed of in the year 1970-71.

The total area though available for disposal in Municipal laid out schemes as on 1st April 1971 was about 3,182.30 sq. metres, the same cannot be disposed of as it is required for Municipal purposes. The total number of plots disposed of upto the end of 1970-71 was 4,344 with an area of 52,36,519.77 sq. metres and valued at Rs. 13,52,73,812.

The amount received by way of commutation of ground rent and premium, etc., during the year was Rs. 6,73,667 as against Rs. 3,30,012 in the preceding year.

The collection on account of rents from the permanent chawls during the year amounted to Rs. 28,14,871. The revenue actually collected on account of rents in respect of S.P. Sheds came to Rs. 19,77,746. The figures in respect of slum clearance tenements and acquired premises stood at Rs. 20,91,808 and Rs. 13,66,724, respectively.

307 tenements at Peru Chawl, Lalbaug Gas work Lane, 45 tenements and 12 shops at M. Z. area, Kamathipura Stable Street, and 287 tenements at Khan Abdul Gafar Khan Road, were completed.

The recoveries of the rent in the Squatters' Colonies at Mankhurd and Jogeshwari were Rs. 26,770 and Rs. 61,081 against the demand including the arrears of Rs. 12,84,675 and Rs. 5,99,269, respectively and at Palton Road Dormitory amounted to Rs. 47,679 during the year.

During the year under review, the demand and recovery of taxes aggregated to Rs. 72,690 and Rs. 1,09,907 respectively. The arrears due for collection at the close of the year stood at Rs. 6,02,994.

The Standing Committee 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 requires to be recovered in time as a number of proposals are received to write of the dues.

WATER SUPPLY.

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

The average daily supply to Greater Bombay during the year under report was about 966.85 mega litres as against 914.15 mega litres in the previous year. During the year, the quantity of water supplied to Greater Bombay was 3,52,902.86 mega litres as against 3,33,673.46 mega litres in the preceding year. Supply to the Thana Municipality, etc., was 6,047.28 mega litres as against 5,753.79 mega litres in the previous year. The total quantity of water supplied to bodies outside the limits of Greater Bombay was 16,443.71 mega litres as against 12,740.83 mega litres in the preceding year. Of the total supply to Greater Bombay, a quantity of 2,16,773.93 mega litres was for domestic purposes as against 2,02,896.47 mega litres in the previous year. The average daily supply for all purposes per head in Greater Bombay was 161.97 litres, while that for domestic purposes only worked out to 99.47 litres. Percentage of total supply for domestic and other purposes worked out at 61.42 and 23.58, respectively.

During the year under review two more pairs of additional openings were provided in the intake tower at levels of 152.40 metres. (500 ft.) T.H.D. and 146.30 Mts. (480 ft.) T.H.D. in order to enable the water to be drawn from levels nearer the surface at Vaitarna.

The new service Reservoirs provided at Worli, Golanji Hill, Pali and Veravali High level were in use during the year.

A new pump house at Malabar Hill Reservoir was commissioned on 10th October 1970 for supplying water to Walkeshwar, Banganga and Ridge Road areas.

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

The transfer of water from the Alwandi Lake at Upper Vaitarna in the Vaitarna Lake continued intermittently from 22nd October 1970.

The total number of water connections was 1,00,500 in the City, and new connections given were, respectively, 3,583, 1,813, and 828 in the City, Suburbs and Extended Suburbs, 195 metered standing pipes were given during the year out of which 175 were given in Suburbs and 20 in the Extended Suburbs. The total number of stand-pipes in the Suburbs and the Extended Suburbs was 2,464, out of which 2,009 were in Suburbs and 455 in the Extended Suburbs.

The number of complaints about short supply, etc., was 45,662, 11,412 and 1,280 in the City, Suburbs and the Extended Suburbs, respectively.

189, 20 and 178 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. 595,13,440 for the City as against Rs. 4,53,81,398 during the previous year. The total revenue collected from the Suburbs from supply of water by meter measurement was about Rs. 2,53,40,398. The figure for the Extended Suburbs for these items was Rs. 76,48,208.

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 over.

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 3,920 calls (including City, Suburbs and Extended Suburbs) as against 3,246 calls during the preceding year. Out of these 2,124 calls were for actual fires as against 1,747 calls during the preceding year. 635 calls were false alarms of which as many as 385 were due to malicious interference with street alarms as against 403 in the preceding year. 1,161 calls as against 808 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 22 serious fires during the year. The estimated total loss to property damaged by the fire was about Rs. 5,89,96,893 as against Rs. 2,00,85,438 during the previous year. The value of the insurance of properties affected by fire was about Rs. 3,99,17,794 as

against Rs. 1,92,39,441 during the previous year and the total value of the property involved was worth Rs. 5,24.04 crores as against Rs. 2,34.50 crores in the preceding year.

During the year 47 persons lost their lives due to burns of which 17 were males and 30 were women.

169 persons received minor injuries and 29 persons lost their lives in 371 incidents of house collapses during the year.

The approximate quantity of water used in extinguishing fires was 1,34,81,057 litres out of which 1,15,13,992 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 6,662 of which 1070 were for accidents, 686 for maternity cases and 4,886 for hire cases.

First-Aid was rendered by the Ambulance staff on 184 occasions as against 136 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 Debt Charges, etc., was Rs. 26,35,498 as against Rs. 36,47,519 in the preceding year.

PUBLIC GARDENS.

28. During the year under report, the Department maintained 205 sites for public recreation, including 71 Gardens, 8 Fountains, 6 Band Stands, 11 Traffic Islands, 92 Recreation Grounds, 5 Statues and 6 Box Hedges in the City, 44 Gardens, 2 Playgrounds, 1 Band Stand and 1 Traffic Island in Suburbs and 12 Gardens, 1 Statue and 1 Band Stand in the Extended Suburbs.

During the year, 197 wild animals, birds and reptiles were treated in the Zoo Hospital. The total livestock in the Zoo was 899.

7 New Gardens and 22 Playgrounds were Developed during the year under report.

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.

29. The total number of visitors during the year was 7.11 lacs as against 5.45 lacs in the preceding year.

The amount realised by the levy of admission fee was Rs. 19,844 as against Rs. 15,193 in the preceding year. The total expenditure on the maintenance of the Museum, during the year was Rs. 65,886 as against Rs. 60,039 during the preceding year.

MUNICIPAL FREE READING ROOMS AND LIBRARIES.

30. As per Corporation Resolution No. 114, dated the 26th April 1965, 16 Municipal Free Reading Rooms and Libraries out of 23 in Greater Bombay were being managed by the Mumbai Marathi Grantha Sangrahalaya. During the year one Municipal Free Reading Room and Library was opened at Byculla and two more Municipal Free Reading Rooms and Libraries at Mandvi and Lower Parel were handed over to the Mumbai Marathi Granth Sangrahalaya. Thus out of 24 Municipal Free Reading Rooms and Libraries 18 are managed by Sangrahalaya. The total number of new books purchased in Libraries in the City and Suburbs was 343 and 276, respectively, during the year under review and the number of visitors to the Reading Rooms and Libraries in the respective areas was 0.75 lacs, and 0.17 lacs as against 1.30 lacs in the City and 0.24 lacs in the Suburbs, during the preceding year which indicate fall in number in the City and the Suburbs. The income from the Libraries and Reading Rooms in the City and Suburbs stood at Rs. 754 and Rs. 652, 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 287 cases as against 311 in the previous year and the number of contracts entered into for the various scheduled articles was 452 as against 513 in the preceding year. The number of casual or market enquiries or quotations invited for articles not covered under the schedule was 275 as against 398 in the preceding year. The value of stores and other materials purchased including articles received from other Departments on Return Stores Memo., during the year amounted to Rs. 153.15 lacs as against Rs. 138.50 lacs in the previous year.

3014 orders for the purchase of stores against 2,937 in the preceding year were placed with contractors and other dealers. Against these purchases and stock on hand, the consuming departments submitted 26,254 indents and Sales Memo. as against 24,236 in the preceding year. At the close of the year, the department had, on hand, stores of the value of Rs. 70.56 lacs against Rs. 57.97 lacs in the preceding year.

The total amount realised by the sale of unserviceable articles through private offers including mixed scrap amounted to Rs. 3.14 lacs as against Rs. 2.08 lacs in the preceding year.

On a surprise visit to the Central Stores by the Standing Committee it was revealed that articles actually supplied were not as per approved samples. The Standing Committee takes a serious view of this and would like the Commissioner to take necessary steps to in that behalf.

LICENCE DEPARTMENT.

32. During the year, the amount collected by way of licence fees, permit fees and transfer fees was Rs. 45.20 lakhs.

From the permits issued for exhibiting sky signs, advertisements, etc., the total revenue realised was Rs. 13.76 lakhs in the City, Rs. 2.52 lakhs in the Suburbs and Rs. 0.47 lakh in the Extended Suburbs, the corresponding figures for the last year being Rs. 13.39 lakhs in the City, Rs. 2.49 lakhs in the Suburbs and Rs. 0.45 lakhs in the Extended Suburbs.

The Department instituted 3,668 cases in the City, 1,492 cases in the Suburbs and 679 cases in the Extended Suburbs for offences under Sections 328, 328A, 394 and 412A of the Bombay Municipal Corporation Act. The total amount of fines inflicted was Rs. 2,60,799 in the City, Rs. 93,685 in the Suburbs and Rs. 88,080 in the Extended Suburbs.

The number of squatters' and hawkers' licences issued were 71,428 in the City, 12,045 in the Suburbs and 429 in the Extended Suburbs. The amount realised therefrom was Rs. 11,85,452 for the City, Rs. 2,73,530 for the Suburbs and Rs. 39,667 for the Extended Suburbs, respectively.

The Corporation had appointed a Committee regarding the question of suitably modifying the present policy of issue of hawkers' licences so as to provide more licences to the hawkers in the City (*Vide* C. R. No. 1816, dated the 19th March 1964). Accordingly, new Reserved Areas are created and licences are being issued by the Ward Officers in consultation with the Ward Councillors.

Under Government Resolution, Revenue and Forest Deptt. No. MDA/2564/209479-AI, dated the 19th January 1971 the State Government has appointed a Committee, under the chairmanship of the Collector of Bombay, of which the Deputy Municipal Commissioner (I) and the Deputy Commissioner of Police (Traffic) are other Members, has been examining the issue of new licences with a view to have a solution for the hawkers' problem. No new licences are granted by Municipal authorities without consulting this Committee.

During the year under report, 2,671 auction sales of the articles seized by the encroachment removal staff but not redeemed by the parties were held and amount of Rs. 29,555 was realised as against Rs. 26,003.79 last year.

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. Unless vigilance is exercised and drastic measures are taken against such unauthorised squatters and hawkers with the help of the Police, the Committee feels that the nuisance would increase, defying solution.

33. The total number of establishments under the various categories including Theatres, etc., on 31st March 1971 was 96,345 in the City, 24,308 in the Suburbs and 13,523 in the Extended Suburbs as against 94,782 in the City, 22,932 in the Suburbs and 12,284 in the Extended Suburbs in the last year.

During the year under report, 1,157, 280 and 90 complaints, respectively, pertaining to City, Suburbs and Extended Suburbs, were received in addition to complaints pending from the preceding year out of which 1,183 280 and 92 were investigated, leaving 51, 9 and 1 complaints pending at the close of the year.

At the beginning of the year 3,764, 853 and 220 prosecutions were pending while 6,596, 1,858 and 887 new prosecutions were instituted during the year. Of these prosecutions, 6,604, 1,254 and 837 resulted in convictions, 9 and 1 in acquittals and 24 and 9 cases were withdrawn. The number of cases pending at the end of the year was 3,719, 1,427 and 270. The total amount of fines realised was Rs. 2,36,861, Rs. 45,360 and Rs. 24,405 as against Rs. 2,76,521, Rs. 50,250 and Rs. 14,355 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. 5,77,654, Rs. 1,54,630.39 and Rs. 82,312.85 for the City, Suburbs and Extended Suburbs (exclusive of Provident Fund, Leave Contributions and Supervision Charges) against which a grant-in-aid of Rs. 3,41,126 was received from Government for the year 1969-70 for meeting part of the expenditure incurred during the year 1969-70. The total income by way of Registration fees, etc., for the year amounted to Rs. 2,40,981.82, Rs. 58,452.34 and Rs. 31,781.25 for the City, Suburbs and Extended Suburbs, respectively. Thus the total income including Government grant was Rs. 5,04,492.82 for the City, Rs. 1,08,916.34 for the Suburbs and Rs. 58,932.25 for the Extended Suburbs.

164 complaints pertaining to the Payment of Wages Act. in the City, 42 for the Suburbs and 10 for the Extended Suburbs were received. 2 complaints in respect of City and 3 complaints in respect of Suburbs were pending disposal at the close of the year under report.

The Standing Committee regrets to note that the Executive has not been successful in removing unauthorised encroachments, stalls and hawkers from the roads and footpaths in accordance with the provisions of the Bombay Municipal Corporation Act and is, therefore, of the considered opinion that a Special Cell for vigilance and effective supervision be created to pursue action rigorously against the unauthorised hawkers occupying road spaces on all important roads and near the Markets.

MARKETS AND SLAUGHTER HOUSES.

34. The total income of the Department for the City, Suburbs and Extended Suburbs, during the year was Rs. 97.00 lakhs as against Rs. 94.48 lakhs in the previous year showing an increase of Rs. 2.52 lakhs.

During the year there were 62 Municipal and 22 private markets. One open Air Market at Janata Colony, Jogeshwari was started from 1st November 1969. The number of outside meat shops was 196 in the City, 246 in Suburbs and 91 in Extended Suburbs. The licence fees realised from private markets and outside meat shops were Rs. 93,660 and Rs. 19,400, 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. 13,87,516 as against Rs. 13,28,636 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.

The total number of animals slaughtered during the year in the City was 14,25,124 as against 15,01,935 during the previous year.

The work of construction of an upto-date Abatoir to replace the outdated Bandra Slaughter House was in progress during the year.

The Standing Committee feels that construction of additional markets preferably near the Railway Stations be undertaken expeditiously to cater to the needs of ever-increasing population so that apart from augmenting the revenue of the Corporation the nuisance of squatters can also be minimised by allotting stalls to them in the markets. The Committee also feels that the markets should be maintained clean and decent so as to attract more visitors and be laid out on the lines of Departmental Stores.

MUNICIPAL PRINTING PRESS.

35. During the year under report 291½ metric tons of paper was purchased. The total number of printing jobs carried out was 11,576 and the number of pages printed was 41,470 as against 10,596 and 41,489 in the preceding year. The total quantity of paper consumed during the year under report was 384½ metric tons as against 394½ metric tons in the previous year.

The transactions of the Press for the year closed with a working surplus of Rs. 69,416 on the total turnover of Rs. 33,04,800 as against the deficit of Rs. 2,26,688 and the turnover of Rs. 26.54 lacs for previous year. The labour staff as on 28th February 1971, consisted of 295 workers as against 270 on the 28th February 1970.

The Standing Committee regrets to note considerable delay in printing of proceedings of the Corporation and its various Committees. 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 is increasing 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 for getting the work done.

K. E. M. Hospital.

36. This Hospital has completed 45 years of service. The scheduled bed strength of the Hospital during the year was 1,333. 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 60,761 as against 61,011 during the preceding year. The average number of days each patient was resident was 10.8 days as against 10.6 days in the last year. The average cost per in-patient per day was Rs. 19.46 as against Rs. 18.47 in the previous year.

The total number of new out-patients treated was 3,66,994 as against 3,45,096 in the previous year. The out-patients attendance including casualty patients during the year came to 7,17,150.

25,849 operations were performed on in-patients and 45,209 operations were performed on out-patients.

The Dr. Jivraj N. Mehta Pharmaceutical Laboratory attached to the Hospital manufactured many injectables viz., 85,514 transfusion bottles 500ml. 10,275 A. C. D. bottles, vials, 100, 50 and 10 ml. (14 types) 17,424 bottles, bulk injections and sterile solutions (five types) 244 412 litres stains and solutions for clinical use. The Blood Bank worked satisfactorily and during the year 11,041 Blood samples were supplied for transfusion out of Blood samples Collected; 3,784 were from Voluntary donors and 2,375 from relative donors and 4,179 from professional donors. An amount of Rs. 60,352 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 193 vasectomy operations and 666 Sterilization Operations. The total number of cases registered was 815 and the total attendance was 2,846.

2,170 Food Handlers working in hotels and restaurants in the City were referred to the hospital by H.O.'s Department from 1st January 1970 to 31st December 1970 for examination, of which only 869 persons attended. 429 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. 1,77.44 lacs approximately as against Rs. 155.44 lacs in the previous year.

Seth G. S. Medical College.

37. During the year under report 160 admissions were made. Five students who came from outside India were nominated by the Government of India to the reserved seats and two were taken from Schedule Caste and Backward Class Community. There were 1,315 students on the roll, excluding overseas students.

There are three Hostels attached to the Seth G. S. Medical College. Male students Hostel has 125 rooms accommodation and Ladies Hostel has 36 rooms accommodation and Hostel situated at Naigaum meant for Interns has 44 rooms accommodation.

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.

E. N. T. Hospital.

38. The Hospital has a provision for 100 beds and all the 100 beds were commissioned for the use of in-patients, during the year under report. The total number of patients admitted in the Hospital during the year was 5,483, out of which 124 were cured, 5,084 were relieved, 194 were otherwise discharged, 31 left against medical advice and 19 died leaving 62 patients under treatment in the Hospital at the close of the year. The daily average attendance of out-patients was 264.85.

In all 4,745 operations were performed on in-patients during the year.

An amount of Rs. 23,650.55 was collected in the Poor Box Charity 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 inpatients on an average was 773.90 in-patients in the Hospital as against the scheduled bed strength of 713. The total number of in-patients admitted during the year was 30,909 as against 26,987 during the previous year. The total number of in-patients treated was 31,654. The average cost per day per in-patient was Rs. 25.03 as against Rs. 28.85 during the previous year.

The total number of out-patients treated was 7,10,921 as against 4,52,775 during the previous year and the average number of out-patients attendance per day was 233.89 as against 1,479.66 of the previous year.

A hospital with 300 beds has been proposed to be constructed during the year under review.

Dr. Bhajekar Municipal Hospital at Khetwadi continued to be under the supervision of the Dean, B. Y. L. Nair Charitable Hospital with the scheduled bed strength of 45.

The expenditure incurred on the maintenance of the Hospital during the year 1970 amounted to Rs. 1,46,850 including repairs.

Topiwala National Medical College.

40. The College had 657 under-graduate students on the roll at the close of the year, out of whom 204 were lady students. Besides, there were 300 post-graduate students including 103 lady students. 152 students including 62 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. 33.18 lacs as against 20.13 lacs during the previous year. The total income by way of tuition fees, miscellaneous, etc., receipts amounted to Rs. 3.41 lacs as against Rs. 3.33 lacs during the last year.

868 books were added to the Library during the year of which 115 were received by way of donations. The Library had at the end of the year 17,220 books as against 16,363 in the previous year.

Nair Hospital Dental College.

41. During the year under report, 57 students including 20 ladies passed the Final B.D.S. and 7 male students and 1 lady student passed M. D. S. Examination of the Bombay University from the College. The College has 97 Dental Chairs, 77 Dental Units and 4 Dental X-Ray Machines and other equipments to give dental treatment on most modern lines and also to facilitate teaching of dentistry. During the year, 86,028 patients were treated as against 85,433 during the previous year. 7,716 municipal school children were treated in the clinics. The total expenditure incurred was Rs. 13.52 lacs as against Rs. 8.63 lacs in the preceding year and the total revenue was Rs. 1,67,984 as against Rs. 1,74,625 during the preceding year.

808 Sets of the upper and lower Artificial Teeth, 553 Partial Sets of Teeth, and repairs to 144 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 bed accommodation of the Hospital was 507 (447 non-paying, 50 part-paying and 10 reserved for B.E.S. & T. Employees). 44,755 patients were admitted for indoor treatment during the year as against 40,541 during the preceding year. The daily average number of in-patients was 933.4 as against 879.7 in the preceding year. The average number of days each patient was resident was 7.6 as against 7.9 during the preceding year.

The total average cost per day per in-patient was Rs. 21.73 as against Rs. 21.37 in the preceding year. The highest number of in-patients attendance on a single day was 1,020.

The total number of new out-patients was 2,31,513 with a daily average of 759 as against 2,03,202 and 664.15 respectively, in the preceding year. The highest number of out-patients attendance on a single day was 1,242 as against 1,711 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 1,057 as against 1,112 during the preceding year.

Audiology and Speech Therapy Department started from January 1970, gave satisfactory treatment to 751 patients.

The approximate total expenditure during the year under report was Rs. 96.35 lakhs as against Rs. 77.33 lakhs in the preceding year.

The Lokmanya Tilak Municipal Medical College attached to this Hospital which was started in November 1964 entered into its seventh academic year. The College has a strength of 360 students.

The total expenditure of the College amounted to Rs. 2,46,160 during the year under report as against Rs. 3,82,804 during the previous year. The revenue of the College by way of tuition fees and miscellaneous receipts, etc., amounted to Rs. 99,855 as against Rs. 1,32,895 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 1,418 viz., Group of T. B. Hospitals, Sewri, 830, Isolation Centre attached to the Ramkunwar Daftary T. B. Clinic, Dadar, 88, and Sarvodaya Hospital, Ghatkopar, 500 (reserved for the Corporation). The total number of patients treated was 7,078 as against 7,349 during the previous year. Of these 5,848 were discharged as improved, 118 were non-Tuberculosis cases, 494 left prematurely against advice, 618 died and 807 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 8.7 per cent. Major lung operations were performed in 685 cases.

As many as 3,400 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. 59,98,694 during the year. The average expenditure per patient per day was Rs. 15.95 as against Rs. 14.59 in the previous year.

The expenditure incurred during the year by the Corporation for treatment, etc., at the Sarvodaya Hospital, Ghatkopar, was Rs. 15.52 lakhs as against Rs. 19.25 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. 10,92,240. The total expenditure thus incurred by Corporation on Tuberculosis Services amounted to Rs. 70,90,934.

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 32,105 files as against 34,834 during the preceding year.

Education.

45. At the close of the year, there were 5,03,047 pupils in 934 Schools and 114 classes in Greater Bombay, the number in the City being 2,60,027 pupils in 490 Schools and 46 classes in the Suburbs, 1,73,349 pupils in 316 schools and 45 classes and in the Extended Suburbs 69,671 pupils in 128 Schools and 23 classes. During the year, there was a net increase of 7,761 pupils in Municipal Schools. The total number of teachers in Greater Bombay at the end of the year was 14,525 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 1,048 schools and classes, about 706 schools and classes were required to be run in two sessions and more than two sessions for want of sufficient accommodation.

The number of Municipal owned buildings at the beginning of the year in Greater Bombay was 211. 4 schools were built during the year under report. The total number of municipal owned school buildings in Greater Bombay at the end of the year was 215. Wherever possible additional floors were constructed on some Municipal school buildings thereby increasing the number of class-rooms.

599 schools (including classes) were housed in Municipal owned school buildings, 421 schools including classes were housed in rented buildings and 28 schools were housed in rentfree buildings. Due to yearly increase in the number of pupils it has become practically impossible to acquire additional accommodation except by way of constructing buildings or extending the existing ones. The Standing Committee is, however, of the opinion that under the Development Plan, sites have been reserved for schools and as such speedy efforts should be made to construct buildings on vacant plots which are in possession by giving priority.

Rahimtulla Currimbhoy Municipal Urdu Teachers' Junior College of Education, Imamwada—During the year under report, there were 78 trainees for D.Ed. Course of 2 years. All the trainees were sent up for the First D.Ed. Examination held in April 1971.

Municipal Urdu Teachers' Junior College of Education, Mahim—During the year under report, there were 40 trainees in the D.Ed. Course. 36 trainees appeared for the D.Ed. 1st Year Examination held in April 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.

In all 1,34,314 pupils were medically examined out of whom 1,13,367 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. Screening of suspected cases of T. B. was carried out at the Municipal T. B. Clinic. Suspected cases of Leprosy were directed to Special Clinic for treatment and were not allowed to attend school, if found infectious. All Municipal Schools have been supplied with emergency outfit.

The total number of Aided Schools in Greater Bombay during the year was 207 out of which 119 were in the City, 55 in the Suburbs and 33 in the Extended Suburbs as against 201 in the previous year. The total number of teachers in Aided Schools was 1856 (1613 ordinary and 243 special) imparting education to 62,122 pupils. The number of pupils in Aided Schools in the City, Suburbs and Extended Suburbs increased during the year under review from 59,149 to 61,633. The total number of Recognised Schools not receiving Grant-in-Aid was 381 (203 in the City, 122 in the Suburbs and 56 in the Extended Suburbs) with 4,021 teachers imparting education to 1,26,957 pupils.

The total expenditure for the year amounted to Rs. 8,81,94,656 which was met from Municipal contribution (Rs. 6,44,94,910), Government Grant, (Rs. 71,95,460), Education Cess (Rs. 1,43,06,168) and miscellaneous receipts (Rs. 8,76,254).

Secondary Schools.

During the year under report no new secondary schools were opened due to paucity of funds. During the year there were 402 divisions, and the teaching staff was 610. The total number of pupils attending these schools was 17,214.

The Standing Committee also feels that the tone of Education should be upgraded by giving frequent visits by the Supervisory Staff. The Administration should also consider the feasibility of entrusting the work of medical examination to private practitioners in order to ensure medical check-up of all pupils attending municipal schools at reduced cost.

Research Unit.

46. The Research Unit carried out special experiments in selected schools on several educational problems, such as, how to make classes interesting, to increase attendance, to minimise the failure, etc. Reading habits of children were studied and a language Development Project in Standards I to IV in model schools was undertaken. "Supervision Project" in multilingual schools in almost all the Wards was continued and in-service Training Classes for teachers teaching science in Primary Classes had been conducted. Science and Mathematics curriculum Improvement Programme was conducted for teachers and Officers for giving them orientation training in modern science teaching, etc.

LABOUR DEPARTMENT.

47. During the year, 22 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 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 employees' grievances. Four new Unions were recognised during the year under report, viz., (1) Association of Inspectors (Schools); (2) Municipal Head and Dy. Head Teachers Association; (3) Municipal Secondary Teachers' Association; and (4) Bharatiya Kamgar Sena. Recognition granted to (1) the Bombay Municipal Engineering Officials Association; (2) Bombay Municipal Hindi Shikshak Parishad; (3) Municipal Primary Sindhi Teachers' Association; and (4) Bombay Municipal Peons' Union was withdrawn as they failed to produce the records and receipts books for verification for the year 1968-69 which amounted to violation of Rule No. 5 of the Rules and Regulations for recognition of the Associations or Unions.

The Department dealt with 16,562 complaints (including Suburbs) as against 14,918 in the previous year, regarding service conditions, recruitments, promotions, transfers, etc. Of these complaints 15,836 were redressed, 656 were found not genuine cases and 70 cases were pending at the close of the year.

Three Awards under Industrial Disputes Act were received and published during the year under report.

The recreation, 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 different Welfare Centres was 2,400 and 2,580, respectively as against 2,392 and 2,286 during the preceding year.

Under the scheme for granting scholarships to the children of Municipal employees, 628 applications were received and 214 scholarships were granted to applicants for higher education and 269 for secondary education. The total amount given by way of scholarships to the municipal employees was Rs. 29,887. The total strength in Scout and Guide Sections was 4,311 as against 4,098 during the preceding year.

4 new welfare centres were opened during the year under report One each at Powai, Tansa, Vaitarna and Municipal Staff Quarters at Khar.

PUBLICITY DEPARTMENT.

48. This Department effected general publicity about the various activities and services rendered by different Departments. The Department also worked as a "clearing house" in respect of criticisms and suggestions appearing in local newspapers. It also carried out health education work and dissemination of information to the public through various media.

The Department participated in various important celebrations, such as, World Health Day, National Cleanliness Day, World Leprosy Day, etc., and published a Civic Diary, 1971, in English, Marathi and Gujarati.

A Press Room was put into Commission to enable Press reporters and the Departments to keep proper liaison with each other.

M. G. M. O. Swimming Pool.

49. During the year under report, the working and progress of the Mahatma Gandhi Memorial Olympic Swimming Pool at Shivaji Park was satisfactory.

The total reservation hours of the Pool by private parties were 727 which brought a revenue of Rs. 15,740. Facilities to 8 crippled children were given free of charge. As many as 50,152 casual swimmers including labourers and factory workers availed themselves of the facilities of swimming. Reservation of the Pool at a concessional charge of Rs. 100 per month was also allowed, as usual, to Seven Educational Institutions. Sixteen members of the Pool were included in the Maharashtra State Aquatic Association's team for participating in the National Aquatic Championship held at Bangalore in October 1970. Free Swimming facilities were provided to the blind persons by granting reservation of the Pool for two hours in a week. 50% concession in fees to the school going children was granted from January 1971.

6,302 new members joined the Pool during the year under report. 3,397 beginners were trained during the year. An amount of Rs. 3,05,861 was collected by way of fees as against Rs. 2,62,789 during the previous year. The expenditure during the year was Rs. 1,46,386.

Sardar Vallabhbhai Patel Swimming Pool.

A new small size Swimming Pool at Kandivli was opened for the public on 17th July 1970, which is named after Sardar Vallabhbhai Patel.

4488 members joined the pool of which 2,537 were beginners. The collection of fees during the year was Rs. 1,58,856 as against total expenditure of Rs. 68,310.

Administrative Office (Enquiries) Department.

50. The Department functions in three Sections viz., (1) Enquiries, (2) Stock Verification and (3) Security Force.

During the year 678 cases of misconduct and breach of rules were dealt with as against 882 cases during the previous year. In 94 cases, punishments varying from dismissal, removal from service to censures and warnings were meted out. In 72 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.

Industrial Unit of Home Guards continued to function well during the year under report.

The Bombay Municipal Security Force is conducting a Training School for the Security Guards. 165 Security Guards were imparted training during the year under report.

The Standing Committee note with concern the inordinate delay caused in finalizing Departmental Enquiries and hope that vigorous efforts will be made to expedite disposal of such enquiries.

THE BOMBAY CIVIC JOURNAL.

51. The monthly issues of the Journal contained articles on civic matters, such as slum clearance and improvement, water supply, etc., and other significant events.

As decided by the Corporation a Marathi Section was introduced in the Journal for the first time from March 1970.

Efforts to bring in more revenue by way of advertisements and increase in circulation were continued during the year under report.

The Standing Committee feels that vigorous efforts need to be made to ensure wider circulation of the Journal by giving due publication to the improvements made in the various civic services from month to month.

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.

The Staff of this Unit had undergone during the year the advanced training course in management arranged in consultation with the Central Labour Institute. FERT/CPM training programmes were carried out for Engineering Staff.

To facilitate introduction of Marathi as the official language eleven Classes were continued to teach Marathi to 308 non-Marathi employees.

The Standing Committee feels that the main objective of setting up the Division is not being pursued and desires that concerted and vigorous drive should be undertaken by this Division 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.

Public Health.

53. *Population Census.*—The mid-year estimated population of Greater Bombay was 57,00,000.

Birth and birth rate.—The total number of live births recorded in Greater Bombay during the year was 1,61,312 which were 1,741 more than in 1969 and 9,223 above the average of the quinquennium 1965-69. The birth rate was 28.3.

Deaths and death rate.—The total number of deaths registered from all causes during the year was 55,898 in 1970 as against 54,831 in 1969 being 2,561 more than the mean mortality of the preceding 5 years and the death rate was 9.8 against 9.9 in the year 1969. Out of 55,898 deaths, 33,003 deaths were among males and 22,895 among females. The excess of deaths amongst males may be ascribed to the preponderance of males in population. The death rate among females was, however, actually higher than that among males, the male death rate being 13.2 per cent and the female death rate 13.8 p.c. against 12.9 and 13.6, respectively, in 1969. Diseases of the respiratory system claimed the highest number of deaths as in the past with a death rate of 1.6 per 1,000 of population. The causes coming next on the list for the year were tube culosis 1.1., congenital malformation and diseases of early infancy. 0.9 diarrhoea and dysentery 0.7.

Infant Mortality.—Deaths among infants under one year of age numbered 12,994 which were 512 less than in preceding year and 331 less than the annual average of the previous quinquennium (1965-69). The infant mortality rate for the year was 80.6 per 1,000 live births as against 84.6 in 1969.

Maternity and Child Welfare.—During the year under report, services were rendered through 19 Municipal Maternity Homes, three Hospitals with Maternity Wards and 32 Maternity and Child Welfare Centres. The number of deliveries conducted in these Homes was 60,798 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 33,673 as against 34,023 in the preceding year. Infectious Hepatitis caused 2,518 attacks and 20 deaths. Small-pox caused 13 attacks and 2 deaths, Influenza did not cause any death. Enteric Fever caused 2,200 attacks and 36 deaths. Diphtheria caused 1,796 attacks and 6 deaths. Cerebro-spinal meningitis caused 6 attacks. Tuberculosis took a toll of 6,173 lives and the death rate of Tuberculosis was 1.1 per 1,000 of mid-year estimated population.

273 cases of Acute Interior Poliomyelitis and 36 deaths hereby were reported during the year.

Municipal Group of Tuberculosis Hospital at Sewri has an accommodation for 830 in-patients; besides 500 beds are reserved at the Sarvodaya Hospital, Ghatkopar. The advance cases of T. B. were isolated at the Daftary Municipal Isolation Wards at Dadar.

During the year 5,83,088 persons were inoculated against Cholera and 1,92,614 persons were inoculated with T.A.B. Vaccine.

The Standing Committee view with concern the existence of different kinds of diseases. So far as Tuberculosis is concerned, there is not much improvement although B.C.G. vaccination campaign is pursued vigorously. The Standing Committee, therefore, feel that medical authorities should investigate this problem with a view to find out other remedial measures to meet the growing menace of this dreaded disease to the citizens of this City.

Dispensaries.

54. The number of new cases treated at the 67 dispensaries and 113 mobile dispensaries were 23,68,630 as against 19,87,255 in the year 1969. In addition to the above dispensary work, women and children's 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 1,875 (1,712 women and 163 children) as against 1,980 in 1969. The total attendance was 16,456. These figures include the visits of lady doctors to patients at their homes. At 32 Maternity and Child Welfare Clinics 2,10,689 new cases (1,30,213 women and 80,476 children) were treated. The total attendance was 4,81,917.

The Standing Committee emphasises the urgent need to upgrade all Municipal dispensaries and convert them into Diagnostic Centres so as to provide X-Ray, Pathology and other facilities to render these services to patients attending them and to reduce congestion at the General Hospitals.

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. The Corporation also bears the cost on account of voluntary patients domiciled in Bombay and 150-170 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 231.8 and the total number of new cases, treated at the Acworth Leprosy Clinic was 4,039 and the average daily attendance of patients was 41.0 and the total number of new cases treated at the Greater Bombay Leprosy Control Scheme, was 2,122.

School Health Work.

55. During the year, out of about 5,41,982 primary municipal school children, 1,16,353 children were found to be defective. Of 16,628 students studying in secondary schools, 10,870 were medically examined and 10,664 were found defective. 650 cases with minor ailments among the children were treated in the municipal dispensaries. 56,902 children with major ailments were treated at the K.E.M. Hospital, Nair Hospital and the L.T.M.G. Hospital and Dental Clinic at Nair Hospital, etc.

79,765 children from Municipal Schools were B.C.G. vaccinated and 2,12,135 children were given T.A.B. inoculation. The Mobile Health Unit examined 45,805 children from I to IV Standards, in Municipal Schools. The Standing Committee is also of the view that a survey of schools should also be taken as regards leprosy is concerned, with a view to take preventive measures.

Kasturba Hospital for Infectious Diseases, Arthur Road.

56. 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 33,673 as against 34,023 in the preceding year. They included 15 cases of Small-pox, 2,129 of Enteric Fever and 1,694 of Diphtheria.

There were as many as 1,694 cases of Diphtheria out of which 133 proved fatal showing the fatality rate of 6.7 per cent. The cases admitted were from all parts of Greater Bombay, predominantly from Byculla, Parel, Lalbaug, Sewree, Matunga, Mahim, Sion, H and K Wards.

15 cases of Small-pox were admitted in the hospital out of which 3 died, giving a fatality rate of 13.3 per cent.

The total expenditure of the Hospital during the year was Rs. 63,84,834 as against Rs. 60,62,649 in the preceding year.

The Standing Committee repeatedly regrets to note that the question of setting up of an Infectious Diseases Hospital in Suburbs is kept pending over years..

Audit.

57. 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:

58. In conclusion, the Standing Committee desire to record their appreciation of the very valuable services rendered by Dr. M. N. Desai, Shri S. M. Y. Sastry and Shri C. Soares who held the office of the Municipal Commissioner during the year under report.

MUNICIPAL CORPORATION OFFICE,

BOMBAY, 8th January 1972.

R. P. PATIL
Chairman,
Standing Committee.

**ADMINISTRATION REPORT
OF THE MUNICIPAL COMMISSIONER
FOR GREATER BOMBAY
FOR THE YEAR 1970-71**

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

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

GENERAL

CORPORATION, STANDING COMMITTEE, IMPROVEMENTS COMMITTEE AND THE EDUCATION COMMITTEE

CORPORATION.

Dr. S. G. Patel who was elected Mayor at the First Meeting of the Corporation held on 6th April 1970 held that Office throughout the year.

2. One hundred and forty-four Meetings of the Corporation including nineteen Adjourned Special Meetings, ninety-six Meetings of the Special Committees and two Meetings of their Sub-Committees and eight Meetings of the Consultative Committees were held during the year. No Civic Reception was held during the year.

3. The change that took place in the personnel of the Corporation was the appointment of Shri J. G. Kajriya as a Member of the Corporation from 11th May 1970, vice Shri J. B. Shah expired on 20th November 1969.

STANDING COMMITTEE.

4. Shri M. G. Joshi was elected Chairman of the Standing Committee at their Meeting held on 10th April 1970 and held that Office throughout the year.

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

6. Shri P. M. Indulkar was an ex-officio Member of the Standing Committee on his appointment as the Chairman of the Education Committee with effect from 10th April 1970.

7. Eighty-five Meetings including Adjourned Meetings and Twenty-two Special Meetings including Adjourned Special Meetings and two Meetings of the Sub-Committee were held during the year.

IMPROVEMENTS COMMITTEE.

8. Shri V. S. Mahadik was elected Chairman of the Improvements Committee at their Meeting, held on 14th April 1970 and held that Office throughout the year.

9. The change that took place in the personnel of the Improvements Committee was the appointment of Shri V. M. Tikekar as a Member of the Improvements Committee from 14th January 1971, vice Shri K. A. Sapat resigned from 2nd December 1970.

10. Thirty-two regular Meetings including Adjourned Meetings and three Special Meetings including Adjourned Special Meetings were held during the year.

EDUCATION COMMITTEE.

11. Shri P. M. Indulkar was elected Chairman of the Education Committee at their Meeting, held on 10th April 1970 and held that office throughout the year.

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

13. Sixteen regular Meetings including Adjourned Meetings and nine Special Meetings including Adjourned Special Meetings were held during the year.

14. (a) (1). 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 period from 6th April to 26th June 1970 and from 5th October to 3rd November 1970.

(2) Shri A. J. Avasare, M.A., LL.B., was appointed as Ag. Municipal Secretary during the period from 6th April to 26th June 1970 and from 5th October to 3rd November 1970.

(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 of Adjudication during the year 1970-71 so far as this Department is concerned.

**LIST OF MEMBERS OF THE CORPORATION WHO HELD OFFICE ON 31ST
MARCH 1971.**

DR. S. G. PATEL, M.B., B.S. *Mayor.*

SHRI M. G. JOSHI, M.A., LL.B., *Chairman, Standing Committee.*

SHRI V. S. MAHADIK, B.A. (HONS.), L.S.G.D., *Chairman, Improvements Committee.*

SHRI P. M. INDULKAR, *Chairman, Education Committee.*

SHRI P. S. NAVALKAR, B.A. *Chairman, B. E. S. & T. Committee.*

ACHARYA, SHRI S. N.
ALVARES, DR. (SMT.) LILA P., B.A., Dip. S.S.A., Ph. D.
ANKLESHWARIA, SHRI R. C., B.Sc., B.T., M.Ed.
ANSARI, SHRI N. M.
ANSARI, SHRI P. M.
BAKHALE, SHRI P. P.
BEDI, SHRI M. H.
BHAGWAT, SHRI P. B.
BHATT, SHRI HARSHADRAY M.
BHOSALE, SHRI D. M. B.A., (Hons.)
BHOSLE, SHRI V. R.
BHUGRA, SHRI H. R., B.Com.
BODHE, SHRI N. R.
BOMAN-BEHRAM, SHRI B. K., M.A., LL.B.
CHAVAN, SHRI G. S.
CHAVAN, SHRI R. N.
CHHABRIA, SHRI K. P., G.C.D.
CHIKHALE, SHRI H. M.
CHIMBULKAR, SHRI R. K.
CHOGLE, SHRI H. W.
CORREA, SHRI H. J., B.A., LL.B.
DADIA, SHRI U. D.
DALAL, SMT. DEVIBEN S., B.Sc.
DALAL, SHRI N. C., B.Sc., L.T.C.
DANDIVATE, SMT. PRAMILA M., M.A., G.D. (Art.)
DANDEKAR, SHRI S. L., B.A., (Hons.), LL.B.
DARWATKAR, SHRI B. S.
D'CRUZ, SHRI C. R.
DEODA, SHRI M. S.
DEODHAR, SHRI D. S.
DESAI, SHRI C. B.
DESHPANDE, DR. SUDHAKAR H., M.B., B.S., D.O.R.L.
(Born.) F.C.G.P. (India.)
DHABUWALA, DR. B. M.
DHARAP, SHRI V. G. B.A., LL.B.
D'SOUZA, DR. J. LEON M.B., B.S.
DUBE, SHRI RAMESHKUMAR M.
DUTIA, SHRI G. B.
FERNANDES, DR. SIMON.
GAIKWAD, SHRI SUMANT S., B.A.
GANATRA, SHRI R. K.
GANDHI, SHRI I. P.
GANDHI, SHRI M. M.
GAONKAR, SHRI V. G.
GAVANDE, SHRI R. M., B.A. (Hons.), LL.B.
CAWDE, SHRI B. R.
CHOKSHE, SHRI G. D., B.A.
GOKHALE, SHRI S. S., B.Sc., B.Ed.
GORE, SMT. MRINAL K.
GUPTA, DR. H. S., M.B., B.S., L.M. (Dub.)
HALDANKAR, SHRI M. S., B.A., B.Ed.
JAMSANDEKAR, SHRI H. D.
JANI, SHRI S. M., Sahitya Ratna.
JILANI, SHRI K. G.
JOSHI, SHRI J. K.
JOSHI, SHRI S. G., B.Sc.
KACHWALLA, SHRI T. E., LL.B.
KADAM, SHRI P. R.
KAIRIYA, SHRI I. G.
KAMALA RAMAN, SMT. B.Sc.
KARA, SHRI H. M.
KARRA, SHRI T. K.
KAVTHE, SHRI M. N.
KHAIRE, SHRI R. A.
KHANDWANI, SHRI M. A.
KHANOLKAR, SHRI M. S.
KHARUDE, DR. D.H., Ayurved Bhishak.

KHEDEKAR, SHRI D. G.
KOHLI, SHRI SOHANSINGH J.
KOPA DE, SHRI E. R., B.A.
KORDE, SMT. SNEHALATA V.
KULKARNI, DR. R. N.
MAHAJAN, SHRI D. R.
MANTRI, SHRI L. S., B.Com., LL.B.
MATLIA, SHRI S. N.
MEHTA, SMT. JAYAWANTIBEN N.
MEHTA, SHRI KISAN G., B.A., LL.B.
MEHTA, SHRI N. D.
MEHTA, SHRI RUSI M.
MEMON, DR. A. U.
MORE, SHRI T. S.
NAGVEKAR, SHRI V. B.
NAGVEKAR, SHRI Y. S.
NAJMI, SHRI A. N., B.A., (Hons.), LL.B.
NALAVDE, SHRI D. S.
NIKLANKAR, SHRI P. D.
PADWAL, SHRI H. P.
PAI, DR. P. S.
PANCHAL, SHRI V. M.
PANDYA, SMT. LILYBEN A., B.Sc., (Lond.)
PARAB, SHRI B. A.
PARAB, SHRI V. G.
PARFKH, SHRI J. G.
PAREKH, SMT. TARABEN D.
PARVATKAR, SHRI V. M.
PATEL, SMT. INDUMATI T., B.A.
PATIL, SHRI A. W.
PATIL, SHRI D. B.
PATIL, SHRI R. P.
PATKAR, SMT. GEETA D., B.A., LL.B.
PUJARI, SHRI L. P.
RAGINWAR, SHRI R. W., Master Mariner.
RAJDA, SHRI RATANSINH G., B.A., LL.B.
RAMASWAMY, SHRI A. V. T.
RANGNEKAR, SMT. AHILYA P., B.Sc.
SALVI, SHRI D. J.
SAI VI, SHRI D. N.
SALVI, SHRI R. N.
SATAM, SHRI A. G.
SAWANT, SHRI M. M.
SAWANT, SHRI N. V.
SHAH, SMT. KANTABAI C.
SHELAR, SHRI B. S.
SHETE, SHRI B. H.
SHINGRE, SHRI D. S.
SHROFF, SHRI B. N.
SINGH, SHRI D. N.
SINGHANIA, SHRI J. Y., M.A., LL.B., Advocate.
SOLANKI, SHRI T. G.
TAWADE, SHRI N. S.
TAWADE, SHRI V. R.
TENDOLKAR, SHRI T. S., B.A., (Hons.), LL.B.
THAKKAR, SHRI P. V.
TIKAR, SHRI V. M., B.A., LL.B.
TORNE, SHRI S. G., M.A., LL.B.
TRIPATHI, SHRI R. V., M.A.
TRIVEDI, SHRI P. N.
VAIRAGI, SHRI M. T.
VARDE, SHRI S. S., M.A.
VARE, SHRI V. R.
VISHWANATHAN, SHRI D.
WANDREKAR, SHRI V. G., M.A.
ZAKARIA, SHRI A. B., M.A.
ZUTE, SHRI B. D.

**LIST OF THE MEMBERS OF THE STANDING COMMITTEE WHO HELD OFFICE
ON 31ST MARCH 1971.**

SHRI M. G. JOSHI, (Chairman).

SHRI M. H. BEDI,
SHRI V. R. BHOSALE,
SHRI H. J. CORREA,
DR. J. LEON D'SOUZA,
SHRI S. S. GAIKWAD,
SHRI P. M. INDULKAR,
SHRI S. G. JOSHI,
SHRI M. A. KHANDWANI.

SHRI V. S. MAHADIK,
SHRI D. R. MAHAJAN,
SHRI N. D. MEHTA,
SHRI V. M. PARWATKAR,
SHRI R. P. PATIL,
SHRI B. H. SHETE,
SHRI S. S. VARDE,
SHRI V. G. WANDREKAR.

LIST OF THE MEMBERS OF THE IMPROVEMENTS COMMITTEE WHO HELD OFFICE ON 31ST MARCH 1971.

SHRI V. S. MAHADIK. (*Chairman*).

SHRI V. R. BHUGRA.
SHRI R. K. CHIMBULKAR.
SHRI H. W. CHOGLA.
SHRI S. L. DANDEKAR.
DR. SUDHAKAR H. DESHPANDE.
SHRI V. B. NAGWEKAR.
SHRI A. N. NAJMI.
SHRI D. S. NALAVDE.

SHRI WADILAL M. PANCHAL.
SMT. GEETA D. PATKAR.
SHRI A. V. T. RAMASWAMY.
SHRI D. N. SALVI.
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 1971.

SHRI P. M. INDULKAR. (*Chairman*).

SHRI R. C. ANKLESHWARIA.
SHRI M. R. DANAVATE
SHRI S. S. GOKHALE.
SHRI N. D. MEHTA.
SHRI V. M. NADKARNI.
SHRI G. V. NERLEKAR.
SMT. INDUMATI T. PATEL.
SMT. KAMLA RAMAN.

SHRI D. N. SALVI.
SMT. KANTABAI C. SHAH.
SHRI J. Y. SINGHANIA.
SHRI V. R. TAWADE.
SHRI H. N. TRIVEDI.
SHRI M. T. VAIRAGI.
SHRI K. C. VYAS.

MUNICIPAL OFFICERS

MUNICIPAL COMMISSIONER'S OFFICE

The designations and names of the Important Municipal officers together with the period for which the posts were held by each of them are given below:—

Designation	Name of Officer	Period	
		From	To
Municipal Commissioner	Shri C. Soares, B. E. (CIVIL)	1-4-1970	22-5-1970
	Dr. M. N. Desai, B. A., Ph. D., I. A. S.	23-5-1970	11-10-1970.
	Shri S. M. Y. Sastry, M.A., B. L.	12-10-1970	28-10-1970.
	Dr. M. N. Desai,	29-10-1970	31-3-1971.
Dy. Municipal Commissioner (Senior)	Shri P. C. Pandya, M.A., LL.B., B. T., M. P. A. (U.S.A).	1-4-1970	23-5-1970
	Shri S. M. Y. Sastry, M.A., B.L.	23-5-1970	after } to 11-10-1970. office hours.
	VACANT.	12-10-1970	28-10-1970.
	Shri S. M. Y. Sastry.	29-10-1970	31-3-1971.
Dy. Municipal Commissioner (Personnel)	Shri R. C. Gulgule, B. COM.	1-4-1970	31-3-1971.
Dy. Municipal Commissioner (Zone I)	VACANT.	1-4-1970	22-5-1970
	Shri C. Soares B.E. (Civil)	...	23-5-1970 to 20-8-1970
	VACANT.	...	21-8-1970 to 24-10-1970
	Shri C. Soares.	...	24-10-1970 after } to 31-3-1971. office hours.
Dy. Municipal Commissioner (Zone II)	Shri V. C. Vaidya, M.A., LL.B.	...	1-4-1970 to 31-3-1971.
Dy. Municipal Commissioner (Zone III)	VACANT.	...	1-4-1970 to 31-8-1970.
	Shri B. H. Prabhavalkar, M.A.,		1-9-1970 to 31-3-1971.

MUNICIPAL CHIEF AUDITOR

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

OTHER HEADS OF DEPARTMENTS (CITY)

Sr. No.	Designation	Name of the Officer	Period	
			From	To
(1)	City Engineer	... Shri V. D. Desai, B.E. (Civil), M.E. (P. H.) Calcutta with first Class, M.I.E. (India).	...	Throughout the year.
(2)	Chief Accountant	... Shri V. C. Parikh, B.COM., C.A., I.I.B.	...	Throughout the year.
(3)	Hydraulic Engineer	... Shri L. G. Dhaygude, B.E. (Civil), A.M.I.E. (India) Shri Y. H. Kamat, B.Sc. B.E. (Civil), A.M.I.E. (India)	...	1-4-1970 to 30-4-1970. 1-5-1970 to 31-3-1971.
(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. M. College.	... Dr. T. H. Rindani, M.D., D.S.C., F.A.S.C., F.A.M.S.	...	Throughout the year.
(6)	Dean, B. Y. L. Nair Charitable Hospital and T. N. M. College	... Dr. C. K. Deshpande, M.B., B.S. M.D. (Path.)	...	24-8-1970 to 31-3-1971. Dr. E. J. D'Souza, M. S. Professor and Head of the Department of Anatomy looked after the duties of the Office of the Dean N. and T. from 1-4-1970 to 23-8-1970.
(7)	Dean, Nair Hospital, Dental College.	... Dr. M. S. N. Jinwalla, L.D.S.C. D.D. S., M.Sc., F.I.A.O.S., F.A.M.S.	...	Throughout the year.
(8)	Chief Fire Officer	... Shri S. Fredilis.	...	Throughout the year.
(9)	Dean, Lokmanya Tilak Municipal General Hospital & L. T. Municipal Medical College	... Dr. C. K. Deshpande, M.B.B.S., M. D. (Path.)	...	20-7-1970 to 23-8-1970. Dr. V. N. Panse, M.D.M.P.H. (Columbia) looked after the duties of the office from 1-4-1970 to 19-7-1970 and 24-8-1970 to 31-3-1971.
(10)	Medical Supdt. G. T. B. Hospitals.	... Dr. S. A. Shah, M.D., D.M.R.E., D. PH., T.D.D., F.C.C.P.	...	Throughout the year.
(11)	Assessor and Collector	... Shri B. H. Prabhvalkar, M.A. Shri D. B. Angadi, M.A., L.S.G.D., T.P. (Crt).	...	1-4-1970 to 31-8-1970. 1-9-1970 to 31-3-1971.
(12)	Education Officer.	... Dr. (Smt.) Madhuri R. Shah, B.A. (Hons.), M.ED., Ph.D. (Bom), Ph.D. (London)	...	Throughout the year.
(13)	Solicitor to Corporation	... Shri A. M. Desai, M.A., LL.B.,	...	Throughout the year.
(14)	Project Engineer	... Shri L. G. Dhaygude, B.E. (Civil), A.M.I.E. (India)	...	1-5-1970 to 31-3-1971. He was in charge of the office from 1-4-1970 to 30-4-1970.
(15)	Controller of Stores	... Shri K. S. Pesina, B.E. (Civil)	...	Throughout the year.
(16)	Superintendent of Markets.	... Dr. V. Periyar, G.B.V.C. Dr. D. M. Bailure, B.Sc. (Vet.) M. R.C.V.S.	...	1-4-1970 to 13-1-1971. 14-2-1971 to 31-3-1971.
(17)	Administrative officer (Enquiries)	... VACANT	...	Shri C. K. Patel, M.A.L.L.B., was in charge of this office throughout the year.
(18)	Ward Office (Estates)	... Shri K. U. Mehta, B.A. (Hons)	...	Throughout the year.
(19)	Labour Officer	... Shri G. S. Saudagar, B.A. (Hons), LL.B., Dip. L.W.	...	Throughout the year.
(20)	Public Relations Officer.	... Shri N. A. Mistry, M.A., D.J. Dip. S.W.	...	1-4-1970 to 21-3-1971. Shri K. T. Paradi, M.A. looked after the duties of this office from 22-3-1971 to 31-3-1971.
(21)	Dy. Assessor and Collector (Octroi and Election Branch)	... Shri D. B. Angadi, M.A.L.S.G.D.	...	1-4-1970 to 31-8-1970. Shri N. S. Chaubal, B.Sc. 1st LL.B. looked after the duties of this office from 1-9-1970 to 31-1-1971 & Shri P. R. Kharkani, from 1-2-1971 to 31-3-1971.
(22)	Superintendent of Licences.	... Shri R. D. Jaisinghani B.E. (Civil). Shri C. K. Patel, M.A., LL.B.	...	1-4-1970 to 31-8-1970. 1-9-1970 to 31-3-1971.

Sr. No.	Designation	Name of the Officer.	From	Period To
(23)	Superintendent of Gardens	Shri J. C. Garkhel, B.Sc. (Hons), (Agri.)	...	Throughout the year.
(24)	Research Officer	Dr. V. Y. Pendharkar, B.Sc. (Hons), M.ED., Ph. D.	...	Throughout the year.
(25)	Officer on Special Duty, (Municipal Ptg. Press).	Shri A. G. Hemmadi	...	Throughout the year.
(26)	Asstt. Medical Officer Ear, Nose and Throat Hospital.	Dr. M. J. Nerurkar, M.S. (Bombay)	1-4-1970 to 18-10-1970.	
		Dr. (Miss) S. R. Mudbhatkal M.B., B.S., D.G.O.	6-1-1971 to 31-3-1971.	
				Dr. R. A. Chandark, M. S., D.O.R.L., looked after the duties of A. M.O. from 19-10-1970 to 5-1-1971.
(27)	Organization & Methods Officer	Dr. S. D. Parchure, M.A., Ph.D.	1-4-1970 to 5-5-1970, and from 14-6- 1970 to 31-3-1971	6-5-1970 to 2-6-1970.
		Shri J. V. Nadkarni, M.A., LL.B., II Class, Rashtrabhasha Visharada		
(28)	Curator, Victoria and Albert Museum	...		Shri V. N. Barve, B.A. (Hons) Spl., L. S. G.D., Head Clerk looked after the duties of this office throughout the year.
(29)	Chief Complaints Officer	...		The post was VACANT throughout the year.
(30)	Manager, Mahatma Gandhi Memorial Olympic Swim- ming Pool.	Shri S. N. Pinge, L.S.G.D.		Throughout the year.
(31)	Chief Librarian	...		Shri V.N. Barve, B.A. (Hons). Spl. L.S.G. D., Head Clerk, looked after the duties of this Office throughout the year.
(32)	Manager, Raja Baldevdas Birla Kreedā Kendra	Shri S. G. Gavankar, B.A., L.S.G.D., P.H.I.		Throughout the year.

(SUBURBS AND EXTENDED SUBURBS)

Sr. No.	Designation.	Name of the Officer	From	Period To
(1)	Dy. Executive Health Officer (Suburbs)	Dr. S. C. Pansare, M.B.B.S., D.P.H. B.HY.	1-4-70 to 27-11-70.	
(2)	Dy. Accountant (Suburbs)	Dr. M. K. Vaidya, M.B.B.S., D.P.H. Shri M. V. Kanekar, B.Com., A.C.A. Shri S. D. Nadkarni, B.A. (Hons).	28-11-70 to 31-3-71. 1-4-70 to 18-5-70 and 1-6-70 to 30-6-70. 19-5-70 to 31-5-70 and 1-7-70 to 31-3-71	
(3)	Dy. Assessor & Collector (Subs.).	VACANT		Shri S. G. Pathak, B.A. (Hons). looked after the duties of this office through- out the year.
(4)	Asstt. Superintendent Markets (Suburbs).	Shri M. G. Talim.	...	1-4-70 to 1-9-70 and 9-3-71 to 31-3-71. Shri G. K. Bomisha and Shri I. K. Ansari looked after the duties of this office respectively from 2-9-70 to 4-10-70 and from 5-10-70 to 8-3-71.

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 12,361.

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-operation 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.

M. W. CHANDIRAMANI,
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. Documentary films and demonstration of the electric toy trains were shown free of charge to the visitors to the Children's halls, on the first floor on all days between 4-00 p.m. and 7-00 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. 1,07,330 was collected by way of revenue.

APPENDIX 'A'

Children's Halls on the first floor

Section	Approximate attendance of children visitors during the year 1969-70
Film Section Toy Train and Bal Bhavan Section. }	1,05,000

APPENDIX 'B'.

Section.	No. of days reserved by the public.
Hall and outside space	240
	Approximate No. of visitors.—2,82,000

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 two A. Es. (Vigilance), two S. Es. (Vigilance), one Junior Stenographer and one Clerk. This unit keeps watch over all technical matters, renders guidance to the technical staff, scrutinizes technical staff proposals, pays surprise visits to Municipal Construction Works and Municipal Maintenance Jobs, investigates complaints against staff of the Engineering branches and examines technical matters referred to by the Municipal Commissioner and Heads of Departments. The unit also functions as a co-ordinating agency for different units of the Engineering Sections and assists the administration in 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 Municipal Construction Works, are sent for testing. Whenever considered necessary this unit carries out hammer and load tests on construction works.

The Special Technical unit also carries out sample checking of few final bills for Municipal construction Works. It also checks a few Building Proposals after Building Occupation Certificates or Building Completion Certificates are issued to private parties, to verify that the Certificates are disposed of as per rules.

During the year, the Special Technical Unit attended the rounds of the Works Committee (Suburbs) and also of the Chairman, Education Committee by special invitation and pursued action on the complaints of irregularities made by the Municipal Councillors.

This Special Technical Unit also continued to carry out investigations in respect of some of the complaints of technical nature received and directed to the Executive Engineer (Vigilance) by the M. C., D. M. Cs., C. E. H. E., etc. and also some complaints received in the office of the Executive Engineer (Vigilance) in respect of constructions on private lands, factories, insanitary conditions, drainage, etc., including allegations made against the Engineering staff in the Central office, Zonal Offices or in the Ward Offices. References made by the A. O. (E) and other Heads of the Departments in respect of technical matters are also attended to.

Some details of the work done by the Special Technical Unit during the year 1970-71 are as follows:—

(1) No. of visits paid on Municipal works :—	
(a) Building Construction Works	301
(b) Road Construction Works	152
(c) Drainage Construction Works	166
(2) No. of final bills checked	32
(3) No. of the Works Committee and the Education Committee rounds attended	15
(4) No. of private properties and miscellaneous sites visited	298
(5) No. of Occupation/Building Completion Certificates verified	21
(6) Amounts recovered from the civic contractors by way of detection of excess payments and substandard work, penalties imposed, rebate recoveries effected for incomplete work, etc. pointed out at the time of checking the works in progress and while checking the final bills	Rs. 51,000.16

Y. H. MUNSHI,
E. E. (V).

FINANCIAL

Report from the Chief Accountant on the accounts of the General Municipal Administration, the Improvement Schemes and the Education Fund for the year 1970-71.

GENERAL MUNICIPAL ADMINISTRATION

The following statement summarizes the transactions for the year pertaining to Revenue and the Actuals for the preceding years.—

	1970-71			
	Budget Estimates	Revised Estimates	Actuals	Actuals for 1969-70.
	Rs.	Rs.	Rs.	Rs.
Opening Balance ...	2,73,50,000	3,95,36,689	3,95,36,689	3,94,56,996
Income ...	52,23,27,135	56,03,04,205	52,04,49,524	45,98,77,583
Expenditure ...	53,10,39,805	59,46,31,515	52,57,76,250	46,24,98,857
Balance ...	87,12,670 (Deficit)	3,43,27,310 (Deficit)	53,26,726 (Deficit)	26,21,274 (Deficit)
Balance ...	1,86,37,330	52,09,379	3,42,09,963	3,68,35,722
<i>Add:</i> Recoupment of Advances made from the Surplus Cash Balance for Capital Stores ...	...	...	...	23,99,994
Total ...	1,86,37,330	52,09,379	3,42,09,963	3,92,35,716
Decrease in Reservation for Advances ...	...	+66,86,841	+94,84,982	+3,00,973
Closing Balance ...	1,86,37,330	1,18,96,220	4,36,94,945	3,95,36,689

2. The details of reservation of advances etc.

Increases:—

	Rs.	Rs.
In Capital Stores ...	95,264	
In Reserve Stores ...	18,35,815	
In Contribution towards Improvement Scheme ...	18,84,230	
In advances to Public including Co-operatives for housing purpose	18,50,543	56,65,852

Decreases:—

In Renewed Grant for Expenditure in 1971-72	52,81,670	
In Advances Miscellaneous Advances ...	58,69,164	
In Advance to B. E. S. T. ...	40,00,000	1,51,50,834
Net Decrease ...	---	94,84,982

3. The net unencumbered Surplus Cash Balance on 31st March 1971 was as under:—

	Rs.		Rs.
Capital Stores ...	95,264	Surplus Fund as per Appendix No. 2	12,07,87,382
Reserve Stores and Line Suspense Account ...	89,86,032		
Advance for Plant & Machinery ...	23,76,332		
Miscellaneous Advances ...	4,82,11,240		
Advance to Co-operative Societies for housing ...	1,14,23,569		
Advance to B. E. S. T. ...	60,00,000		
Minimum required by law ...	1,00,000		
Surplus Cash Balance ...	4,35,94,945		
	12,07,87,382		12,07,87,382

4. The Opening and Closing Reserve Stores (including Capital Stores) Balance for the year 1970-71 compared below :—

	Opening Balance	Closing Balance	Increase Decrease
	Rs.	Rs.	Rs.
Serviceable Stores—			
Reserve Stores ...	67,98,780	86,44,088	+18,45,308
Reserve Stores (Foras Road Depot) ...	2,64,820	3,21,334	+56,514
Line Suspense Account ...	86,617	20,610	—66,007
Capital Stores ...	1,32,87,103	1,33,80,284	+93,181
Capital Stores (Foras Road Depot) ...	39,368	41,451	+2,083

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

	Outstanding debts on 1st April 1970	Loans raised during the year.	Repayment during the year.	Outstanding Debts on 31st March 1971
	Rs.	Rs.	Rs.	Rs.
Div. I ...	89,51,76,863	1,61,59,558	3,56,31,867	87,57,04,554
Div. II ...	14,55,71,000	4,29,00,000	60,21,000	18,24,50,000
Div. III ...	5,44,50,000	3,08,00,000	...	8,52,50,000
	1,09,51,97,863	8,98,59,558	4,16,52,867	1,14,34,04,554

The details of the loans raised are as stated below :—

	Rs.	
(1)	8,52,41,000	Being the loan amount towards Rs. 837 lacs 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. 1,650 lacs loan sanctioned under Corporation Resolution No. 1078 dated the 17th August 1970 and G. R. No. LON/3270/1816C/2647/701/XVI dated the 22nd Sept. 1970 and LON/3270/1816C/2647/XVI dated the 28th Nov. 1970. The provision of Sinking Fund is sanctioned on 12 year Improving at 5½ per cent.
Div. I	1,15,41,000	
Div. II	4,29,00,000	
Div. III	3,08,00,000	
Div. I	46,18,558	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.
	8,98,59,558	

The repayments during the year were as under :—

	Rs.	
Div. I ... (1)	28,09,841	Repaid to Government on the basis of payment from Revenue in respect of Advances taken from them.
Div. I ... (2)	3,03,96,500	Repaid to Debenture holders out of Sinking Fund Investment.
Div. II ...	60,21,000	—DO—
Div. I ... (3)	24,25,526	Repaid to different Special Funds out of Revenue on the basis of equated payments.
	4,16,52,867	

The position of the Sinking Fund is shown below :—

	Amount of Fund on 1st April 1970	Interest etc. received	Sinking Fund Instalments	Withdrawn for payment of loans	Amount of Funds on 31st March 1971
	Rs.	Rs.	Rs.	Rs.	Rs.
Div. I ...	22,21,66,379	1,03,80,336	3,71,13,785	3,03,96,500	23,92,64,000
Div. II ...	5,48,02,398	31,48,707	79,92,803	60,21,000	5,99,22,908
Div. III ...	1,40,43,405	8,02,469	27,31,445	...	1,75,77,319
	29,10,12,182	1,43,31,512	4,78,38,033	3,64,17,500	31,67,64,227

The value of the securities held in the Sinking Fund on the basis of market rates prevailing on 31st March 1971 including accrued interest and cash exceeds the actuarial amount of the Sinking Fund by Rs. 2,61,35,658 (Div. I—Rs. 1,97,19,976, Div. II Rs. 55,26,969 and Div. III— Rs. 8,88,713).

REVENUE INCOME

For Divisions I, II & III

6. The estimated income for the year was Rs. 52,23,27,135 and Revised Estimates was Rs. 56,03,04,205 (on the basis of 8 months actuals). The actuals amounted to Rs. 52,04,49,524 resulting in decrease of Rs. 18,77,611 on the Budget Estimates and Decrease of Rs. 3,98,54,681 on the Revised Estimates.

OCTROI

7. The gross collection for the year were estimated at Rs. 15,50,00,000. the refunds and commission charges at Rs. 1,50,00,000 and the net revenue at Rs. 14,00,00,000. The revenue collected and paid into the municipal treasury in the year amounted to Rs. 17,77,83,868 and after deducting the amount of Rs. 2,72,86,412 (on account of refunds Rs.2,46,77,377 and on account of fees for collection Rs. 26,09,035 credited to the separate Revenue Head) the net receipts amounted to Rs. 15,04,97,456 showing an increase of Rs. 2,64,69,639 as compared with the actuals of the previous year (i.e. Rs. 12,40,27,817).

REVENUE EXPENDITURE

For Division I, II and III

8. The final sanctioned grants amounted in the aggregate to Rs. 64,02,07,441.

Budget Grants	...	Rs. 53,10,39,805
Unexpended Grants for previous years renewed for Expenditure.	...	2,78,23,002
Additional Grants	...	8,13,44,634
Final sanctioned grants	...	64,02,07,441

The transfers from one Budget Head to another without affecting the total Budget Provisions for the year amounted to Rs. 41,60,130.

Against the final grants for the year aggregating to Rs. 64,02,07,441 as stated above the actuals amounted to Rs. 52,57,76,250 leaving an unexpended balance of Rs. 11,44,31,212 at the close of the year. Of this sum of Rs. 4,09,84,411 is being renewed for expenditure during 1971-72 against Rs. 4,62,66,081 in 1970-71 and the balance of Rs. 7,34,46,801 is being allowed to lapse.

9. The percentage of establishment to the total expenditure for 1970-71 and the previous years is as given below :—

Divisions	Percentage to total expenditure during	
	1970-71	1969-70
I	32.87	35.07
II	28.31	31.34
III	28.30	31.57

LOAN WORK EXPENDITURE (CITY)

10 The opening balance on 1st April 1970 on account of Loan Funds excluding the Trust Fund was Rs. 11,13,81,555. Loans aggregating to Rs. 1,61,59,558 were raised during the year. Thus the total loan funds available for expenditure during the year were Rs. 12,75,41,113. The total expenditure incurred during the year amounted to Rs. 7,88,09,996 leaving a balance of Rs. 4,87,31,117 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.		
1968-69 ...	18,35,17,920	15,35,99,780	7,80,79,537	43	51
1969-70 ...	15,79,53,400	16,22,37,705	6,56,43,830	42	40
1970-71 ...	16,55,96,750	15,61,32,810	7,88,09,996	48	50

The percentage of actual expenditure to the funds available works out to 62.

SUBURBS

The Opening Balance on the 1st April 1970 on account of Loan Funds and Trust Funds was Rs. 2,63,71,963 (Deficit). Adding to this Rs. 4,29,00,000 the amount of loan raised during the year and Rs. 50,000 the amount of contribution received towards Trust Fund, the deficit was wiped out and balance of Rs. 1,65,78,037 was available. The total expenditure incurred during the year under Loan and Trust Fund amounted to Rs. 1,30,97,700 leaving a balance of Rs. 34,80,337.

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.		
1968-69 ...	4,74,60,400	4,26,64,800	2,40,78,845	51	56
1969-70 ...	2,46,77,000	4,40,52,615	1,80,27,409	73	41
1970-71 ...	3,89,23,960	4,06,93,660	1,30,97,700	34	32

EXTENDED SUBURBS

The Opening Balance on the 1st April 1970 on account of Loan Funds was Rs. 1,86,30,340 (deficit). Adding to this loan of Rs. 3,08,00,000 raised during the year, the deficit was wiped out and balance of Rs. 1,21,69,660 was available. The total expenditure incurred during the year amounted to Rs. 80,39,865 leaving a balance of Rs. 41,29,795.

The following statement compares the expenditure on the Capital Works with the Budget and Revised Estimates during the last 3 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.		
1968-69 ...	3,18,39,500	2,69,82,900	1,65,65,718	52	61
1969-70 ...	99,74,100	1,78,65,420	91,56,778	91	51
1970-71 ...	1,86,42,300	1,95,38,610	80,39,865	43	41

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.		
1968-69 ...	26,28,17,830	22,32,47,480	11,87,24,100	45	53
1969-70 ...	19,26,04,500	22,41,55,740	9,28,28,017	48	41
1970-71 ...	22,31,63,010	21,63,65,080	9,99,47,561	45	46

SINKING FUND (CITY)

The book value of investment of the Sinking Fund as on 31st March 1971 amounted to Rs. 23,92,64,000 made up of Rs. 23,92,63,999 being the book value of securities and Re. 1 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 1971 comes to Rs. 23,91,27,488. This together with the amount of interest accrued upto 31st March 1971 viz. Rs. 23,95,493 and cash with the State Bank of India Re. 1 brings the total amount of Sinking Fund to Rs. 24,15,22,982 and more than covers the amount viz. Rs. 22,18,03,006 to which the Sinking Fund should have accumulated upto 31st March 1971. The excess in the Sinking Fund account was thus Rs. 1,97,19,976.

SUBURBS

The book value of investments of Sinking Fund as on 31st March 1971 amounted to Rs. 5,99,22,908 made up of Rs. 5,99,22,846 being the book value of securities and Rs. 62 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 1971 comes to Rs. 5,95,38,719. This together with the amount of Sinking Fund interest accrued upto 31st March 1971 viz. Rs. 8,82,736 and cash with the State Bank of India, Bandra, Rs. 62 bring the total amount of Sinking Fund to Rs. 6,04,21,517 and more than covers the amount of Rs. 5,48,94,548 to which the Sinking Fund should have accumulated upto 31st March 1971. The excess in the Sinking Fund account was thus Rs. 55,26,969.

EXTENDED SUBURBS

The book value of investment of the Sinking Fund as on 31st March 1971 amounted to Rs. 1,75,77,319 made up of Rs. 1,75,77,300 being the book values of the securities and Rs. 19 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 1971 comes to Rs. 1,75,32,300. This together with the amount of interest accrued upto 31st March 1971 viz. Rs. 2,28,505 and cash with the State Bank of India, Bandra, Rs. 19 brings the total amount of Sinking Fund to Rs. 1,77,60,824 and more than covers the amount of Rs. 1,68,72,111 to which the Sinking Fund should have been accumulated upto 31st March 1971. The excess in the Sinking Fund investment account was thus Rs. 8,88,713.

INVESTMENT (CITY)

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

	Aggregate Amount	Average No. of days
	Rs.	
(1) Fixed Deposits	53,04,00,000	190.19
(2) Call Deposits	10,50,00,000	18.22
(3) Current Account Deposits	3,72,54,003	12.20
Total	67,26,54,003	

The interest earned during the year amounted to Rs. 1,56,08,240 as against Rs. 87,97,284 during 1969-70 and The details are as follows:—

	Rs.
On Fixed Deposits	1,52,88,006
On Call Deposits	1,96,885
On Current Account Deposits	1,23,349
Total	1,56,08,240

The average rates of Interest on Fixed Deposits, Call Deposits and Current Account Deposits were 5.53 per cent 3.76 per cent and .99 per cent as against 5.05 per cent 4.22 per cent and .99 per cent for the preceding year respectively. The rates realised on Fixed Deposits ranged from 4.50 per cent to 7 per cent. On Call Deposits from 3.50 per cent to 4.50 per cent and on current account Deposits from 0.50 per cent to 1 per cent.

The maximum rates realised on Fixed Deposits, Call Deposits and Current Account Deposits during the preceding year were 7 per cent, 4.50 per cent and 1 per cent, respectively.

INVESTMENT (SUBURBS)

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

	Aggregate Amount	Average No. of days.
	Rs.	
(1) Fixed Deposits	55,00,000	195
(2) Call Deposits	81,00,000	44
(3) Current Account Deposits	6,08,89,899	4.31

The average rates of interest realised on Fixed, Call and Current Account Deposits were 4.50 per cent. 3.50 per cent. and 1 per cent. as against 4.54 per cent. 4.13 per cent. and 1 per cent. of the preceding year.

The interest earned during the year amounted to Rs. 1,76,052 as against Rs. 1,28,429 during the year 1969-70 the details are as follows :—

	Rs.
(1) On Fixed Deposits	1,32,288
(2) On Call Deposits	33,936
(3) On Current Account Deposits	9,828
	<u>1,76,052</u>

INVESTMENT (EXTENDED SUBURBS)

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

	Aggregate Amount	Average No. of days.
	Rs.	
(1) Fixed Deposits	35,00,000	222
(2) Call Deposits	10,00,000	59
(3) Current Account Deposits	2,25,91,682	5.54

The interest earned during the year amounted to Rs. 1,11,925 as against Rs. 44,797 during the year 1969.70. The details are as follows :—

	Rs.
(1) On Fixed Deposits	99,701
(2) On Call Deposits	5,705
(3) On Current Account Deposits	6,519
Total	<u>1,11,925</u>

The average rates of interest realised on Fixed, Call and Current Account Deposits were 4.69 per cent. 3.5 per cent and 1 per cent. as against 4.50 per cent. 3.87 per cent. and 1 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. 67,98,780 and Rs. 75,94,608 respectively and the issues amounted to Rs. 57,49,300. The Closing Balance of General Stores was therefore Rs. 86,44,088 i. e. more by Rs. 18,45,308 than the opening balance.

As against this the outstanding balance on 31st March 1971 according to Controller of Stores is Rs. 9,58,755. The difference of Rs. 66,85,333 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 1970-71. The Opening Balance and the receipt of General Stores of Foras Road Depot during the year as per this office book were Rs. 2,64,820 and Rs. 1,75,058 respectively and issue amounted to Rs. 1,18,544. The Closing Balance of General Stores, Foras Road Depot was Rs. 3,21,334 i. e. more by Rs. 56,514 than the opening balance. As against this, the outstanding balance on 31st March 1971 according to the Dept. books is Rs. 285,269.

CAPITAL STORES

15. The Opening Balance of Rs. 1,32,87,103 together with the receipts of Capital Stores during the year viz. Rs. 79,79,724 aggregated to Rs. 2,12,66,827. As against this issues during the year aggregated to Rs. 78,86,543 thus resulting in increase of Rs. 93,181 in the Closing Balance of Capital Stores viz. Rs. 1,33,80,284 compared with Opening Balance. As against this, the outstanding balance on 31st March 1971 according to C.S. is Rs. 51,07,585. The Opening Balance and the Receipts of Capital Stores Foras Road Depot were Rs. 39,368 and Rs. 40,971 respectively and the issues amounted to Rs. 38,888 thus resulting in an increase of Rs. 2,083 in the Closing Balance of Capital Stores, Foras Road Depot. viz. Rs. 41,451 compared with Opening Balance. As against this, the outstanding balance on 31st March 1971 according to Dept. books is Rs. 87,711.

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. 68,00,000 the expenditure being Rs. 67,39,079. This leaves a balance of Rs. 60,921. After deducting all ascertained time barred claims, the undischarged commitments upto 31st March 1971 in regard to set backs already acquired and sanctioned to be acquired amount to Rs. 41,10,931.

SUBURBS

The provision made in the Revised Loan Works Budget Estimates for meeting the claims on account of acquisition of set backs was Rs. 20,00,000, the expenditure being Rs. 19,13,106. This leaves a balance of Rs. 85,894.

EXTENDED SUBURBS

The provision made in the Revised and Loan Works Budget for meeting the claims on account of acquisition of set backs was Rs. 20,00,000 the expenditure being Rs. 18,18,365. This leaves a balance of Rs. 1,81,635.

LEVELLING, METALLING ETC. PRIVATE STREETS

17. The expenditure on the Improvements 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	
1968-69 ...	Rs. ...	Rs. ...	Rs. 47,621	Rs. 47,621	Rs. 280
1969-70 ...	...	...	35,575	35,575	...
1970-71 ...	...	...	3,383	3,383	...

Balance of supervision charges outstanding as on 31st March 1971 is Rs. 80,446

IMPROVEMENT SCHEMES

General Account

18. The total income for the year amounted to Rs. 3,16,43,316 against Rs. 2,51,94,937 for the previous year showing a net increase of Rs. 64,48,379 viz. increase of (1) Rs. 1,58,608 under Rent and other proceeds of properties (2) Rs. 61,39,544 under Contribution from Municipal Corporation and (3) Rs. 3,61,671 under Miscellaneous counter-balanced by decrease of (1) Rs. 39,000 under Grant-in-aid for meeting the deficit in general Account and (2) Rs. 1,72,444 under interest and profit on investment.

EXPENDITURE

19. The total expenditure for the year aggregated to Rs. 2,71,87,768 against Rs. 2,33,07,556 for the previous year showing an increase of Rs. 38,80,212. This is made up of increase of (1) Rs. 42,66,431 under Maintenance of Properties and Streets counter balanced by decrease of Rs. 3,86,219 under Debt Charges. The expenditure of Rs. 2,71,87,768 comprises of expenditure of Rs. 1,69,61,962 under Maintenance of Properties and Streets inclusive of cost of Management and Establishment and Rs. 1,02,25,806 under Debt Charges. The surplus of Rs. 44,55,548 in the General Account is transferred to Capital Account.

20. The loan liabilities at the beginning of the year stood at Rs. 15,42,12,022. The repayment of loan during the year amounted to Rs. 89,09,820 out of which Rs. 12,53,320 were repaid to Government on the basis of equated payment and Rs. 76,56,500 to the Debenture holders. The outstanding loan liabilities at the close of the year thus stood at Rs. 14,53,02,202.

CAPITAL ACCOUNT

21. The Opening Balance on 1st April 1970 was Rs. 54,27,344. During the year under report receipt on account of sale proceeds of lands and buildings amounted to Rs. 21,86,077. The total funds available were thus Rs. 76,13,421. The total expenditure incurred amounted to Rs. 17,15,069. The surplus in the General Account for the year which amounted to Rs. 44,55,548 was transferred to the Capital Account. The unspent balance at the close of the year stood at Rs. 1,03,53,900.

EXPENDITURE ON SCHEMES

22. The actual expenditure incurred during the year on schemes amounted to Rs. 17,15,069 as against the Revised Estimates of Rs. 47,57,580 including Rs. 5,64,250 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 1970.	Interest etc. realisation	Sinking Fund instalment.	Withdrawn for payment.	Amount of Fund on 31st March 1971.
Rs. 7,31,07,048	Rs. 41,07,013	Rs. 18,58,879	Rs. 86,85,378	Rs. 7,03,87,56

The Sinking Fund as on 31st March 1971 amounts to Rs. 7,03,87,562 of which Rs. 7,03,87,480 represent the book value of the securities and Rs. 82 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 1971 comes to Rs. 7,03,39,833. This together with the amount of interest accrued upto 31st March 1971 viz. Rs. 80,014 and cash with State Bank of India viz. Rs. 82 brings the total amount of Sinking Fund to Rs. 7,04,19,929 against Rs. 5,27,28,892 the amount to which the Sinking Fund should have accumulated upto 31st March 1971. The excess in the Sinking Fund investment account is thus Rs. 1,76,91,037.

24. The gross capital liabilities of the Improvement Schemes stood at Rs. 15,00,60,692 at the close of the year and the assets at Rs. 39,62,39,227 including the book value of the lands comprised in Schedules 'W' and 'X' resulting in a surplus Rs. 24,61,78,535.

SLUM CLEARANCE ACCOUNT

General Account (City and Suburbs)

CITY SECTION

INCOME

25. The total income for the year amounted to Rs. 16,79,072 against Rs. 16,58,759 for the previous year showing a net increase of Rs. 20,313. This is made up of increase of Rs. 1,22,743 under Rent and other proceeds of properties counter balanced by decrease of Rs. 1,02,430 under Interest and Profit on Investment.

Expenditure

The expenditure for the year amounted to Rs. 28,84,019 as against Rs. 23,13,964 for the previous year showing an increase of Rs. 5,70,055. This is made up of increase of (1) Rs. 4,74,745 under maintenance of properties and streets (2) Rs. 95,310 under Debt Charges. The expenditure of Rs. 28,84,019 comprises of (1) Rs. 11,44,460 under Maintenance and Properties etc. and (2) Rs. 17,39,559 under Debt Charges. Deficit of Rs. 12,04,947 is transferred to Capital Account.

SUBURBAN SECTION

INCOME

The total income for the year amounted to Rs. 7,94,904 against Rs. 4,87,941 for the previous year showing a net increase of Rs. 3,06,963. This is made up of increase of (1) Rs. 2,41,402 under Rent and other proceeds of properties (2) Rs. 1,32,091 under Miscellaneous receipt counter balanced by decrease of Rs. 66,530 under Interest and Profit on Investment.

Expenditure

The expenditure for the year amounted to Rs. 19,73,390 as against Rs. 17,48,792 for the previous year showing a net increase of Rs. 2,24,598. This is made up of Rs. 3,04,610 under Maintenance of Properties and Streets and Rs. 16,68,780 under the Debt Charges. The net deficit of Rs. 11,78,486 is transferred to Capital Account.

SLUM CLEARANCE

Capital Account
(City Section)

(1) The Opening Balance on 1st April 1970 was Rs. 25,09,818. The amount of Rs. 4,05,023 was received from Government as Loan. An amount of Rs. 4,05,023 was received from Government as subsidy. Thus the total funds available for expenditure were Rs. 33,19,864. The total expenditure amounted to Rs. 7,74,990. The deficit in the General Account amounting to Rs. 12,04,947 was transferred to Capital Account. The unspent balance at the close of the year stood at Rs. 13,39,927.

Sinking Fund

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

Amount of Fund on 1st April 1970.	Interest realisation	Sinking Fund instalment.	Withdrawn for payment.	Amount for Fund on 31st March 1971
Rs.	Rs.	Rs.	Rs.	Rs.
41,95,545	2,18,024	4,74,782	...	48,88,351

The Sinking Fund on 31st March 1971 amounts to Rs. 48,88,351 of which Rs. 48,88,080 represent the book value of securities and Rs. 271 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 1971 comes to Rs. 48,89,800. This together with the amount of interest accrued upto 31st March 1971 viz. Rs. 10,469 and cash with the State Bank of India viz. Rs. 271 brings the total amount of Sinking Fund to Rs. 49,00,540 against Rs. 47,54,872 the amount to which the Sinking Fund should have accumulated upto 31st March 1971. The excess in Sinking Fund investment account is thus Rs. 1,45,668.

**SLUM CLEARANCE
Capital Account
(Suburbs Section)**

(3) The Opening Balance on 1st April 1970 was Rs. 23,43,685. In addition to this the sales proceeds of lands and buildings amounted to Rs. 10,08,868. The total funds available for expenditure were Rs. 33,52,553. The total expenditure amounted to Rs. 1,54,597 and deficit in the General Account amounting to Rs. 11,78,486 is transferred to Capital Account. The unspent balance at the close of the year stood at Rs. 20,19,470.

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

Amount of Fund on 1st April 1970.	Interest etc. realisation	Sinking Fund instalment.	Withdrawn for payment.	Amount of Fund on 31st March 1971.
Rs.	Rs.	Rs.	Rs.	Rs.
16,83,298	94,251	4,08,858	...	21,86,407

The Sinking Fund as on 31st March 1971 amounts to Rs. 21,86,407 of which Rs. 21,86,270 represent the Book Value of the securities and Rs. 137 in cash with the State Bank of India. Valuing the Bombay Municipal Debentures at par, the market value of the Sinking Fund Investment held on 31st March 1971 comes to Rs. 21,86,300. This together with the amount of interest accrued upto 31st March 1971 viz. Rs. 798 and cash with the State Bank of India viz. Rs. 137 brings the total amount of the Sinking Fund to Rs. 21,87,235 against Rs. 21,09,456 the amount to which the Sinking Fund should have accumulated upto 31st March 1971. The excess in the Sinking Fund Investment account is thus Rs. 77,779.

EDUCATION FUND

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

	1970-71			Actuals for 1969-70
	Budget Estimates	Revised Estimates	Actuals	
	Rs.	Rs.	Rs.	Rs.
Opening ...	51,64,000	87,77,405	87,77,405	71,12,533
Income ...	9,28,42,800	9,04,37,870	8,93,04,923	8,35,22,534
Expenditure ...	9,17,59,790	9,33,29,815	8,81,94,656	8,19,56,352
	+10,83,010	-28,91,945	+11,10,267	+15,66,182
Balance ...	+62,47,010	+58,85,460	+98,87,672	+86,78,715
Deduct Reservation for Advances, etc., shown below :—	...	-2,90,000	+20,16,351	-98,690
	62,47,010	61,75,460	78,71,321	87,77,405

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

	Rs.
Increase in Miscellaneous Advances	2,42,945
Add: Increase in Renewed Grants	17,73,406
Net Increase	20,16,351

(iii) The net unhyponthecated Surplus Cash Balance on 31st March 1971 was as under :-

Liability		Assets	
	Rs.		Rs.
Miscellaneous Advances ...	15,09,175	Surplus Revenue Fund as per Appendix No. 31.	93,80,496
Minimum required by law ...	20,000		
Surplus Cash Balance ...	78,51,321		
	<u>93,80,496</u>		<u>93,80,496</u>

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

Outstanding Debt on 1st April 1970.	Loans raised during the year.	Repayment during the year.	Outstanding debt on 31st March 1971
Rs.	Rs.	Rs.	Rs.
7,68,93,500	33,00,000	30,43,500	7,71,50,000

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

Amount of on 1st April 1970	Intrest etc. realised	Sinking Fund instalments.	Total	Withdrawn for payment of Loans	Amount of Fund on 31st March 1971
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
3,34,54,277	17,65,759	48,11,391	4,00,31,427	30,43,500	3,69,87,927

The value of Securities held in Sinking Fund Account on the basis of market rates prevailing on 31st March 1971 including accrued interest and Cash exceeded the actuarial amount of the Sinking Fund by Rs. 27,10,649 which is held in the Sinking Fund Account.

Income

(vi) The estimated income for the year was Rs. 9,28,42,800 and the Revised Estimates was Rs. 9,04,37,870. The Actuals amounted to Rs. 8,93,04,923 resulting in decrease of Rs. 35,37,877 on the Budget Estimates and decrease of Rs. 11,32,947 on 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 is 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 is less than Rs. 300 per annum but not less than Rs. 75 per annum.

Expenditure

(vii) The final sanctioned Grant amounted in the aggregate to Rs. 9,74,22,161 as follows :-

	Rs.
Budget Grants ...	9,17,59,790
Unexpended Grants for previous years renewed for expenditure ...	26,89,877
Additional Grants ...	29,72,494
Final sanctioned Grant ...	<u>9,74,22,161</u>

The transfers from one Budget to another without affecting the total Budget provision of the year amounted to Rs. 41,800.

(viii) Against the Final Grant of the year aggregating to Rs. 9,74,22,161 as stated above, the actuals amounted to Rs. 8,81,94,656 leaving an unexpended balance of Rs. 92,27,505 at the close of the year, of this a sum of Rs. 53,02,453 is being renewed for expenditure during 1971-72 against Rs. 35,29,047 in 1970-71 balance viz. Rs. 39,25,052 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 1970-71 as compared with the previous year's percentage is given below:—

		Percentage to the total expenditure during	
		1970-71	1969-70
(1) Establishment	...	72.60	72.08
(2) Labour	...	7.88	8.13

Loan Funds

(x) The Opening Balance on 1st April 1970 on account of Loan Funds excluding the Trust Funds was Rs. 8,96,842. The amount of new loan proposed in the Budget for 1970-71 was Rs. 50 lacs. A loan of Rs. 33 lacs was raised during the year. The total Loan Fund available for expenditure during the year thus amounted to Rs. 41,96,842.

The expenditure incurred on Loan Works during the year amounted to Rs. 25,32,527. The closing balance at the end of the year was Rs. 16,64,315.

(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.		
1968-69	1,87,56,000	1,46,86,500	96,10,376	51	65
1969-70	60,44,000	97,94,500	59,40,372	98	61
1970-71	1,26,78,674	63,49,300	25,32,527	20	40

The percentage of a actual expenditure to the funds available works out to 60.

(xii) The book value of investments of Sinking Fund as on 31st March 1971 amounted to Rs. 3,69,87,927 made up of Rs. 3,69,87,730 in Securities and Rs. 197 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 1971 comes to Rs. 3,66,95,165. This together with the amount of interest accrued upto 31st March, 1971 viz., Rs. 5,43,275 and cash with the State Bank of India of Rs. 197 brings the total amount of Sinking Fund to Rs. 3,72,38,637 and more than covers the amount of Rs. 3,45,27,988 to which the sinking fund should have accumulated upto 31st March 1971. The excess in Sinking Fund Accounts was Rs. 27,10,649.

(xiii) The total amount invested during the year in call and Fixed Deposit was Rs. 2,24,00,000 and the average rate of interest on all Deposits was Rs. 4.85 per cent. as against Rs. 4.30 per cent. in the preceding year. The interest earned during the year amounted to Rs. 5,21,019 against Rs. 2,74,497 for 1969-70.

V. C. PARIKH
Chief Accountant.

APPENDICES

MUNICIPAL ACCOUNT

- No. 1.—General Financial Statistics.
- No. 2.—Statement of Surplus Revenue Fund for 1970-71.
- * No. 3.—Statements showing the Income realised during 1970-71 as compared with estimates for the year as also with the actual for the preceding year.
- * No. 4.—Statements showing the expenditure during 1970-71 as compared with the final sanctioned grants.
- No. 5.—Balance Sheet (Revenue) as at 31st March 1971. City, Suburbs & Extended Suburbs.
- * No. 6.—Statement of Special Funds for 1970-71.
- No. 7.—Balance Sheet (Capital Funds) as at 31st March 1971. City, Suburbs & Extended Suburbs.
- No. 8.—Block Account, Summary, (excluding details). City, Suburbs and Extended Suburbs.
- * No. 9.—Statements 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 1971.
- * No. 10.—Statement showing the actual investment on account of the Sinking Fund of different Municipal Loans upto 31st March 1971 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 1971.
- No. 11.—Statement showing outstanding loans due by the Municipality, the interest outstanding on 1st April 1970 on the different loans, the amount payable for the year 1970-71, the amount paid by the State Bank of India and in office during that year and the balances outstanding on 31st March 1971. 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 1970-71.
- * No. 14.—Municipal Printing Press, Income and Expenditure for the year 1970-71.
- * No. 14A.—Statement of Advance of Accounts for 1970-71.
- * No. 14B.—Statement of Advance Accounts out of Special Funds for 1970-71.
- * No. 14C.—Statement of Deposit Accounts for 1970-71.
- * No. 14D.—Statement of Reserve Stores Stock Accounts for 1970-71.
- * No. 14E.—Statement of interest accrued but not paid in respect of the Municipal loans outstanding on 31st March 1971.
- * 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 1970-71 and the balance at the credit of the fund at the close of the year 1970-71 (i.e., 31st March 1971). City, Suburbs & Extended Suburbs.
- * No. 16.—Comparison of Face, Purchase and Market values at 31st March 1971 of the different securities held in the Special Funds
- * No. 16A.—Comparison of Face, Purchase and Market values at 31st March 1971 of the different securities held in the Sinking Funds.
- * No. 16B.—Statements 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 1971.
- * No. 16C.—Statements showing the amount of and the object for which the endowments held under Endowments Fund were received from different parties upto 31st March 1971.
- * No. 17.—Since deleted.
- * No. 18.—Statement of the Income of the Bombay Municipality from 1960-61 to the close of the financial year 1970-71.
- * No. 19.—Statement of the Expenditure of the Bombay Municipality from 1960-61 to the close of the financial year 1970-71.
- * No. 20.—Contrasted statement of Income and Expenditure from the year 1960-61 to the financial year 1970-71.

IMPROVEMENT SCHEMES ACCOUNT

- * No. 21.—General Financial Statistics.
- No. 22.—General Account for the year 1970-71.
- No. 22A.—Slum Clearance Account City (General Account).
- No. 22B.—Slum Clearance Account Suburban (General Account).
- * No. 23.—General Account for 1970-71—Details of Income.
- * No. 23A.—General Account Slum Clearance (City) for 1970-71 details of Income.
- * No. 23B.—General Account Slum Clearance (Sub.) for 1970-71 details of Income.
- * No. 24.—General Account for 1970-71—Details of Expenditure.
- * No. 24A.—General Account Slum Clearance (City) for 1970-71 details of Expenditure.
- * No. 24B.—General Account Slum Clearance (City) for 1970-71 details of Expenditure.
- No. 25.—Balance sheet (Capital Funds) as at 31st March 1971
- No. 25A.—Balance sheet Slum Clearance City.
- No. 25B.—Balance sheet Slum Clearance Suburbs.
- No. 26.—Block Account showing Capital Expenditure upto 31st March 1971.
- No. 26A.—Block Account showing Capital Expenditure upto 31st March 1971—for Slum Clearance City.
- No. 26B.—Block Account showing Capital Expenditure upto 31st March 1971 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 1971
- * No. 28A.—Statement showing actual investments on account of Sinking Fund for Slum Clearance upto 31st March 1971 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 1971.
- * No. 28-B.—Slum Clearance (Suburb) Sinking funds as on 31-3-1971.
- No. 29.—Statement showing outstanding loans of the Bombay Improvement Trust due by the Municipality, the interest outstanding on 1st April 1970 on the different loans, the amount payable for the year 1970-71, the amount paid during the year and the balances outstanding on 31st March 1971.
- 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 1971 of the different securities held in the Sinking Fund.
- * No. 30A.—Comparison of Face, Purchase and Market values at 31st March 1971 of the different securities held in the Slum Clearance.
- No. 30B.—Comparison of Face, Purchase and Market values as on 31st March 1971 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 1971
- * No. 32.—Statement showing Net Receipts during the year 1970-71 from all sources as contrasted with the original and Revised Budget Estimates.
- * No. 33.—Statement showing actual Expenditure as compared with the final sanctioned grants for 1970-71.
- No. 34.—Revenue Account Balance Sheet as at 31st March 1971.
- No. 35.—Capital Fund Balance Sheet as at 31st March 1971.
- * No. 36.—Block Account showing details of Capital Expenditure upto 31st March 1971.
- No. 37.—Statement showing outstanding loan due by the Municipality, the interest outstanding on 1st April 1965 on different loans, the amount payable for the year 1970-71 the amount paid by the State Bank of India and in office during that year and the balances outstanding on 31st March 1971.
- * No. 38.—Statement showing the actual investment on account of the sinking Fund of different Education Loans upto 31st March 1971 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 1971.
- * No. 39.—Statement of Advances for 1970-71.
- * No. 39A.—Statement of Deposit Accounts for 1970-71.
- * No. 39B.—Statement of interest accrued but not paid in respect of the Municipal loans outstanding on 31st March 1971.
- No. 40.—Statement showing the amounts of receipts and Expenditure respectively credited and debited on the Education Fund during the year 1970-71 and the balance at the credit of the fund at the close of the year 1970-71. (i.e. 31st March 1971).
- * No. 41.—Comparison of Face, Purchase and Market value at 31st March 1971 of the different securities held in the Sinking Fund.
- * No. 41.A.—Statements showing the amount of and object for which the endowments held under the Endowment Fund were received from different parties upto 31st March 1971.

* These Appendices will be found in the Departmental copies of Annual Accounts for the year 1970-71.

APPENDIX No. 1.
General Financial Statistics.

—	1966-67.	1967-68.	1968-69.	1969-70.	1970-71.
<i>General</i>					
1. Area of the Greater Bombay (acres) ...	1,08,787	1,08,787	1,08,787	444.17 sq. Km.	4,35,074 sq. Km.
2. Population ...	41,52,056	41,52,056	41,52,056	† 41,52,056	* 59,68,546
<i>Rates and Assessments.</i>					
3. Rateable value.] Rs.	58,80,67,789	63,50,99,063	67,99,12,798	69,60,36,203	78,96,00,898
4. Rateable value per head of population.	Rs. 141-63	Rs. 152-96	Rs. 163-75	Rs. 167-54	Rs. 132-29
5. Properties registered in the Assessment Book	1,78,993	1,86,378	1,92,381	1,99,859	2,06,016
<i>Income.</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
	at 24 per cent.	to 24 per cent.	at 24 per cent.	at 24 per cent.	at 24 per cent.
6. General Tax ...	11,79,91,593	12,60,48,283	14,89,18,415	15,12,67,406	16,34,34,990
7. Income from other sources ...	25,40,72,497	25,26,31,321	26,71,03,095	30,86,10,177	35,70,14,534
Total Income Rs. ...	37,20,64,090	37,86,79,604	41,60,18,510	45,98,77,583	52,04,49,524
8. Incidence of Taxation per head	Rs. 78.03	Rs. 79.10	Rs. 82.13	Rs. 97.20	Rs. 77.73
<i>Loans.</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
9. Debt outstanding ...	77,24,66,723	87,55,20,530	98,15,62,931	1,09,51,88,864	1,14,34,04,554
10. Redemption and Sinking Funds in hand or invested ...	22,85,97,049	23,52,45,783	26,28,50,142	29,10,12,182	31,67,64,227
11. Net Loan Debt ...	54,38,69,679	64,02,74,747	71,87,12,839	80,41,76,682	82,66,40,327
12. Net Debt per head of population ...	Rs. 130.99	Rs. 154.21	Rs. 173.10	Rs. 193.68	Rs. 138.50
<i>Expenditure</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
13. <i>Water Works—</i>					
Maintenance ...	2,63,52,239	3,16,90,158	3,13,69,598	3,95,15,106	3,92,21,606
Debt Charges ...	3,69,57,715	3,41,44,138	4,70,11,902	5,40,37,968	6,32,33,054
14. Primary Education ...	4,60,40,770	5,90,03,780	5,99,73,600	6,04,45,050	6,66,05,669
15. Medical Relief ...	4,11,36,568	5,06,66,261	5,19,71,588	6,34,61,300	8,00,13,329
16. Other City services ...	14,65,74,688	16,50,98,200	16,80,71,010	20,12,58,538	22,32,56,107
17. Debt Charges—excluding Water Works ...	3,06,14,605	4,07,10,180	3,96,09,521	4,37,80,895	5,34,45,485
Total Expenditure Rs. ...	32,76,76,585	38,13,12,717	39,80,07,224	46,24,98,857	52,57,76,250

† As per census 1961.

* As per census 1971.

APPENDIX No. 2.

Revenue Account for the year ended 31st March 1971

Particulars	Total	Particulars.	Total.
	Rs. P.		Rs. P.
To Revenue Expenditure	52,57,76,250.04	By Revenue Receipts ...	52,04,49,523.99
		By Balance being deficit for the year ...	53,26,726.05
	52,57,76,250.04		52,57,76,250.04
To Contribution towards Improvement Schemes ... during 1971-72.	Rs. P. 2,17,82,100.00	By Surplus Revenue Fund as at 1st April 1970 ...	Rs. P. 12,27,16,667.48
To Revenue Expenditure to be incurred in 1971-72 and provided for as renewed grants ...	4,09,84,411.00	By Deficit for the year ...	53,26,726.05
	6,27,66,511.00	By Contribution towards Improvement Schemes during 1970-71 ...	1,98,97,870.00
To Balance being Surplus Revenue Fund as at 31st March 1971 as per Appendix No. 5 of Division I, II, III (combined).	12,07,87,381.43	By Revenue of previous years reserved for the year 1970-71	4,62,66,081.00
	18,35,53,892.43		6,61,63,951.00
			18,35,53,892.43

Appendix No. 5

(Consolidated)

Revenue Account, Balance Sheet as at 31-3-1971

LIABILITIES	Rs.		Rs.		ASSETS	Rs.		Rs.	
	P.	P.	P.	P.		P.	P.	P.	P.
Outstanding liabilities					Municipal Loans-Interest Warrant payable Account				
Cash Bill outstanding					Budget 'A' Div. I ..	1,46,936.09			
Budget 'A' Div. I ..	3,49,164.57				" II ..	1,64,253.25			
" II ..	93,108.15				" III ..	5,923.00			3,17,112.34
" III ..	43,923.42		4,86,196.14						
Cheques payable A/c.					B.I.T. Loans Interest Warrant payable Account				6,508.89
Budget 'A' Div. I ..	86,94,487.62				Interest on B.I.T. Loans payable Account				4,698.96
" II ..	18,99,534.94				Current Account with State Bank of India for payment of Interest on Suburban Loans				
" III ..	12,68,397.97		1,18,62,420.53		Budget 'A' Div. II ..	66,262.13			
Stores purchase outstanding A/c.					" III ..	54,202.11			1,20,464.24
Stock Adjustment A/c. ..			14,83,808.41		With State Bank of India for re-payment payable A/c.				20,500.00
Outstanding charges for 1970-71 and previous years			1,05,135.39		Contribution Receivable from Budget 'E'				17,66,468.00
Budget 'A' Div. I ..	2,79,84,411.00				Interest Receivable Account				25,96,240.00
" II ..	90,00,000.00				Due for Stores Sold				26,63,162.64
" III ..	40,00,000.00		4,09,84,411.00		Advances Recoverable Account				
Outstanding charges in respect of interest Accrued but not paid					Budget 'A' Div. I ..	4,24,77,237.50			
Budget 'A' Div. I ..	1,16,33,699.98				" II ..	34,32,907.97			
" II ..	19,94,745.78				" III ..	13,52,566.30			4,72,62,711.77
" III ..	7,80,009.73		1,44,08,455.49		Capital Stores purchase A/c.				12,50,412.73
Contribution to Budget 'B' 1971-72.					Reserve Stores purchase A/c. ..				81,147.53
Budget 'A' Div. I ..	1,38,12,200.00				Deposit in Securities from public with State Bank of India				
" II ..	58,50,100.00				Budget 'A' Div. I ..	59,57,355.00			
" III ..	21,19,800.00		2,17,82,100.00		" II ..	11,08,095.12			
Deposit in Cash and Public Securities from contractors and Private Parties					" III ..	2,42,650.00			73,08,100.12
Budget 'A' Div. I ..	13,10,75,197.88				In Office.				
" II ..	4,10,04,769.64				Budget, A' Div. I ..	3,69,100.00			
" III ..	2,49,93,126.08		19,70,73,093.60		" II ..	56,400.00			
					" III ..	4,19,150.00			8,44,650.00
					Investment in Securities fixed Deposit Call & current A/c. ..				22,39,05,430.20
					Investment of Surplus Monies in Public Securities				38,013.14
Total outstanding Liabilities ..			28,81,85,620.56		Total assets against outstanding liabilities				28,81,85,620.56
Total C. F. ..			23,81,85,620.56		Total C. F. ..				23,81,85,620.56

Appendix No. 5—Contd.

(Consolidated)

LIABILITIES				ASSETS			
	Rs.	P.	Rs.	P.		Rs.	P.
Total B'O			28,81,85,620.56		Total B.O...		28,81,85,620.56
Special Fund Account.					Investment of Special Fund in advance for purchase of Plant and Machinery.		
Municipal Fire and Accident Insurance Fund A/c.			28,20,840.23		Advance from Plan & Machinery Depreciation Fund for levelling and Mat ling etc.		8,92,938.58
Net Premia Fund Account			45,70,666.07		Advance from Net Premia Fund for purchase of Plant and Machinery to Municipal Printing Press		13,864.73
Provident Fund Account			21,84,10,451.12		Municipal Fire & Accident Insurance Fund		9,95,650.12
Plant and Machinery Depreciation Fund Account			33,05,980.17		Plant and Machinery depreciation Fund		18,30,040.71
Hospital Fund Account					Net Premia Fund		15,66,598.70
Budget 'A' Div. I ..	20,16,328.82				K. E. M. Hospital G. S. M. College Research Fund		6,000.83
" II ..	1,41,691.87				Hospital Fund		6,63,821.09
" III ..	94,500.00				Land R. A. Fund		45,58,429.84
			22,52,520.69		G. S. M. College K. E. M. Hospital Equipment Fund		48,050.06
K. E. M. Hospital G. S. M. College Equipment Fund A/c			1,80,971.04		Motor Vehicles (Third party) Ins. Fund.		2,96,677.22
G. S. M. College K. E. M. Hospital Research Fund A/c			1,23,806.69				
Fidelity Guarantee Insurance Fund A/c.			4,50,324.77		Investment of Special Fund in Securities.		
Motor Vehicles (Third party) Insurance Fund A/c.			15,44,096.14		Provident Fund		21,84,10,447.31
Land R. A. Fund Account			90,05,196.64		Fidelity Guarantee Ins. Fund		4,50,300.00
Pension Fund Account			9,58,97,081.99		Motor Vehicles (Third party) Ins. Fund		11,61,300.00
Gratuity Fund Account			97,39,155.68		Endowment Fund		13,26,246.49
Public Monument Maintenance Fund Account					Public Monument Maintenance Fund		
Budget 'A' Div. I ..	1,31,815.74				Budget 'A' Div. I ..	1,31,723.74	
" II ..	16,317.94				" II ..	16,300.00	
			1,48,133.68				1,48,023.74
Endowment Fund Account			13,26,337.92		Hospital Fund		
Water Main Depreciation Fund Account			90,533.06		Budget 'A' Div. II ..	1,41,600.00	
Secondary Schools Committee Gymnasium Fund A/c.			6,081.56		" III ..	94,500.00	
							2,36,100.00
Total Special Fund A/c.			34,98,73,177.45		Water Main Depreciation Fund		90,499.80
Surplus Revenue Fund A/c.					Secondary Schools Committee Gymnasium Fund		6,026.40
Budget 'A' Div. I ..	21,27,84,365.05				Investment of Special Funds in Fixed Deposit and Cash etc		
Deficit " " II ..	6,97,08,550.54				Municipal Fire and Accident Insurance Fund		18,25,180.11
Deficit " " III ..	2,22,88,433.08				Net Premia Fund		2,90,226.64
			12,07,87,381.43		Provident Fund		3.81
					Plant & Machinery Depreciation Fund		5,84,000.88
					Hospital Fund		
					Budget 'A' Div. I ..	13,52,507.73	
					" II ..	91.87	
							13,52,599.60
Total C.F. ..			75,88,46,179.44		Total Special Fund Ins. C.F. ..		23,95,53,012.66
					Total C.F. ..		28,81,85,620.56

Appendix No. 5—Contd.
(Consolidated)

LIABILITIES			ASSETS					
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
Total B.O....			75,88,46,179.44				28,85,85,621.56	
							23,95,53,012.66	
								1,32,920.98
								1,17,805.86
								24.77
								43,46,766.80
								86,118.92
								9,58,97,081.99
								97,39,155.68
								91.43
						92.00		
						17.94		
								109.94
								33.26
								55.16
								34,98,73,177.45
								60,00,000.00
								86,44,087.71
								3,21,333.57
								29,679.61
								93,180.93
								2,083.29
						23,51,189.96		
						25,141.82		
								23,76,331.78
						3,66,48,618.42		
						74,17,419.52		
						39,06,747.63		
								4,79,72,785.57
								1,01,09,653.23
						26,86,684.75		
						14,62,082.57		
						3,384.33		
								Cr.12,21,217.85
						1,63,99,943.39		
						51,45,304.24		
						10,93,375.49		
								2,26,33,623.12
								2,38,29,910.47
								12,07,87,381.43
Grand Total ...			75,88,46,179.44					75,88,46,179.44

APPENDIX No. 7.

(CITY)

Capital Fund Balance Sheet as at 31st March 1971

LIABILITIES.	Rs. P.		Rs. P.		ASSETS,	Rs. P.	
Loans Outstanding :-							
Due to Government (Vide details as shown in Appendix No. (11))	3,15,80,775.61	..			Block Account :-		
Due to Public— (Vide details as shown in Appendix No. (11))	83,40,58,500.00	..			Loan Funds—		
Advances from Special Funds— (Vide details as shown in Appendix No. (11))	1,00,65,278.53	...			Property and Assets at original cost per Appendix No. 8	Rs. 1,30,85,31,934.86	P. 86
				87,57,04,554.13	Deduct—Subventions granted for the conversions of privies into water closets, shown below	14,43,163.44	42
Trust Fund Account—			Rs. P.				
Donation from Mr. D. M. Bahadurji	3	69					
Donation from— The Trustees of the late Justice Badruddin Tyabji Memorial Fund for the construction of Orchard House at Victoria Garden	1,694	50			Add—Subventions granted for the conversion of privies into water closets Rs. 22,97,055.00		
Donation from— The Chairman of Trustees of the Lotus Trust for the construction of electric crematorium at Chandanwadi	71	62			Deduct—Expenditure written off	8,53,891.56	14,43,163.44
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					1,30,85,31,934.86
Donation from— The Trustees of Shri Anant Nathaji Maharaj Jain Temple towards the cost of construction of a new public convenience,	1	25			Trust Fund—		
Amount received from Government of Bombay for the work of construction of Sub-way near church Gate Station	00	38			Expenditure as per Appendix No. 8	79,94,103.95	95
Amount received from Central Government for Isolation Hospital	1,25,000	00			Worn out Water Mains Renewal Fund—		
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			Expenditure as per Appendix No. 8	9,64,525.91	91
Amount received from Gandhi Smarak Nidhi for erecting Gandhi Memorial Column	2,825	52		1,78,079.97			
Surplus —					Municipal Land and Buildings Fund—		
CAPITAL ASSETS AT ORIGINAL COST OVER LIABILITIES:—					Land purchased and Buildings erected as per Appendix No. 8	43,03,043.42	42
Sinking Fund on Loans	23,92,63,999.85				Temporary advance to Development Fund	31,77,390.37	37
Premia on Loans	3,20,848.74				Investments—		
Contributions from Special Funds	8,03,171.02				Sinking Fund—		
Do. Revenue for Loan Works Establishment	17,869.98				As per Appendix No. 10	(a) 23,92,63,999.85	85
Do. G. I. P. Railway	3,74,000.00				Loan and Trust Funds—		
Do. Port Trust	1,56,500.00				Amount reserved for capital stores	1,33,26,470.93	93
Do. Government for Schools	5,00,000.00				In fixed deposits	4,89,09,100.00	00
Do. Government for widening the Love Grove Bridge	91,234.00				In cash	96.95	95
Do. Worn-out Water Mains Renewal Fund	9,64,525.91						4,89,09,196.95
Do. Land and Buildings Fund	74,80,433.79						Z
Do. Development Fund	1,34,32,075.48						
Do. Revenue towards Bai Jerbai Wadia Hospital for Children	7,00,000.00						
Do. Trust Fund	79,94,163.95						
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. 51,22,74,765.52						
Less— Assets written off	Rs. 3,38,16,595.61						
	47,84,58,169.91			75,05,88,092.14			
Grand Total				1,62,64,70,726.24			1,62,64,70,726.24

APPENDIX No. 7

(Suburbs)

Capital Fund Balance Sheet as at 31st March 1971.

LIABILITIES.		ASSETS.		
	Rs.	P.	Rs.	P.
Loans Outstanding—			Block Account—	
Due to Government—	...			
Due to Public—	18,24,50,000.00		Loan funds—	
(Vide details as shown in Appendix No. 11). ...		18,24,50,000 00	Property and Assets at original cost as per Appendix No. 8	*22,67,27,663 43
Trust Fund Account—			Trust Fund—	
Donation for School Building at—			Expenditure as per Appendix No. 8	... 3,27,408 00
New Mandala ...	Rs. P.			
	11 75			
Extension to School at Madh ...	682 56			
		694 31		
Surplus—			Sinking Fund—	
Capital Assets at original cost over Liabilities—			As per Appendix No 10	... 5,99,22,907 63
Sinking Fund on Loans	5,99,22,907 63			
Loan Redemption Fund	3,83,66,983 48		Loan and Trust Funds	
Contribution from Trust Fund	4,25,215 69			
Contribution from Government	... 89,92,515 25			
Contribution from Budget A Div. I	... 3,00,000 00		In fixed deposits and Cash	**34,80,337 30
		10,80,07,622 05		
Grand Total ...		29,04,58,316 36	Grand Total ...	29,04,58,316 36

* Includes, an advance of Rs. 53,03,689.20 for purchase of plant and machinery.

** The amount represents the balance on a/c of Trust Fund and Loan Fund out of which Trust Fund Balance is Rs. 98,502.

Div. II

APPENDIX No. 7.

EXTENDED SUBURBS

Capital Fund Balance Sheet as at 31st March 1971.

LIABILITIES.		Assets.	
	Rs.	P.	
Loans Outstanding—			Block Account—
Due to Government ...	...		Loan Funds—
Due to Public (Appendix No. 11) ...	8,52,50,000.00		Property and Assets at original cost ...
			Sinking Fund— ...
Surplus—			Loan Funds—
Capital Assets at original cost over Liabilities			In fixed, call deposits and cash ...
Sinking Fund on Loan (Appendix No. 10)	1,75,77,319.06		
Contribution from Government ...	35,00,000.00		
		2,10,77,319.06	
Total ...	10,63,27,319.06		Total ... 10,63,27,319.06

* Includes an advance of Rs. 3,55,421.79 given for purchase of Plant and Machinery.

APPENDIX No. 8.
(CITY)
SUMMARY

	Capital Expenditure upto 31st March 1970.	Expenditure During 1970-71.	Total Capital Expenditure upto 31st March 1971.
		Out of Loan Funds.	
	Rs.	Rs.	Rs.
(1) Loan Funds			
I.—General supervision, Collection of Revenue, etc. ...	1,78,29,181	5,34,990	1,83,64,171
II.—Water Works ...	72,35,95,264	4,91,31,274	77,27,26,538
III.—Education, Primary ...	27,98,012	...	27,98,012
IV.—Free Reading Rooms, libraries and Municipal High Schools	1,65,704	2,354	1,68,058
V.—Public Health Department ...	1,38,38,454	1,91,045	140,29,499
VI.—Medical Relief and Education.	6,90,59,825	19,25,097	7,09,84,922
VII.—Street, Cleansing and Conservancy Road Watering and Halalkhore Service ...	6,30,41,100	18,99,997	6,49,41,097
VIII.—Roads, Drains and Sewers ...	17,31,67,409	1,09,60,103	18,41,27,512
IX.—Mechanical ...	37,11,598	...	37,11,598
X.—Buildings, Land Acquisition and Management ...	8,21,18,838	25,46,988	8,46,65,826
XI.—Fire Brigade ...	30,80,695	Cr. 202	30,80,493
XIII.—Gardens and Open Spaces ...	1,15,34,927	1,12,378	1,16,47,305
XIV.—Markets and Slaughter Houses	3,93,15,723	66,84,281	4,60,00,004
XV.—Slum Service ...	48,42,258	1,52,413	49,94,671
XVI.—Measures for Civil Defence...	1,87,149	...	1,87,149
XVII.—Greater Bombay ...	2,81,068	...	2,81,068
XVIII.—Industrial Estates ...	90,18,235	50,721	90,68,956
Discount and other charges on Loans	66,33,952	...	66,33,952
Plant and Machinery ...	79,28,073	21,93,032	1,01,21,105
(1) Loan Funds—Total.	1,23,21,47,465	7,63,84,471	1,30,85,31,936
(2) Trust Fund			
Works executed ...	71,57,236	8,36,927	79,94,163
(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.	1,24,45,72,271	7,72,21,398	1,32,17,93,669

APPENDIX No. 8

(Suburbs)

SUMMARY

	Total Capital expenditure upto 31st March 1970.	Expenditure during 1970-71.	Total Capital expenditure upto 31st March 1971.
	Rs.	Rs.	Rs.
(1) Loan Funds.			
I.—General Supervision, Collection of Revenue, etc. ...	18,00,693.20	6,21,798.72	24,22,491.92
II.—Water Works ...	3,43,93,739.73	24,46,244.26	3,68,39,983.99
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 ...	7,09,702.83	71,125.89	7,80,828.72
VI.—Medical Relief and Education ...	1,10,78,757.21	18,57,618.29	1,29,36,375.50
VII.—Street Cleansing and Conservancy, etc. ...	4,56,02,586.71	17,40,251.22	4,73,42,837.93
VIII.—Roads, S. W. Drains and Public Lighting ...	8,72,97,460.05	69,90,060.82	9,42,87,520.87
IX.—Mechanical ...	50,501.36	...	50,501.36
X.—Buildings, Land Acquisition and Management ...	1,35,42,913.97	Cr. 3,34,835.08	1,32,08,078.89
XI.—Fire Brigade ...	15,12,699.06	...	15,12,699.06
XIII.—Gardens and Open Spaces ...	22,17,922.27	1,12,123.15	23,30,045.42
XIV.—Markets and Slaughter House ...	25,25,822.02	3,13,667.87	28,39,489.89
XV.—Slum service and Village Amenities ...	38,87,373.51	16,347.44	39,03,720.95
XVI.—Industrial Estates ...	2,94,809.00	...	2,94,809.00
Suspense Account ...	20,58,463.66	Cr. 3,98,155.19	16,60,308.47
Plant and Machinery ...	56,21,663.52	Cr. 3,17,974.32	53,03,689.20
Discount and other charges on Loans ...	8,23,218.47	...	8,23,218.47
(1) Loan Funds—Total ...	21,36,09,390.36	1,31,18,273.07	22,67,27,663.43
(2) Trust Fund			
Works Executed ...	3,47,981.62	Cr. 20,573.62	3,27,408.00
Grand Total ...	21,39,57,371.98	1,30,97,699.45	22,70,55,071.43

APPENDIX No. 8
(EXTENDED SUBURBS)
SUMMARY

	Total Capital Expenditure upto 31st March 1970.		Expenditure during 1970-71		Total Capital Expenditure upto 31st March 1971	
	Rs	P.	Rs.	P.	Rs.	P.
Loan Funds.						
I.—General Supervision, Collection of Revenue, etc. ...	17,09,286.08		2,58,162.87		19,67,448.95	
II.—Water Works ...	1,63,33,299.88		6,86,704.22		1,70,20,004.10	
V.—Public Health Department ...	6,39,679.88		64,794.54		7,04,474.42	
VI.—Medical Relief and Education ...	51,98,670.72		1,57,468.70		53,56,139.42	
VII.—Street Cleansing and Conservancy Road Watering ...	1,21,36,528.31		22,30,672.12		1,43,67,200.43	
VIII.—Roads, S. W. Drains and Public Lighting ...	3,40,89,166.54		48,40,016.16		3,89,29,182.70	
IX.—Mechanical ...	17,075.00		...		17,075.00	
X.—Buildings, Land Acquisition and Management ...	23,04,611.45		Cr. 1,87,606.81		21,17,004.64	
XI.—Fire Brigade ...	1,16,170.18		...		1,16,170.18	
XIII.—Gardens and Open Spaces ...	8,81,847.93		..		8,81,847.93	
XIV.—Markets and Slaughter Houses ...	16,55,859.72		41,800.00		16,97,659.72	
XV.—Slum Service and Village Amenities ...	10,05,507.43		39,846.01		10,45,353.44	
Plant and Machinery ...	4,47,414.37		Cr. 91,992.58		3,55,421.79	
Discount and other charges on Loans ...	45,222.50		... ..		45,222.50	
Grand Total ...	7,65,80,339.99		80,39,865.23		8,46,20,205.22	

Statement showing Outstanding Loans due by the Municipal Corporation the interest outstanding on 1st State Bank of India, and in Office during that year

Serial No.	Particulars of Loans.	Rate of Interest per Annum	Balance due on 1st April 1970.		Amount raised in 1970-71.		Total.		Amount re-paid in 1970-71	
			Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Loans raised from Government.										
1	Rs. 100 Lakhs Loan (1953-54) ..	4½%	48,30,909.61		..		48,30,909.61		4,51,831.34	
2	Rs. 100 Lakhs Loan (1953-54) ..	4½%	48,30,909.61		..		48,30,909.61		4,51,831.34	
3	Rs. 100 Lakhs Loan (1954-55) ..	4½%	52,64,320.91		..		52,64,320.91		4,33,411.36	
4	Rs. 100 Lakhs Loan (1954-55) ..	4½%	52,64,320.91		..		52,64,320.91		4,33,411.36	
5	Rs. 100 Lakhs Loan (1955-56) ..	4½%	56,80,063.29		..		56,80,063.29		4,15,742.31	
6	Rs. 100 Lakhs Loan (1955-56) ..	4½%	56,80,063.29		..		56,80,063.29		4,15,742.31	
7	Rs. 50 Lakhs Loan (1955-56) ..	4½%	28,40,029.37		..		28,40,029.37		2,07,871.37	
Total Loans raised from Government ..			3,43,90,616.99		..		3,43,90,616.99		28,09,841.39	
Loans raised from Public										
1	The Tansa Water Works Loan (Rs. 147 Lakhs)	5 %	5,000.00 } 3,000.00 }		..		5,000.00 (a) 3,000.00		8,000.00	
2	Rs. 25 Lakhs Loan for Sewerage Water and other sanitary works due on 1-11-1939 ..	4 %	1,000.00		..		1,000.00 (a)		1,000.00	
3	Rs. 15 Lakhs Loan for Street Improvements	4 %	..		..		..		..
4	Rs. 30 Lakhs Loan for Acquisition of site for the construction of overbridge	4 %	26,000.00		..		26,000.00 (a)		26,000.00	
5	Rs. 70 Lakhs Loan for reduplication Tansa main and other Auxiliary Works ..	4 %	20,63,000.00		..		20,63,000.00 (a)		3,000.00	
6	Rs. 20 Lakhs Loan for Street Improvement ..	4 %	1,500.00		..		1,500.00 (a)		1,500.00	
7	Rs. 160 Lakhs Loan for the Improvement of the Water Supply in Bombay— (First Issue) ..	6 %	12,500.00		..		12,500.00		12,500.00	
8	(Second Issue) ..	6 %	30,000.00		..		30,000.00		30,000.00	
9	Rs. 37 Lakhs Loan (1929-30) ..	5 %	1,500.00		..		1,500.00		1,500.00	
10	Rs. 31.43 Lakhs Loan for repayment of Rs. 40 Lakhs Loan due on 19-12-1929 ..	5 %	..		..		..		..
11	Rs. 28 Lakhs Loan for repayment of Rs. 39,94,000 out of 6% Rs. 50 Lakhs Loan due on 1-8-1929 ..	5 %	..		..		..		..
12	Rs. 40 Lakhs Loan (1930-31) ..	6 %	18,000.00		..		18,000.00		18,000.00	
13	Rs. 75 Lakhs Loan (1947-48) ..	3½%	75,00,000.00		..		75,00,000.00		..	
14	Rs. 1.25 Crores Loan (1949-50) ..	3½%	88,14,500.00		..		88,14,500.00		..	
15	Rs. 2 Crores Loan (1950-51) ..	3½%	17,000.00		..		17,000.00		17,000.00	
16	Rs. 1,75,34,000 Loan (1951-52) ..	3½%	6,000.00		..		6,000.00		6,000.00	
17	Rs. 2,44,14,500 Loan (1952-53) ..	4 %	16,000.00		..		16,000.00		16,000.00	
18	Rs. 35 Lakhs Loan (1952-53) ..	4 %	1,000.00		..		1,000.00		1,000.00	
19	Rs. 110 Lakhs Loan (1953-54) ..	4 %	25,000.00		..		25,000.00		25,000.00	
20	Rs. 1,02,49,000 Loan (1954-55) ..	4 %	94,500.00		..		94,500.00		94,500.00	
21	Rs. 180 Lakhs Loan (1955-56) ..	4 %	29,500.00		..		29,500.00		29,500.00	
22	Rs. 1,15,50,000 Loan (1956-57) ..	4 %	60,000.00		..		60,000.00		60,000.00	
23	Rs. 1,14,10,500 Loan (1957-58) ..	4½%	2,46,000.00		..		2,46,000.00		2,46,000.00	
24	Rs. 250 Lakhs Loan (1958-59) ..	4½%	2,50,00,000.00		..		2,50,00,000.00		2,50,00,000.00	
25	Rs. 330 Lakhs Loan (1959-60) ..	4 %	3,30,00,000.00		..		3,30,00,000.00		..	
26	Rs. 1,37,50,000 Loan (1960-61) ..	4½%	1,37,50,000.00		..		1,37,50,000.00		..	
27	Rs. 55 Lakhs Loan (1961-62) ..	4½%	55,00,000.00		..		55,00,000.00		..	
28	Rs. 200 Lakhs Loan (1962-63) ..	4½%	2,00,00,000.00		..		2,00,00,000.00		..	
29	Rs. 165 Lakhs Loan (1963-64) ..	4½%	1,65,00,000.00		..		1,65,00,000.00		..	
30	Rs. 220 Lakhs Loan (1964-65) ..	5 %	2,20,00,000.00		..		2,20,00,000.00		..	
31	Rs. 250 Lakhs Loan (1965-66) ..	5½%	2,50,00,000.00		..		2,50,00,000.00		..	
32	Rs. 250 Lakhs Loan (1966-67) ..	5½%	2,50,00,000.00		..		2,50,00,000.00		..	
33	Rs. 400 Lakhs Loan (1967-68) ..	6 %	2,90,95,000.00		..		2,90,95,000.00		..	
34	Rs. 200 Lakhs Loan (1967-68) ..	7 %	2,00,00,000.00		..		2,00,00,000.00		..	
35	Rs. 400 Lakhs Loan (1968-69) ..	6 %	4,40,00,000.00		..		4,40,00,000.00		..	
36	Rs. 300 Lakhs Loan (1968-69) ..	7 %	3,00,00,000.00		..		3,00,00,000.00		..	
37	Rs. 550 Lakhs Loan (1969-70) ..	6 %	6,15,98,000.00		..		6,15,98,000.00		..	
38	Rs. 600 Lakhs Loan (1969-70) ..	7 %	6,00,00,000.00		..		6,00,00,000.00		..	
39	Rs. 100 Lakhs Loan (1970-71) ..	6 %	..		1,15,41,000.00		1,15,41,000.00		..	
Total Loans raised from Public ..			44,94,14,000.00		1,15,41,000.00		46,09,55,000.00		2,55,96,500.00	

No. 11 City
 April 1970 on the different Loans, the amount payable for the year 1970-71, the amount paid by the
 and the balances outstanding on 31st March 1971.

Balance due on 31st March 1971.		Interest outstanding on 1st April 1970		Interest payable in 1970-71.		Total interest due		Deduct—Interest paid by the State Bank of India and in Office.		Outstanding balance on 31st March 1971.	
8				10		11		12		13	
Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
43,79,078.27		..		2,05,313.66		2,05,313.66		2,05,313.66		..	
43,79,078.27		..		2,05,313.66		2,05,313.66		2,05,313.66		..	
48,30,909.55		..		2,23,733.64		2,23,733.64		2,23,733.64		..	
48,30,909.55		..		2,23,733.64		2,23,733.64		2,23,733.64		..	
52,64,320.98		..		2,41,402.69		2,41,402.69		2,41,402.69		..	
52,64,320.98		..		2,41,402.69		2,41,402.69		2,41,402.69		..	
26,32,158.00		..		1,20,701.25		1,20,701.25		1,20,701.25		..	
3,15,80,775.60		..		14,61,601.23		14,61,601.23		14,61,601.23		..	
..		2,665.06		..		2,665.06		2,665.06		..	
..		380.00		..		380.00		380.00		..	
..		132.00		..		132.00		132.00		..	
..		16,499.06		..		16,499.06		16,499.06		..	
20,60,000.00		5,992.89		82,402.00		88,394.69		80,820.00		7,572.89	2.00*
..		1,298.13		..		1,298.13		1,298.13		..	
..		4,435.56		..		4,435.56		4,435.56		..	
..		7,125.75		..		7,125.75		7,125.75		..	
..		675.75		..		675.75		675.75		..	
..		2,227.31		..		2,227.31		2,227.31		..	
..		378.50		..		378.50		378.50		..	
..		10,318.75		..		10,318.75		10,318.75		..	
75,00,000.00		13,103.81		2,43,757.00		2,56,860.81		2,53,319.79		3,533.88	7.14
88,14,500.00		30,020.85		2,86,472.00		3,16,492.85		2,79,356.63		37,134.92	1.30*
..		4,196.11		..		4,196.11		4,196.13		..	.02†
..		3,327.21		..		3,327.21		3,327.21		..	.10†
..		3,211.00		..		3,211.00		3,211.00		..	
..		457.00		..		457.00		457.00		..	
..		4,600.00		..		4,600.00		4,600.00		..	
..		14,460.00		..		14,460.00		14,460.00		..	
..		1,440.00		..		1,440.00		1,440.00		..	
..		8,308.00		..		8,308.00		8,308.00		..	
..		13,377.59		..		13,377.59		13,377.53		..	.06*
..		87,573.35		10,62,500.00		11,50,073.35		4,71,253.77		6,78,819.58*	
3,30,00,000.00		3,08,107.00		13,20,000.00		16,28,107.00		14,49,176.00		1,78,931.00	
1,37,50,000.00		106.25		5,84,379.00		5,84,485.25		5,84,374.98		106.25	4.02*
55,00,000.00		..		2,33,752.00		2,33,752.00		2,33,750.00		2.00*	
2,00,00,000.00		2,968.75		9,50,003.00		9,52,971.75		9,52,968.75		..	3.00*
1,65,00,000.00		2,434.43		7,83,754.00		7,86,188.43		7,83,749.93		2,434.40	4.10*
2,20,00,000.00		2,450.00		11,00,004.00		11,02,454.00		11,00,775.00		1,675.00	4.00*
2,50,00,000.00		4,010.75		14,37,505.00		14,41,515.75		14,41,369.25		141.50	5.00*
2,50,00,000.00		431.25		14,37,500.00		14,37,931.25		14,37,931.25		..	3,420.00
2,90,95,000.00		14,385.00		17,45,700.00		17,60,085.00		17,56,665.00		..	..
2,00,00,000.00		..		14,00,000.00		14,00,000.00		14,00,000.00		..	..
4,40,00,000.00		40,335.00		26,40,001.00		26,80,336.00		26,67,585.00		12,750.00	1.00*
3,00,00,000.00		..		21,00,006.00		21,00,006.00		21,00,000.00		..	6.00*
6,15,98,000.00		..		36,95,889.00		36,95,889.00		36,83,910.00		11,970.00	9.00*
6,00,00,000.00		..		32,04,127.00		32,04,127.00		42,00,000.00		..	..
1,15,41,000.00		..		30,75,004.00		30,75,004.00		..		20,79,131.00*	..
43,53,58,500.00		6,11,432.11		2,73,82,755.00		2,79,94,187.11		2,49,76,518.19		2,59,669.84	27,57,999.20 *
										‡ .12	

No.	Particulars of Loans and Advances	Rate of Interest per Annum	Balance due on 1st April 1970.	Amount raised in 1970-71.	Total.	Amount re-paid 1970-71.
1	2	3	4	5	6	7
			Rs. Ps.	Rs. Ps.	Rs. Ps.	Rs. Ps.
	Loans raised from Internal					
	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	..
32	Rs. 48 Lakhs Loan (1940-41) ..	3½%	48,00,000 00	..	48,00,000 00	48,00,000 00
4	Rs. 25 Lakhs Loan (1941-42) ..	3½%	25,00,000 00	..	25,00,000 00	..
5	Rs. 20 Lakhs Loan (1943-44) ..	3½%	20,00,000 00	..	20,00,000 00	..
6	Rs. 22 Lakhs Loan (1944-45) ..	3½%	22,00,000 00	..	22,00,000 00	..
7	Rs. 25 Lakhs Loan (1945-46) ..	3½%	25,00,000 00	..	25,00,000 00	..
8	Rs. 54 Lakhs Loan (1946-47) ..	3 %	54,00,000 00	..	54,00,000 00	..
9	Rs. 61 Lakhs Loan (1948-49) ..	3 %	61,00,000 00	..	61,00,000 00	..
10	Rs. 80 Lakhs Loan (1950-51) ..	3½%	80,00,000 00	..	80,00,000 00	..
11	Rs. 85 Lakhs Loan (1953-54) ..	4 %	85,00,000 00	..	85,00,000 00	..
12	Rs. 50 Lakhs Loan (1953-54) ..	4 %	50,00,000 00	..	50,00,000 00	..
13	Rs. 70 Lakhs Loan (1954-55) ..	4 %	70,00,000 00	..	70,00,000 00	..
14	Rs. 130 Lakhs Loan (1956-57) ..	4 %	1,30,00,000 00	..	1,30,00,000 00	..
15	Rs. 100 Lakhs Loan (1957-58) ..	4½%	1,00,00,000 00	..	1,00,00,000 00	..
16	Rs. 100 Lakhs Loan (1958-59) ..	4½%	1,00,00,000 00	..	1,00,00,000 00	..
17	Rs. 170 Lakhs Loan (1960-61) ..	4½%	1,70,00,000 00	..	1,70,00,000 00	..
18	Rs. 225 Lakhs Loan (1961-62) ..	4½%	2,25,00,000 00	..	2,25,00,000 00	..
19	Rs. 150 Lakhs Loan (1962-63) ..	4½%	1,50,00,000 00	..	1,50,00,000 00	..
20	Rs. 235 Lakhs Loan (1963-64) ..	4½%	2,35,00,000 00	..	2,35,00,000 00	..
21	Rs. 100 Lakhs Loan (1964-65) ..	4½%	1,00,00,000 00	..	1,00,00,000 00	..
22	Rs. 300 Lakhs Loan (1965-66) ..	6 %	3,00,00,000 00	..	3,00,00,000 00	..
23	Rs. 200 Lakhs Loan (1965-66) ..	6 %	2,00,00,000 00	..	2,00,00,000 00	..
24	Rs. 400 Lakhs Loan (1966-67) ..	6 %	4,00,00,000 00	..	4,00,00,000 00	..
25	Rs. 250 Lakhs Loan (1966-67) ..	6 %	2,50,00,000 00	..	2,50,00,000 00	..
26	Rs. 800 Lakhs Loan (1967-68) ..	6 %	8,00,00,000 00	..	8,00,00,000 00	..
	Rs. 325 Lakhs Loan (1968-69) ..	6 %	3,25,00,000 00	..	3,25,00,000 00	..
	Total Loans raised from Internal ..		40,35,00,000 00	..	40,35,00,000 00	48,00,000 00
	Total Loans raised from Public ..		44,94,14,000 00	1,15,41,000 00	46,09,55,000 00	2,55,96,500 00
	Total from Public and Internal ..		85,29,14,000 00	1,15,41,000 00	86,44,55,000 00	3,03,96,500 00
	Advances from different Funds for purchase of Plant and Machinery					
1	Advance of Rs. 4,92,637.03 from Net Premia Fund 1965-66 ..	6 per cent	1,10,331 56		1,10,331 56	1,10,331 56
2	Advance of Rs. 4,35,022.08 from Municipal Fire and Accident Insurance Fund 1965-66 ..	6 per cent	97,425 63		97,425 63	97,425 63
3	Advance of Rs. 82,225.89 from Hospital Fund 1965-66 ..	6 per cent.	18,415 79		18,415 79	18,415 79
4	Advance of Rs. 1,22,934.01 from Plant and Machinery Depreciation Fund 1965-66 ..	6 per cent	27,532 56		27,532 56	27,532 56
5	Advance of Rs. 10,50,040.57 from Land (R and A) Fund 1965-66 ..	6 per cent.	2,35,165 24		2,35,165 24	2,35,165 24
6	Advance of Rs. 1,52,26.92 from K. E. M. Hospital and G. S. M. College Equipment Fund 1965-66 ..	6 per cent.	3,409 39		3,409 39	3,409 39
7	Advances of Rs. 1,86,654.42 from Net Prem Fund 1966-67 ..	6 per cent.	81,239 91		81,239 91	39,436 61
8	Advances of Rs. 5,37,235.27 from Municipal Fire & Accident Insurance Fund 1966-67 ..	6 per cent.	2,33,825 83		2,33,825 83	1,13,508 45
9	Advances of Rs. 2,18,512.09 from Hospital Fund 1966-67 ..	6 per cent.	95,105 34		95,105 34	46,167 68
10	Advances of Rs. 2,93,060.15 from Plant and Machinery Depreciation Fund 1966-67 ..	6 per cent.	1,27,553 10		1,27,553 10	61,917 81
11	Advance of Rs. 8,16,793.40 from Land (R. & A.) Fund 1966-67 ..	6 per cent.	3,55,501 23		3,55,501 23	1,72,573 93
12	Advance of Rs. 300.84 from K.E.M. Hospital and G.S.M. College Equipment Fund 1966-67 ..	6 per cent.	132 27		132 27	63 06
13	Advance of Rs. 9,516.13 from K.E.M. Hospital and G.S.M. College Research Fund 1966-67 ..	6 per cent.	4,142 12		4,142 12	2, 10 47
	Total (Pl. & Mach.) ..		13,89,779 97		13,89,779 97	9,27,958 18

No. 11 City—(Contd.)

Balance due on 31st March 1971.		Interest outstanding on 1st April 1970.		Interest payable in 1970-71.		Total Interest due.		Deduct-Interest paid by the State Bank of India and in Office.		Out standing Balance on 31st March 1971.	
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	..	..
..	..	..	..	1,68,000	00	1,68,000	00	1,54,000	00	14,000	00*
25,00,000	00	..	..	87,500	00	87,500	00	87,500	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	..	..	19,50,008	00	19,50,008	00	19,50,000	00	8	00*
99,87,00,000	00	..	..	2,09,30,042	00	2,09,30,042	00	2,09,16,000	00	14,042	00*
43,53,58,500	00	6,11,432	11	2,73,82,755	00	2,79,94,187	11	2,49,76,518	19	2,59,669	84
										27,57,999	20*
										†	12
83,40,58,500	00	6,11,432	11	4,83,12,797	00	4,89,24,229	11	4,58,92,518	19	2,59,669	84**
										27,72,041	20*
										†	12
...	...	...	...	6,619	89	6,619	89	6,619	89	...	...
...	...	...	...	5,845	54	5,845	54	5,845	54	...	...
...	...	...	...	1,104	95	1,104	95	1,104	95	...	...
...	...	...	...	1,651	95	1,651	95	1,651	95	...	...
...	...	...	...	14,109	91	14,109	91	14,109	91	...	...
...	...	...	...	204	56	204	56	204	56	...	...
41,803	30	...	...	4,874	39	4,874	39	4,874	39	...	...
1,20,317	38	...	...	14,029	55	14,029	55	14,029	55	...	...
48,937	66	...	...	5,706	32	5,706	32	5,706	32	...	...
65,635	29	...	...	7,653	19	7,653	19	7,653	19	...	...
1,82,927	30	...	...	21,330	07	21,330	07	21,330	07	...	...
69	21	...	...	7	94	7	94	7	94	...	...
2,131	65	...	...	248	53	248	53	248	53	...	...
4,61,821	79	...	...	83,386	79	83,386	79	83,386	79	...	...

* This is the total figure of Renewed grants under Stt. A 'A' and 'B' 'C'.

** This is the total figure of outstanding Balance required for renewal under Stt. 'A' 'A1' & 'B' 'B' 'C' during the year 1971-72

* To be treated as Saving.

No.	Particulars of Loans	Rate of Interest per Annum.	Balance due on 1st April 1970		Amount raised in 1970-71		Total		Amount repaid in 1970-71	
			Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
	Advances brought forward ...		13,89,779	97	...		13,89,779	97	9,27,958	18
14	Advance of Rs. 5,01,261.99 from Net Premia Fund 1967-68 ...	6 per cent.	3,18,082	09	...		3,18,082	09	99,913	07
15	Advance of Rs. 2,66,800.57 from Municipal Fire & Accident Insurance Fund 1966-67 ...	6 per cent.	1,69,302	89	...		1,69,302	89	53,178	83
16	Advance of Rs. 1,82,013.60 from Hospital Fund 1967-68 ...	6 per cent.	1,15,499	95	...		1,15,499	95	36,279	00
17	Advance of Rs. 6,13,315.55 from Plant and Machinery Depreciation Fund 1967-68 ...	6 per cent.	3,89,187	41	...		3,89,187	41	1,22,247	76
18	Advance of Rs. 23,941.80 from K.E.M. Hospital Equipment Fund 1967-68 ...	6 per cent.	15,191	97	...		15,191	97	4,772	48
19	Advance of Rs. 3,45,378.63 from Land Reclamation and Acquisition Fund 1967-68 ...	6 per cent.	2,19,163	91	...		2,19,163	91	68,842	17
20	Advance of Rs. 4,47,150.72 from Net Premia Fund 1968-69 ...	6 per cent.	3,67,827	76	...		3,67,827	76	84,082	33
21	Advance of Rs. 1,93,631.14 from Municipal Fire and Accident Insurance Fund 1968-69 ...	6 per cent.	1,59,282	01	...		1,59,282	01	36,410	08
22	Advance of Rs. 2,03,822.47 from Hospital Fund 1968-69 ...	6 per cent.	1,67,664	82	...		1,67,664	82	38,327	11
23	Advance of Rs. 4,73,033.90 from Plant and Machinery Depreciation Fund 1968-69 ...	6 per cent.	3,89,118	93	...		3,89,118	93	88,949	86
24	Advance of Rs. 29,21,176.56 from Land (R and A) Fund 1968-69 ...	6 per cent.	24,02,970	15	...		24,02,970	15	5,49,298	79
25	Advance of Rs. 33,775.00 from K. E. M. Hospital Equipment Fund 1968-69 ...	6 per cent.	27,783	50	...		27,783	50	6,350	99
26	Advance of Rs. 2,10,514.34 from Municipal Fire and Accident Insurance Fund ...	6 per cent.	2,10,514	34	...		2,10,514	34	37,344	14
27	Advance of Rs. 92,335.97 from Net Premia Fund ...	6 per cent.	92,335	97	...		92,335	97	16,379	84
28	Advance of Rs. 3,85,439.44 from Plant and Machinery depreciation Fund ...	6 per cent.	3,85,439	44	...		3,85,439	44	68,375	63
29	Advance of Rs. 2,72,831.42 from Hospital Fund ...	6 per cent.	2,72,831	42	...		2,72,831	42	48,399	11
30	Advance of Rs. 17,332.97 from K. E. H. S.M College, Equipment Fund ...	6 per cent.	17,332	97	...		17,332	97	3,075	02
31	Advance of Rs. 4,703 from G. S. M. E. K. M. Hospital Reserch Fund ...	6 per cent.	4,703	00	...		4,703	00	833	82
32	Advance of Rs. 3,97,578.39 from Land (R and A) Fund ...	6 per cent.	3,97,578	39	...		3,97,578	39	70,529	30
33	Advance of Rs. 3,60,655.87 from Motor Vehicles (Third pat) Insurance Fund ...	6 per cent.	3,60,655	87	...		3,60,655	87	63,978	65
34	Advance of Rs. 9,46,924.81 from Net Premia Fund ...	6 per cent.	..		9,46,924	81	9,46,924	81	..	
35	Advance of Rs. 4,63,176.54 from Municipal Fire and Accident Ins. Fund ...	6 per cent.	..		4,63,176	54	4,63,176	54	..	
36	Advance of Rs. 1,81,892.46 from Hospital Fund ...	6 per cent.	..		1,81,892	46	1,81,892	46	..	
37	Advance of Rs. 8,80,232.90 from Plants and Machinery Depreciation Fund ...	6 per cent.	..		8,80,232	90	8,80,232	90	..	
38	Advance of Rs. 1,870.90 from K. E. M. Hospital Equipment Fund ...	6 per cent.	..		1,870	90	1,870	90	..	
39	Advance of Rs. 21,44,460.32 from Land R. A. Fund ...	6 per cent.	..		21,44,460	32	21,44,460	32	..	
	Total Advance from Special Fund for purchase of Plants and Machinery ...		78,72,246	76	46,18,557	93	1,24,90,804	69	24,25,526	16
	Total Loan raised from Government ...		3,43,90,616	99	..		3,43,90,616	99	28,09,841	39
	Total Loans raised from Public and Internal ...		85,29,14,000	00	1,15,41,000	00	86,44,55,000	00	3,03,96,500	00
	Grand Total		89,51,76,863	75	1,61,59,557	93	91,13,36,421	68	3,56,31,867	55

No. 11 City—(Concl.)

Balance due on 31st March 1971		Interest outstanding on 1st April 1970		Interest payable in 1970-71		Total Interest due		Deduct-Interest paid by the State Bank of India and in Office		Outstanding Balance on 31st March 1971	
8		9		10		11		12		13	
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
4,61,821	79	...		83,386	77	83,386	79	83,386	79	...	
2,18,169	02	...		19,084	93	19,084	93	19,084	93	...	
1,16,124	06	...		10,158	17	10,158	17	10,158	17	...	
79,220	95	...		6,930	00	6,930	00	6,930	00	...	
2,66,939	65	...		23,351	24	23,351	24	23,351	24	...	
10,419	49	...		911	52	911	52	911	52	...	
1,50,321	74	...		13,149	83	13,149	83	13,149	83	...	
2,83,745	43	...		22,069	67	22,069	67	22,069	67	...	
1,22,871	93	...		95	56	95	56	95	56	...	
1,29,337	71	...		10,059	89	10,059	89	10,059	89	...	
3,00,169	07	...		23,347	14	23,347	14	23,347	14	...	
18,53,671	36	...		1,44,178	21	1,44,178	21	1,44,178	21	...	
21,432	51	...		1,667	01	1,667	01	1,667	01	...	
1,73,170	20	...		85,065	60	85,065	60	12,630	86	72,434	74
75,956	13	...		1,92,838	20	1,92,838	20	5,540	16	187,298	04
3,17,063	81	...		71,916	00	71,916	00	23,126	37	48,789	63
2,24,432	31	...		86,691	60	86,691	60	16,369	89	70,321	71
14,257	95	...		7,218	00	7,218	00	1,039	98	6,173	02
3,869	18	...		64,500	00	64,500	00	282	18	64,217	82
3,27,049	09	...		2,20,488	60	2,20,488	60	23,854	70	1,96,633	90
2,96,677	22	...		78,180	00	78,180	00	21,639	35	56,540	65
9,46,924	81	..		..		..		..		..
4,63,176	54	..		..		..		..		..
1,81,892	46	..		..		..		..		..
8,80,232	90	..		..		..		..		..
1,870	90	..		..		..		..		..
21,44,460	32	..		..		..		..		..
1,00,65,278	53	..		11,74,749	32	11,74,749	32	4,72,334	81	7,02,414	51*
3,15,80,775	60	..		14,61,601	23	14,61,601	23	14,61,601	23	..	
83,40,58,500	00	6,11,432	11	4,83,12,797	00	4,89,24,229	11	4,58,92,518	19	2,59,669	84
										27,72,041	20*
										†	12
87,57,04,554	13	6,11,432	11	5,09,49,147	55	5,15,60,579	66	4,78,26,454	23	2,59,669	84
										34,74,455	59*

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 1-4-1970.	Amount raised in 1970-71.	Total.
(1)	(2)	(3)	(4)	(5)	(6)
	Loans raised from the Public.	Rs.	Rs. P.	Rs. P.	Rs. P.
1	Loan for construction of quarters for Conservancy Staff (Bandra)	4 %	500 00	...	500 00@
2	Loan for repayment to Government of the cost of the Khar Water Supply Scheme (Bandra) ...	4 %	1,00,000 00	...	1,00,000 00@
3	Rs. 25 lakhs Bombay Municipal Suburbs Loan of 1952-53 for financing Capital Works such as Water Works, Roads, etc pertaining to Budget 'D'. ...	4 %	10,000 00	...	10,000 00
4	Rs. 50 Lakhs Bombay Municipal Suburbs Loan of 1955-56 for financing Capital Works Such as Water Works, Roads, etc., pertaining to Budget 'D' ...	4 %	10,500 00	...	10,500 00@
5	Rs 60 Lakh; Bombay Municipal Subs. Loan of 1958-59 for financing Capital expenditure such as Water Works Roads etc. Pertaining to Budget 'D' ...	4½%	60,00,000 00	...	60,00,000 00
6	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 %	1,25,00,000 00	...	1,25,00,000 00
7	Rs. 77 lakhs Bombay Municipal (Subs.) Loan of 1960-61. ...	4½%	77,00,000 00	...	77,00,000 00
8	Rs. 10 lakhs Bombay Municipal (Subs.) Internal Loan of 1960-61. ...	4½%	10,00,000 00	...	10,00,000 00
9	Rs. 50 lakhs Bombay Municipal (Subs.) Loan of 1961-62. ...	4½%	55,00,000 00	...	55,00,000 00
10	Rs. 50 lakhs Bombay Municipal (Subs.) Internal Loan of 1961-62. ...	4½%	50,00,000 00	...	50,00,000 00
11	Rs. 160 lakhs Bombay Municipal (Subs.) Loan of 1962-63. ...	4½%	1,60,00,000 00	...	1,60,00,000 00
12	Rs. 110 lakhs Do. ...	4½%	1,10,00,000 00	...	1,10,00,000 00
13	Rs 50 lakhs Bombay Municipal (Subs.) Internal Loan of 1963-64. ...	4½%	50,00,000 00	...	50,00,000 00
14	Rs. 75 lakhs Bombay Municipal (Subs.) Loan of 1964-65. ...	5%	75,00,000 00	...	75,00,000 00
15	Rs. 70 lakhs Bombay Municipal (Subs.) Internal Loan 1964-65. ...	4½%	70,00,000 00	...	70,00,000 00
16	R. 100 lakhs Bombay Municipal Budget A (Div. II) Loan 1965-66	5½%	1,00,00,000 00	...	1,00,00,000 00
17	Rs. 50 Lakhs Bombay Municipal Budget A (Div. II) Internal Loan 1965-66 ...	6 %	50,00,000 00	...	50,00,000 00
18	Rs. 75 lakhs B.M.C. Budget 'A' (Div. II) Loan 1966-67	5½%	75,00,000 00	...	75,00,000 00
19	Rs. 50 lakhs B.M.C. Budget 'A' (Div. II) Internal Loan 1966-67 ...	6%	50,00,000 00	...	50,00,000 00
20	Rs. 1 Crore Bombay Municipal Corporation Budget 'A' (Div. II) Loan 1967-68	6%	45,00,000 00	...	45,00,000 00
21	Rs. 50 Lakhs Bombay Municipal Corporation Budget 'A' (Div. II) Internal Loan 1967-68 ...	6%	50,00,000 00	...	50,00,000 00
22	Rs. 75 Lakhs Bombay Municipal Corporation Budget 'A', Div. II Loan 1968-69. ...	6%	82,50,000 00	...	82,50,000 00
23	Rs. 50 Lakhs Bombay Municipal Corporation Budget 'A' Div. II Internal Loan 1968-69. ...	6%	50,00,000 00	...	50,00,000 00
24	Rs. 100 Lakhs B.M.C. Budget 'A' Div. II loan 1969-70	6%	1,10,00,000 00	...	1,10,00,000 00
25	Rs. 220 Lakhs B. M. C. Loan 1970-71 1st issue ..	6%	..	2,42,00,000 00	2,42,00,000 00
26	Rs. 170 Lakhs B. M. C. Loan 1970-71 2nd issue ..	6%	..	1,87,00,000 00	1,87,00,000 00
	Total ...		14,55,71,000 00	4,29,00,000 00	18,84,71,000 00

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

Div. II

No. 11—Suburbs.

Outstanding on 1st April 1970 on the different Loans, the amount payable for the year 1970-71, the amount outstanding on 31st March 1971.

Amount repaid in 1970-71.		Balance due on 31-3-1971.		Interest outstanding on 1-4-1970.		Interest payable in 1970-71.		Total Interest due.		Deduct—Interest paid.		Outstanding Balance on 31-3-1971.	
(7)		(8)		(9)		(10)		(11)		(12)		(13)	
Rs.	Pes.	Rs.	Pes.	Rs.	Pes.	Rs.	Pes.	Rs.	Pes.	Rs.	Pes.	Rs.	Pes.
500	00	...		40	00	...		40	00	40	00	...	
...		1,00,000	00	10	00	4,000	00	4,010	00	3,980	00	30	00
10,000	00	...		3,000	00	...		3,000	00	3,000	00	...	
10,500	00	..		2,099	00	...		2,099	00	2,100	00	* 1	00
60,00,000	00	...		...		92,084	00	92,084	00	92,083	34	00	66
...		1,25,00,000	00	2,36,006	00	5,00,000	00	7,36,005	00	5,43,052	25	1,92,953	75
...		77,00,000	00	12,197	33	3,27,250	00	3,39,447	33	3,20,758	08	18,689	25
...		10,00,000	00	...		42,500	00	42,500	00	42,500	00	...	...
...		55,00,000	00	1,737	29	2,33,750	00	2,35,487	29	2,34,382	11	1,105	18
...		50,00,000	00	...		2,12,500	00	2,12,500	00	2,12,500	00	...	...
...		1,60,00,000	00	11,978	69	7,60,000	00	7,71,978	69	7,68,015	58	3,963	11
...		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	1,164	45	5,75,000	00	5,76,164	45	5,52,129	35	24,035	10
...		50,00,000	00	...		3,00,000	00	3,00,000	00	3,00,000	00	...	...
...		75,00,000	00	14,375	00	4,31,250	00	4,45,625	00	4,45,625	00	...	...
...		50,00,000	00	...		3,00,000	00	3,00,000	00	3,00,000	00	...	...
...		45,00,000	00	32,580	00	2,70,000	00	3,02,580	00	2,76,786	00	25,794	00
...		50,00,000	00	...		3,00,000	00	3,00,000	00	3,00,000	00	...	...
...		82,50,000	00	8,640	00	4,95,000	00	5,03,640	00	4,99,920	00	3,720	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	6,59,336	00	664	00
..		2,42,00,000	00	..		..		..		..		..
..		1,87,00,000	00	..		..		..		..		..
60,21,000	00	18,24,50,000	00	3,23,827	75	72,70,834	00	75,94,661	76	73,23,707	71	2,70,954	05

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

* Shown as saving.

Statement showing Outstanding Loans due by the Municipal Corporation of Greater Bombay (Extended Suburban Area), the Interest Outstanding on 1st April 1970 on the different Loans, the amount payable for the year 1970-71 the amount paid by the State Bank of India and in office during the year and the balance Outstanding on 31st March 1971.

Serial No. (1)	Particulars of Loan. (2)	Rate of interest. (3)	Balance due on 1-4-1970. (4)	Amount raised in 1970-71. (5)	Total. (6)	Amount repaid in 1970-71. (7)	Balance due on 31-3-1971 (8)	Interest outstanding on 1-4-1970. (9)	Interest payable in 1970-71. (10)	Total Interest due. (11)	Deduct Interest paid. (12)	Outstanding balance on 31-3-1971. (13)
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
	Loans raised from the Public.											
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%	25,00,000	...	25,00,000	...	25,00,000	20,336.00	1,00,000.00	1,20,336.00	1,00,612.00	19,724.00
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	1,976.38	93,500.00	95,476.38	91,226.21	4,250.17
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	637.53	2,33,750.00	2,34,387.53	2,34,206.86	180.67
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	9,808.91	1,42,500.00	1,52,308.91	1,42,298.09	10,010.82
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	2,89,742.00	...
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 Bcm. Mun. Budget 'A' Div. III Loan 1967-68 out of Rs. 60 Lakhs Loan	6%	35,00,000	...	35,00,000	...	35,00,000	21,808.00	2,10,000.00	2,31,808.00	2,12,124.00	19,684.00
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	...	4,95,000.00	4,95,000.00	4,95,000.00	...
16	6% Rs. 165 lakhs B. M. C. Loan: 1970 1st issue	6%	...	1,81,50,000	1,81,50,000	...	1,81,50,000	...	...	...	...	...
17	6% Rs. 115 Lakhs B. M. C. Loan 1970 2nd issue	6%	...	1,26,50,000	1,26,50,000	...	1,26,50,000	...	...	...	...	...
	Total		5,44,50,000	3,08,00,000	8,52,50,000	...	8,52,50,000	56,808.82	29,04,750.00	29,61,558.82	29,07,709.16	53,849.66

Div. III

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	10,60,76,040	24		
	B.—Town Duties	15,32,06,316	71		
	C.—Other Receipts—				
	(a) Grant-in-aid of the fees for Land Conveyance, Music, etc., Licences	10,762	00		
	(b) Grant-in-aid in respect of fines for offences against the Law	5,87,105	60		
	(c) Interest and Profit on Investment of Surplus Loan and other balances	97,26,713	57		
	(d) Interest on Plant and Machinery Depreciation Fund	1,47,630	94		
	(e) Miscellaneous	48,89,006	67		
	(f) Receipts on account of Municipal Journal	7,973	76		
	D.—Receipts on account of proportionate cost of collection of Education cess	1,43,095	17		
	E.—Rebate from Govt. on account of Collection of Education cess	1,27,000	00		
				27,49,21,644	66
	Water Works—Water Tax and other Miscellaneous Water Works Revenue—				
	A.—Water Tax	6,23,67,867	01		
	B.—Other Receipts	22,93,900	05		
	C.—Project Engineer	22,893	47		
				6,46,84,660	53
	3. Museums	19,955	92	19,955	92
	4. Free Reading Rooms and Libraries	32,34,591	29	32,34,591	29
	5. Public Health Department	12,08,726	92	12,08,726	92
	6. Medical Relief and Education	20,17,655	82	20,17,655	82
	7. Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
	A.—Halalkhore Tax	1,51,84,000	14		
	B.—Other Receipts	15,61,161	34		
	C.—Tax on Dogs	52,158	25		
				1,67,97,319	73
	8. Roads, S.W. Drains and Public Lighting—				
	A.—Wheel Tax	94,52,258	56		
	B.—Contribution from Government in lieu of Tolls	25,000	00		
	C.—Other Receipts—				
	(a) Ground Rent	68,293	14		
	(b) Miscellaneous	11,42,745	22		
	(c) Interest realised on Donations	2,648	51		
				1,06,90,945	43
	9. Mechanical	3,56,381	36	3,56,381	36
	10. Buildings, Land Acquisition and Management—				
	A.—Sale Proceeds of Surplus Land	36,409	00		
	B.—Other Receipts—				
	(a) Rent of Buildings	16,20,996	50		
	(b) Ground Rent	6,22,880	43		
	(c) Miscellaneous	29,83,287	73		
	C.—Contribution from the Capital Funds on account of Special Land Acq. staff	68,513	57		
				53,32,087	23
	11. Fire Brigade—				
	A.—Fire Tax	33,27,505	41		
	B.—Other Receipts	74,096	44		
				34,01,601	85
	12. Licensing Removal of Encroachments on Public Streets, Administration of Shops & Establishments Act, 1948 and Theatre Tax—				
	A.—Licences for Dangerous and Offensive Trades	29,68,844	39		
	B.—Removal of Encroachments on Public Streets	34,14,584	09		
	C.—Receipts from Administration of Shops and Establishments Act	7,58,017	29		
	D.—Miscellaneous	16,19,958	84		
	E.—Receipts from Theatre Tax	8,06,489	20		
				95,67,893	81
	13. Gardens and Open Spaces	8,81,562	77	8,81,562	77
	14. Markets and Slaughter Houses	87,34,254	49	87,34,254	49
	15. Contribution from Capital Funds to Revenue on account of Loan Works Staff	6,92,028	82	6,92,028	92
	16. Extraordinary Receipts	2,81,701	86	2,81,701	86
	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	15,07,639	93	15,07,639	93
	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.				
	Total—Revenue Receipts Rs.			40,43,30,652	42
RECEIPTS—B.—CAPITAL ACCOUNT—					
Loan Funds—					
Debt—Principal—					
	Loan of 1970-71	1,15,41,000	00		
	Advances from Special Funds for purchase of Plant and Machinery—				
	Net premia Fund	9,46,924	81		
	Municipal Fire and Accident Insurance Fund	4,63,176	54		
	Advance from K.E.M. Hospital Research Fund for purchase of P & L M				
	K.E.M. Hospital Equipment Fund	1,870	90		
	Land (Acquisition and Reclamation) Fund	21,44,460	32		
	Hospital Fund	1,81,892	46		
	Plant and Machinery Depreciation Fund	88,232	90		
	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				
				1,61,59,557	93
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	34,661	00		
	Interest on investments				
	Total Capital Account Receipts			1,61,94,218	93

No. 15. (City)

and debited to the Municipal Fund during the year 1970-71 and the balance year 1970-71 (i. e. 31st March 1971).

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—C.—SUSPENSE ACCOUNT—				
I.—Sinking and Special Fund Accounts—				
Sinking Fund account—Municipal	4,77,84,877	64		
Special Fund Accounts	5,75,02,575	10		
Improvement Schemes Fund Account—				
(a) Sinking Fund Account	60,11,219	84		
(b) Investment Reserve Fund Account	5,84,199	04		
Sinking Fund Account—Slum clearance (City)	6,96,457	82		
Sinking Fund Account Slum clearance (Suburbs)	5,03,110	34		
Amenities Fund Account	1,22,135	13		
Rent Equalisation Fund Account.	3,54,000	86		
			11,35,58,575	77
II.—Paper and Cash Accounts—				
1. Sinking Fund	3,50,15,414	21		
2. Special Funds	12,85,10,650	89		
3. Surplus Fund	11,82,11,589	01		
4. Loan Fund		74	40	
5. Improvement Schemes Funds—				
(a) Sinking Fund	79,36,567	72		
(b) Capital Fund	9,11,920	58		
(c) Investment Reserve Fund	1,03,68,285	10		
(d) Rent Equalisation Fund	30,41,576	87		
(e) Amenities Fund	10,74,024	35		
6. Improvement Schemes A/c (Slum Clearance) City—				
(a) Sinking Fund	2,58,174	52		
(b) Capital Fund	19,41,619	26		
7. Improvement Schemes A/c (Slum Clearance) Subs.				
(a) Sinking Fund		100	85	
(b) Capital Fund		13,02,427	98	
State Bank of India and other Local Banks on account of Sundry deposits	57,54,67,354	80		
			88,40,39,780	51
III.—Suspense Accounts—				
Deposit Account	26,47,71,960	18		
Reserve Stores Account	1,82,46,745	90		
Capital Stores Account	1,56,75,830	31		
Purchase of Petrol and Diesel Oil	9,02,845	93		
Advances to public including co-operatives for Housing Purposes	12,343	95		
Advances Departmental Works	23,99,028	07		
Advances Municipal Workshops	10,07,328	84		
Municipal Foundry	2,09,925	63		
Worli Crushers	1,28,207	75		
Sewri Crushers				
Mechanical Transport	55,07,410	36		
Asphalt Plant	13,04,738	09		
Pre-Cast Concrete Slabs				
Municipal Printing Press	28,39,705	45		
Rota Printing Units	1,40,169	69		
Advances Private Works	5,70,084	02		
Servicing of Vehicles and recharging of Batteries.				
Reinstatement of Trenches	46,71,175	43		
Advances Special Funds	35,33,384	69		
Municipal Contractors	1,39,112	89		
Municipal Tenderers	190,000	00		
Sundry Advances	3,72,88,751	18		
Advances for demolition of unauthorised structures and for removal of unsafe Buildings in the City	1,49,256	48		
Advances to Municipal Officers—	2,09,901	16		
Interest Accrued but not paid	29,51,608	33		
Interest Receivable Account				
Provident Fund	2,68,99,964	34		
Welfare Fund				
Fines Fund	7,776	60		
Fidelity Guarantees Insurance Fund	15,401	59		
Bombay Municipal Corporation Loans Interest Warrants payable Account	1,37,03,523	13		
City of Bombay Improvement Trust Loans Interest Warrants Payable Account	4,31,083	16		
Cash Bills outstanding Account	2,63,403	58		
Dishonoured Cheques	1,12,63,810	22		
Cheques payable	87,21,98,546	27		
Loan Redemption Fund Slum Clearance City	22,953	56		
Loan Redemption Fund Slum Clearance Suburbs	25,174	97		
Wages Deposit Account	1,10,85,677	03		
Loan Redemption Fund—Municipal	3,56,31,867	55		
Loan Redemption Fund—Improvement Schemes...	89,09,820	19		
Manufacture of concrete covers—Recoveries				
Interest on B. I. T. Loans payable Account	4,738	96		
Debt-charges Equalisation Fund				
Municipal Power Laundry	11,79,895	00		
Plant and Machinery Purchased out of S. C. B.				
Pension Fund	1,09,67,029	41		
Gratuities Fund	27,19,264	23		
Amount transferred to D. A. Suburbs...	7,55,22,576	76		
Security Deposit in C. Railway L. D. G. S. New Delhi	1,3,860	00		
Security Deposit in G. P. Notes with State Bank of India				
Improving common Houses Gullies in the City	47,725	51		
			1,43,74,59,342	30
Total Receipts—C.—Suspense Accounts			2,43,50,57,698	61

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—D.—IMPROVEMENT SCHEMES ACCOUNT—				
General Account Revenue—				
I.—Rents and other proceeds of Properties...	1,24,37,924	06		
II.—Contribution from the Municipal Corporation under Section 125(2)(d) of the Municipal Act	1,83,17,964	00		
III.—Grant-in-aid for meeting deficit in General Account				
IV.—Interest and Profit on Investments	1,63,014	75		
V.—Miscellaneous Receipts	7,24,412	70		
VI.—Transfer of Revenue Surplus to Capital Account	Dr. 44,55,548	10		
	Total Rs.			2,71,87,767 41
Capital Account—				
I.—Sale proceeds of Lands, Buildings, etc.	21,86,076	64		
II.—Transfer of Revenue Surplus from General Account	44,55,548	10		
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.			66,41,624 74
	Total—D.—Improvement Schemes			3,38,29,392 15
RECEIPTS—E.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE (CITY)				
General Account Revenue—				
I.—Rents and other proceeds of Properties	15,66,747	06		
II.—Grant-in-aid for meeting deficit				
III.—Interest and Profit on Investment	1,12,325	41		
IV.—Miscellaneous Receipts				
V.—Appropriation from Capital Account to meet deficit in General Account	12,04,947	02		
	Total—Capital Account Receipts			28,84,019 49
Capital Account—				
I.—Sale proceeds of Lands and Buildings				
II.—Loans from Government	4,05,023	00		
III.—Loan raised in 1969-70				
Subsidy from Government	4,05,023	00		
Transfer to General Accounts				
	Total—Capital Account Receipts			8,10,046 00
	Total—E.—Improvement Schemes Slum Clearance (City)			36,94,065 49
RECEIPTS—F.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE (Subs.)				
General Account Revenue—				
I.—Rents and other proceeds of properties	5,14,438	55		
II.—Contribution from Municipal Corporation (Suburbs)				
III.—Interest and Profits on Investments	1,47,064	64		
IV.—Miscellaneous Receipts	1,33,401	28		
V.—Transfer of Revenue Surplus to Capital Account	11,78,486	43		
	Total—Capital Account Receipts			19,73,390 90
Capital Account—				
I.—Sale Proceeds of Lands and Buildings	10,08,868	36		
II.—New Loans in 1968-69				
Transfer of Revenue Surplus				
III.—Loan from Government				
IV.—Subsidy from Government				
	Total—Capital Account Receipts			10,08,868 36
	Total—F.—Improvement Schemes Account—Slum Clearance (Subs.)			29,82,259 26
EXPENDITURE—A.—REVENUE ACCOUNT.				
I.—General Supervision, Collection of Revenue etc.—				
A.—General Superintendence	1,33,58,286	62		
B.—Collection of Revenue	67,74,563	28		
C.—Upkeep and guarding of Municipal Head Office	17,20,213	21		
D.—General Sores	6,55,119	29		
E.—Legal Department	15,12,638	61		
F.—Miscellaneous Charges	6,32,154	13		
G.—Election Expenses	1,10,813	00		
H.—Provident Fund charges	3,81,587	86		
I.—Debt Charges	13,22,852	63		
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. 66,39,534 07			
	Total—General Supervision, Collection of Revenue etc.—			1,98,28,714 56
II.—Water Works—				
A.—Maintenance I	1,53,57,006	47		
B.—Income Tax on income derived by the Municipality for supply of water to areas outside Municipal Jurisdiction	Cr. 61,798 00			
C.—Provident Fund Charges	2,40,498	00		
D.—Pension, Gratuities and Compassionate Allowances	7,67,730	00		
E.—Proportion of General Supervision and Collection of Revenue, etc.	26,57,385	90		
F.—Debt Charges	5,87,12,337	60		
G.—Provision for Equalisation of Debt Charges				
	Total—Water Works—			7,76,73,159 97
III.—Museums—				
A.—Victoria Albert Museum	1,15,419	58		
B.—Provident Fund Charges	830	00		
C.—Debt Charges	1,175	62		
	Total—Museums—			1,17,425 20
IV.—Free Reading Rooms and Libraries—				
A.—Municipal Free Reading Rooms and Libraries	19,37,102	16		
B.—Municipal High School	37,77,148	21		
C.—Provident Fund charges	1,926	73		
D.—Debt Charges	49,107	07		
	Total—Free Reading Rooms and Libraries—			57,65,284 17
V.—Public Health Department—				
A.—General Superintendence	84,65,321	53		
B.—Supply of milk to the undernourished needy children attending Municipal Schools	22,94,308	26		
C.—Provident Fund, Charges	1,12,402	72		
E.—Census	84,455	86		
F.—Debt Charges	6,52,353	03		
D.—Malaria Eradication Programme	2,39,158	40		
Institute of Public Health				
G.—Impounding Stray Cattle	62,674	06		
	Total—Public Health Department—			1,19,10,673 86
	Expenditure—Revenue—Carried over			11,52,95,257 76

No. 15—(Continued)—City.

	Details.		Total.	
	Rs.	P.	Rs.	P.
			11,52,95,257	76
VI.—Medical Relief and Education—				
B/o.				
A.—Hospitals and Maternity Homes—	5,26,10,412	41		
B.—Maternity Homes	28,20,097	94		
C.—Dispensaries	24,68,565	53		
D.—Family planning clinics	281	62		
E.—Medical Education	81,06,937	36		
F.—Statutory Contribution to Government Medical Institutions	4,14,500	04		
G.—Clinic for treatment of Leprosy cases	2,38,936	28		
H.—Providing a convalescent home of 120 Beds with Equipments, Staff quarters near K. E. M. Hospital B.C.G. Vaccination				
K.—Debt Charges	80,44,937	93		
I.—Construction of full fledged Buildings at L. T. M. G. H. Sion	60,64,495	38		
I.—Grant-in-aid to Public Institutions	3,09,746	08		
J.—Provident Fund, charges			8,10,78,910	57
VII.—Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
A.—Street Cleansing and Conservancy	33,36,770	27		
B.—Collection, Loading Removal and disposal of Town Refuse	2,70,29,877	35		
C.—Road Watering				
D.—Halalkhore Service	1,80,63,718	41		
F.—Provident Fund Charges	6,36,918	47		
G.—Pension Gratuities and Compassionate allowances...	13,68,190	00		
H.—Debt Charges	39,58,640	70		
			5,43,94,115	20
VIII.—Roads S. W. Drains and Public Lighting—				
A.—General	11,32,783	17		
B.—Maintenance of Roads	83,22,367	14		
C.—Public Lighting	93,77,810	95		
D.—Maintenance of S. W. Drains	4,39,806	76		
E.—Rebate on Account of the compounded wheel-tax,	14,838	00		
F.—Provident Fund etc. Charges	1,15,425	69		
H.—Debt Charges	1,11,74,646	00		
I.—Proportionate Cost of Collection of Wheel Tax at 5% of the Total Expenditure etc.	2,02,470	61		
			3,12,80,148	32
IX.—Mechanical—				
A.—Mechanical Engineer's Office Estt.	7,90,083	70		
B.—Provident Fund Charges	24,382	58		
C.—Debt Charges	53,876	23		
			8,68,347	51
X.—Buildings, Land Acquisition and Management—				
A.—City Engineer's Central Office Establishment...	21,47,764	41		
B.—Inspection and Supervision of Private Buildings	14,92,916	74		
D.—Architectural	2,83,201	64		
E.—Land Acquisition and Management	22,78,187	31		
F.—Inspection and Supervision of Factories, Workshops and Work Places	1,40,392	83		
Debt Charges	50,23,845	56		
J.—Provident Fund, charges	55,644	60		
Deduct—Supervision Chargeable to Improvement Schemes Account Industrial Estate	Cr. 40,277	24		
	83,036	96		
			1,14,64,712	81
XI.—Fire Brigade—				
A.—Maintenance	31,36,581	46		
B.—Provident Fund, etc., Charges	1,646	00		
C.—Pension Gratuities and compassionate allowances	2,93,080	00		
D.—Proportion of General Supervision and Collection of Revenue	1,91,351	97		
E.—Debt Charges	5,77,572	25		
			42,00,231	68
XII.—Licensing, Removal of Encroachments on Public Streets and Administration of Shops and Establishment Act, 1948 and Theatre Tax—				
A.—Licensing Establishment	10,92,263	44		
B.—Removal of encroachments on Public Streets	9,68,863	88		
C.—Administration of Shops and Establishment Act, 1948	5,89,635	74		
D.—Administration of Theatre Tax				
F.—Provident Fund, charges	74,913	41		
G.—Debt Charges				
			27,25,676	47
XIII.—Gardens and Open Spaces—				
A.—Gardens	22,33,334	19		
B.—New Gardens, Recreation Grounds etc.	43,685	30		
C.—Road side Trees	2,00,078	51		
D.—Open Air Theatre at Victoria Garden	8,211	39		
E.—M. G. M. O. Swimming Pool	1,51,997	14		
F.—Raja Baldeodas Birla Krida Kendra	83,805	54		
G.—Provident Fund, charges.	27,361	75		
H.—Debt Charges	7,65,369	16		
			35,14,842	98
XIV.—Markets and Slaughter Houses—				
A.—Markets and Slaughter Houses & Refrigerator at A. C. Market	50,90,281	23		
B.—Provident Fund and etc., charges	39,020	00		
C.—Pension Gratuities and compassionate allowances	1,69,220	00		
D.—Proportion of General Supervision	2,76,129	34		
F.—Debt Charges	41,04,775	58		
			96,79,426	15
XV.—Contribution to—				
(a) Budget 'B' under Section 125(2)(d) of the Bombay Municipal Corporation Act	1,20,03,874	00		
(c) Budget 'E' under Section 126C(c) of the Bombay Municipal Corporation Act	2,00,83,178	61		
(ce) Special Contribution to Budget 'E' under Section 126C(C-1) of the B.M.C. Act	3,60,00,000	00		
(e) Fines Fund and Welfare Fund	10,21,131	62		
			6,91,08,154	23
XVI.—Miscellaneous—				
(c) Pension Fund	56,69,384	70		
(d) Gratuities Fund	10,45,050	00		
Deduct—proportionate share chargeable to—				
XVII.—Measures for civil Defence			67,14,434	70
XIX.—Contribution to B. E. S. & T. Undertaking			1,315	23
Total Expenditure—A—Revenue Account Rs.			39,03,25,573	61

	Details.		Total.	
	Rs.	P.	Rs.	P.
EXPENDITURE B—CAPITAL ACCOUNT				
I.—General Supervision, Collection of Revenue, etc.	5,34,989	92		
II.—Water Works, ordinary	42,53,553	20		
III.—Augmenting City's Water Supply	4,48,77,720	51		
IV.—Free Reading Room and Litreres	2,354	00		
V.—Public Health Department	1,91,044	66		
VI.—Medical Relief and Education	19,25,096	93		
VII.—Street Cleansing Conservancy, Road Watering and Halalkhore Service	18,99,996	71		
VIII.—Roads, S. W. Drains and Public Lighting	1,09,60,102	76		
IX.—Mechanics				
X.—Buildings, Land Acquisition and Management	25,46,983	08		
XI.—Fire Brigade	Cr. 201	65		
XIII.—Gardens and open spaces	1,12,377	66		
XIV.—Markets and Slaughter Houses	66,84,280	81		
XV.—Slum Service	1,52,413	48		
XVII.—Greater Bombay				
XVIII.—Industrial Estate	50,721	26		
Discount and other charges on the new Loans				
Plant and Machinery to be purchased out of Net Premia Fund	5,96,781	40		
Plant and Machinery to be purchased out of Municipal Fire and Accident Ins. Fund	1,25,309	41		
Plant and Machinery to be purchased out of K.E.M. Hospital Equipment Fund	Cr. 15,800	04		
Plant and Machinery to be purchased out of K.E.M. Hospital Research Fund	2,844	29		
Plant and Machinery to be purchased out of Land (Reclamation and Acquisition Fund	10,48,050	89		
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	5,11,209	28		
Plant and Machinery to be purchased out of Hospital Fund	Cr. 5,696	23		
Plant and Machinery to be purchased out of Slum Service Fund				
Assets written off	24,25,526	16		
Recoupment of Advance for Purchase of Capital Stores Account Stock during 66-67				
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. 63,978	65		
			7,88,09,996	26
Trust Fund— Expenditure	8,36,927	49	8,36,927	49
Total B—Capital Expenditure Rs.			7,96,46,923	75

EXPENDITURE—C.—SUSPENSE ACCOUNTS—	Details.		Total.	
	Rs.	P.	Rs.	P.
I.—Sinking and Special Fund Accounts—				
(1) Sinking Fund Account—Municipal	3,06,87,256	88		
(2) Special Fund Accounts	2,11,64,606	63		
(3) Improvement Scheme Accounts—				
(a) Sinking Fund Accounts	87,30,706	07		
(b) Sinking Fund A/C Slum Clearance City	3,651	11		
(c) Sinking Fund Account Slum clearance (Suburbs)	00	99		
(d) Other Fund Accounts (Impts.)—				
(d) Investment Reserve Fund Account	108	92		
(e) Rent Equalisation Fund, Account	7	00		
(f) Amenities Fund Account	15,315	06		
			6,06,01,652	66
II.—Paper and Cash Accounts—				
(1) Sinking Fund	5,21,13,034	97		
(2) Special Funds	4,56,08,452	52		
(3) Surplus Fund	18,20,48,934	79		
(4) Loan Fund	169	58		
(5) Improvement Schemes Funds—				
(a) Sinking Fund	52,17,081	49		
(b) Capital Fund	76	35		
(c) Investment Reserve Fund	8,775	22		
(d) Amenities Fund	1,744	42		
(e) Rent Equalisation Fund	1,670	73		
(6) Improvement Schemes A/C (Slum Clearance) City				
(a) Sinking Fund	9,50,981	23		
(b) Capital Fund	227	98		
(6) Improvement Schemes A/C (Slum Clearance) Subs.				
(a) Sinking Fund	5,03,210	20		
(b) Capital Fund	112	80		
State Bank of India and other Local Banks on account of Sundry Deposits	66,36,54,606	55		
			95,01,09,078	83
III Suspense Accounts—				
Deposit Account	25,04,16,612	93		
Reserve Stores Accounts	1,64,51,154	71		
Capital Stores Accounts...	1,55,55,781	10		
Capital Store Account Stock—Foras Road Depot	40,970	76		
Purchase of Petrol, and Diesel Oil	8,90,651	21		
Purchase of Coal				
Advances Departmental Works	26,58,795	57		
Advances Municipal Workshop	10,26,702	30		
Municipal Laundry	2,25,018	60		
Worli Crushers	4,91,363	26		
Sewri Crushers	991	58		
Mechanical Transport	67,74,853	38		
Asphalt Plant	11,77,113	83		
Pre Cast Concrete Slabs				
Rota Printing Units	4,03,054	67		
Servicing of Vehicles and Recharging of Batteries				
Municipal Printing Press	25,69,333	15		
Advances Private Works	8,06,289	57		
Advances Special Funds	58,02,151	53		
Municipal Contractors	1,60,963	42		
Municipal Tenderers				
Sundry Advances	2,89,19,660	74		
Advance to public including co-operatives for Housing purposes	18,62,887	35		
Advance for demolition of unauthorised Structures and for Removal of unsafe Buildings in the City	10,15,148	05		
Repayment of Loans Municipal	3,56,31,867	55		
Do. (Impts. Schemes)	89,09,820	19		
Repayment of Loans Impts. Schemes Slum Clearance City	22,953	56		
Do. Suburbs	25,174	97		
Advances to Municipal Officers	3,07,730	00		
Provident Fund	2,68,99,964	34		
Welfare Fund				
Fines Fund	7,776	60		
Fidelity Guarantee Insurance Fund	15,401	59		
Bombay Municipal Corporation Loans Interest Warrants payable Account	1,36,55,304	62		
City of Bombay Improvement Trust Loans Interest Warrants Payable Account	4,31,580	49		
Dishonoured Cheques	1,12,63,810	22		
Cash Bill outstanding Account	2,10,654	43		
Cheques payable	86,93,23,707	14		
Wages Deposit Account	1,10,85,677	03		
Advances to B.E.S.T.				
Interest on B.I.T. Loans payable account	4,698	96		
Contribution receivable from Budget E,	17,66,468	00		
Interest accrued but not paid	1,61,569	44		
Advance for manufacture of concrete Covers and Dadarkar Pattern				
Debt Charges Equalisation Fund				
Interest Receivable Account	5,15,000	00		
Municipal Power Laundry	7,42,429	11		
Reinstatement of Trenches	27,69,166	84		
Pension fund	1,09,67,029	41		
Gratuities fund	27,19,264	23		
Amount transferred to D.A. (Sub.)	4,43,73,528	48		
Security Deposit in the C. R. Rly. L.D.G.S. New Delhi				
Improving common House Gullies in the City	2,39,479	84		
Adv. for deposit with Out Side bodies	1,000	00	1,37,93,00,554	95
Total Expenditure—Suspense Accounts			2,39,00,11,286	44

No. 15—Concluded (City)

	Details.		Total.	
	Rs.	P.	Rs.	P.
EXPENDITURE—D.—IMPROVEMENT SCHEMES ACCOUNT				
General Account Expenditure—				
A.—Maintenance of Properties and Streets	1,69,61,961	57		
B.—Cost of Management and Establishment	41,24,839	52		
C.—Proportionate charges on account of Municipal Supervision	18,64,957	87		
Deduct—				
Proportionate share of cost of Management and Establishment chargeable to				
(a) General Account	Cr. 58,85,817	95		
(b) Capital Account	Cr. 1,03,979	44		
D.—Debt Charges	1,02,25,805	84	1,69,61,961	57
			1,02,25,805	84
Total			2,71,87,767	41
Capital Account—				
Improvement and Street Schemes, etc.	16,11,089	53		
Proportionate share of cost of Management and Establishment chargeable to General account	1,03,979	44		
Lump sum provision for granting loans to grant Building etc. under Section 354w of the B.M.C. Act.				
Total	17,15,068	97	17,15,068	97
Total—General and Capital Account Expenditure			2,89,02,836	38
EXPENDITURE—E.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE CITY—				
General Account Expenditure—				
A.—Maintenance of Properties and Streets	11,41,460	62		
D.—Debt Charges	17,39,553	87	28,84,019	49
Capital Account—				
Expenditure	7,74,990	26		
Proportionate share of cost of Management and Establishment chargeable to Capital Account	12,04,947	02	19,79,937	28
Deficit in General Account				
Total, E.—Improvement Schemes Account—Slum Clearance (City)			48,63,956	77
EXPENDITURE—F.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE—(SUBURBS)—				
General Account Expenditure—				
A.—Maintenance of Properties and Streets	3,04,610	61		
D.—Debt Charges	16,68,780	29	19,73,390	90
Total			19,73,390	90
Capital Account—				
Expenditure	1,54,597	11		
Deficit in General Account	11,78,846	43	13,33,083	54
Total				
Total, F.—Improvement Schemes Account—Slum Clearance—(Suburbs)			33,06,474	44
Bank's reconciliation—				
*Balance as per Bank's Pass Book			94,318	62
Add—				
Revenue sent to the Bank on 31st March 1971 but acknowledged on 1st April 1971			32,28,510	73
Less—				
Uncashed Cheques			31,34,192	11
Balance in Bank as per Day Book (Column No. 10)			58,20,876	86
Balance in Office in Government Promissory Notes, etc.	3,69,100	00	26,86,684	75
Balance in Office in Cash	227	59	1,67,69,043	39
Collection kept in office	3,69,327	99	1,40,82,358	64
	1,63,99,715	40		

SUMMARY

Receipts.		Disbursements.	
Rs.	Ps.	Rs.	P.
1,50,51,123	17		
40,43,30,652	42	39,03,25,573	61
1,61,94,218	93	7,96,46,923	75
2,43,50,57,698	61	2,39,00,11,286	44
3,38,29,392	15	2,89,02,836	38
36,94,065	49	48,63,556	77
29,82,259	25	33,06,474	44
2,89,60,68,286	86	2,89,70,57,051	39
		1,40,82,358	64
2,91,11,39,410	03	2,91,11,39,410	03

APPENDIX No. 15
(Suburbs)

Statement showing the Amounts of the Receipts and Expenditure respectively credited and debited to the Municipal Fund during the year 1970-71 and the Balance at the credit of the Fund at the close of the year 1970-71 (i.e., 31st March 1971).

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—A.—REVENUE ACCOUNT.				
1.—General Tax, Indirect Taxation and Miscellaneous Revenue—				
A.—General Tax	4,23,85,247	86		
C.—Other receipts—				
(b)—Grants-in-aid in respect of fines for offences against the law	1,36,786	00		
(c)—Interest and profit on Investment of Surplus Loans and other balances	3,05,516	80		
(e)—Miscellaneous	4,36,138	45		
D.—Receipts on account of Proportionate cost of Collection of Education cess	63,256	24		
E.—Rebate from Govt. on account of collection of Education cess	70,281	93		
			4,33,97,227	28
2. Water Works—Water Tax and other Miscellaneous Water Works Revenue	...		2,67,46,932	35
3,4. Free Reading Rooms, Libraries and Municipal High Schools	...		493	44
5. Public Health Department	...		3,00,059	87
6. Medical Relief and Education	...		26,301	00
7. Street Cleansing and Conservancy, etc.				
A.—Halalkhore Tax	66,75,275	22		
B.—Other receipts	1,43,995	88		
C.—Tax on Dogs	17,955	00		
D.—Veterinary Department Fees	5,180	00	68,42,406	10
8. Roads, Storm water Drains and Public Lighting				
A.—Wheel Tax	19,10,222	42		
B.—Contribution from Government in lieu of Tolls	16,673	00		
C.—Other receipts	2,63,184	81		
D.—Ferry Receipts	2,000	00	21,92,080	23
9. Mechanical	...		64,437	42
10. Buildings, Land Acquisition and Management—				
A.—Sale Proceeds of Surplus Land	Dr. 3,770	00		
B.—Other Receipts	...			
(a)—Rent of Bldgs.	56,482	05		
(b)—Ground Rent	1,745	89		
(e)—Miscellaneous Receipts	6,76,891	28	7,31,349	22
11. Fire Brigade—				
A.—Fire Tax	13,05,184	30		
B.—Other Receipts	19,608	25	13,24,792	55
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	9,63,223	73		
B.—Removal of Encroachments on Public Streets, Licences for squatters and Hawkers and fees for removal of encroachments	4,77,367	38		
C.—Grants-in-aid from Government for the Administration of Shops and Establishment Act, 1948	97,584	96		
D.—Miscellaneous	3,52,208	90		
E.—Receipts from Theatre Tax	3,18,706	49		
			22,09,091	46
13. Gardens and Open Spaces	...		78,973	31
14. Markets and Slaughter Houses	...		19,48,544	69
15. Contribution from Capital Funds to Revue on account of Loan Works Staff	...		2,97,738	95
16. Rebate from Government on account of Collection of the Urban Immoveable Property Tax in the Suburbs	...		...
17. Grant-in-aid from Government	...		1,037	18
19. Receipts from Government on account of U.I.P. Tax	...		17,222	33
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	...		8,61,78,687	38

APPENDIX No. 15—(Contd.)
(Suburbs)

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—B.—CAPITAL ACCOUNT.				
Capital Receipts—	...			
Debt Principal	...			
New Loan 1970-71	4,29,00,000	00		
Trust Funds	50,000	00		
Contribution from Govt. equal to 1/3rd of the Exp. etc.	...			
Contribution from Hospital Fund of Budget 'A'	...			
Total—Capital Account Receipts			4,29,50,000	00
RECEIPTS—C.—SUSPENSE ACCOUNT				
I.—Sinking and Special Fund Accounts—				
Sinking and Special Fund Accounts	1,12,61,632	21		
Loan Redemption Fund	60,21,000	00		
			1,72,82,632	21
II.—Paper and Cash Accounts—				
(1) Sinking Funds	55,34,417	13		
(2) Special Funds		323		29
(3) Surplus Funds	1,12,96,669	26		
(4) Loan Funds	...			
State Bank of India and Other Local Banks on account of Sundry Deposits	4,09,93,775	50		
			5,78,25,185	18
II.—Suspense Accounts—				
Deposit Account	3,15,87,172	94		
Advances for demolition of unauthorised structures and for removal of unsafe buildings in the suburbs	4,277	20		
Municipal contractor Personal a/c	3,514	87		
Advances for purchase of Petrol	4,10,194	58		
Advances for Departmental Works	13,84,373	69		
Advances for Private Works	60,125	48		
Repayment of Municipal Loans (Subs.)	...			
Advances Sundries, Miscellaneous Advances	62,75,897	00		
Advances Municipal Contractors	...			
Dishonoured Cheques	22,20,737	36		
Advances—Municipal Officers—				
(a) Standing Advances for Contingent Expenses	200	00		
(b) Motor Cars and Motor Cycles to Officers	53,603	74		
(c) Cycle Advances to Subordinates	...			
Suspense Account Mechanical-Transport	59,36,757	00		
Provident Fund (Suburbs)	42,29,836	12		
Reinstatement of Trenches	10,90,114	72		
Greater Bombay Suburbs Municipal Corporation Loan	...			
Interest Warrants Payable Account	55,95,656	37		
Interest accrued but not paid	3,20,833	33		
Cash Bills Outstanding Account	36,923	66		
Cheques Payable	13,32,81,644	88		
Plant and Machinery to be purchased out of S. C. B.	...			
Amount Transferred from Municipal General Fund	3,43,16,165	92		
Wages Deposit Account	24,07,508	12		
Municipal Debt Interest	75,23,377	62		
			23,67,38,914	60
Total—Suspense Account Receipts—I, II, III.			31,18,46,731	99
EXPENDITURE—A.—REVENUE ACCOUNT.				
I.—General Supervision, Collection of Revenue, etc.—				
A.—General Superintendence—				
(b) Chief Auditor's Establishment	2,00,157	30		
(c) Municipal Commissioner's Personal and General Office	1,40,035	02		
(d) Audit and Accounts Establishment	6,87,837	85		
(e) Labour Officer's Establishment	19,532	00		
(h) Public Relations Officer's Department	33,140	83		
(k) Chief Complaints Officer's Establishment	57,147	83		
B.—Collection of Revenue—				
(a) Property and Wheel Tax Establishment	20,68,251	40		
C.—Upkeep and guarding of Municipal Offices				
E.—Legal Deptt.	3,83,157	24		
F.—Miscellaneous Charges	45,280	07		
H.—P. F. Charges	4,21,596	19		
	75,764	74		
Total—I—Gen. Sup. A. to H.	41,31,898	47		
Deduct—Proportion of General Superintendence	15,44,096	67		
Total—A to H	25,87,801	80		
I—Debt Charges	1,44,271	58		
			27,32,073	38
Carried forward			27,32,073	38

APPENDIX No. 15—(Contd.)
(Suburbs)

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...			27,32,073	38
EXPENDITURE—A.—REVENUE ACCOUNT—(Contd.)				
II.—Water Works—				
A.—Maintenance ...	1,34,63,292	99		
C.—P. F. Charges ...	44,922	79		
D.—Pension, Gratuities and Compassionate allowances				
(a) Pension Funds ...	2,16,300	00		
(b) Gratuities Funds ...	15,000	00		
E.—Proportion of General Suptd. & Collection of Revenue...	8,95,800	79		
F.—Debt Charges ...	28,04,586	02		
			1,74,39,902	59
IV.—Free Reading Rooms, Libraries and Municipal High Schools			3,96,542	31
V.—Public Health Department—				
A.—General Suerintendence ...	36,93,390	41		
B.—Supply of Milk Snacks etc. to the children attending Municipal Primary Schools.				
... ..	7,81,095	20		
C.—P. F. Charges ...	24,785	30		
D.—Malaria Eradication Programme ...	4,16,631	98		
E.—Debt Charges ...	58,266	26		
F.—Impounding stray cattle. ...	...		
H.—Population Census ...	4,309	79		
			49,78,539	94
VI.—Medical Relief and Education—				
A.—Hospitals				
(d)(vi) T. B. Clinic at Khar ...	2,03,315	44		
(h) K. B. Bhabha Hospital, and Sir C. J. R. Dispensary, Bandra ...	21,95,203	09		
(i) K. B. Bhabha Hospital, Kurla ...	18,72,027	95		
(j) M. G. H. Rajawadi, Ghatkoper ...	15,79,488	10		
(l) Medico Social Centre at Bandra ...	...		
(m) Reservation of beds for B. M. C. at Smt. B. C. J. Santacruz General Hospital ...	69,361	50		
(q) Juhu Hospital, Vile Parle ...	7,80,043	20		
(r) Reservation of beds for B. M. C. (Andheri) ...	31,358	00		
B.—Maternity Homes & Children Welfare Service				
(a) Maternity Homes ...	19,74,011	93		
C.—Dispensaries—(a) Dispensaries, for out patients				
(1) Allopathic ...	11,61,270	72		
(c) Municipal Mobile Dispensary at Rajawadi Ghatkoper ...	18,376	31		
(d) Mobile Dispensaries ...	2,76,023	21		
G.—Clinic for treatment of leprosy cases ...	50,576	00		
K.—Debt Charges ...	8,11,135	16		
I.—Grant in aid to Public Institutions ...	3,73,168	45		
J.—P. F. Charges ...	38,964	61		
			1,14,34,323	67
VII.—Street Cleansing and Conservancy, etc.				
A.—Street Cleansing and Conservancy ...	12,20,228	89		
B.—Collection, Loading, Removal and Disposal of T. R. ...	52,61,184	33		
C.—Halalkhore Service ...	61,83,705	63		
D.—Provident Fund Charges ...	1,63,721	83		
E.—Pension Gratuities and compassionate Allowances for Halalkhore service ...	3,69,900	00		
F.—Debt Charges ...	38,23,962	76		
			1,70,22,704	44
VIII.—Roads, S.W. Drains and Public lighting				
A.—General ...	10,95,414	38		
B.—Maintenance of Roads ...	81,19,248	05		
C.—Public Lighting ...	38,37,939	79		
D.—Maintenance of S. W. Drains ...	12,64,917	35		
H.—P. F. Charges ...	1,40,391	32		
I.—Debt Charges ...	68,20,530	93		
J.—Proportionate cost etc. ...	1,05,427	07		
E.—Upkeep of Ferry Boats ...	...		
F.—Depreciation on Plant and Machinery ...	...		
			2,13,83,868	89
IX.—Mechanical				
A.—Assistant Engineer Transport's Office Establishment ...	1,01,845	94		
B.—Maintenance of electric Installation.— ...	1,28,817	86		
C.—P. F. ...	4,037	00		
D.—Debt Charges ...	Cr. 101	28		
			2,34,599	52
X.—Buildings, Land Acquisition and Management—				
A.—City Engineer's Central Office Establishment ...	9,32,337	25		
B.—Inspection and Supervision of Private Buildings etc. ...	4,71,833	60		
D.—Land Acquisition and Management ...	33,199	81		
E.—Inspection and supervision of factories, workshops and workplaces. ...	89,743	32		
G.—P. F. Charges ...	35,836	00		
H.—Debt Charges ...	10,22,537	01		
			25,85,486	99
Carried forward ...			7,82,08,041	73

APPENDIX No. 15—(Contd.)
(Suburbs)

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...			7,82,08,041	73
XI.—Fire Brigade—				
A.—Maintenance ...	6,38,828	39		
B.—Provident Fund ...				
C.—Pension, Gratuities etc. ...	51,500	00		
D.—Proportion of General Superintendent ...	61,543	05		
E.—Debt Charges ...	1,33,248	96		
			8,85,120	40
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 ...	4,51,066	93		
B.—Removal of Encroachments on Public Streets ...	2,46,630	46		
C.—Administration of Shops and Establishment Act, 1948 ...	1,51,513	08		
D.—Provident Fund ...	23,557	69		
			8,72,768	16
XIII.—Gardens and Open Spaces—				
A.—Gardens ...	5,89,226	50		
B.—New Gardens, Recreation Grounds etc. ...	15,008	70		
C.—Roadside Trees ...	55,601	69		
D.—Open Air Theaters ...	41,369	48		
G.—P. F. Charges ...		241	00	
H.—Debt charges ...	1,76,406	06		
			8,77,853	43
XIV.—Markets and Slaughter Houses—				
A.—Markets & Slaughter Houses ...	9,43,818	49		
B.—P. F. Charges ...		9,663	00	
C.—Pension, Gratuities etc. ...		47,960	00	
D.—Proportion of Gen. Supdt. ...		48,357	73	
E.—Debt Charges ...		1,90,902	57	
			12,40,701	79
XV.—Contribution to—				
(a) Budget 'B' under Section 125 (2) (d) of the Bombay Municipal Corporation Act ...	46,68,170	00		
(b) Budget 'E' under Section 126-C(c) of the Bombay Municipal Corporation Act ...	77,80,290	00	1,24,48,460	00
XVI.—Miscellaneous ...			12,03,518	97
Total—Expenditure—A.—Revenue Account ...			9,57,35,464	48
EXPENDITURE—B.—CAPITAL ACCOUNT.				
I.—General Supervision Collection of Revenue, etc. ...	6,21,798	72		
II.—Water Works ...	24,46,244	26		
IV.—Free Reading Rooms & Libraries & Municipal High Schools ...				
V.—Public Health Department ...	71,125	89		
VI.—Medical Relief and Education ...	18,57,618	29		
VII.—Street Cleansing and Conservancy ...	17,40,251	22		
VIII.—Roads, S.W Drains and Public lighting ...	69,90,060	82		
IX.—Mechanical ...				
X.—Buildings, Land Acquisition and Management ...	Cr. 3,34,835	08		
XI.—Fire Brigade ...				
XIII.—Gardens, Recreation Centres and Open Spaces ...	1,12,123	15		
XIV.—Markets and Slaughter Houses ...	3,13,667	87		
XV.—Slum Service and Village Amenities ...	16,347	44		
Suspense A/c. Mechanical Transport ...	Cr. 3,98,155	19		
Advances for purchase of Plant and Machinery ...	Cr. 3,17,974	32		
Industrial Charges ...				
Assets written off ...				
Trust Fund Expenditure ...	Cr. 20,573	62		
Total—Capital Account Expenditure ...			1,30,97,699	45
EXPENDITURE—C.—SUSPENSE ACCOUNT.				
I.—Sinking and Special Fund Accounts—				
Sinking and Special Fund Accounts ...	61,37,740	77		
Loan Redemption Fund ...			61,37,740	77
II.—Paper and Cash Accounts—				
(1) Sinking Funds ...	1,06,54,926	84		
(2) Special Funds ...		3,705	02	
(3) Surplus Funds ...	1,26,48,108	55		
(4) Loan Funds ...		37	30	
State Bank of India and Other Local Banks on account of Sundry Deposits ...	5,04,29,268	88	7,37,36,045	59
Carried forward ...			7,98,73,787	36

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

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...			7,98,73,787	36
EXPENDITURE—C.—SUSPENSE ACCOUNT—(Contd.)				
III.—Suspense Accounts—				
Deposit Account ...	2,62,63,998	53		
Advances for demolition of unauthorised Structures and for removal of unsafe buildings in the Suburbs ...	49,256	64		
Advances for Purchase of Petrol ...	4,21,988	58		
Advances Departmental Works ...	13,17,179	13		
Advances Private Works ...	1,60,108	63		
Advances for Improvement of private streets ...	...		
Advances—Municipal Contractors ...	3,514	87		
Advances Sundries, Miscellaneous Advances ...	78,31,090	89		
Dishonoured Cheques ...	22,20,737	36		
Advances to Municipal Officers—				
(a) Standing Advances for Contingent Expenses ...	4,725	00		
(b) Motor Cars and Motor Cycles to Officers ...	1,16,240	00		
(c) Cycle Advances to Subordinates ...	...		
Suspenses Account—Mechanical Transport ...	48,18,026	97		
Provident Fund—Suburbs ...	42,29,836	12		
Repayment of Municipal Loan (Subs.) ...	60,21,000	00		
Rainstatement of Trenches ...	2,95,048	88		
Greater Bombay Municipal Corporation Loan Interest warrant payable Account ...	57,57,827	50		
Cheques Payable ...	13,43,31,666	99		
Cash Bills Outstanding Account ...	21,543	49		
Wages Deposit Account ...	24,07,508	12		
Municipal Debt Interest ...	75,23,377	62		
Interest accrued but not paid ...	35,416	66		
Amount transferred from Municipal General Fund ...	4,72,89,026	64		
Total, III.—Suspense Account Expenditure ...			25,11,19,118	62
Total—I, II & III. ...			33,09,92,905	98

SUMMARY.

Receipts						Disbursements.		
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	
55,17,437	35			Balance on 1st April 1970	...	...	...
8,61,78,687	38			A.—Revenue Account ...	9,57,36,464	48	...	
4,29,50,000	00			B.—Capital Account ...	1,30,97,699	45	...	
31,18,46,7	3			C.—Suspense Account ...	33,09,92,905	98	43,98,27,069	91
				Balance on 31st March 1971	...		66,65,786	81
		44,64,92,856	72				44,64,92,856	72
		44,64,92,856	72					
Bank's Reconciliation—				Rs.	P.	Rs.	P.	
Balance as per Bank's Pass Books ...				23,10,757	74	...		
Add—								
Revenue sent to the Bank on 31st March 1971 but acknowledged on 1st April 1971 ...				14,47,727	20	...		
				37,58,484	94	...		
Less—								
Uncashed Cheques ...				22,96,402	37			
Balance in Bank as per Day Book (Column No. 10) ...						14,62,032	57	
Balance in Office in Government Promissory Notes, etc. ...				58,400	00			
Balance in Office in Cash ...				1,473	78			
Collection held in Office Treasury ...				51,43,830	46	52,03,704	24	
						66,65,786	81	

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 1970-71 and the Balance at the credit of the Fund at the close of the year, 1970-71 (i.e., 31st March 1971).

	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	1,49,73,701.81			
C.—Other Receipts				
(b)—Grants-in-aid in respect of fines for offences against the law	1,13,178.40			
(c)—Interest and profit on Investment of Surplus Loans and other balances	1,96,472.82			
(e)—Miscellaneous	1,56,500.20			
D.—Receipts on account of proportionate Cost of Collection of Education cess.	26,020.94			
E.—Rebate from Government on account of Collection of Education cess	38,212.37			
			1,55,04,086.54	
2. Water Works—Water Tax and other Miscellaneous Water Works Revenue			77,00,109.36	
4. Free Reading Rooms, Libraries & Municipal High Schools			Dr.	10.00
5. Public Health Department				1,06,567.99
6. Medical Relief and Education				18,568.33
7. Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
A.—Halalkhore Tax	26,98,425.15			
B.—Other Receipts	48,338.60			
C.—Tax on dogs	5,803.00			
				27,52,566.75
8. Roads, S.W. Drains and Public Lighting—				
A.—Wheel Tax	4,45,641.93			
B.—Contribution from Government in Lieu of Tolls	3,964.00			
C.—Other Receipts	1,01,456.69			
D.—Ferry Receipts	5,101.00			
				5,56,163.62
9. Mechanical				
10. Buildings, Land Acquisition and Management—				
A.—Sale proceeds of Land				
B.—Other Receipts				
(a) Rent of Buildings	29,298.64			
(b) Ground Rant	3,885.52			
(c) Miscellaneous Receipts	4,78,931.99			
				5,12,116.15
11.—Fire Brigade—				
A.—Fire Tax	6,76,918.50			
B.—Other Receipts				
				6,76,918.50
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	7,08,368.91			
B.—Removal of Encroachments on Public Streets; Licences for squatters and Hawkers and fees for removal of encroachments	1,05,623.74			
C.—Grants-in-aid from Government for the Administration of Shops and Establishment Act, 1948	31,770.13			
D.—Miscellaneous	61,691.06			
E.—Receipts from Theatre Tax	1,49,278.40			
				10,56,732.24
13. Gardens and Open Spaces				1,58,361.40
14. Markets and Slaughter Houses				7,25,677.37
15. Contribution from Capital Funds to Revenue on account of Loan Works Staff				1,56,631.77
Rebate from Government on account of Collection of the Urban Immoveable Property Tax in the Ext. Suburbs				675.27
19. Receipts from Govt. on a/c. of U. I. P. Tax				15,018.90
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				2,99,40,184.19

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

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—B.—CAPITAL ACCOUNT.				
Capital Receipts—				
New Loan 1970-71	3,08,00,000.00			
Trust Funds	...	..
Contribution from Govt. equal to 1/3rd of the Exp. etc.	...	...
Total—Capital Account Receipts	...		3,08,00,000.00	
RECEIPTS—C.—SUSPENSE ACCOUNT.				
I.—Sinking and Special Fund Accounts—				
Sinking Fund Accounts	35,65,782.00			
Special Fund account Provident Fund account—	...	..
Hospital Fund Account :—	...	..	35,65,782.00	
II.—Paper and Cash Accounts—				
(1) Sinking Funds	...	368.62		
(2) Special Funds	...	...
(3) Surplus Funds	35,89,378.07			
(4) Loan Funds	...	...
(5) State Bank of India and Other Local Banks on account of Sundry Deposits	1,63,44,077.56			
			1,99,33,824.25	
III—Suspense Accounts—				
Deposit Account	1,90,72,403.08			
Advances for demolition of unauthorised structures and for removal of unsafe buildings in the Ext. Suburbs	...	1,425.55		
Municipal Debt Interest	29,13,780.91			
Advances for purchase of Petrol	...	...
Advances for Departmental Works	3,71,203.06			
Advances for Private Works	40,597.10			
Advances Sundries Miscellaneous Advances	32,86,923.42			
Advances Municipal Contractors	1,572.80			
Dishonoured Cheques	9,28,733.68			
Advances—Municipal Officers—				
(a) Standing Advances for Contingent Expenses	...	50.00		
(b) Motor Cars and Motor Cycles to Officers	...	17,477.54		
(c) Cycle advances to Subordinates	...	...
Provident Fund Extended Suburbs	11,14,482.38			
Interest Receivable A/c	...	...
Amount transferred Municipal General Fund	1,53,92,605.29			
Greater Bombay Ext. Suburbs Municipal Corporation Loan Interest	...	...
Warrants Payable Account	15,23,780.91			
Interest accrued but not paid	2,40,625.00			
Cash Bills Outstanding Account	19,543.09			
Cheques Payable	5,49,98,407.24			
Wages Deposit A/c	7,87,434.15			
Advances out of Surplus Cash Balance for financing the expenditure on Capital Works Loan Funds	...	...
Reinstatement of Trenches	3,94,679.45			
Suspense Account Mechanical Transport	1,014.63			
Personal Account	...	...	10,11,06,939.28	
Total,—Suspense Account Receipts—I, II, III	...		12,46,06,545.53	
EXPENDITURE—A.—REVENUE ACCOUNT.				
I.—General Supervision, Collection of Revenue, etc.—				
A.—General Superintendence—				
(b) Chief Auditor's Establishment	81,586.17			
(c) Municipal Commissioner's Personal and General Office	38,168.01			
(d) Audit and Accounts Establishment	2,93,331.08			
(h) Public Relations Officer's Department	1,321.60			
(k) Chief Complaints Officer's Establishment	11,097.49			
B.—Collection of Revenue—				
(a) Property and Wheel Tax Establishment	8,47,283.87			
C.—Upkeep and Guarding of Municipal Offices				
...	1,64,279.95			
E.—Legal Department				
...	17,965.30			
F.—Miscellaneous Charges				
...	325.67			
H.—Provident Fund Charges				
...	33,065.88			
Total—I General Supervision (A to H)	14,88,425.02			
Deduct—Proportion of General Supdt.	6,00,250.80			
Total—A to H	8,88,174.22			
I.—Debt Charges	1,53,637.93		10,41,812.15	
Carried forward	...		10,41,812.15	

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

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought Over ...			10,41,812.15	
EXPENDITURE—A.—REVENUE ACCOUNT—(Contd.)				
II.—Water Works—				
A.—Maintenance ...	51,88,307.80			
C.—Provident Fund charges ...	15,600.01			
D.—Pension, Gratuities and compassionate Allowances ...	77,100.00			
E.—Proportion of General Superintendence and collection of Revenue ...	3,44,459.29			
F.—Debt Charges ...	17,16,129.98		73,41,597.08	
IV.—Free Reading Rooms, Libraries and Municipal High Schools				
A.—Municipal Free Reading Rooms and Libraries ...	62,250.00			
B.—Municipal High Schools ...	...		
C.—Provident Fund, charges ...	...		62,250.00	
V.—Public Health Department—				
A.—General Superintendence ...	13,04,168.15			
B.—Supply of Milk, Snacks etc. ...	2,92,833.04			
C.—Provident Fund charges ...	11,879.00			
D.—Malaria Eradication Programme ...	1,28,102.53			
E.—Debt Charges ...	41,026.42			
H.—Population census ...	162.00		17,78,171.14	
VI.—Medical, Relief and Education—				
A.—Hospitals ...	22,08,455.78			
B.—Maternity Homes and children welfare service ...	13,99,435.40			
C.—Dispensaries ...	6,52,778.69			
D.—Family Welfare Planning Centre ...	...		
G.—Clinic for treatment of leprosy cases ...	24,980.00			
I.—Grant-in-Aid to Public Institutions ...	1,65,065.75			
J.—Provident Fund charges ...	12,390.00			
K.—Debt Charges ...	3,95,044.78		48,58,149.80	
VII.—Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
A.—Street Cleansing and Conservancy ...	6,81,855.34			
B.—Collection, loading, removal and disposal of T. R. ...	23,73,704.17			
C.—Halalkhore Service ...	37,17,662.84			
D.—Provident Fund charges ...	30,490.68			
E.—Pension Gratuities etc. ...	1,43,600.00			
F.—Debt Charges ...	10,59,187.24		80,06,500.27	
VIII.—Roads, S. W. Drains and Public Lighting—				
A.—General ...	3,21,111.89			
B.—Maintenance of Roads ...	38,69,210.55			
C.—Public Lighting ...	20,85,456.81			
D.—Maint. of S. W. Drains ...	12,10,147.28			
H.—Provident Fund charges ...	17,364.73			
I.—Debt Charges ...	24,46,627.53			
J.—Proportionate Cost of Collection of Wheel Tax ...	43,368.24		99,93,287.03	
IX.—Mechanical—				
A.—ME's Office Estt. ...	13.89			
B.—Maintenance of Electrical Installations ...	4,663.43			
D.—Debt charges ...	795.08		5,472.40	
X.—Buildings, Land Acquisition and Management—				
A.—City Engineers Central Office Establishment ...	3,69,947.33			
B.—Inspection and Supervision of Private Buildings ...	21,121.98			
D.—Land Acquisition & Management ...	4,410.78			
E.—Insp. & Sup. of Factories Workshops & Work places ...	52,681.12			
G.—Provident Fund charges ...	12,000.00			
H.—Debt Charges ...	1,43,845.72			
I.—Proportionate cost of staff of the C. P. B. ...	...		6,04,006.93	
XI.—Fire Brigade				
A.—Maintenance ...	12,415.60			
D.—Proportion of Gen. Suptd. & Collection of Revenue ...	23,393.36			
E.—Debt Charges ...	13,053.02		48,861.98	
XII.—Licensing, Removal of Encroachment on Public Streets and Administration of Shops and Establishment Act, 1948 and Theatre Tax				
A.—Licensing Establishment ...	1,69,327.77			
B.—Removal of Encroachments on Public Streets ...	99,305.81			
C.—Administration of Shops and Establishment Act, 1948 ...	80,730.68			
D.—Provident Fund charges ...	10,672.00		3,60,036.26	
XIII.—Gardens and Open Spaces—				
A.—Gardens ...	1,13,009.17			
B.—New Gardens ...	12,201.77			
C.—Road side Trees ...	4,756.22			
G.—Provident Fund Charges ...	399.00			
H.—Debt Charges ...	95,825.36			
I.—Kandivli Swimming Pool ...	3,879.22		2,30,070.74	
Carried forward ...	...		3,43,30,215.78	

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

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...			1,43,30,215.78	
EXPENDITURE—A.—REVENUE ACCOUNT—(Contd.)				
XIV.—Markets and Slaughter Houses—				
A.—Markets and Slaughter Houses ...	3,93,101.61			
B.—Provident Fund charges ...	2,659.00			
C.—Pension Gratuities etc. ...	16,330.00			
D.—Proportion of Gen. Supdt. ...	15,115.78			
E.—Debt. charges ...	1,79,648.22			
			6,06,854.61	
XV.—Contribution to				
(a) Budget 'B' under Section 125(2)(d) of the Bombay Municipal Corporation Act ...	16,45,920.00			
(b) Budget 'E' under Sec. 126—C(c) of the B.M.C. Act ...	27,43,200.00			
			43,89,120.00	
XVI.—Miscellaneous—				
A.—Provident Fund, Pensions, Gratuities and Compassionate Allowance				
(c) Pension Fund ...	3,01,031.90			
(d) Gratuities Fund ..	86,989.66			
			3,88,021.56	
XVII.—Measures for Civil Defence ...	...		...
Total—Expenditure—A.—Revenue Account ...			3,97,14,211.95	
EXPENDITURE—B.—CAPITAL ACCOUNT.				
I.—General Supervision Collection of Revenue, etc. ..	2,58,162.87			
II.—Water Works ...	6,86,704.22			
V.—Public Health Department ...	64,794.54			
VI.—Medical Relief and Education ...	1,57,468.70			
VII.—Street Cleansing and Conservancy ...	22,30,672.12			
VIII.—Roads, S.W. Drains and Public Lighting ..	48,40,016.16			
X.—Buildings, Land Acquisition and Management ..	Cr. 1,87,606.81			
XI.—Fire Brigade ..	...		
XIII.—Gardens and Open Spaces ..	...		
XIV.—Markets and Slaughter Houses ..	41,800.00			
XV.—Slum service and Village Amenities ..	39,846.01			
Suspense A/c ...	...		
Advances for purchase of Plant and Machinery ..	Cr. 91,992.58			
Discount and other charges ..	...		
Assets written off ..	...		
Trust Fund Expenditure ..	..		
Total—B—Capital Account Expenditure ...			80,39,865.23	
EXPENDITURE—C.—SUSPENSE ACCOUNT.				
I.—Sinking and Special Fund Accounts—				
Sinking and Special Fund Accounts ...	31,867.63			
Loan Redemption Fund ...	...		31,867.63	
II.—Paper and Cash Accounts—				
(1) Sinking Funds ...	35,34,282.99			
(2) Special Funds ..	...		
(3) Surplus Funds ..	40,21,675.75			
(4) Loan Funds ...	94.78			
(5) State Bank of India and Other Local Banks on account of Sundry Deposit ...	86,56,823.63			
			1,62,12,877.15	
Carried forward ...			1,62,44,744.78	

APPENDIX No. 15—(Concl'd.).

(Ext. Suburbs).

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...	...	...	2,62,44,744.78	
EXPENDITURE—C.—SUSPENSE ACCOUNT—(Contd.)				
III.—Suspense Accounts—				
Deposit Account ...	99,58,101.57			
Advances for demolition ...	4,465.51			
Advances for Purchase of Petrol ...				
Advances Departmental Works ...	4,59,157.75			
Advances Private Works ...	44,075.90			
Advances for Improvement of Private Streets ...				
Advances—Municipal Contractors ...	4,277.86			
Advances—Sundries—Miscellaneous Advances ...	41,34,980.56			
Advances—Cost of Revision of Grades of Suburban Staff ...				
Dishonoured Cheques ...	9,28,733.68			
Advances—Municipal Officers—				
(a) Standing Advances for Contingent Expenses ...	3,550.00			
(b) Motor Cars and Motor Cycles to Officers ...	18,000.00			
(c) Cycle Advances to Subordinates ...				
Provident Fund—Extended Suburbs ...	11,14,482.38			
Plant and Machinery to be purchased out of Surplus Cash Balance ...				
Amount Transferred from Municipal General Fund ...	3,35,68,992.85			
Greater Bombay Municipal Corporation Loan Interest Warrants Payable Account ...	15,20,300.41			
Cheques Payable ...	5,47,54,221.52			
Cash Bills outstanding A/c. ...	16,801.37			
Wages Deposit A/c. ...	7,87,434.15			
Municipal Debt. Interest ...	29,13,780.91			
Interest accrued but not paid ...				
Interest Receivable A/cs ...				
Reinstatement of Trenches ...	2,93,910.77			
Suspense A/c Mechanical Transport ...				
Personal Account ...				
Total, III.—Suspense Account Expenditure ...			11,05,25,267.19	
Total I, II and III ...			13,67,70,011.97	

SUMMARY

Receipts.			Disbursement	
Rs.	P.		Rs.	P.
6,92,669.25		Balance on 1st April 1970—		
2,99,40,184.19		A.—Revenue Account ...	3,97,14,211.95	
3,08,00,000.00		B.—Capital Account ...	80,39,865.23	
12,46,06,545.53	18,60,39,398.97	C.—Suspense Account ...	13,67,70,011.97	18,45,24,089.15
		Balance on 31st March 1971 ...		15,15,309.82
	18,60,39,398.97			18,60,39,398.97

	Rs.	P.	Rs.
Banks' Reconciliation—			
Balance as per Bank's Pass Books ...	15,52,470.46		
Add—			
Revenue sent to the Bank on 31st March 1971 but acknowledged on 1st April 1971 ...	3,60,702.45		19,13,172.91
Less—			
Uncashed Cheques ...			19,09,788.58
Balance in Bank as per Day Book Column No. (10) ...			3,384.33
Balance in Office in Government Promissory Notes, etc. ...	4,18,550.00		
Balance in Office in Cash ...	222.68		
Collection held in Office Treasury ...	10,93,152.81		15,11,925.49
			15,15,309.82

Appendix No. 22

IMPROVEMENT SCHEMES

General Account for the year ending 31st March 1971

Particulars.	Amount.	Particulars.	Amount.
	Rs.		Rs.
To Revenue expenditure as per Appendix No. 24 ...	2,71,87,768	By Revenue Receipts as per Appendix No. 23 ...	3,16,43,316
Balance being Surplus for the year transferred to Capital Account Balance Sheet. ...	44,55,548		
Total ...	3,16,43,316	Total ...	3,16,43,316

APPENDIX No. 22A

Improvement Scheme Account—Slum Clearance Account—City
General Account for the year ending 31st March 1971.

Particulars.	Amount.	Particulars.	Amount.
	Rs.		Rs.
To Revenue Expenditure as per appendix 24A	28,84,019	By Revenue Receipts under (i) Rent and other proceeds of properties ...	15,66,747
		(ii) Interest and Profits on Investments ...	1,12,325
		(iii) Miscellaneous Receipts ...	...
			16,79,072
		Balance being Deficit for the year transferred to Capital Account Balance Sheet	1,20,494
Total	28,84,019	Total ...	28,84,019

APPENDIX No. 22B

Improvement Schemes Account—Slum Clearance Account—Suburbs
General Account for the year ending 31st March 1971.

Particulars.	Amount.	Particulars.	Amount.
	Rs.		Rs.
To Revenue Expenditure as per appendix 24B	19,73,390	By Revenue receipts under (i) Rent and other proceeds of properties	5,14,438
		(ii) Contribution from Budget—'D' ..	...
		(iii) Interest & Profits on Investments...	1,47,065.
		(iv) Miscellaneous Receipts ...	1,33,401.
			7,94,904
		Balance being Deficit for the year transferred to Capital Account Balance Sheet	11,78,486
Total ...	19,73,390	Total ...	19,73,390

APPENDIX No. 25

IMPROVEMENT SCHEMES

Balance Sheet—(Capital Account) as on 31st March 1971.

LIABILITIES		Rs.	P	ASSETS				Rs.	P.		
LOAN: OUTSTANDING—				BLOCK ACCOUNT—							
(Vide details as shown in Appendix No. 29)	...	14,53,02,201	72	Property and Assets at original cost as per Appendix No. 26 ...				29,52,22,498	42		
Book value of lands comprised in Schedules "W" and "X"		47,58,490	00	Book value of lands comprised in Schedules "W" and "X" as per Appendix No. 27 (Section 91A of the Municipal Act). ...				47,58,490	00		
		15,00,60,691	72			Face Value	Actual cost.				
SURPLUS—						Rs.	P.				
Extraordinary Receipts—				INVESTMENT RESERVE FUND**							
Investment Reserve Fund	1,09,43,655	49		IN FIXED DEPOSIT				1,09,43,600	00		
Amenities Fund	11,79,173	75		In Cash				55	49		
Rent Equalisation Fund	33,93,947	41		Amenities Fund**							
				In Fixed Deposit				11,79,100	00		
Transfer of Sinking Fund Accumulations in respect of Rs. 370 lakhs loan †	25,07,830	00		In Cash				73	75		
Special grants from the Government of India	54,00,000	00		Rent Equalisation Fund**							
Premia on loan raised in 1935-36	30,000	00		In Fixed Deposit				33,93,900	00		
Grant-in-Aid from Government of Bombay or part expenditure of Acquisition of Land	5,00,000	00		In Cash				47	41		
Sale proceeds of Lands and Buildings—				SINKING FUND—							
Sale proceeds up to 31st March 1970	8,10,60,411	58		As per Appendix No. 28							
Sale proceeds during 1970-71	21,85,076	64		In Securities and Cash *				7,03,87,562	22		
	8,32,46,488	22		CAPITAL FUNDS—							
Sinking Fund on Loans	7,03,87,562	22		In Cash securities and fixed deposits				1,03,53,900	08		
Loans Redemption Fund	8,27,08,287	34						1,03,53,900	08		
	26,02,96,944	43									
Deduct—											
REVENUE DEFICIT—											
Deficit upto 31st March 1970	1,85,73,956	88									
Surplus during 1970-71	44,55,548	10									
	1,41,18,408	78									
		24,61,78,535	65								
Total	...	39,62,39,227	37					Total	...	39,62,39,227	37

* For Face, Book and Market Values of Securities held in the Sinking Funds on 31st March 1971. Please see Appendix No. 30.

** In Face, Book & Market Values of the Securities held in these funds at 31st March 1971, 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 1971.

LIABILITIES		Rs.	P.	ASSETS.		Rs.	P.
LOAN OUTSTANDING—				BLOCK ACCOUNT—			
(Vide details as shown in Appendix No. 29A)		2,74,91,494.22		Property and Assets at original cost as per Appendix No. 26A	...	2,86,50,283.83	
Subsidy from Government	...	93,20,639.00		Sinking Fund as per Appendix No. 28A	...	48,88,351.37	
Sale proceeds up to 31st March 1971	...	33,028.68					
Sinking Fund on Loans	...	48,88,351.37					
Loan Redemption Fund	...	1,09,421.78					
				CAPITAL FUNDS—			
Deduct—	Rs. P.	4,18,42,935.05					
Deficit upto 31st March 1970	57,59,425.73						
Add—Deficit during the year	12,04,947.02						
		69,64,372.75		In Cash call and fixed deposits.	13,39,927.10	13,39,927.10	
Total Rs.	...	3,48,78,562.30		Total Rs.	...	3,48,78,562.30	

Appendix No. 25 B.

IMPROVEMENTS SCHEMES

Slum Clearance Suburbs.

Balance sheet Capital Account as on 31st March 1971.

LIABILITIES.		Rs.	P.	ASSETS.		Rs.	P.
Loan outstanding	...	2,20,57,466.00		Block Account Property and Asset at original cost as per Appendix No. 26B	...	3,00,95,081.76	
Subsidy from Government	...	57,82,779.00		Sinking Fund as per app. 28B	...	21,86,407.51	
Sinking Fund on loan	...	21,86,407.51					
Sale proceeds upto 31st March 1971	...	13,42,828.82		CAPITAL FUND—			
Add—							
Loan Redemption Fund	...	1,35,511.00					
Surplus upto 31st March 1970	39,74,452.99						
Less—Deficit during the year...	11,78,486.43						
		27,95,966.56		In Cash and fixed deposits	... 20,19,469.62	20,19,469.62	
Total Rs.	...	3,43,00,958.89		Total	Rs. ...	3,43,00,958.89	

Appendix No. 26
IMPROVEMENT SCHEMES

Block account showing details of Capital Expenditure upto 31st March 1971.

Particulars	Total Capital Expenditure upto 31st March 1970.	Expenditure during 1970-71.	Total Capital Expenditure upto 31st March 1971.	Particulars.	Total Capital Expenditure upto 31st March 1970	Expenditure during 1970 71.	Total Capital Expenditure upto 31st March 1971.
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
CAPITAL ACCOUNT.				Brought over	27,47,87,961	17,15,069	27,65,03,030
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 ...	94,149	...	94,149
Schedule W Lands ...	13,45,571	...	13,45,571	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
Schedule X Lands ...	16,26,471	...	16,26,471	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
Schedule Z Lands ...	8	...	8	Taking over explosion victim tenements S. P. Sheds at Shantinagar Arthur Road. etc. ...	4,84,801	...	4,84,801
Scheme No.				Police Accommodation Schemes.	27,58,99,017	17,15,069	27,76,14,086
1 First Nagpada ...	29,16,099	...	29,16,099	Scheme No. 14 First Nagpada ...	84,450	...	84,450
2 Princess Street ...	85,08,865	...	85,08,865	16 Wodehouse Road ...	3,22,667	...	3,22,667
3 Sandhurst Road ...	1,16,02,375	...	1,16,02,375	17 Duncan Road ...	58,981	...	58,981
4 Gamdevi ...	22,88,002	...	22,88,002	18 Shepherd Road ...	36,223	...	36,223
5 Dadar-Matunga ...	1,00,53,384	...	1,00,53,384	19 Agripada ...	1,79,120	...	1,79,120
6 Sion-Matunga ...	1,88,23,688	39,936	1,88,63,624	23 Connaught Road ...	79,495	...	79,495
7 Sion-Matunga ...	4,78,538	...	4,78,538	24 Princess Street ...	2,65,953	...	2,65,953
7 Colaba Reclamation ...	26,52,501	...	26,52,501	25 Gamdevi ...	1,29,407	...	1,29,407
8 Mandvi-Koliwada ...	3,127	...	3,127	34 Lamington Road ...	4,61,024	...	4,61,024
11 Agripada ...	68,102	...	68,102	35 Sandhurst Road West ...	1,46,104	...	1,46,104
13 Southern Street Extension—				39 Sanhurst Road East ...	7,58,893	...	7,58,893
East-wards ...	14,11,129	...	14,11,129	40 Byculla ...	8,28,411	...	8,28,411
27 Mathew Road ...	86,57,482	...	86,57,482	44 Maharbaudi ...	2,71,434	...	2,71,434
29 Nowroji Hill ...	1,30,512	...	1,30,512	45 Palton Road ...	5,71,492	...	5,71,492
30 Southern Street Extension—				46 Naigaum ...	5,69,142	...	5,69,142
West-wards ...	91,42,350	...	91,42,350	48 Mahim ...	4,53,032	...	4,53,032
31 Parel Suparibaug Estate ...	50,59,050	...	50,59,050	55 Chinchbunder Road ...	4,32,656	...	4,32,656
32 East Agripada ...	3,28,433	...	3,28,433	55A Mazagaon ...	4,53,560	...	4,53,560
33 Bhatwadi ...	2,91,191	...	2,91,191	63 King's Circle (Matunga) ...	4,82,185	...	4,82,185
36 Lamington Road ...	1,40,51,180	...	1,40,51,180	67 Naigaum (for Armed Police and Recruits) ...	24,42,031	...	24,42,031
37 Sydenham Road ...	5,72,800	...	5,72,800	70 Arthur Road ...	1,58,357	...	1,58,357
41 Undria Street ...	38,97,348	...	38,97,348		91,84,617	...	91,84,617
43 Parel Road Central ...	52,96,220	...	52,96,220	Mill Company's Chawl Schemes			
47 Parel Road North ...	3,053	...	3,053	Scheme No. 42 Spring Mills ...	5,18,990	...	5,18,990
49 Nepean Sea Road—Reclamation ...	40,68,206	...	40,68,206	51 Century Mills ...	1,29,980	...	1,29,980
50 Mazagaon Street ...	2,72,95,202	24,046	2,73,19,248	65 David Mills ...	2,96,852	...	2,96,852
52 Worli Street ...	36,82,045	...	36,82,045		9,45,822	...	9,45,822
53 Foras Road ...	21,79,254	...	21,79,254	Slum Clearance.			
54 Kolbhatwadi ...	18,530	...	18,530	Preliminary Expenses ...	22,481	...	22,481
55 Bellasis Road ...	1,11,43,070	77,610	1,18,20,680	Transit Camps for providing alternative housing accommodation to facilitate Slum Clearance—			
56 Dharavi Street ...	3,61,06,242	4,62,836	3,65,69,078	(i) Construction of 244 tenements, etc. ...	2,58,843	...	2,58,843
57 Sewri-Wadala ...	1,38,36,001	Cr. 377	1,38,35,624	(ii) Construction of 210 tenements, etc. ...	1,81,987	...	1,81,987
58 Worli-Extension ...	6,72,719	...	6,72,719	Carried forward	4,63,311	...	4,63,311
59 Sewri-Koliwada ...	76,18,685	...	76,18,685		28,64,92,767	17,15,069	28,82,07,836
60 Naigaum Street ...	15,68,030	...	15,68,030				
61 Fergusson Road ...	16,18,731	...	16,18,731				
62 Love Lane ...	4,86,705	...	4,86,705				
66 Mahaluxmi ...	7,20,290	...	7,20,290				
69 Widening of Byculla Bridge ...	24,085	...	24,085				
71 Chaupati Street ...	1,889	...	1,889				
Chaupati Reclamation ...	4,380	...	4,380				
East Chaupati Estate ...							
Lump Provision for granting loans to erect buildings on Imp. Scheme lands as provided under Section 354W of the Municipal Act ...	27,725	Cr. 953	26,772				
72 Tripartite Road ...	2,26,684	...	2,26,684				
73 Palton Road ...	10,37,510	...	10,37,510				
74 Sion Overbridge ...	92,457	...	92,457				
Lump Provision for Acquisition in all Schemes ...	6,136	...	6,136				
Lump provision for Housing Accommodation for poorer classes including provision for acquisition. ...	4,94,80,925	11,83,503	5,06,64,428				
Housing of squatters on land Near Mankhurd Railway Station ...	8,38,300	...	8,38,300				
Housing of squatters on lands near Jogeshwari ...	5,57,141	...	5,57,141				
76 Lohar Chawl Gully ...	3,24,612	...	3,24,612				
77 Housing Accommodation—For Fishermen at Mahim Causeway ...	27,181	Cr. 71,532	Cr. 44,351				
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				
Carried forward ...	27,47,87,961	17,15,069	27,65,03,030				

Appendix No. 26—Concl'd.

Particulars.	Total Capital Expenditure upto 31st March 1970.	Expenditure during 1970-71.	Total Capital Expenditure upto 31st March 1971	Particulars	Total Capital Expenditure upto 31st March 1970.	Expenditure during 1970-71.	Total Capital Expenditure upto 31st March 1971
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Brought over ...	28,64,92,767	17,15,069	28,82,07,836	Brought over ...	28,73,68,329	17,15,069	28,90,83,398
Miscellaneous.				Discount on Loans ...	14,53,359	...	14,53,359
Survey of the Island of Bombay...	1,06,046	...	1,06,046	Expenses in connection with the Loan of Rs. 10 lakhs ...	12,227	...	12,227
Administrative Offices, etc.— Building on Esplanade Road near Queen's Statue ...	3,21,562	...	3,21,562	Expenses in connection with the repayment of Rs. 25 Lakhs Loan ...	19,504	...	19,504
Engineer's Office at Matunga ...	1,38,468	...	1,38,468	Expenses in connection with the loan raised in 1957-58 ...	62,048	...	62,048
Central Stores at the back of Frere Fletcher School ...	15,656	...	15,656	Repayment of Rs. 40 lakhs loan of 1919 ...	26,83,469	...	26,83,469
Store yard at Agripada, etc. ...	83,801	...	83,801	Part payment of Rs. 25 Lakhs loan of 1926 ...	19,38,494	...	19,08,494
Workshop for Motor Lorries at Agripada ...	90,368	...	90,368		61,39,101	...	61,39,101
Tools and Plant ...	559	...	559				
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 ...	28,73,68,329	17,15,069	28,90,83,398	Grand Total ...	29,35,07,430	• 17,15,069	29,52,22,499

* This figure includes Rs. 1,03,979 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 1971.

Particulars.	Total Capital Expenditure from 1st April 1956 upto 31st March 1970.	Expenditure during 1970-71.	Total Capital Expenditure upto 31st March 1971.
	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) ...	23,16,796	1,64,244	24,81,040
Total A—Works to be carried out from Municipal Fund	54,96,911	1,64,244	56,61,155
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 ...	18,35,417	1,14,938	19,50,355
Permanent Housing for Slum Population ...	2,05,42,966	4,95,808	2,10,38,774
Total, B—Works to be carried out with the Government Aid	2,23,78,383	6,10,746	2,29,89,129
Grand Total *	2,78,75,294	7,74,990	2,86,50,284

* 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 1971.

Particulars.	Total Capital Expenditure upto 31st March 1970.	Expenditure during 1970-71.	Total Capital Expenditure upto 31st March 1971.
	Rs.	Rs.	Rs.
Slum Clearance—Suburbs.			
A.—Works to be carried out from Municipal Fund.			
Preliminary Expenses (Staff and Contingencies) ...	1,65,45,060	1,44,351	1,66,89,411
Total, A—Works to be carried out from Municipal Fund	1,65,45,060	1,44,351	1,66,89,411
B.—Works to be carried out with the Govt. Aid.			
(b) Chawl and S.P. Chawls. ...	1,33,95,422	10,246	1,34,05,668
Total, B—Works to be carried out with the Govt Aid.	1,33,95,422	10,246	1,34,05,668
Grand Total	2,99,40,482	1,54,597	3,00,95,079

Appendix IMPROVEMENT

*Statement showing outstanding Loans of the Bombay Improvement Trust due by the
payable for the year 1970-71, 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 1970		Amount raised in 1970-71.		Total	
			Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
	<i>Loans raised from Government.</i>									
1	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	1,63,8,021	91			1,63,89,021	51
	Total loans raised from Government		4,17,94,178	06	1,63,89,021	91			1,63,89,021	91
	<i>Loans raised from the Public.</i>									
1	Rs. 50 lakhs Rupee Goupon Debenture Loan 1899 ...		50,00,000	00						
2	Rs. 30 lakhs Loan 1901 ...	4 per cent.	30,00,000	00	10,000	00			10,000	00
3	Rs. 30 lakhs Loan 1902 ...	4 Do.	30,00,000	00	6,500	00			6,500	00
4	Rs. 60 lakhs Loan 1903 ...	4 Do.	60,00,000	00	11,500	00			11,500	00
5	Rs. 50 lakhs Loan 1904 ...	4 Do.	50,00,000	00	36,000	00			36,000	00
6	Rs. 30 lakhs Loan 1905 ...	4 Do.	30,00,000	00	6,800	00			6,800	00
7	Rs. 20 lakhs Loan 1906 ...	4 Do.	20,00,000	00	11,500	00			11,500	00
8	Rs. 15 lakhs Loan 1907 ...	4 Do.	15,00,000	00	18,500	00			18,500	00
9	Rs. 30 lakhs Loan 1908 ...	4 Do.	30,00,000	00	61,500	00			61,500	00
10	Rs. Sterling Coupon Debenture Loan 1909 (£ 5,66,600)	4 Do.	84,99,000	00						
11	Rs. Sterling Coupon Debenture Loan 1910 (£ 3,33,000)	4 Do.	49,95,000	00	49,95,000	00			49,95,000	00
12	Rs. 25 lakhs Loan 1912 ...	4 Do.	25,00,000	00	25,00,000	00			25,00,000	00
13	Rs. 18 lakhs Loan 1913 ...	4 Do.	18,00,000	00	18,00,000	00			18,00,000	00
14	Rs. 50 lakhs Loan 1914 ...	4 Do.	50,00,000	00	50,00,000	00			50,00,000	00
15	Rs. 25 lakhs Loan 1916 ...	4 Do.	25,00,000	00	25,00,000	00			25,00,000	00
16	Rs. 40 lakhs Loan 1919 ...	5 Do.	40,00,000	00						
17	Rs. 70 lakhs Loan 1920 ...	6 Do.	70,00,000	00	† 66,00,000	00			66,00,000	00
18	Rs. 25 lakhs Loan 1927 ...	4 Do.	25,00,000	00	25,00,000	00			25,00,000	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 ...		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 ...		82,00,000	00	1,72,00,000	00			1,72,00,000	00
5	Rs. 30 lakhs Loan March 1923 ...		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 ...		20,00,000	00	89,00,000	00			89,00,000	00
8	Rs. 29 lakhs Loan 5th March 1924 ...		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 ...		60,00,000	00	1,00,00,000	00			1,00,00,000	00
11	Rs. 20 lakhs Loan 2nd January 1925 ...		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 ...		15,00,000	00	70,00,000	00			70,00,000	00
14	Rs. 35 lakhs Loan 2nd January 1926 ...		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 lakh 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 1969-70 ...	6 Do.								
27	Rs. 50 Lakhs loan 1970-71 ...	6 Do.								
	Total Loans raised from the Public & Internal		18,20,60,500	00	13,78,23,000	00			13,78,23,000	00
	Grand Total		22,38,54,678	06	15,42,12,021	91			15,42,12,021	91

* Loans at serial Nos. 1 to 18 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 1970, on the different Loans, the amount Balances outstanding on 31st March 1971.

Amount repaid in 1970-71.		Balance due on 31st March 1971.		Interest outstanding on 1st April 1970.		Interest payable in 1970-71.		Total interest due.		Deduct interest paid during the year.		Outstanding balance on 31st March 1971.	
8		9		10		11		12		13		14	
Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
12,53,320	19	1,51,35,701	72			5,42,787	78	5,42,787	78	5,42,787	81		03
12,53,320	19	1,51,35,701	72			5,42,787	78	5,42,787	78	5,42,787	81		03
...	...	...	...	3,938	96	...	...	3,938	96	3,938	96	...	...
18,000	00	† ...	...	709	03	...	...	709	03	709	03	...	...
6,500	00	† ...	...	1,824	09	...	...	1,824	09	1,824	09	...	...
11,500	00	† ...	...	2,835	61	...	...	2,835	61	2,835	61	...	...
36,000	00	† ...	...	17,608	92	...	...	17,608	92	17,608	92	...	...
6,000	00	...	...	1,939	77	...	...	1,939	77	1,939	77	...	...
11,500	00	...	...	2,857	22	...	...	2,857	22	2,857	22	...	...
18,500	00	...	...	6,710	66	...	...	6,710	66	6,710	66	...	...
61,500	00	...	...	21,219	64	...	...	21,219	64	21,219	64	...	...
...	...	...	...	460	00	...	...	460	00	460	00	...	...
49,95,000	00	...	...	349	00	2,82,761	00	2,83,101	00	1,20,817	56	* 1,62,283	44
...	...	25,00,000	00	2,990	87	1,00,000	00	1,02,990	87	99,303	33	3,687	54
...	...	18,00,000	00	6,297	35	72,000	00	78,297	36	71,437	67	6,859	69
...	...	50,00,000	00	10,536	13	2,00,000	00	2,10,536	13	1,98,501	00	12,035	13
...	...	25,00,000	00	...	...	1,00,000	00	1,00,000	00	1,00,000	00	...	...
...	...	...	...	9	35	...	...	9	35	9	35	...	...
...	...	66,00,000	00	...	...	3,96,000	00	3,96,000	00	3,96,000	00	...	...
25,00,000	00	...	...	5,580	00	1,00,000	00	1,05,580	00	81,413	33	* 24,166	67
...	...	45,00,000	00	...	...	2,02,500	00	2,02,500	00	2,02,500	00	...	...
...	...	1,72,00,000	00	...	...	7,74,000	00	7,74,000	00	7,74,000	00	...	...
...	...	89,00,000	00	...	...	4,00,500	00	4,00,500	00	4,00,500	00	...	...
...	...	1,00,00,000	00	...	...	4,50,000	00	4,50,000	00	4,50,000	00	...	...
...	...	70,00,000	00	...	...	3,15,000	00	3,15,000	00	3,15,000	00	...	...
...	...	19,28,000	00	...	...	77,120	00	77,120	00	77,120	00	...	...
...	...	27,38,500	00	...	...	1,16,387	00	1,16,387	00	1,16,386	24	0	76*
...	...	50,00,000	00	...	...	2,00,000	00	2,00,000	00	2,00,000	00	...	...
...	...	70,00,000	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	...	...
...	...	1,00,00,000	00	...	...	4,50,000	00	4,50,000	00	4,50,000	00	...	...
...	...	50,00,000	00	...	...	2,37,500	00	2,37,500	00	2,37,500	00	...	...
...	...	1,00,00,000	00	...	...	6,00,000	00	6,00,000	00	6,00,000	00	...	...
...	...	50,00,000	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	...	...
...	...	75,00,000	00	...	...	4,50,000	00	4,50,000	00	4,50,000	00	...	...
...	...	...	...	...	...	1,50,000	00	1,50,000	00	...	...	* 1,50,000	00
...	...	...	...	...	...	1,50,000	00	1,50,000	00	...	...	* 1,50,000	00
76,56,500	00	13,01,66,500	00	85,857	61	69,33,768	00	70,19,625	61	65,10,592	38	22,582	36
89,89,820	19	14,53,02,201	72	† 85,857	61	74,76,555	78	75,62,413	39	70,53,380	19	* 4,85,450	87
...	...	...	...	...	...	...	...	...	...	...	...	** 22,582	36
...	...	...	...	...	...	...	...	...	...	...	...	** 4,85,450	87
...	...	...	...	...	...	...	...	...	...	...	...	** 22,582	36
...	...	...	...	...	...	...	...	...	...	...	...	** 4,85,450	87

Amount of loan outstanding on 1st April 1963.

Amount of debentures held by Govt. on 1st April 1963.

Amount of debentures re-purchased during 1963-64.

Amount of debentures held by Govt. on 31st March 1964.

Amount of debentures held by the Corporation on 31st March 1964

* To be treated as savings.

† This is the total figure of Renewed Grant under Sst 'A', 'A-1' & 'B' & 'C'.

** This is the total figure of Outstanding balance required for renewal under Sst. 'A', 'A-1' & Sst 'B' for the next year. (1971-72).

†† Short provisions of Rs. 0.03 in the interest grant have been met from the balance available at Sr. No. 26.

	Rs.
(a)	45,00,000
(b)	1,72,00,000
(c)	89,00,000
(d)	1,80,00,000
(e)	70,00,000
Total	4,76,00,000

	Rs.
...	...
...	...
...	...
...	...
...	...
...	...

	Rs.
...	...
...	...
...	...
...	...
...	...
...	...

	Rs.
...	...
...	...
...	...
...	...
...	...
...	...

	Rs.
...	45,00,000
...	1,72,00,000
...	89,00,000
...	1,80,00,000
...	70,00,000
Total	4,76,00,000

APPENDIX
SLUM CLEARANCE
(A—CITY AND

Statement showing outstanding Loans of the Slum clearance Scheme (A-City & amount payable for the year 1970-71, the amounts paid during

Serial No.	Particulars of Loans	Date of Issue	Rate of interest per Annum	Balance due on 1st April 1970	Amount raised in 1970-71
(1)	(2)	(3)	(4)	(5)	(6)
	A.—City			Rs. P.	Rs.
	LOANS RAISED FROM GOVT. PROGRAMME NO. 1				
1	Rs. 9,50,997 Loan (1957-58) ...	28-3-1958	4½%	9,50,997 00	...
2	Rs. 6,12,000 Loan (1958-59) ...	29-3-1959	Do.	6,12,000 00	...
3	Rs. 2,73,003 Loan (1959-60) ...	4-8-1959	Do.	2,73,003 00	...
4	Rs. 1,85,000 Loan (1960-61) ...	28-3-1961	Do.	1,85,000 00	...
5	Rs. 5,04,000 Loan (1961-62) ...	28-3-1962	Do.	4,68,000 00	...
6	Rs. 2,64,529 Loan (1962-63) ...	13-3-1963	5½%	2,64,529 00	...
7	Rs. 2,50,971 Loan (1963-64) ...	27-3-1964	Do.	2,50,971 00	...
8	Rs. 47,250 Loan (1964-65) ...	27-1-1965	Do.	47,250 00	...
9	Rs. 2,20,355 Loan (1964-65) ...	13-3-1965	Do.	2,20,355 00	...
10	Rs. 50,504 Loan (1965-66) ...	31-8-1965	5½%	50,504 00	...
11	Rs. 73 Loan (1965-66) ...	16-2-1966	Do.	73 00	...
12	Rs. 568 Loan (1968-69) @ ...	30-8-1968	Do.	568 00	...
	Total 1st Programme			33,23,250 00	...
	LOANS RAISED FROM GOVT. PROGRAMME NO. 2				
13	Rs. 94,00 Loan (1961-62) ...	23-3-1962	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%	8,19,296 10	...
15	Rs. 62,037 Loan (1962-63) ...	13-3-1963	5½%	57,070 26	...
16	Rs. 9,963 Loan (1963-64) ...	27-3-1964	Do.	9,165 42	...
	Total 3rd programme			8,85,531 78	...
	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%	1,53,900 00	...
20	Rs. 17,100 Loan (1967-68) @ ...	1-3-1968	Do.	17,100 00	...
21	Rs. 57,000 Loan (1968-69) @ ...	12-12-1968	Do.	57,000 00	...
	Total 6th programme			2,28,000 00	...
	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	Rs. 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			21,17,800 00	3,91,298 00
	LOANS RAISED FROM GOVT. PROGRAMME NO. 10				
27	Rs. 1,62,343 from (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	...
31(a)	Rs. 13,725 Loan 1970-71 .. @ ..	31-3-1971	6.50%	..	13,725 00
	Total 11th Programme			1,45,362 00	13,725 00
	Total Loan from Govt.			75,73,424 78	4,05,023 00
	LOANS FROM PUBLIC				
32	Rs. 10 Lakhs Loan 1956-57 ...	29-3-1957	4%	10,00,000 00	...
33	Rs. 20 Lakhs Loan 1957-58 ...	15-3-1958	4½%	20,00,000 00	...
34	Rs. 10 Lakhs Loan 1958-59 ...	30-3-1959	4%	10,00,000 00	...
35	Rs. 25 Lakhs Loan 1959-60 ...	15-2-1960	4%	25,00,000 00	...
36	Rs. 50 Lakhs Loan 1961-62 ...	1-2-1962	4½%	50,00,000 00	...
37	Rs. 30 Lakhs Loan 1964-65 ...	25-3-1965	4½%	30,00,000 00	...
38	Rs. 50 Lakhs Loan 1966-67 ...	1-3-1967	6%	50,00,000 00	...
39	Rs. 50 Lakhs Loan 1969-70 and 1970-71 ..	..	..	..	..
	Total Loans from Public			1,95,00,000 00	...
	Grand Total			2,70,73,424 78	4,05,023 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.

V2311,614 11

No. 29A

SCHEME (ACCOUNT)

B—SUBURBS)

B-Suburbs) Budget B, the interest outstanding on 1st April 1970, on the different loans, the the year and the balances outstanding on 31st March 1971.

Total		Amount repaid in 1970-71		Balance due on 31st March 1971		Interest outstanding on 1st April 1970		Interest payable in 1970-71		Total interest due		Deduct interest paid during the year		Outstanding balance on 31st March 1971	
(7)		(8)		(9)		(10)		(11)		(12)		(13)		(14)	
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
9,50,997	00	...	...	9,50,997	00	...	...	42,795	00	42,795	00	42,794	86	0	14*
6,12,000	00	...	...	6,12,000	00	...	...	27,540	00	27,540	00	27,540	00	...	...
2,73,003	00	...	...	2,73,003	00	...	...	12,286	00	12,286	00	12,285	13	0	87*
1,85,000	00	...	...	1,85,000	00	...	...	8,325	00	8,325	00	8,325	00	...	...
4,68,000	00	...	...	4,68,000	00	...	...	21,060	00	21,060	00	21,060	00	...	...
2,64,529	00	...	...	2,64,529	00	...	...	13,888	00	13,888	00	13,887	77	0	23*
2,50,971	00	...	...	2,50,971	00	...	...	13,176	00	13,176	00	13,175	98	0	02*
47,250	00	...	...	47,250	00	...	...	2,481	00	2,481	00	2,480	62	0	38
2,20,355	00	...	...	2,20,355	00	...	...	11,569	00	11,569	00	11,568	64	0	36*
50,504	00	...	...	50,504	00	...	...	2,904	00	2,904	00	2,903	98	0	02*
73	00	...	...	73	00	...	...	5	00	5	00	4	20	0	80*
568	00	...	...	568	00	...	...	33	00	33	00	...	...	33	00
33,23,250	00	...	...	33,23,250	00	...	...	1,56,062	00	1,56,062	00	1,56,026	18	35	82**
94,500	00	...	...	94,500	00	...	...	4,253	00	4,253	00	4,252	50	0	50*
94,500	00	...	...	94,500	00	...	...	4,253	00	4,253	00	4,252	50	0	50*
8,19,296	10	18,383	68	8,00,912	42	...	...	36,868	32	36,868	32	36,868	32	...	...
57,070	26	1,155	13	55,915	13	...	...	2,996	19	2,996	19	2,996	19	...	...
9,165	4	185	50	8,979	92	...	...	481	18	481	18	481	18	...	...
8,85,531	7	19,724	31	8,65,807	47	...	...	40,345	69	40,345	69	40,345	69	...	...
3,69,600	00	...	...	3,69,600	00	...	...	19,404	00	19,404	00	19,404	00	...	...
1,84,800	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	...	...
1,53,900	00	2,179	74	1,51,720	26	...	...	8,850	00	8,850	00	32,778	59	23,928	59†
17,100	00	242	20	16,852	80	...	...	984	00	984	00	2,746	57	1,726	57†
57,000	00	807	31	56,192	69	...	...	3,278	00	3,278	00	6,555	00	3,277	00†
2,28,000	00	3,229	25	2,24,770	75	...	...	13,112	00	13,112	00	42,080	16	28,938	16†
6,10,818	00	...	...	6,10,818	00	...	...	35,123	00	35,123	00	...	...	35,123	00*
5,73,838	00	...	...	5,73,838	00	...	...	32,996	00	32,996	00	...	...	32,996	00*
7,28,110	00	...	...	7,28,110	00	...	...	41,867	00	41,867	00	...	...	41,867	00
1,00,518	00	...	...	1,00,518	00	...	...	5,780	00	5,780	00	...	...	5,780	00
1,04,516	00	...	...	1,04,516	00	...	...	...	...	...	...	...	...	...	...
3,91,298	00	...	...	3,91,298	00	...	...	...	...	...	...	...	...	...	...
25,09,098	00	...	...	25,09,098	00	...	...	1,15,766	00	1,15,766	00	...	...	1,15,766	00*
1,62,343	00	...	...	1,62,343	00	...	...	9,335	00	9,335	00	...	...	9,335	00*
3,254	00	...	...	3,254	00	...	...	188	00	188	00	...	...	188	00*
58,984	00	...	...	58,984	00	...	...	3,392	00	3,392	00	...	...	3,392	00*
2,24,581	00	...	...	2,24,581	00	...	...	12,915	00	12,915	00	...	...	12,915	00*
69,426	00	...	...	69,426	00	...	...	3,992	00	3,992	00	...	...	3,992	00*
75,936	00	...	...	75,936	00	...	...	11,308	00	11,308	00	...	...	11,308	00*
13,725	00	...	...	13,725	00	...	...	7,181	31	7,181	31	...	...	7,181	31*
1,59,087	00	...	...	1,59,087	00	...	...	22,481	31	22,481	31	...	...	22,481	31*
79,78,447	78	22,953	55	79,55,494	22	...	...	3,94,041	00	3,94,041	00	2,71,810	53	1,51,198	63*
...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,963	16†
10,00,000	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	...	...
..	..	...	...	..	..	...	...	2,25,000	00	2,25,000	00	..	..	2,25,000	00*
1,95,00,000	00	...	...	1,95,00,000	00	...	...	11,45,000	00	11,45,000	00	9,20,000	00	2,25,000	00
2,74,78,447	78	22,953	56	2,74,55,494	22	...	...	15,39,041	00	15,39,041	00	11,91,810	53	* 3,76,138	63
...	...	...	...	...	...	...	...	...	...	...	...	...	...	28,968	16†

* To be treated as savings.

z The Loan outstanding as on 31-3-1971 is shown Rs. 2,74,91,494.22 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 has been met from total saving hence saving during the year is Rs. 3,47,230.47.

Div.—I

APPENDIX
SLUM CLEARANCE
(A—CITY AND

Statement showing outstanding Loans of the Slum clearance Scheme (A-City & amount payable for the year 1970-71 the amounts paid during

Serial No.	Particulars of Loans	Date of Issue	Rate of interest per Annum	Balance due on 1st April 1970	Amount raised in 1970-71
(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	5¾%	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%	1,47,472.96	...
8	Rs. 9,72,000 Loan (1962-62)	28-3-1962	Do.	8,84,837.48	...
9	Rs. 1,00,182 Loan (1962-63)	13-3-1963	5½%	92,161.29	...
10	Rs. 7,818 Loan 1963-64	27-3-1964	Do.	7,192.24	...
	Total 3rd Programme			11,31,663.97	...
	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	5¾%	1,31,267.00	...
15	Rs. 1,57,357 Loan (1965-66)	16-2-1966	5¾%	1,53,917.03	...
16	Rs. 1,07,739 Loan (1965-66)	12-3-1966	5¾%	1,07,739.00	...
17	Rs. 1,06,343 Loan (1966-67)	1-12-1966	5¾%	1,06,343.00	...
18	Rs. 1,28,866 Loan (1966-67)	30-3-1967	5¾%	1,28,866.00	...
19	Rs. 66,705 Loan (1967-68)	23-2-1968	5¾%	66,705.00	...
20	Rs. 12,159 Loan (1967-68)	1-3-1968	5¾%	12,159.00	...
21	Rs. 22,388 Loan (1968-69) @	12-12-1968	5¾%	22,388.00	...
22	Rs. 3,519 Loan (1968-69) @	31-3-1969	5¾%	3,519.00	...
23	Loan 1969-70 to 1970-71 @ ... ..	...	...	...	...
	Total 4th Programme			17,83,014.00	...
	Total Loans from Govt.			45,82,640.97	...
	LOAN FROM PUBLIC				
24	Rs. 50 Lakhs Loan 1962-63	25-3-1963	4½%	50,00,000.00	...
25	Rs. 50 Lakhs Loan 1966-67	31-3-1967	6%	50,00,000.00	...
26	Rs. 50 Lacs Loan (1967-68)	30-3-1968	6%	50,00,000.00	...
27	Rs. 25 Lakhs Loan (1968-69)	29-3-1967	6%	25,00,000.00	...
28	Rs. 10 Lakhs Loan (1969-70) ... ..	...	...	...	...
	Total Loan from Public			1,75,00,000.00	...
	Grand Total			2,20,82,640.97	...

No. 29A—concl'd.

SCHEME (ACCOUNT)

B—SUBURBS)

B-Suburbs) Budget B, the interest-outstanding on 1st April 1970, on the different loans, the the year and the balances outstanding on 31st March 1971.

Total	Amount repaid in 1970-71	Balance due on 31st March 1971	Interest outstanding on 1st April 1970	Interest payable in 1970-71	Total interest due	Deduct interest paid during the year	Outstanding 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*
1,67,625.00	...	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	...	667.00	667.00	...	667.00*
16,67,963.00	...	16,67,963.00	...	80,945.00	80,945.00	80,276.61	* 668.39
1,47,472.96	3,309.14	1,44,163.82	...	6,636.28	6,636.28	6,635.28	...
8,84,837.48	19,854.89	8,64,981.59	...	39,817.69	39,817.69	39,817.69	...
92,161.29	1,865.40	90,295.89	...	4,838.47	4,838.47	4,838.47	...
7,192.24	145.54	7,046.70	...	377.59	377.59	377.59	...
11,31,663.97	25,174.97	11,06,489.00	...	51,670.03	51,670.03	51,670.03	...
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*
1,07,739.00	...	1,07,739.00	...	6,195.00	6,195.00	6,194.99	0.01*
1,06,343.00	...	1,06,343.00	...	6,115.00	6,115.00	...	6,115.00*
1,28,866.00	...	1,28,866.00	...	7,410.00	7,410.00	...	7,410.00*
66,705.00	...	66,705.00	...	3,836.00	3,836.00	...	3,836.00*
12,159.00	...	12,159.00	...	700.00	700.00	...	700.00*
22,388.00	...	22,388.00	...	1,288.00	1,288.00	...	1,288.00*
3,519.00	...	3,519.00	...	203.00	203.00	...	203.00*
...	...	...	...	6,038.00	6,038.97	...	6,038.97*
17,83,014.00	...	17,83,014.00	...	1,03,317.97	1,03,317.97	77,723.90	* 25,594.07
45,82,640.97	25,74.97	45,57,466.00	...	2,35,933.00	2,35,933.00	2,09,670.54	* 26,262.46
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	...
...	...	...	...	90,000.00	90,000.00	...	90,000.00
1,75,00,000.00	...	1,75,00,000.00	...	10,65,000.00	10,65,000.00	9,75,000.00	90,000.00*
2,20,82,640.97	25,174.97	2,20,57,466.00	...	13,00,933.00	13,00,933.00	11,84,670.54	* 1,16,262.46

* To be treated at savings.

APPENDIX No. 31
EDUCATION FUND
Revenue Account for the year ended 31st March 1971.

Particulars	Total		Particulars	Total	
	Rs.	P.		Rs.	P.
To Revenue Expenditure	8,81,94,655	86	By Revenue Receipts	8,93,04,923	10
To Balance being surplus for the year	11,10,267	24			
Total	8,93,04,923	10	Total	8,93,04,923	10
To Revenue Expenditure to be incurred in 1971-72 and provided for as Renewed Grants	53,02,453	00	By Surplus Revenue Fund as at 1st April 1970	1,00,43,634	60
To Balance being Surplus Revenue Fund as at 31st March 1971	93,80,495	84	.. Revenue of previous years reserved for the year 1970-71	35,29,047	00
			.. Surplus for the year	11,10,267	24
Total	1,46,82,948	84	Total	1,46,82,948	84

APPENDIX No. 35

EDUCATION FUND

Capital Fund Balance Sheet as at 31st March 1971.

Liabilities	Rs. P.		Assets	
	Rs.	P.	Rs.	P.
Loans Outstanding—			Block Account—	
Due to Public—	7,71,50,000	00	Loan Funds—	
			Property and Assets at original cost	8,74,85,684 28
Trust Fund—			Trust Fund—	
			Expenditure upto 31-3-1971 ...	2,08,755 42
			Investment—	
			Sinking Fund—	*3,69,87,926 66
Surplus—			Loan Fund—	
Sinking Fund ...	3,69,87,926	66	In Fixed Deposit ...	16,50,000 00
Loan Redemption Fund ...	1,10,00,000	00	In Call Deposit ...	...
Contribution from Trust Fund ...	2,08,755	42	In Cash ...	14,315 72
Contribution from Government ...	10,00,000	00		
Grand Total ...	12,63,46,682	08	Grand Total...	12,63,46,682 08

*Statement showing Capital Expenditure upto 31st March 1971:—***Education Fund.**

Loan Funds.	Total Capital Expenditure upto 31st March, 1970.	Expenditure during 1970-71 out of Loan Funds.	Capital Expenditure upto 31st March 1971.
	Rs.	Rs.	Rs.
City Section ...	5,04,62,021	14,28,043	5,18,90,064
Suburban Section ...	2,38,66,151	7,30,735	2,45,96,886
Extended Suburban Section ...	1,03,80,491	3,73,749	1,07,54,240
Discount and other charges ...	2,44,495	...	2,44,495
	8,49,53,158	25,32,527	8,74,85,685
Trust Fund ...	2,08,755	...	2,08,755
Grand Total ...	8,51,61,913	25,32,527	8,76,94,440

* Face and Market values of Securities held in the Sinking Fund, was Rs. 3,70,45,630 and Rs. 3,66,95,165 respectively, Municipal Debentures being valued at par.

APPENDIX No. 37

EDUCATION FUND

Statement showing outstanding loans due by the Municipality, the interest outstanding on 1st April 1970 on the different Loans, the amount payable for the year 1970-71, the amount paid by the State Bank of India, and in Office during that year and the balances outstanding on 31st March 1971.

Particulars of Loans.	Rate of Interest.	Balance due on 1-4-70	Amount raised 1970-71.	Total.	Amount repaid in 1970-71.	Balance due on 31st March 1971.	Interest outstanding on 1-4-1970.	Interest payable in 1970-71.	Total Interest due.	Deduct Interest paid by the State Bank of India and in Office.	Outstanding balance March 1971
(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 15 Lakhs Education Loan of 1954-55 ...	4 per cent.	3,500	...	3,500	3,500	...	924.00	...	924.00	924.00	...
(2) The 20 lakhs Education Loan of 1955-56 ...	4 per cent.	40,000	...	40,000	40,000	...	5,870.00	...	5,870.00	5,870.00	...
(3) The 30 lakhs Education Loan of 1958-59 ...	4½ per cent.	30,00,000	...	30,00,000	30,00,000	...	22,677.87	1,27,500.00	1,50,177.87	84,621.62	65,556.25
(4) The 50 Lakhs Education Loan of 1959-60 ...	4 per cent.	50,00,000	...	50,00,000	...	50,00,000	...	2,00,000.00	2,00,000.00	2,00,000.00	...
(5) The Rs. 38.5 Lakhs Education Loan of 1960-61 ...	4½ per cent.	38,50,000	...	38,50,000	...	38,50,000	6,375.00	1,63,625.00	1,70,000.00	1,70,000.00	...
(6) 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	...
(7) 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	...
(8) 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	...
(9) The Rs. 75 Lakhs Education Loan of 1962-63 ...	4½ per cent.	75,00,000	...	75,00,000	...	75,00,000	3,752.43	3,56,250.00	3,60,002.43	3,53,685.00	6,317.43
(10) 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	...
(11) The 137.5 Lakhs Education Loan 1963-64 ...	4½ per cent.	1,37,50,000	...	1,37,50,000	...	1,37,50,000	332.50	6,53,125.00	6,53,457.50	6,52,887.50	570.00
(12) 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	...
(13) 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	...
(14) The Rs. 50 Lakhs Education Loan, 1965-66 ...	5½ per cent.	50,00,000	...	50,00,000	...	50,00,000	...	2,87,500.00	2,87,500.00	2,87,500.00	...
(15) 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	...
(16) 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	...
(17) 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	...
(18) The Rs. 27.5 Lakhs Education Loan 1968-69 ...	6 Per cent.	27,50,000	...	7,50,000	...	27,50,000	15,000.00	1,65,000.00	1,80,000.00	1,80,000.00	...
(19) 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	...
(20) 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	1,58,460.00	6,540.00
(21) The Rs. 16.5 lakhs Education Loan of 1970-71 ...	6 per cent.	...	16,50,000	16,50,000	...	16,50,000	...	...	...	...	...
(22) The Rs. 16.5 lakhs Education Loan 1970-71 ...	6 per cent.	...	16,50,000	16,50,000	...	16,50,000	...	...	...	...	...
Loan from Public.		7,68,93,500	33,00,000	8,01,93,500	30,43,500	7,71,50,000	54,931.80	37,97,375.00	38,52,306.80	37,73,323.12	78,983.68

APPENDIX No. 40

EDUCATION FUND

Statement showing the amounts of Receipts and Expenditure respectively credited and debited to the Education Fund during the year 1970-71 and the balance at the credit of the Fund at the close of the year 1970-71 (i.e., 31st March 1971).

	Rs.	P.
RECEIPTS—A.—REVENUE ACCOUNT		
(1) Fees and Fines from Municipal Schools	...	...
(1A) Education Cess	1,43,06,168	39
(2) Contribution towards Primary Education from Municipal Corporation under Section 126C(c) of the Bombay Municipal Corporation Act—		
(i) From Budget 'A' Div. I	2,00,06,380	00
(ii) From Budget 'A' Div. II	77,80,290	00
(iii) From Budget 'A' Div. III	27,43,200	00
(2A) Special Contribution from—		
(i) From Budget 'A' Division I	3,60,00,000	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	71,95,460	00
(4) Interest on Endowment and Investments	9,036	91
(5) Rent and other proceeds of properties	1,42,912	89
(6) Interest and Profits on Investments of Surplus, Loan and other balances	5,21,019	50
7) Miscellaneous Receipts	6,00,455	41
Total—Revenue Receipts	8,93,04,923	10
RECEIPTS—B.—CAPITAL ACCOUNT		
(1) New Loan	33,00,000	00
(2) Trust Fund	...	...
Total—Capital Receipts	33,00,000	00
RECEIPTS—C.—SUSPENSE ACCOUNT		
Advances—Municipal Officers—		
(a) Standing Advances for Contingent Expenditure	2,822	75
(b) Motor Cars and Motor Cycles to Officers	8,305	00
(c) Dishonoured Cheques	27,405	54
(d) Loan scholarships to Municipal Teachers Under Training	48,244	95
(e) Advances for meeting the cost of repairs to private buildings housing municipal schools under Section 489/499 recoverable from the landlords.	2,536	64
Advance for purchase of Plant and Machinery	...	...
Sundries—Miscellaneous Advances	4,26,558	91
State Bank of India and other Local Banks Paper and Cash Account—including Paper Deposits in Office Custody—		
Sinking Fund (Paper and Cash) Account	30,44,110	31
Endowment Fund (Paper and Cash) Account	30,080	86
Loan Fund (Paper and Cash) Account	32,526	61
Surplus Fund (Paper and Cash) Account	71,06,440	50
Sundry Deposits (Paper and Cash) Account	1,05,26,500	00
Deposit Account	25,73,937	29
Provident Fund Recoveries	88,27,214	02
Provident Fund Investments	34,22,606	50
Cash Bills Outstanding	...	...
Cheques Payable	9,26,85,293	77
Wages Deposit Account	...	...
Municipal Contribution Receivable	12,42,332	66
Endowment Fund Account	4,019	14
Sinking Fund Account—Education	65,81,219	13
Municipal Contribution payable	17,66,468	00
Education Loan Interest Warrants Payable Account	20,35,497	27
Interest Receivable Account	...	...
Interest accrued but not paid	71,000	00
Investment of Surplus Monies in Public Securities	...	...
Advances from Surplus Monies for financing Capital Expenditure pending raising of Loan	...	...
Loan Redemption Fund Account	30,43,500	00
Unclaimed due and deposits refundable Account	71,078	45
Total—Suspense Receipts	14,35,79,698	30

APPENDIX No. 40—(Contd.)

	Rs.	P.
EXPENDITURE—A. REVENUE ACCOUNT		
A.—General Supervision and Administration	17,29,747	42
B.—Municipal Primary Schools	6,74,99,543	47
C.—Private Primary Schools	16,49,428	59
D.—Medical Inspection of School Children	11,22,390	45
E.—Enforcement of Compulsion	...	...
F.—Educational Activities	8,01,749	68
G.—Pension and Provident Fund	62,34,300	00
H.—Dearness Allowance	...	...
I.—New Works	2,51,402	53
J.—Debt Charges	85,44,470	02
K.—Training Facilities for Municipal Teachers	20,860	51
L.—Proportionate Cost of Collection of Education Cess	2,35,386	47
M.—Extra-Curricular Activities	1,05,376	72
Total—Revenue Expenditure	8,81,94,655	86
EXPENDITURE—B.—CAPITAL ACCOUNT		
(1) Loan Funds—	25,32,526	61
(2) Trust Fund	...	...
Total—Capital Expenditure	25,26,526	61
EXPENDITURE—C.—SUSPENSE ACCOUNT		
Advances—Municipal Officers—		
(a) Standing Advances for Contingent expenditure	4,090	00
(b) Motor Cars and Motor Cycles to Officers	30,000	00
(c) Dishonoured Cheques	26,125	54
(d) Loan Scholarship to Municipal Teachers under Training	331	98
(e) Advance for meeting the cost of repairs to private buildings housing Municipal Schools under Section 489/499 recoverable from the landlords.	22,403	21
Advance for purchase of Plant and Machinery	...	...
Sundries—Miscellaneous Advances	6,75,867	82
State Bank of India and other Local Banks Paper and Cash Account—including paper Deposits in Office Custody—		
Sinking Fund (Paper and Cash) Account	65,77,759	75
Endowment Fund (Paper and Cash) Account	34,100	00
Loan Fund (Paper and Cash) Account	...	...
Surplus Fund (Paper and Cash) Account	70,92,737	89
Sundry Deposits Account	1,81,51,500	00
Deposit Account	28,75,126	15
Provident Fund Payments	88,27,214	02
Provident Fund Investments	34,22,606	50
Cash Bills Outstanding	...	...
Cheques Payable	9,26,03,432	02
Wages Deposit Account	...	...
Municipal Contribution Receivable	1,85,489	16
Municipal Contribution Payable (Refundable)	...	...
Endowment Fund Account	...	...
Sinking Fund Account Education	30,47,569	69
Education Loan Interest Warrants—Payable Account	20,34,473	15
Interest Accrued but not paid	18,062	50
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	30,43,500	00
Total—Suspense Expenditure	14,86,72,389	38

APPENDIX No. 40—(Concl.)

SUMMARY

Receipts.			Disbursements	
Rs.	P.		Rs.	P.
29,62,293	54	Balance on 1st April 1970—		
8,93,04,923	10	A.—Revenue Account	8,81,94,655	86
33,00,000	00	B.—Capital Account	25,32,526	61
14,35,79,698	30	C.—Suspense Account	14,86,72,389	38
23,61,84,621	40	*Balance on 31st March 1971	23,93,99,571	85
			Dr. 2,52,656	91
23,91,46,914	94	Total	23,91,46,914	94
Bank's Reconciliation—			Rs.	P.
*Balance as per Bank's Pass Book			1,83,705	19
Add—Revenue sent to the Bank on 31st March 1971 but acknowledged on 1st April 1971.			...	
			1,83,705	19
Less—Uncashed cheques			Dr. 5,42,401	94
Balance as per Day Book (Col. No. 10)			Dr. 3,58,696	75
		Rs.		
Balance in Office in Government Promissory Notes etc.		27,700	00	
Balance in Office in Cash		140	87	
Collection kept in office		78,198	97	
			1,06,039	84
			Dr. 2,52,656	91

ASSESSMENT AND 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 over that of the last year was about Rs. 4 crores and 41 lakhs. Similarly there was an increase of about Rs. 38 lakhs and eighty six thousand in the demand for wheel tax also.

Collection of property taxes rose from Rs. 27,36,96,574 to Rs. 30,38,53,740 that is, during the year under report Rs. 3,01,57,166 were collected more than the amount of taxes collected for the last year. The percentage of collection to the effective demand, so far as the City proper is concerned is 90.50 whereas the same in respect of Suburbs and Extended Suburbs is 61.99 and 56.11 respectively.

Ratepayers are getting gradually acclimated to the new system of counter collection. However, the enforcement drive has been pushed up and results are kept under a close watch. It is, however, worthwhile to mention that our efforts for tax collection are thwarted to some extent by defaulting ratepayers who resort to legal actions such as injunctions, appeals against rateable values, etc.

Recovery of taxes in respect of properties in Suburbs and Extended Suburbs is found to be an uphill task and the collection machinery requires to be streamlined. Steps are, however, being taken in that direction.

As regards water charges, percentage of collection in the City is 85.96 whereas that in Suburbs and Extended Suburbs is 64.96 and 69.21 respectively. Still Rs. 2,26,74,103 are required to be collected. Steps to disconnect water supply to the properties in cases where water charges have not been paid are being expedited, but process even though simplified is still time consuming.

The assessment of Railway properties is still not finalised and is pending with the Railway authorities but they have in the meantime made an ad-hoc payment during the year under report.

The assessment of the B. P. T. properties for the quinquennium 1964-69 is in progress.

Shri Pestonji P. Kapadia, F. R. I. B. A. (LOND.), B.A., B.E. (CIVIL), M. I. STRUCT. E. (LOND.), M.I.E. (INDIA), J.P., has been 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 31-3-1974.

The Central Government who have decided to pay service charges from 1-4-1954 in respect of their properties covered by Article 285 (1) of the Constitution, have during the year under report paid Rs. 21,28,367.02.

As reported last year, the Central Government have directed the respective Departments in Bombay not to pay the sum in lieu of General Tax in respect of their properties covered by Article 285 (2) of the Constitution at a rate higher than what was prevailing prior to 1-4-1937 and the matter has been taken up with the Central Government through the State Government.

BUILDING REPAIRS CESS

The problem of a large number of house collapses in Greater Bombay every year necessitating the evacuation of persons and causing considerable loss to life and property was engaging the attention of the Government and the Corporation for a pretty long time. To deal with this problem effectively, the Government passed the Act known as "The Bombay Building Repairs and Reconstruction Board Act, 1969" which has come into effect from 1st October 1969.

Under the provisions of the said Act, a cess at 25 per cent, 20 per cent and 15 per cent of the rateable value of the property according to its age-group is levied on all residential buildings in the City proper except those exempted under Section 28 of the said Act with effect from the 1st January 1970. The Cess is recoverable in arrears for which separate bills are issued. The work of recovery of cess is entrusted to the Corporation. The collection of cess upto the period ended 31st March 1971, (for nine months) was Rs. 1,58,84,801 which worked out to 68.64 per cent of the net demand. The slow progress of recovery for the year 1970-71 may be attributed to the following three main reasons viz.—

- (i) This was the first year of levy cess.
- (ii) A very large number of complaints (over 14,000) were received against the levy of cess, disposal whereof continued upto the end of the year.
- (iii) Action against the defaulting occupiers could start after 3 months when they were in arrears of cess for six months.

These contingencies do not exist in the year 1971-72 and this will help to boost up collection during the current year.

The number of properties assessed to cess and categorywise rateable value in respect thereof is as under :—

Number of properties assessed to Cess : 22671

Category	Rateable Value
A	Rs. 9,19,09,030
B	.. 1,42,19,428
C	.. 3,50,34,430

R- G. RELE,
Assessor and Collector

RATES OF TAXATION

The rates of taxation on lands and building 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 area of the City and Suburban H to N Wards and defunct Municipalities of Malad (including the Village Valnai) Kandivli (including the Village Dahakar Wadi), Borivli and Mulund.
	22 $\frac{3}{4}$ %	In the areas of the defunct village Panchayat of Goregaon
	20 $\frac{3}{4}$ %	In the areas of the defunct Village Panchayat of Dahisar.
	24 $\frac{3}{4}$ %	Villages in respect of properties occupied for industrial purposes.
	18 $\frac{3}{4}$ %	Villages in respect of non-industrial properties.
2 Halalkhor Tax	3 $\frac{1}{2}$ %	In areas of City, suburbs and extended suburbs.
3 Education Cess	...	Rateable value between Rs. 1 to Rs. 74.
	2 %	Rateable value between Rs. 75 to Rs. 299.
	2 $\frac{1}{2}$ %	Rateable value Rs. 300 and above.
4 State Education Cess.	...	Rateable value Between Rs. 1 to Rs. 74.
	2 %	Rateable value between Rs. 75 to Rs. 299.
	2 $\frac{1}{2}$ %	Rateable value Rs. 300 and above.
5 Water Tax on Rateable value.	4 $\frac{1}{2}$ %	In the areas of City.
6 Water charges by Meter Measurement.	...	The rates charged for supply of water by meter measurement ranged between Re. 1.70 and Rs. 10.00 per 10,000 litres according to the users in areas of City, Subs. and Extended Suburbs.

Properties.	City	Suburbs	Extended Suburbs	Total
No. of properties as on 31-3-1971	86,546	78,049	41,600	2,06,195
No. of properties exempted from General Tax during the year 1970-71	3,223	1,910	1,009	6,142
No. of properties newly assessed during the year 1970-71	902	2,779	1,370	5,011
No. of properties enlarged during the year 1970-71	1,044	1,499	1,530	4,073
No. of properties demolished during the year 1970-71	346	229	74	649

Rateable Value as on 31-3-1971 and Rate of Rateable Value per head of population.

	City	Suburbs	Extended Suburbs	Total
Rateable Value	49,18,68,419	20,99,46,521	9,07,82,704	79,25,97,644
Population 1971	30,67,381	21,68,160	7,33,065	59,68,606
Rate per head of population	160.35	96.83	123.84	132.80

Disposal of Complaints against rateable value during the year 1970-71.

	Number	Percentage of reduction in rateable value
City	2,507	6.57 %
Suburbs	1,974	15.76 %
Extended Suburbs	2,012	9.75 %
Total	6,493	...

Appeals against rateable value during 1970-71 :—

There were 231, 105, 398 appeals against rateable value during the year under report in the City, Suburbs and Extended Suburbs respectively out of which 200,258 and 359 remained pending at the close of the year.

Bill issued during the year 1970-71.

	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...	2,222	1,45,107	3,651	1,55,240	1,540	83,497	7,413	3,83,844
Water charges by meter measurement	8,351	51,491	16,220	79,663	5,703	37,880	30,274	1,69,034
Meter Hire	...	7,628	724	9,638	714	2,575	1,438	19,841
Wheel Tax	54,328	3,00,759	10,236	73,603	2,437	14,861	67,001	3,89,223
Total	64,901	5,04,985	30,831	3,18,144	10,374	1,38,813	1,06,126	9,61,942

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	68-69	22,07,13,768	17,76,30,153	80.48	4,30,83,615	19.52
Suburbs	"	"	11,56,54,628	6,05,35,674	52.32	5,51,18,954	47.68
Extd. Subs.	"	"	4,14,09,712	2,08,12,392	50.26	2,05,97,320	49.74
City	"	69-70	22,77,07,498	18,19,83,427	79.92	4,57,24,041	20.08
Suburbs.	"	"	12,87,50,299	6,88,48,194	53.47	5,99,02,105	46.53
Extd. Subs.	"	"	4,78,84,653	2,28,64,953	47.75	2,50,19,700	52.25
City	"	70-71	24,62,73,137	19,81,78,732	80.47	4,80,94,405	19.53
Suburbs.	"	"	14,59,97,263	7,85,74,048	53.82	6,74,23,215	46.18
Extd. Subs.	"	"	5,62,53,971	2,71,00,950	48.18	2,91,53,021	51.82
City	Wheel Tax	68-69	2,18,67,036	86,12,105	39.38	1,32,54,931	60.62
Suburbs	"	"	57,62,636	17,70,565	30.72	39,92,071	69.28
Extd. Subs.	"	"	11,22,686	3,81,807	36.95	7,40,879	63.05
City	"	69-70	2,34,42,064	84,77,823	36.17	1,49,64,241	63.83
Suburbs	"	"	64,57,211	15,48,503	24.00	49,08,708	76.00
Extd. Subs.	"	"	12,66,160	3,52,123	27.81	9,14,037	72.19
City	"	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

Miscellaneous Receipts:—

	1969-70	1970-71
	Rs.	Rs.
City ...	4,28,701.54	5,39,497.65
Suburbs ...	1,62,555.50	2,09,679.00
Extd. Suburbs	68,892.00	99,452.00
Total ...	6,60,149.04	8,48,628.65

Meter Hire Receipts:—

City ...	4,14,041.90	5,41,508.79
Suburbs ...	3,38,649.13	2,30,487.05
Extd. Suburbs ...	78,709.93	91,764.72
Total ...	8,31,400.96	8,63,760.56

Exemption from General Tax:—

City ...	96,01,402.71	1,14,35,045.68
Suburbs ...	20,18,795.76	22,29,036.75
Extd. Suburbs ...	16,09,945.30	17,94,249.60
Total ...	1,32,30,143.77	1,54,58,302.03

Total Demand, Collection and Outstanding of Municipal Property Taxes during the year 1970-71

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

Period.	Outstanding on 1-4-1970.	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 1970-71.	Outstanding on 1-3-1971.	Percentage of collection to effective Demand	Percentage of outstanding to net Demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
CITY											
Upto 1968-69 ...	1,60,19,995	67,37,162	2,27,57,157	10,28,794	2,17,28,363	...	...	1,16,00,973	1,01,27,390	...	46.61%
1969-70 ...	2,34,33,788	68,61,530	3,02,95,318	48,30,606	2,54,64,712	...	...	1,90,45,563	64,19,149	...	25.21%
1970-71 ...	...	16,49,95,748	16,49,95,748	1,72,28,492	14,76,7,256	...	...	12,34,25,454	2,43,41,802	...	16.47%
Total ...	3,94,53,783	17,85,94,440	21,80,48,223	2,30,87,892	19,49,60,331	2,48,75,724	17,00,84,607	15,40,71,990	4,8,88,341	90.50%	20.97
SUBURBS.											
Upto 1968-69 ...	2,76,13,458	42,42,037	3,18,55,495	9,03,101	3,09,52,394	...	...	99,66,654	2,15,85,740	...	69.71%
1969-70 ...	2,18,84,566	33,83,066	2,52,67,632	32,81,626	2,19,86,006	...	...	1,11,36,570	1,08,49,436	...	49.33%
1970-71 ...	...	6,38,78,381	6,38,78,381	64,03,489	5,74,74,892	...	...	3,49,54,107	2,25,20,785	...	39.19%
Total ...	4,94,98,024	7,15,03,484	12,10,01,508	1,05,88,216	11,04,13,292	2,19,64,467	8,84,46,825	5,54,57,331	5,49,55,961	62.75%	49.74%
EXTENDED SUBURBS.											
Upto 1968-69 ...	1,20,33,002	5,44,226	1,25,77,228	4,55,169	1,21,22,059	...	...	30,33,365	90,88,694	...	74.99%
1969-70 ...	1,01,21,475	12,12,323	1,13,33,798	13,49,600	99,84,198	...	...	48,08,404	51,75,794	...	51.86%
1970-71 ...	...	2,77,32,948	2,77,32,948	28,30,728	2,44,02,220	...	...	1,25,14,473	1,18,87,747	...	48.37%
Total ...	2,21,54,477	2,89,89,497	5,11,43,974	46,35,497	4,65,08,477	1,03,25,868	3,61,82,609	2,03,56,242	2,61,52,235	56.25%	56.11%

Total Demand, Collection and Outstanding of Water by meter measurement during the year 1970-71.

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

Period.	Outstanding on 1-4-1970.	Amount of bills issued including the demand for contribution from Govt. and B. P. T.	Gross Demand.	Amount of bills received.	Net demand	Collection during 1970-71.	Outstanding on 31-3-71.	Percentage of outstanding to net Demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
CITY.								
Upto 1968-69 ...	15,99,180	1,48,466	17,47,646	49,409	16,98,237	2,58,270	14,39,967	84.20%
1969-70 ...	43,01,795	34,90,272	77,92,067	9,12,777	68,79,290	58,16,756	10,62,534	15.45%
1970-71 ...	...	4,29,74,303	4,29,74,303	2,39,024	4,27,35,279	3,80,31,716	47,03,563	11%
Total ...	59,00,975	4,66,13,041	5,25,14,016	12,01,210	5,13,12,306	4,41,06,742	72,06,064	14.04%
SUBURBS.								
Upto 1968-69 ...	38,49,330	2,55,136	41,04,466	1,32,967	39,71,499	15,41,249	24,30,250	61.19%
1969-70 ...	70,19,091	24,93,439	95,12,530	8,38,903	86,73,627	58,73,924	27,99,703	32.27%
1970-71 ...	...	2,36,31,181	2,36,31,181	6,92,336	2,29,38,845	1,57,01,544	72,37,301	31.56%
Total ...	1,08,68,421	2,62,79,756	3,72,48,177	16,64,206	3,55,83,971	2,31,16,717	1,24,67,254	35.04%
EXTENDED SUBURBS.								
Upto 1968-69 ...	5,92,250	94,925	6,87,175	34,087	6,53,088	2,85,587	3,67,501	56.20%
1969-70 ...	22,01,140	12,93,752	34,94,892	3,99,115	30,95,777	24,83,230	6,12,547	19.77%
1970-71 ...	...	60,44,299	60,44,299	47,671	59,96,628	39,75,891	20,20,737	33.70%
Total ...	27,93,390	74,32,976	1,02,26,366	4,80,873	97,45,493	67,44,708	30,00,785	30.79%

Total Demand, Collection and Outstanding of Wheel Tax during the year 1970-71.

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

Period	Outstanding on 1-4-1970.	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 1970-71.	Outstanding as on 31-3-1971.	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 1968-69	1,04,74,395	10,06,432	1,14,80,827	6,92,862	1,07,67,965	...	...	13,29,862	94,58,103	...	89%
1969-70	43,11,021	6,76,021	49,87,042	4,67,549	45,19,493	...	...	17,34,001	27,85,492	...	76%
1970-71	...	1,13,59,443	1,13,59,443	3,67,872	1,09,91,571	...	...	62,29,986	47,61,585	...	43%
Total	1,47,85,416	1,30,41,896	2,78,27,312	15,8,283	2,62,99,029	94,00,000	1,68,99,029	92,93,849	1,70,65,180	55%	65%
SUBURBS											
Upto 1968-69	35,92,104	1,36,413	37,28,517	2,22,584	35,05,933	...	...	3,28,406	31,77,527	...	90.65%
1969-70	13,16,897	1,75,630	14,92,527	1,06,791	13,85,736	...	...	4,78,061	9,07,675	...	65.48%
1970-71	...	24,85,220	24,85,220	53,960	24,31,260	...	...	10,60,662	13,70,598	...	56.35%
Total	49,09,001	27,97,263	77,06,264	3,83,335	73,22,929	32,79,285	40,43,644	18,67,129	54,55,800	46%	74.50%
EXTENDED SUBURBS											
Upto 1968-69	6,29,782	33,856	6,63,638	78,323	5,85,315	...	...	67,536	5,17,779	...	88.37%
1969-70	2,85,324	42,112	3,27,436	41,212	2,86,224	...	...	1,04,899	1,81,325	...	63.28%
1970-71	...	5,78,278	5,78,278	20,055	5,58,223	...	...	2,65,315	2,92,908	...	52.34%
Total	9,15,106	6,54,246	15,69,352	1,39,590	14,29,762	7,24,160	7,05,602	4,37,750	9,92,012	62.04%	69.42%

**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 1-4-70.	Amount of bills issued during 1970-71.	Gross Demand.	Bills recalled.	Net Demand.	Collection during 1970-71.	Outstanding as on 31-3-71.	Percentage of outstanding to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
City Upto 1962-63 ...	7,83,729	4,674	7,88,403	6,728	7,81,675	87,155	6,94,520	88.85%
Suburbs —do— ...	4,75,012	4,936	4,79,948	12,344	4,67,604	73,298	3,94,306	84.37%
Extended Suburbs —do— ...	2,84,731	32	2,84,763	...	2,84,763	61,749	2,23,014	78.52%
Total : ...	15,43,472	9,642	15,53,114	19,072	15,34,042	2,22,202	13,11,840	85.51%

The State Education cess :

Period	Outstanding as on 1-4-70.	Amount of bills issued during 1970-71.	Gross Demand.	Amount of Bills recalled.	Net Demand.	Collection during 1970-71.	Outstanding as on 31-3-71.	Percentage of outstanding to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
City—								
Upto 1968-69 ...	13,04,340	1,00,550	14,04,890	88,161	13,16,729	4,98,715	8,18,014	62.13%
1969-70 ...	19,18,168	4,93,021	24,11,189	4,26,110	19,85,079	13,81,478	6,03,601	30.41%
1970-71 ...	...	1,22,18,725	1,22,18,725	13,95,976	1,08,22,749	87,97,743	20,25,006	18.71%
Total ...	32,22,508	1,28,12,296	1,60,34,804	19,10,247	1,41,24,557	1,06,77,936	34,46,621	24.41%
Suburbs—								
Upto 1968-69 ...	18,81,588	63,586	19,45,174	70,701	18,74,773	4,74,961	13,99,812	74.67%
1969-70 ...	17,92,274	2,29,851	20,22,125	2,65,598	17,56,527	8,43,084	9,13,443	52.00%
1970-71 ...	...	51,37,665	51,37,665	5,46,529	45,91,136	27,42,017	18,49,119	40.27%
Total ...	36,73,862	54,31,102	91,04,964	8,82,528	82,22,436	40,60,062	41,62,374	50.62%
Extended Suburbs—								
Upto 1968-69 ...	8,61,322	26,151	8,87,473	39,412	8,48,061	2,14,167	6,33,894	74.64%
1969-70 ...	8,67,718	97,704	9,65,422	1,10,260	8,55,162	3,55,104	5,00,058	58.48%
1970-71 ...	...	22,22,951	22,22,951	2,06,376	20,16,575	10,33,795	9,82,780	48.71%
Total ...	17,29,040	23,46,806	40,75,846	3,56,048	37,19,798	16,03,066	21,16,732	56.90%

Break up of arrears as on 31-3-71.

	CITY		SUBURBS		EXTENDED SUBURBS	
	Effective Demand.	Provisional Demand.	Effective Demand.	Provisional Demand.	Effective Demand.	Provisional Demand.
(1) Government and Dy. Custodian of Evacuee properties.	22,41,079	...	25,78,715	...	4,93,096	...
(2) Railways	...	4,32,295	...	92,417	...	1,268
(3) Bombay Port Trust	8,36,743	...	...	...	...	...
(4) B.M.C. (Impt.) and Other Municipal Department.	37,16,087	...	7,86,721	...	5,65,211	...
(5) Court Receiver, Official Assignee etc.	...	21,76,853	...	12,49,791	...	8,44,389
(6) Suits Filed Injunctions and appeals against rateable values.	...	93,24,762	...	39,72,561	...	28,14,553
(7) Properties under attachment	33,00,376	...	1,16,45,370	...	37,43,508	...
(8) Complaints against rateable values	...	63,98,102	...	51,70,742	...	14,45,996
(9) Amounts involved in respect of unauthorised structures.	13,65,338	...	72,97,831	...	35,59,477	...
(10) Amounts due from B. E. S. T. Undertaking.	1,49,237	...	3,06,945	...	1,357	...
(11) Instalments allowed	4,30,691	...	18,49,524	...	8,30,257	...
(12) Disputed property taxes	...	18,84,973	...	48,02,958	...	14,16,962
(13) Disputes regarding wheel tax	...	94,00,000	...	32,79,285	...	7,24,160
(14) Bills issued at the fag end of the year	...	46,58,739	...	66,58,613	...	36,23,957
(15) Arrears of taxes carried forward from the records of the defunct local bodies.	...	...	...	19,385	...	1,78,743
(16) Monthly tenancy structures	4,95,397	...	9,93,473	...	14,50,055	...
(17) Amounts held in deposits	3,93,445	...	9,86,399	...	3,36,868	...
(18) Other rate payers						
(a) Property taxes	1,44,31,429	...	2,35,68,450	...	1,01,87,071	...
(b) Wheel tax	76,05,180	...	21,76,514	...	2,67,851	...
	3,49,65,002	3,42,75,724	5,21,89,942	2,52,45,752	2,14,34,751	1,10,50,028
	6,92,40,726		7,74,35,694		3,24,84,779	

- (1) Payment was not received from the various Government departments before 31st March 1971. The dispute regarding payment of General Tax is still under correspondence with the Government departments. The Dy. Custodian of evacuee properties pays as and when funds permit.
- (2) The Railways have made 'on account' payment of Rs. 9 lacs during 1970-71. The question of appointment of an Arbitrator to fix the amount payable by the Railways for the quinquennium 1954-59, 1959-64 and 1964-69 is under consideration of Central Government.
- (3) The payment was not received before 31st March 1971.
- (4) The amount awaits adjustment.
- (5) The payments are made when funds are available.
- (6) The matter is pending before the Court.
- (7) The Legal Assistant of this department has been directed to take further action with regard to the sale of attached properties.
- (8) 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.
- (10) The matter is under correspondence.
- (12) The matter is under correspondence.
- (13) The matter is under correspondence.
- (14) The matter is under correspondence.
- (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	43	18	61 †
Suburbs	21	3	24
Extended Suburbs	7	5	12
Total	71	26	97

Collection of Theatre Tax :—

	1969-70	1970-71
City	7,76,102.07	8,06,574.20
Suburbs	2,39,859.00	3,17,331.69
Extended Suburbs	1,38,482.00	1,50,653.20
Total	11,54,443.07	12,74,559.09

Tax Collected on Race Horses—

	1969-70	1970-71
No. of horses taxed	2,463	3,578
Tax collected	8,167.53	9,553.26

† One theatre is under renovation from 1-4-70.

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

Rateable Value.	Number of Properties		
	City	Suburbs	Extended Suburbs
Below Rs. 200	30,217	19,865	13,350
Between Rs. 201 and 300	3,970	8,790	4,156
Between Rs. 301 and 400	3,804	6,926	3,344
Between Rs. 401 and 500	3,170	6,193	2,592
Between Rs. 501 and 750	5,270	6,274	3,626
Between Rs. 751 and 1,000	3,781	5,211	2,677
Between Rs. 1,001 and 1,500	4,590	5,516	3,409
Between Rs. 1,501 and 2,000	3,867	4,640	2,375
Between Rs. 2,001 and 5,000	10,695	4,674	3,850
Between Rs. 5,001 and 10,000	7,313	4,645	1,158
Between Rs. 10,001 and 20,000	5,223	2,819	541
Between Rs. 20,001 and 30,000	1,415	1,210	203
Between Rs. 30,001 and 40,000	770	582	123
Between Rs. 40,001 and 50,000	55	370	82
Between Rs. 50,001 and 1,00,000	79	180	92
Between Rs. 1,00,001 and 1,50,000	38	46	16
Between Rs. 1,50,001 and 2,00,000	173	19	2
Between Rs. 2,00,001 and 2,50,000	120	3	2
Between Rs. 2,50,001 and 3,00,000	96	8	1
Between Rs. 3,00,001 and 3,50,000	75	1	1
Rs. 3,50,001 and above	95	7	...
TOTAL	86,546	78,049	41,600

APPENDIX 'B'

Vehicles and Animals taxed during the year 1970-71.

	Vehicles or Animals	Number.
Motor lorries	...	15,927
Motor cars	...	68,849
Trolleys	...	21
Trailors	...	214
Cranes	...	9
Motor cycles with side-cars (including 22 Auto Rickshwas)	...	1,420
Motor cycles (Solo)	...	11,923
Four-wheeled vehicles drawn by animals	...	209
Two-wheeled vehicles drawn by animals	...	506
Handcarts	...	16,858
Horses	...	31
Ponies	...	28
Bullocks	...	361
	TOTAL	1,16,356

APPENDIX 'C'

Vehicles and animals taxed under the Public Conveyance Act, during the year 1970-71.

Hack Victoria (including 2 horses for each)	...	510
Labour carts (with pair of bullocks for each)	...	544
Hand-carts	...	3,013
	TOTAL	4,057

Total demand, Collection and Outstanding of Repairs and Reconstitution Cess during the year 1970-71 for the CityWards.
 (The amounts of 50 paise and above are taken as full rupee and below 50 paise are omitted).

Category.	Amount of bills issued during the year 1970-71 (i. e. for the period from 1-1-70 to 30-9-70).	Gross demand.	Bills recalled. (Amount)	Net demand.	Collection during 1970-71.	Outstanding as on 31-3-71.	Percentage of outstanding to the net demand
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
A	2,24,29,286	2,24,29,286	52,40,966	1,71,88,320	1,24,49,310	47,39,010	27.57 %
B	33,82,317	33,82,317	12,07,931	21,74,386	13,74,486	7,99,900	36.78 %
C	73,18,277	73,18,277	35,37,464	37,80,813	20,61,005	17,19,808	45.49 %
Total	3,31,29,880	3,31,29,880	99,86,361	2,31,43,519	1,58,84,801	72,58,718	31.36 %

OCTROI DEPARTMENT

Rates of Octroi.—From 1st April 1970, the rates of Octroi in respect of goods falling under 17 items of Octroi Schedule 'H' were increased as under:—

Item No.	Description	Rate of Octroi before 1-4-1970	Rate of Octroi after 1-4-1970
1	Grain, flour, pulses etc.	... 12 paise per 50 kg.	15 paise per 50 kg.
2(b)	Gur of all sorts	... 15 paise per 50 kg.	20 paise per 50 kg.
14	Charcoal, coal and coke	... 60 paise per Metric Ton.	Rs. 1 per Metric Ton
17	Soap of all kinds, boot and metal polish	... 1½% ad-valorem	2% Advalorem.
22(a)	Mineral Oils of all sorts	... 1 paisa per litre.	2 paise per litre.
23	Cement of all sorts	... Re. 1 per Metric Ton.	Rs. 2 per Metric Ton.
30	Timber, ballies, cane etc.	... 3% advalorem.	5% ad-valorem.
31	Plywood, soft board, hard board etc.	... 3% ad-valorem.	4% ad-valorem.
33(b)	Toys of all sorts	... 1½% ad-valorem.	2% ad-valorem.
41	Yarn and threads of all sorts	... ½% ad-valorem.	1% ad-valorem.
46(a)	Rubber, Rubber goods etc. (Except Raw Rubber)	... ¾% ad-valorem.	1% ad-valorem.
46(b)	Raw Rubber	... ½% ad-valorem.	½% ad-valorem.
47	Iron & Steel	} Rs. 3 per Metric Ton.;	Rs. 6 per Metric Ton.
48	Iron & Steel scrap		
49	Iron & Steel—Any other articles made from Iron & Steel		
51(a)	Motor Cars, Motor Cycles, chassis and lorries etc.	... 2% ad-valorem.	3% ad-valorem.
53	Non-ferrous metals, brass, copper, tin, aluminium etc.	... 50 paise per 50 kg.	Re. 1 per 50 kg.
59(a)	Cinema Films—all Films Raw	... Rs. 2 per 300 meters.	Rs. 4 per 300 Meters.
59(b)	Cinema Films—processed and Reels (other than those processed in Greater Bombay)	... Rs. 2 per 300 Meters.	Rs. 4 per 300 Meters.

Rates of Octroi in respect of other items continued to be the same as in the year 1969-70.

Income.—Comparative figures of Gross Collection, refunds and net revenue for the years 1969-70 and 1970-71 are as under:—

Item	1969-70	1970-71	Increase over last year
	Rs.	Rs.	Rs.
(1) Gross Collection	... 14,25,11,135	17,77,83,868	+ 3,52,72,733
(2) Refund	... 1,84,83,318	2,72,86,412	+ 88,03,094
(3) Net Revenue	... 12,40,27,817	15,04,97,456	+ 2,64,69,639
(4) Fees for stamping	... 1,05,541	3,52,841	+ 0,02,47,300
(5) Fees in respect of refunds	... 8,41,946	11,17,222	+ 2,75,276
(6) Departmental collection	... 7,48,24,462	9,18,82,908	+ 1,70,58,446

Details of packages stamped with Municipal Marks

Item	1969-70	1970-71	Increase or Decrease
	Rs.	Rs.	Rs.
(i) Sugar & Gur	... 5,84,939	29,94,199	+ 24,09,260
(ii) Tea	... 73,119	86,080	+ 12,961
(iii) Edibles	... 3,34,053	3,45,375	+ 11,322
(iv) Ghee & Vegetable products	... 7,875	2,585	— 5,290
(v) Wines & Spirits	... 2,556	4,686	+ 2,130
(vi) Paper Bales	... 49,254	60,972	+ 11,718
(vii) Plywood crates	... 3,416	9,390	+ 5,974
(viii) Mollases	... 177	15	— 162
(ix) Miscellaneous	... 15	25,111	+ 25,099

80,603 claims for refund of Octroi on exported goods were received during the year as against 77,501 received in the previous year.

ELECTION DEPARTMENT

Poll for the Bye-Election in Ward No. 22 (Mandvi), to fill up the casual vacancy of a Councillor caused due to death on 20th November 1969 of sitting Municipal Councillor Shri Jivraj Bhanji Shah, was held on 8th May 1970. In this Bye-Election, Shri Kajriya Jaykisan Gokuldas, a candidate of Congress (O.), who secured 2533 votes was declared elected on 9-5-1970. Shri Chaskar Shankar Dhondiba, a candidate of Congress (R.), who secured 2531 votes, and was declared defeated by a margin of 2 votes filed an Election Petition (No. 284 of 1970) on 11-5-1970 before the Chief Judge, Small Causes Court, for re-scrutiny and re-count of votes. After several hearings and after allowing partial re-scrutiny and re-count of votes, the learned Chief Judge allowed 4 votes out of votes originally rejected, to be valid and counted in favour of Shri Kajriya and 2 in favour of Shri Chaskar and delivered a judgement on 2-2-1971 declaring the Election Petition as having failed and confirming election of Shri Kajriya, Sarwashri Kajriya and Chaskar having finally secured 2537 and 2533 votes respectively.

During the year 1970-71, two further vacancies of Councillors occurred, due to resignations submitted on 2-12-1970 by Shri Kuldipsingh Amarsingh Sapat, sitting Councillor for Ward No. 123 (Charkop and Borivali West) and on 10-2-1971 by Shri Shantilal Amritlal Modi, sitting Councillor for Ward No. 122 (Borivali West Rural). It was originally decided to hold the Poll for Bye-Elections in these 2 Wards on Sunday the 6th June 1971, Later on however, these Bye-Elections were postponed to September/October 1971.

P. R. KARKHANIS,
Dy. Assessor and Collector (Octroi) in-charge

WATER SUPPLY PROJECTS DEPARTMENT

During the year 1970-71, the Department was under the overall supervision of the Project Engineer Shri L. G. Dhayagude, B. E. (Civil), A. M. I. E. (India).

The activities of this 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.— Upper Vaitarna Scheme,
- V.— Bhatsai River Project ('S' Scheme).
- VI.— Ulhas River Scheme.
- VII.— Mechanical & Electrical Works.
- VIII.— Design Works.
- IX.— Miscellaneous Works such as replacement and enlargement of Trunk Mains etc.

PART — I

VAITARNA-CUM-TANSA SCHEME

All the works were completed long back. However, Land Acquisition Proceedings of the land admeasuring A. 5 G.-24-As.-04 of Village Paspoli and Tungwe and A.-0-G.-09-As.-02 in village Kolekalyan is pending with the Land Acquisition Officer. Correspondence for transfer of Government land measuring A.-96-G.-16-As.-1 was in progress.

PART — II

MASTER PLAN FOR THE DISTRIBUTION OF WATER SUPPLY TO GREATER BOMBAY

(a) Raoli Hill Reservoir

Final report and recommendations from Shri Datey, the Consulting Engineer regarding foundation conditions for the reservoir were received. It is not possible to construct a R. C. C. reservoir on top of the hill. Designs for steel tanks on the top of the hill and surface tank at the foot of the hill were in progress.

(b) Other Reservoirs

Sl No.	Name of the work.	Name of contractor.	S. C. R. No. and date.	Sanctioned amount.	Amount spent till 31-3-1971.	Remarks.
1	2	3	4	5	6	7
				Rs.	Rs.	
1	Powai Hill Reservoir (High Level), Balance work.	Messrs. New Great Construction Co.	2677 12-12-1970	7,28,026.99	72,000	Work in progress.
2	Trombay Hill Reservoir (Miscellaneous Works).	-				Contract with Messrs. Royal Asphalt Construction Co., who stopped the work after completing 29 per cent. of the same was terminated. Fresh tenders for the remaining work were under preparation.
3	Ghatkopar Hill Reservoir. (Miscellaneous Works).	Messrs. Dhirubhai Construction Co.	154 10-9-1969	1,78,145.63	96,000	Work in progress.
4	(a) Bhandup Hill Reservoir.	Messrs. Chattersingh Motisingh & Co.	4161 18-3-1964 and 3391	22,45,708.50	20,02,000	Work nearing completion.
	(b) Do. (Staff quarters).	Messrs. Vikram Construction Co.	768 9-2-1966 25-6-1969	4,03,843.65	1,44,000	Work in progress.

(c) Other Works

Serial No.	Name of the work.	Name of contractor.	S. C. R. No. and date.	Sanctioned amount.	Amount spent till 31-3-1971.	Remarks.
1	2	3	4	5	6	7
				Rs.	Rs.	
1	Fabrication of steel Pipes and Specials.	Messrs. Richardson & Cruddas Ltd.	1633 18-9-1968 and 2934	9,76,246.95	6,72,822.65	The work was completed on 4th July 1970.
2	Transport of materials from the premises of Messrs. S. E. W. Ltd. at Mulund.	(1) Messrs. J. D. Shah (2) Messrs. Mangatram Bros. (3) Messrs. Baxisingh & Co. (4) Messrs. Shori Automobiles.	2015 28-10-1968	19,98,687.90	...	The work was started on 29th October 1969 and till 31st March 1971 about 47,000 m. Tonnes of material were transported.
3	Construction of 20 m.g.d.					
	(i) Water Treatment plant for Vehar Waters.	Messrs. Vinay Construction Co.	910 6-7-1966	13,84,215.00	11,46,860.00	As the contractors stopped further work, due to financial difficulties, the contract was terminated.
	(ii) Do. (Balance Work).	Messrs. Geo Miller & Co.	1662 14-10-1970	6,21,471.99	...	Work started in February 1971.

(d) Pilot Filtration Plant at Vaitarna

The studies on Pilot Filtration Plant at Vaitarna were continued in collaboration with the Central Public Health Engineering Research Institute. Most of the units were in operation. The work was mainly concentrated on the studies of up flow filter. This work has been discontinued with effect from 1-3-71 and the plant is being handed over to H. E. for supplying filtered water to the Vaitarna Camp. Laboratory sampling work was done on waters from different treatment units as well as on Vaitarna Waters.

(e) Departmental Works

Departmental works such as construction of staff quarters and development of Master Plan Yard at Powai and Veravali etc. costing Rs. 2,20,000/- were in progress.

(f) Land Acquisition

Serial No.	Purpose for which land is required.	Area to be acquired.	Party to whom land belongs.	Remarks
1	Raoli Hill Reservoir ...	Sq. mtrs. 18,303	Government.	Transfer proposals have been submitted to Government.
2	Trombay Hill Reservoir ...	A. G. As. 6 10 0	Do.	Correspondence with the Government is still in progress.
3	Ghatkopar Hill Reservoir	16 19 12	Do.	Do.
4	(i) Bhandup Hill Reservoir	24 35 0	Private.	Possession of the land taken. Acquisition process in progress.
	(ii) Approach Road (a)	1 18 10	Do.	Proposals initiated during the year.
	(b)	5 35 0	Government.	Possession of land taken. Occupancy price yet to be settled.
5	Veravali Hill Reservoir (a)	1 13 02	Private.	Negotiations are in progress.
	(b)	11 10 03	Government (Milk scheme land).	Possession of land taken.
6	Tansa Village for Pipeline.	22 04 00	Govt. (Forest land).	Occupancy price yet to be finalised. Land in possession of Corporation.

PART - III**DAHISAR RIVER PROJECT**

As the above project has been abandoned, the Additional Collector, B. S. D. has been requested to take back possession of the land measuring A- 573-G. 01-As.-13.

PART - IV**UPPER VAITARNA PROJECT****(A) Outside City Division :***Belnala-Pogaon Section.*

Serial No.	Name of the work.	Name of contractor.	S. C. R. No. and date.	Sanctioned amount.	Amount spent till 31-3-1971.	Remarks.
1	2	3	4	5	6	7
				Rs.	Rs.	
1	Preparing formation work for laying 3,000 mm. > 2,750 mm. dia. main between Belnala and Pachhapur Section.	Messrs. New Asian Construction Co.	1378 25-8-1965	1,56,49,840.50	1,07,34,825.20	The work was started on 1st November 1965. Due to delay in acquisition of land etc., the original contract period of 20 months which was due to expire on 30th June 1967 was extended upto 31st May 1971.
2	Laying of 3,000 mm. > 2,750 mm. dia. steel pipeline and civil works in Belnala-Pogaon Section.	Consortium of firms with Messrs. Hindustan Construction Co. Ltd. as the principal contractors.	1505 11-9-68	3,27,90,374.75	85,82,416.10	Work in progress.
3	Shotblasting and Painting internally 3,000 > 2,750 mm. dia. steel pipes and specials between Belnala and Pachhapur.	Messrs. Shotblasting and Metal Spraying Co.	1380 31-8-1970	48,81,135.00	7,07,967.56	Work started on 20th November 1970 and is in progress.
4	Sandblasting & painting internally 3,000 > 2,750 mm. dia. steel pipes and specials in Pachhapur Pogaon Section.	Messrs. Osnar Paints and Contracts Pvt. Ltd.	1380 31-8-1970	45,88,547.25	14,18,303.19	Work started on 22nd May 1970 and is in progress.

DEPARTMENTAL WORKS

Works costing Rs. 4,14,533/- were carried out departmentally and works estimated to cost Rs. 15,000/- were in progress. The works consisted of construction of stan quarters, dispensary and repairs and maintenance of existing building, etc.

(B) Outside City Division—

Pogaon-Bhandup Section.

Serial No.	Name of the work.	Name of contractor.	S.C.R. No. and date.	Sanctioned amount.	Amount spent till 31-3-1971.	Remarks.
1	2	3	4	5	6	7
1	Preparation of formation for laying 2,750 > 2,500 mm. dia. pipeline between Pogaon and Bhandup and construction of service road (between Tarali and Gundoli and between Kolshet and Balcum.)	Messrs. Hindustan Const. Co. Ltd.	2392 26-11-1969	Rs. 15,83,418.25	Rs. 5,08,695.78	Work in progress.
2	(a) Fabrication, transporting of steel pipes and specials in Bellnalla Bhandup Section.	Consortium of firms with Messrs. Hindustan Construction Co. Ltd. as the Principal Contractors.	1505 11-9-1968	2,97,63,629.40	96,13,000.00	Do.
	(b) Laying of pipes 2,750 > 2,500 mm. dia. steel pipe line and civil works in Pogaon Bhandup Section.	Do.	Do.	1,72,34,676.30	1,01,16,452.24	Do.
3	Sandblasting and Painting internally 3,000 > 2,750 mm. > 2,500 mm. dia. steel pipes and specials between Pogaon and Bhandup.	Messrs. John Fleming & Co. Pvt. Ltd.	1380 31-8-1970	45,01,429.50	18,60,370.82	Work started on 22nd May 1970 and is in progress.

DEPARTMENTAL WORKS

Works costing Rs. 87,344.06 were carried out departmentally and works estimated to Rs. 1,66,320/- were in progress. The works consisted of construction of garage, office building, carpenter shed, internal roads etc. and repairs and maintenance of existing buildings.

(C) Bhandup Dharavi Section.

Serial No.	Name of the work.	Name of contractor.	S.C.R. No. and date.	Sanctioned amount.	Amount spent till 31-3-1971.	Remarks.
1	2	3	4	5	6	7
1	Laying 2,500 mm. dia. steel pipeline between Bhandup-Powai and Bandra-Dharavi Sections.	Messrs. S. V. Shah.	4087 21-3-1967	Rs. 32,37,905.00	Rs. 19,21,000	Due to failure of Messrs. S. E. W. Ltd. the pipes and specials were not supplied to the contractors in time. The contractors expressed inability to proceed with the work at contract rates. Fresh tenders have been received and the tender submitted by Messrs. S. V. Shah has been recommended for Standing Committee's approval.
2	Do. (Powai and Sahar Section.)	Messrs. Gujarat Construction Co.	3202 4-2-1970	24,45,363.00	4,18,000.	Work started on 3rd March 1970. This work is being carried out at the risk and cost of Messrs. Concrete Construction Co.
3	Do. (Sahar-Santacruz).	Messrs. Kusumkant & Co.	1872 15-10-1969	29,97,150.00	11,53,000	Work started on 17th November 1969 and is in progress.
4	Do. (Santacruz-Bandra).	Messrs. R. N. Ghanekar & Co.	1844 8-10-1969	30,29,950.00	13,72,000	Work started on 1st December 1969 and is in progress.

(D) Mulund Kandivali Tunnel

An expenditure of Rs. 19,382.33 was incurred during the year under report for meeting the liabilities of the previous years.

(E) Construction of Service Reservoirs

Serial No.	Name of the work.	Name of the contractor.	S. C. R. No. and date.	Sanctioned amount.	Amount spent till 31-3-1971.	Remarks.
1	2	3	4	5	6	7
1	(a) Bhandup Hill Reservoir (Formation and Construction.)	Messrs. Kusumkant and Co.	812 3-7-1968	21,44,730.00	18,00,000	Work started on 23rd October 1968 and is nearing completion.
	(b) Do. (Inlet and outlet mains)	Messrs. Janak Construction Co.	1099 23-7-1969	5,61,414.00	3,66,000	Work started on 8th December 1969 and is in progress.
2	Veravali Hill Reservoir	Messrs. Kiron & Co.	3238	6,42,306.00	4,64,000	Work started on 15th March 1969 and is in progress.
	(a) Laying 1,800 mm. dia. inlet main from Powai to Veravali.		29-1-1969			
	(b) Laying 2 Nos. 1,200 mm. dia. outlet mains upto Kurla-Andheri Road.	Messrs. Vasant Construction Co.	436 23-5-1969	13,00,771.50	7,88,000	Work started on 16th October 1969 and is in progress.
3	Trombay Hill Reservoir Laying 1,800 mm. dia. inlet main from Powai to Ghatkopar.	Messrs. R. N. Ghanekar & Co.	344 8-5-1968	18,55,190.30	15,91,000	Work started on 2nd August 1968 and is in progress.
4	Borivali Hill Reservoir					
	(a) Reservoir Construction.	Messrs. Bhupal Construction Co.	1354 24-8-1966	16,69,325.00	15,42,000	Work is completed.
	(b) Inlet and outlet mains	Messrs. Gujarat Const. Corporation.	1366 20-8-1969	8,01,697.82	4,25,000	
	(c) Staff Quarters.	Messrs. Vikram Construction Co.	3945 28-3-1969	3,24,521.00	2,27,000	

(F) Land Acquisition

Serial No.	Purpose for which land is required.	Area to be acquired.	Party to whom land belongs.	Remarks
Reservoirs.				
1	Malad Hill Reservoir ...	A. G. As. 46 16 07	Private.	Possession of land has already been taken.
2	(a) Bhandup Hill Reservoir	20 13 04	Do.	Do.
	(b) Do. (Approach Road).	0 9 4	Do.	Proposal is pending at preliminary stage with S. L. A. O.
3	Borivali Hill Reservoir. (Inlet and Outlet mains)	0 5 4	Do.	Possession of land has already been taken.
4	Do.	16 03 00	Government.	Possession of land has been taken. Occupancy price is not yet settled.
5	Dahisar Reservoir ...	6 20 00	Maharashtra Housing Board.	Transfer of land is pending with M. H. B.
6	Trombay Hill Reservoir	23 17 00	Atomic Energy.	Negotiations for exchange with Municipal Lands are in progress.
Pipe Laying.				
7	Pipe laying in Greater Bombay area.	4 06 12	Private.	Possession of A. 2—G. 16—As. 12 is taken; for the rest matter is pending with S. L. A. O.
8	Pipe laying in Akurli-Kanjur Villages.	2 12 1	Do.	Proposal in a preliminary stage.
9	Pipe laying in M. I. D. C.'s lands.	7 16 08	M. I. D. C.	Possession of land is taken.
10	Pipe laying in I. I. T.'s lands.	4 10 11	I. I. T.	Negotiations are in progress.
11	Pipe laying in Milk Scheme lands.	7 23 06	Milk Commissioner.	Transfer proceedings are pending.
12	Pipe laying in Mulund Colony, etc.	3 00 07	Government.	Do.
For Tunnels.				
13	(a) From villages Borivli-Nahur, etc.	10 30 11	Do.	Land is deforested but possession is not yet received.
	(b) From villages Poisar and Akurli.	3 18 00	Do.	Lands are in Municipal possession.
Outside Bombay Division.				
	For pipe laying work from Shahapur, Bhiwandi and Thana Tahasils.	428 11 00	Private.	Lands have been acquired.
	Do.	46 22 8	Government.	Lands have been acquired.
	Do.	178 15 0	Forest Department.	Do.

PART - V

BHATSAI RIVER SCHEME ('S' SCHEME).

M/s. Binnie & Partners (India) Ltd. as consultants to the Corporation for Water Supply and Sewerage Schemes, started the work from 1-6-70. The consultancy charges payable in Sterling will be paid by the U. K. Govt. The cost of counterpart services amounting to Rs. 7,59,132/- is to be met by the Corporation. Certain special studies are also to be undertaken by Central Public Health Engineering Research Institute at a cost of Rs. 4,86,000/-(S. C. R. 1048 of 29-7-70). Further, under S. C. R. No. 2030 of 6-11-70, the services of M/s. Cooper & Lybrand a firm of accountants and financial advisers, were availed of at an additional cost of counterpart services of Rs. 2,31,228/- to be borne by the Corporation.

The consultants are being assisted in their services by a separate Engineering Cell of B. M. C. Staff.

PRELIMINARY WORKS FOR THE 'S' SCHEME

Survey Work:-

- (1) A detailed survey of the pipeline alignment from Pise to Yewai was undertaken.
- (2) With a view to obtaining a more precise detail regarding the water spread area and the villages affected, the aerial survey of the water spread area 6 km. upstream, 2 K.m. downstream and pipeline route from Pise to Yewai was carried out through the agency of the Survey of India.
- (3) A detailed survey of the Vehar catchment area was carried out for locating the various works like treatment plant, master reservoir, inlet tunnel and sludge pond.
- (4) Goregaon-Mulund Link Road alignment was revised after survey in consultation with Government Deptt. Transmission line and tower affected by the proposed installation were studied and the same have been pointed out to Tatas.

Detailed plans and estimates :-

- (1) Detailed estimates for the approach road and 200 mm. construction pipeline including the bridge over the Amne Nallah from Village Pise to Village Sawad were prepared.
- (2) Detailed location drawing of the Bhandup Complex was prepared.
- (3) Plans and estimates for disinfection of Vaitarna and Bhatsai waters : Plans and estimates for a new chlorination house at Mulund near Mulund Anchor Block, amounting to Rs. 27,67,600 for disinfection of Upper Vaitarna and Bhatsai waters were prepared and submitted for approval.

Test Bore Drilling Work :

The work of drilling bore holes entrusted to M/s. Shri Sainath Construction Engineering & Trading Co. vide S. C. R. No. 2900 of 14-1-70 was in progress during the year. On the advice of the Consultants M/s. Binnie & Partners and the Government Geologist, additional 8 bore holes downstream of the weir site and 10 bore holes at the site of pump house were completed. In addition, 3 bore holes at the filtration plant site in Vehar Catchment area, 5 bore holes at the Master Reservoir site, 6 bore holes in the tunnel alignment site and 5 bore holes at the site of sludge pond were taken on the advice of the consultants and the Geologist.

The additional bore holes necessitated the revision of the sanctioned estimate for the bore holes drilling work which is done and revised estimate amounting to Rs. 1,80,360/- was submitted for approval.

Trial pits were taken departmentally on the sites of filtration plant and soil testing was done through the Agency of the Victoria Jubilee Technical Institute, Matunga.

Technical Study :

- (1) Hydrological study for determining the highest flood level at the weir site at village Pise was done in detail.
- (2) Pick-up weir design, Filtration plant details and layout and economic sizes of pipeline and pumping arrangements were studied in detail jointly with the consultants.

Supply of Technical Data :

Under the agreement with M/s. Binnie & Partners (India) Ltd. the Municipal Corporation of Greater Bombay was required to provide and supply various technical and other data to the consultants. Therefore the various technical data such as rainfall and rivergauging details in the catchment area of Bhatsa Dam, analysis of water samples, details of pick-up weir and pipeline alignment, details of works in Bhandup Complex and the details of staff requirements were compiled and supplied to M/s. Binnie & Partners for finalising their feasibility report.

Negotiations for Power Supply :

On collecting the probable requirements of Power Supply, negotiations for power supply at Pise and Bhandup have been carried out with M/s. Tata Electric Supply Co. and the Maharashtra State Electricity Board. As the Power requirements exceed 5,000 KW. at Pise and Bhandup, they are communicated to M/s. The Tata Electric Supply Co., the licensees in the area.

Pumping Design :

The design for the required pumping sets was studied in detail and a tentative note was prepared in consultation with the consultants.

Rain and River gauging at Village Pise :-

The annual rain and river gauging work was carried out departmentally at the village Pise i.e. at the weir site.

Land Acquisition :**Bhatsai 'S' Scheme (Greater Bombay Limit)**

Private negotiations to purchase lands measuring 2A. 10G-04 AS from village Bhandup, B. S. D. for laying inlet and outlet main for the proposed Bhandup Filtration Plant under this Scheme have been initiated and are in progress.

Bhatsai 'S' Scheme (Outside Greater Bombay City Limit)

Five proposals for the acquisition of private land measuring 38 Acres 3 Gunthas from villages Pise, Amne, Kirwali and Sawad in Tahsil Bhiwandi are in progress.

The Government has been requested to release and transfer 13 Acres 10 Gunthas 8 Annas land out of villages Pise, Amne and Sawad permanently to this Corporation on payment of occupancy price. The cases are in preliminary stages. Similarly, land measuring 8 Acres from village Sawad is also asked for lease from Government for stacking pipes etc.

PART - VI**ULHAS RIVER SCHEME****(A) Works under progress**

(i) Construction of Road along 1200 mm. dia. pipeline between Ambivali Railway Station and Pogaon cross connection.

(ii) Development of plot at Mohone pump house and construction of outlet channel from the sump etc.

Both the works have been entrusted to M/s. Union Construction Co. at the cost of Rs. 19,80,025.00 and Rs. 45,965.00 (excluding supervision) respectively under S. C. R. No. 69 dated 9-4-1969 and 1920 dated 15-10-1969. The works were in progress. The value of the works done during the year 1970-71 was Rs. 7,09,122.00 and Rs. 8,860.00 respectively and the total value of the works done upto 31-3-1971 was Rs. 14,22,532.00 and Rs. 8,860.00 (excluding supervision) respectively.

The work of construction of outlet channel from the sump of the pump house at Mohone has been dropped for technical reasons.

(iii) The work of cross connections between the existing 1200 mm. dia Ulhas Main and 2500 mm. dia. Vaitarna Main near Pogaon anchor block, estimated cost of which is Rs. 1,55,210.00 is being carried out departmentally. It was commenced on 21-12-70 and the value of work done during the year was Rs. 48,197.39.

(B) Land Acquisition

The lands required for implementing 20 m. g. d. Ulhas Pumping Scheme for augmenting Bombay City's Water Supply were first requisitioned under the Defence of India Rules for a period of 5 years on payment of rental compensation. As these lands are required permanently 13 proposals for acquisition of private lands admesuring, 47 Acres 14 Gunthas 6 Annas have already been initiated and they are in progress with the S. L. A. O.

The transfer proceeding in respect of Government and Forest land measuring 16 Acres 34 Gunthas 4 Annas are in progress with the Government authorities.

PART - VII.**MECHANICAL AND ELECTRICAL WORKS**

I. The Mechanical and Electrical Section provided chlorination equipment and electrical power, etc. of various reservoirs as detailed below during the year under report :-

(A) Chlorination Equipment

Serial No.	Name of the Reservoir.	Name of the Contractors	Cost of Plant	S.C.R.No. & date.	Remarks.
1	Veravali High Level.	M/s. Indian Engineering Corporation.	28,375.00 plus S.T. plus G.S.T.	451 of 19-5-1967	All work completed. Plant will be tested when reservoir is put into operation.
2	Ghatkopar.	M/s. Candy Filters (India) Pvt. Ltd.	26,500.00 —do—	321 of 8-5-68.	All works completed Plant will be tested when reservoir is put into operation.
3	Borivli.	M/s. Babubhai Naro tandas & Co.	25,875.00 —do—	2876 of 8-1-1969	Control Room is constructed and installation work has been taken in hand.
4	Bhandup.				M. C. 's sanction obtained under MDS 6353 of 14-11-69 and tenders are due on 12-5-1971.

(B) Electric Power

Sr. No.	Name of the Reservoir.	Load sanctioned.	Name of the contractors supply Co.	Estimated cost Rs.	Remarks.
1	Bhandup (a)		M/s. Thana Electric Supply Co. Ltd.	1,25,000.00	Work order placed on the Co. for H. T. Supply sanctioned under MDA 8042 of 27-10-69. Supply Co. will put lines as soon as tenements coming in the way are removed.
	Bhandup (b)			1,24,575.00	Specifications of Tender for supply & installation of equipments are prepared. The Sub-station room is constructed. Tenders will be invited after the approval of Electrical Inspector of Govt. of Maharashtra to layout is received.

(C) Providing orifice plate assemblies and flow meters

(1) *Kandivali Mulund Tunnel* :—Orifice plate and the recorder received from M/s. Mahindra Engineering Co. and erected at Mulund on 98" Kandivali Tunnel arm was tested and found working satisfactorily.

(2) *Borivali Reservoir* :—One No. of orifice plate for fixing on 1200 mm. dia. inlet main for Borivali Main Reservoir was purchased from M/s. Mahindra Engineering Co. at a cost of Rs. 3,660.80 vide S.C.R. No. 2117 dated 14-11-1969. The supply was received on 25-3-1970 and the assembly for fixing the unit on line was fabricated in the year under report.

(3) *2700 mm. dia. Trunk Main* :—Under S. C. R. No. 3375 of 25-2-70, sanction was obtained to purchase 2 Nos. Dall-short Insert tubes with recorders from M/s. Bastobelle & Co. at a total cost of Rs. 2,02,550/- plus taxes. The order was placed under WSP/68-188/PE on 26-2-70. Supply is awaited.

II. Purchase of Tools and Equipment :—

(a) During the year under report this Section purchased machinery required for the department as follows :—

Serial No.	Description of Item	Sanction No.	Cost
			Rs.
1	Transformer Type Arc Welding Plant, 1 No.	MCP 9015 of 6-4-1970.	2,632.68
2	Cables for Vehar Filter and Powai Low Level Reservoir.	S.C.R. No.1577 of 30-9-70.	20,186.00
3	Water Coolers 2 Nos.	MDS/9039 of 2-5-1968.	8,714.00
4	Electrically operated Actuators for 18" dia. Kirloskar make Sluice Valves—24 Nos.	SCR NO. 2000 of 24-10-1969	3,05,952.00

(b) *Workshop* :—A workshop with its equipment was maintained to carry out structural fabrication works required for departmental works.

(c) *Departmental works* :—The following departmental works were attended to by this section during the year under report :—

Serial No.	Name of the work.	Progress	Estimated cost.
			Rs.
1	Electrical wiring in the control room, office, etc. at Ghatkopar Hill Reservoir.	Works Completed.	15,000.00
2	Electrical wiring in the newly constructed staff quarter at Mulund Anchor Block.	—do—	8,368.00
3	Electrical wiring in the 32 Units staff quarters at Powai.	Works in progress.	15,867.00
4	Electrical wiring in the newly built up Mech. Stores at Powai.	Works Completed.	1,500.00
5	Installation of H. T. Oil Circuit breakers at Mohone and Pogaon Pump House.	Works in progress.	14,580.00
6	Orifice plate assembly for Borivali Hill Reservoir 1 No.	Works Completed.	1,000.00

III.—TRANSPORT

A fleet of vehicles consisting of trucks, jeeps, station wagons buses and motor trollies was maintained during the year.

In the beginning of the year, the fleet was of 39 vehicles. During the year under report, 4 old vehicles and 1 loco were scrapped and new vehicles as detailed below were purchased :—

Serial No.	Types of Vehicle.	Sanction No. & date.	Cost of Vehicle	Remarks.
1	Station Wagon 1 No.	S.C.R.No. 3414 of 4-3-70.	27,981.00	
2	Willys Jeep 2 Nos.	S.C.R. No. 75 of 22-4-1970.	4,480.08	
3	Dodge 18 Seater Bus 1 No.	S.C.R. No. 1583 of 17-9-69 S.C.R. No. 731 of 8-7-1970	36,099.42 18,200.00	Cost of Chassis For body building
4	Mercedes Benz Truck 1 No.	S.C.R. No. 635 of 1-7-70. S. C.R. No. 2012 of 6-11-70	49,745.30 8,904.00	For chassis. For body building
5	Mercedes Benz Bus.	S.C.R. 635 of 1-7-70 and S.C.R. 2012 of 6-11-70.	52,237.90 19,050.00 + taxes.	Received after body building on 21-4-71.

Orders for the purchase of following vehicles were placed but they were not received :—

Serial No.	Type of Vehicle.	Cost Rs.	Sanction No. Date.	Remarks.
1	Ambulance 1 No.	22,696.48 18,109.00	S.C.R, 2786/2-1-70 S.C.R. 731/8-7-70	For Chassis. For body.

A workshop and garage at Powai as well as at Agra Road was maintained to carry out repairs to the vehicles.

IV. This section also maintained a fleet of Plant & Machinery consisting of generators, compressors concrete mixers, etc.

PART—VIII

DESIGN WORKS

(1) Master Plan :—

1.1 *Bhandup Hill Reservoir*:—The R. C. design calculations for reservoir and control room submitted by the contractors, M/s. Chattarsingh Motisingh were scrutinised.

1.2 *Raoli Hill Reservoir* :—

The work of constructing a Prestressed Concrete Reservoir at Raoli Hill which was being carried out through M/s. Killick Akerkar Ltd. was suspended on noticing a deep fissure in the foundation for compartment No. 2. As a result of sub-surface exploration undertaken following observation of crack, revealed that the hill mass was unsuitable for the construction of reservoir in reinforced concrete or in prestressed concrete. The work of construction of prestressed concrete tank was, therefore, abandoned and the contract with M/s. Killick Akerkar Ltd. was terminated.

An alternative proposal of constructing a steel tank at the top of Hill and a surface tank at the foot of the hill was studied. The work of preparing design of the steel tanks was taken up and is in progress.

(2) *Upper Vaitarna Scheme* :—

2.1 *Bhandup Hill Reservoir* :—The R. C. design for reservoir and the control room submitted by the contractors, M/s. Kusumkant & Co. was scrutinised.

2.2 *Borivali Hill Reservoir* :—The R. C. design of the pump house for Borivali Hill reservoir and the staff quarters was taken up and completed.

2.3 *Study of Stresses in pipe shells and Ring Girder* :—The pattern of stress components developed in the shell and ring girder for varying spans and pressure conditions were studied in a comprehensive manner, for different dia pipe line with ring girder and saddle support to rationalise the design and the results were tabulated.

2.4 *Requirement of Scour and Air Valves* :—The study of time required for dewatering the various sections of U. V. main under variable pressure head and conditions was undertaken vis-a-vis the optimum requirement of air valves and scour valves.

2.5 *Design of Stiffening Collars for 'Y' Branches* :—The design of sickle shaped M.S. stiffening collars for 'Y' branches required to be fixed on U. V. pipeline at Belnala, Bhandup and Dharavi was completed. The design was worked out on the basis of method adopted by Escher Wyss Co.

A model of the assymetrical 'Y' branch at Belnala designed on these lines was proposed to be subjected to photoelastic studies for studying the stresses induced under test pressure at Khadakwasla Research Station of C. W. P. C. The testing was, however, dropped as the time element involved was far too excessive and hence prohibitive. The design of other similar branches required for completion of U. V. Works is in progress.

3. Bhatsai Scheme :-

3.1 The design of underground steel pressure conduit for the proposed rising main from Pise to Yewai was completed.

3.2 The design of the sub-structure of an R. C. C. bridge to carry pipeline and road at Amnipada was undertaken and completed.

3.3 Hydraulic Studies of the trunk main combination for various stages of completion of U. V. and Bhatsai Schemes were undertaken with the aid of computer, in collaboration with M/s. Tata Consultant during the above period and the same is in progress.

4. Miscellaneous Works :-

In addition to the above, several miscellaneous design works associated with the above schemes such as design etc. of staff quarters, concrete thrust blocks, culverts, cross connections, overhead crossings, well foundation, R. C. structures for departmental works, etc. were also taken up and completed during this period.

PART—IX MISCELLANEOUS WORK

Serial No.	Name of the work.	Name of the contractor.	S.C.R. No. and Date.	Amount sanctioned.	Amount spent till 31-3-71.	Remarks.
1	2	3	4	5	6	7
				Rs.	Rs.	
1	Replacing 2 Nos. 57" dia. existing pipelines between Bandra and Dharavi by 2—1800 mm. dia. pipelines.					
	(a) Fabrication work ..	Messrs. Indian Hume Pipe Co. Ltd.	2520 of 6-12-1967.	6,37,156.00	5,38,941.34	Work completed on 20th December 1970.
	(b) Laying of pipeline ..	Messrs. R. N. Ghanekar & Co. -	2939 of 5-1-1968.	20,81,514.75	12,73,000.00	Work started on 8th February 1968 and is in progress. Contractors have been directed to start the work.
2	Replacing 2 Nos. 57" dia. existing pipelines between Bandra and Santacruz by 2 Nos. 1800 mm. dia. pipelines.	Messrs. Janak Construction Co.	1099 of 23-7-1969	5,61,414.00	..	Contractors have been directed to start the work.
3	Replacing the tin shed at Mulund Anchor Block and providing approach from Lal Bahadur Shastri Marg.	Messrs. Valecha Bros.	23 of 9-4-1969.	3,15,870.07	2,01,680.27	Work completed on 5th March 1971.
4	Laying additional 1800 mm. dia. main between Dharavi and Haines Road along Tulsii Pipe Road.	Messrs. Eastern Associated Construction Co.	2916 of 13-1-1971	26,84,598.00	..	Work started on 25th March 1971.
5	Laying 450 mm. dia. C. I. main from M. H. R. to Colaba Military Camp.	Messrs. Builders & Plumbers.	Popular & 2429 of 27-11-1968	5,35,334.00	2,54,021.00	The work was completed on 8th January 1971. Pressure testing of the main is in progress.
6	Carrying out experiments for safe guarding intake tower at Vaitarna against vortex formation.	Central Power Station, Khadakwasla.	Water Research ...	30,000.00	...	Experiments in progress.
7	Repairs to road from Atgaon level crossing to Tembha (Vaitarna).	Messrs. B. K. Ajwani.	982 16-7-1969.	14,20,230.00	9,05,688.82	Work started on 20th December 1969.

L. G. Dhayagude
Project Engineer.

CITY ENGINEER'S DEPARTMENT

Shri V. D. Desai, B.E. (Civil), M.E.P.H. Calcutta with 1st class, M.T.E. (India) continued to hold the office of the City Engineer during the year under report.

CITY SECTION

There was no occasion to invoke provisions of the Bombay Municipal Servant's Act 1890.

During the year under report, the Building, Road and Drainage Construction Sections which worked on functional basis for the whole of Greater Bombay were decentralised into Zone I (A, B, C, D, E, F/S and G/S Wards), Zone II (G/N, K, P and R Wards) and Zone III (F/N, L, M, N and T Wards). Each Zonal office is placed under a Dy. City Engineer and deals with building, road, drainage construction works and private building proposals for the area comprised in the zone. (Building Proposals work of F/North and G/North wards is, however, dealt with by Dy. City Engineer Zone I). The Zonal offices also attend to planning, invitation of tenders and awarding contracts in respect of road works. The decentralisation is done for administrative convenience as also for attending to the needs of citizens promptly.

The Planning branch, however, continued to work under the Dy. City Engineer (Planning & Design).

During the year under report Conservancy and Transport sections were placed under a separate Dy. City Engineer designated as the Dy. City Engineer (Mechanical and Conservancy).

I.—(A) PLANNING (ARCHITECTURAL)

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

Particulars	General Building works in City	Housing in Greater Bombay
(i) Contract Plans	18	12
(ii) Cloth Tracing	27	39
(iii) Paper Tracing	312	1,224
(iv) Blue Print Copies	7,808	2
(v) Block Estimates	12	2
(vi) Total amount of Block Estimates	Rs. 1,22,87,300	2,81,370
(vii) Detailed plans and estimates completed in all respects (as shown below)		
(viii) Total amount of detailed estimates...	Rs. 96,50,713.45	60,62,050
(ix) Draft Tender	8	...
(x) Detailed Estimates in hand	7	...
(xi) Total approximate cost of detailed estimates in hand.	Rs. 1,00,51,000	...

Particulars of detailed plans and estimates completed in all respects referred to above.

Particulars	No. of estimates	Estimated cost
		Rs.
(a) Schools (Permanent)	3	19,77,694.84
(b) Schools (Temporary)	...	...
(c) Centralised Ward Offices...	2	17,06,739.71
(d) Markets	2	7,61,710.00
(e) Hospitals, Maternity Homes & Dispensaries	2	44,95,513.80
(f) Miscellaneous	10	27,09,655.10

I.—(B) PLANNING (Bridges)

Particulars	Details of Plans and Estimates prepared
(i) Contract Plans	...
(ii) Cloth Tracing	...
(iii) Paper Tracing	13
(iv) Blue Print copies	193
(v) Block Estimates	2
(vi) Total amount of block estimates	Rs. 1,39,65,000.00
(vii) Detailed plans and estimates completed in all respects...	5
(viii) Total amount of detailed estimates	Rs. 10,98,000.00
(ix) Draft Tender	3
(x) Detailed estimates in hand	2
(xi) Total approximate cost of detailed estimates	Rs. 1,30,00,000.00
(xii) Scrutiny of plans received from:—	
(a) Railways	6
(b) Private parties	...
(xiii) Scrutiny of estimates received from railways.	3

I.—(C) Planning (General) Sewers and Storm Water drains

The abstract of works done during the years is as follows:—

Particulars							
(1)	Paper Tracing	...	...	...	...	...	177
(2)	Cloth Tracing	...	...	...	...	...	61
(3)	Contract Plans	...	...	...	...	...	...
(4)	Blue Print copies	...	...	...	...	...	2,520
(5)	New Estimates	...	...	...	...	...	64
(6)	Revised Estimates	...	...	...	...	...	9

I.—(D) Planning (Electrical)

Particulars		No. of estimates	Estimated cost
			Rs.
(a)	Schools	8	3,16,200
(b)	Centralised Ward Offices	4	2,01,515
(c)	Markets	5	2,35,186
(d)	Hospitals, Dispensaries, Maternity Homes, Nurses Quarters...	4	6,01,300
(e)	Housing	7	4,99,800
(f)	Cemetery	...	...
(g)	Gardens	...	...
(h)	Miscellaneous	8	5,94,339
(i)	Electrical Lifts	3	2,12,975
(j)	Plant and Machinery	6	1,95,962
(k)	Fire Stations	1	49,400
Total		46	29,06,677

I.—(E) Malabar Hill Project

During the year 1970-71 the work of protective measures in the properties at Malabar Hill was in progress. An amount of Rs. 2,75,000 (approximately) has been spent on the construction of protective measures during the year. The work includes filling up the under cut portions, removal of loose boulders, cutting down the fallen boulders, removal of vegetation and trees etc. It also includes the horizontal exploratory-cum-drain holes drilled in some properties. This division also prepared plans and estimates for construction of protective works at Golanji Hill, Turner Sanitorium Hill and Part Cumballa Hill. The total estimates amounted to about Rs. 9,00,000.

The work at Malabar Hill had to be abandoned due to the non co-operative attitude shown by the concerned property owners by bringing Court injunctions against Municipal Corporation restraining them from carrying out the works of protective measures. As there was no further scope for the work to be done, this special division was wound up with effect from 1st April 1971.

I.—(F) Slum Improvement Cell

The Slum Improvement Cell was established on 5th July 1969 and was put under the control of an independent Ward Officer who worked directly under the Municipal Commissioner. Besides, preventing new slums, this cell primarily deals with the problem of unauthorised huts on Municipal lands and has two-fold functions. *viz* :—

(1) Improving existing slums by providing essential civic amenities like water, sanitation and electricity etc.

(2) Creating new colonies with 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 Municipal land which are not immediately required for development projects, essential amenities will be provided by constructing roads and lanes, providing street lights and water supply and providing sanitary conveniences and drainage. Staff is posted to maintain these services and ensure general clearliness.

New Colonies.—Simultaneously new colonies are being created by shifting existing ones which cannot be allowed to continue. Under this scheme each hutment dweller is allotted a pitch, 15'×10' (4.5 M.×3 M.) where he can erect his own hut of the dimensions prescribed in the approved plan.

Compensation.—In the case of existing hutment colonies, the hutment dwellers have to pay compensation charges at Rs. 5 p.m. per 100 sq. ft. subject to the minimum of Rs. 8 p.m. The recovery of compensation charges is started only after 50 per cent. of the amenities are provided. The transfer fee is charged at Rs. 50.

In the case of the newly developed colonies the compensation charges are charged at Rs. 10 per 100 sq.ft. per hutment for residential purposes with a minimum of Rs. 15 per month per hut and Rs. 20 per 100 sq.ft. per hut p.m. for business purposes. The transfer fee is charged at Rs. 200.

Detection and Demolition.—For prevention of unauthorised works and hutments detection and demolition squads were created.

In the beginning this cell was in charge of only administration work and execution of works was done by the respective construction branches. However, as the progress of these construction works pertaining to Slum Improvement was not upto the expectation, administration work including detection and demolition was transferred to the respective wards, leaving the construction works to this cell which was put under the control of an Executive Engineer instead of ward officer.

Welfare Projects.—In addition to the civic amenities, numerous social welfare services are also necessary. As a modest beginning, a Slum welfare centre was started last year at 2nd October Colony under the charge of Dr. D. N. Pai, Special Officer in charge of Family Planning and Maternity and Child Health Unit. This centre looks after the community, sanitation, health and medical relief, better nutrition for pregnant women pre-school attention for children and family welfare and planning.

The progress of the work done by the cell during the year under review is as under :—

Serial No.	Name of Colony	No. of tenements	Progress
1	2nd October Colony	1479	The work of constructing office, providing sewers, water main and street lights completed. Out of 8 sanitary blocks, 6 were completed; remaining 2 could not be taken up as site was not clear. The work of roads was nearing completion.
2	Ganesh Nagar Colony, Acharya Donda Marg.	443	Street lights were provided. The work of passages was nearing completion and that of sanitary block was in progress.
3	Plot No. 10, Sewri	1297	The work of passages was completed and that of water main was in progress. As regards sanitary blocks the contract was terminated and work was to be awarded by negotiation.
4	Dr. E. Moses Road, Worli.	794	The work of road, sewers, sanitary block, water main, street lights and garden was completed. The work of constructing office was in progress and tenders for back to back channel were being invited.
5	Haystack Road	88	The work of providing one sanitary block and one washing place were completed. The work of remaining one block and Washing Place was in progress.
6	Telly Gully, Andheri	248	The work of constructing sanitary blocks, concreting passages and laying water main was nearing completion.
7	Govandi, North of K. D. Railway.	1804	The work of providing roads, sanitary block, water main, garden was completed. The work of constructing office was in progress. The street lights cannot be provided unless sub-station is constructed.
8	Govandi South of K. D. Railway.	2720	The work of providing roads water main and garden was completed and that of sanitary blocks and office was in progress. The street lights cannot be provided unless sub-station is constructed.
9	Bhoiwada Colony	200 (Approx)	The work of providing sanitary blocks was nearing completion and that of street lights was completed.
10	Sewri X Road	100 (Approx.)	Do.
11	Extension to 2nd October Colony.	650 (Approx)	Street lights were provided. The work of sanitary blocks awarded to P. W. C. was held up on account of huts. The quotations were being invited for the work of concreting passages.
12	European Cemetery at Wadala.	300 (Approx.)	Street lights were provided. The work of sanitary block was in progress and the estimates for roads were under preparation.
13	Bharat Nagar, Bandra	...	The work of constructing passages, sanitary block, and water main was in progress.
14	Chincholi Malad (East)	1076	The tender for the work of roads was recommended for the acceptance of S. C. The quotations for sanitary block were invited but there was no response.
15	Extension to Nimboni baug South of K. D. Railway, Deonar.	...	Plans and estimate for road and S. W. Drain were prepared and administrative approval was being obtained. The work of street lights cannot be taken up till sub-station is constructed.
16	Park site Vikhroli, Upper Depot.	1100	The work of roads, S. W. Drain, Sanitary blocks was in progress.
17	Do. Lower Depot.	700	Do.
18	Rajawadi, Ghatkopar	300	The work of water main was in progress. The quotation for roads, S. W. Drain, sanitary blocks were being invited.

I.—(G) Slum 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.

The progress of various works under the slum clearance schemes during the year under report 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 owners were allowed to develop the property after providing alternative accommodations to the existing tenants. The owners upto now could not succeed in developing the properties due to disputes between them and the tenants. The disputes were not settled, even after attempts made by the ex-Mayor Dr. Leon D'Souza, and cases were still pending disposal at the Small Causes Court. Corporation cannot do anything with this scheme until the court matter is over.
(2) Hirvi Chawls Arthur Road, Tardeo ('D' Ward).	The clearance of this area and its further development as a recreation ground according to the development plan was pending as the tenants were unwilling to shift elsewhere and insist on alternative accommodations in the same area. The tenants are to be rehabilitated in the proposed 64 tenements and 16 shops at Bane Compound and 60 tenements at Tulsiwadi, Tardeo area. Due to abrupt suspension of the pile foundation work at Bane Compound fresh tenders were being invited for the remaining foundation and also super-structure works of 64 tenements at Bane Compound. Contract for pile foundation of tenements at Tulsiwadi was already awarded.
(3) Gora Gandhi and Ganjawala Chawls, Tardeo ('D' Ward).	The possession of the properties was received from the Special Land Acquisition Officer on 31-12-1969. The work of making the inventory of the tenants was nearly completed and lists of most of them were already sent to W.O. 'D' Ward for effecting the recovery of rent, etc., since 31-12-1969 and transferring the tenancies in the names of the occupants or sub-tenants.
(4) Papanaswadi August Kranti Marg ('D' Ward).	It was proposed to acquire the area by making a compulsory acquisition order. In the meantime the owners approached with a request to allow them to develop the property. Subsequently a dispute arose between the present owner and the former owners on their sale transactions and they approached the High Court for settlement. Corporation under their Resolution No. 1546, dated the 6th March 1969 recorded the proposal for allowing the owner to develop the property himself. It was, thereafter proposed to drop this scheme due to large number of non-conforming users and huge amount required for its implementation. The Corporation under their Resolution No. 1720, dated the 17th December 1970 approved the proposal to drop this scheme. A proposal was put up to the Bombay Building Repairs and Reconstruction Board for its approval to develop this area under the Board's Act and its approval was awaited. It was proposed to seek Corporation's fresh declaration of the area as a clearance area to enable the Board to take the necessary action for developing this area.
(5) Swastic Garage at August Kranti Marg 'D' Ward.	As the C. S. Nos. of the property were found to be incorrect in the Collector's record, a certified copy of the correct record of C. S. Nos. was procured from the Collector's Office and a fresh proposal was put up to the Improvements Committee and the Corporation for sanction to the Corrigendum to the C.S. Nos. to be made in the schedule of the properties. It was also recommended in the proposal for Corporation's consideration to drop this scheme at this stage as it would not be advisable to rehabilitate only 10 residential and 15 non-residential tenants after incurring huge expenditure on the implementation of this scheme.

The Corporation under their Resolution No. 145, dated the 6th May 1970 accorded approval to drop this scheme. The Government was informed accordingly under No. MCP/5335, dated the 26th August 1970.

Name of the clearance area	Progress;
(6) Sherichiwadi at Forjett Street ('D' Ward).	After completing all the formalities upto the stage of confirmation of the Compulsory Acquisition Order No. 13A of 1969 by the Government on 27-11-1970 a Notice in respect of the confirmed Compulsory Acquisition Order was published in the Government Gazette and local newspapers on 21-1-1971. The Compulsory Acquisition Order became operative with effect from 4-3-1971. The Government was being informed to appoint an officer to start acquisition proceeding.
(7) Sarkari Tabela at Jagannath Shankar Sheth Road ('D' Ward).	After completing all the formalities upto the stage of confirmation of the Compulsory Acquisition Order No. 14 of 1966 by the Government, further steps were kept in abeyance till the difficulties such as financial stringency and providing alternative accommodations to the spill over tenants were solved. As the Bombay Building Repairs and Reconstruction Board desired to consider such schemes for further implementation as per the Board's Act, a list of four such schemes, inclusive of this scheme, was forwarded to the Chief Executive Officer of Bombay Building Repairs and Re-construction Board on 17-3-1971 for consideration.
(8) Sector M-1, Kamathipura ('E' Ward).	The construction work of 45 tenements with 12 shops, in the remaining part of this area which was stopped as the contractor left the work half done, was nearly completed by another contractor at the risk and cost of the defaulting contractor.
(9) Sector B-1 and B-2 of Kamathipura ('E' WARD).	The Sector B-1 was completely cleared and fenced. The Sector B-2 was partly cleared and only a few shopping tenants remained to be shifted for want of accommodation. The cleared portion of this area was fenced. It was proposed to develop both these sectors simultaneously by constructing 92 tenements and 36 shops. The construction work was pending for want of alternative accommodation to the existing shopping tenants and also for the necessary funds. However, revised plans and estimates for the construction of 160 sq. ft. area tenements were under preparation.
(10) Sector C-1, D-1, G-2 and N-1, Kamathipura ('E' Ward).;	The Special Land Acquisition Officer was appointed and possession of 8 properties out of the total 18 properties in the four sectors was taken over upto 31-3-1971 and handed over to the charge of the Ward. An injunction was brought by the owner of one property, out of the 8 properties taken over, and the same was pending disposal in the court. The making of the inventory of the tenants at the acquired properties was progress.
(11) Match Factory Lane, Kurla 'L' Ward.	Development of this area, which was acquired on 27-10-1966 was deferred for lack of necessary funds. Fresh plans for the construction of Multi-storeyed tenements in two phases were prepared and estimates were being prepared.
(12) Sector 'F' Jawahar Nagar, Khar (East) 'H' Ward.	All the steps upto the stage of publication of the Notice, in respect of Compulsory Acquisition Order No. S/3 of 1966 confirmed by the Government on 20-4-1970, in the Government Gazette and local news papers on 16-7-1970 were completed. The Compulsory Acquisition Officer was operative from 28-8-1970 and the Government was requested under No. MCP/9239 of 31-12-1970 to appoint an officer to start acquisition proceedings. As some of the lands in this area belong to the Collector of Bombay and Central Excise, the possession of these lands is to be obtained by the negotiations with the respective Governments. The lands were still not handed over inspite of protracted correspondence and personal efforts. The matter was still being pursued with the respective Governments. According to the decision taken at the meeting held in the chamber of Minister for Urban Development on 21-4-1969, the Maharashtra Housing Board is to provide transit accommodation facilities to the slum dwellers and then undertake the construction of tenements in the area.
(13) Sector 'A' of Koliwada, Colaba ('A' Ward).	All the formalities upto the stage of Improvements Committee's sanction under I. C. R. No. 84 of 25-6-1968 authorising M. C. to acquire the lands by making a compulsory acquisition order were completed. Due to lack of alternative accommodations to the spill over tenants and necessity for huge amount required for implementing the scheme, the Corporation by their Resolution No. 971 of 12-8-1970, deferred the scheme for a period of 5 years or till the improvement in financial position of the Corporation, whichever is earlier. As the Bombay Building Repairs and Reconstruction Board desired to consider such schemes for further implementation as per the Board's Act, a list of four such schemes, inclusive of this scheme, was forwarded to the Chief Executive Officer of the Board for consideration. As required by the Board, the inventory of the tenants in this area was made and the inventory forms were forwarded to the Board.
(14) Kach Karkhana Chawls G. D. Ambekar Marg ('F/North Ward).	All the steps upto the stage of publication of Notice on 3-12-1970 in the Government Gazette and local news papers in respect of Compulsory Acquisition Order No. 15 of 1969, confirmed by the Government on 25-7-1970 were completed. The Compulsory Acquisition Order was operative from 14-1-1971. Government was requested to appoint an officer to start acquisition proceedings.

Name of the Clearance area	Progress
(15) Sector C-2, Kamathi-pura ('E' Ward).	All the formalities upto the stage of making the Compulsory Acquisition Order No. 17 of 1970 by M. C. on 26-11-1970 were completed but further steps were stayed due to lack of alternative accommodations to the spill over tenants. As the Bombay Building Repairs and Reconstruction Board desired to consider such schemes for further implementation under the Board's Act, a list of four such schemes, inclusive of this scheme, was forwarded to the Chief Executive Officer of the Board for consideration.
(16) Telly Gully near Kalachowky Lalbaug ('E' Ward).	Corporation by their Resolution No. 47 of 17-4-1969 declared this area as a clearance area and the Resolution was transmitted to Government on 17-6-1969. Further steps were stayed due to spill over of tenants, reservations and huge amount required for the development of this area. As the Bombay Building Repairs and Reconstruction Board desired to consider such schemes for further implementation under the Board's Act, a list of four such schemes, including this scheme, was forwarded to Chief Executive Officer of the Board for consideration.
(17) Bakri Adda, N. M. Joshi Marg ('E' Ward).	The preliminary survey of this area has been made. The area (sections A and B) admeasures about 18,534.13 sq. metres, after excluding the areas of a few multi-storeyed structures which were found to be in sound condition. After taking into consideration the difficulties in accommodating the spill over tenants and also lack of necessary funds, it was proposed to defer this scheme till the time the position improves. However, Bombay Building Repairs and Reconstruction Board proposed to develop this area after the declaration of the areas as a Clearance Area by the Corporation. Therefore, a fresh proposal for the withdrawal of the previous one to differ this scheme and for declaring this area as a clearance area was put up through the Repairs Board's Cell for further disposal.

For want of adequate alternative accommodation and necessary funds, no preliminary survey works of any slum areas except that of Bakri Adda, N. M. Joshi Marg, to be declared as clearance areas and developed under slum clearance scheme in future, was undertaken. However, with the limited staff the progress of the the schemes in hand was maintained and as the Bombay Building Repairs and Reconstruction Board considered to develop listed slum areas under Section 38(1) of the Board's Act read with Section 354-R of the Bombay Municipal Corporation Act, after the declaration of the areas as Clearance Areas by the Corporation, the necessary steps were taken in respect of the following listed slum areas in the city.

Name of the Clearance area.	Progress.
(a) Siddik Chalws at Bhavani Shankar Road (G/North Ward).	This area is a part of listed slum No. 134. After preparing a plan and making the preliminary survey of the area, a proposal with a detailed report of the area was forwarded through the Repairs Board Cell for the declaration of this areas as a clearance area to enable the Board to take the necessary further action for development of this area.
(b) Old Kumbhar Chawl at Curry Road Low Level (F/South Ward);	This area is a listed slum No. 105. After preparing a plan and making the preliminary survey of the area a proposal with a detailed report of the area was forwarded through the Repairs Board Cell for declaration of the area as Clearance Area to enable the Board to take the necessary further action for development of this area.
(c) Listed slum No. 83 (Near Wallace Floor Mills), Mazgaon Road, ('E' Ward).	A plan of this area was prepared for survey purpose and the preliminary survey of this area was made.
(d) Old Bengulpura at Lokmanya Tilak Marg ('B' Ward).	This area is a listed slum No. 21. Plan of this area was prepared for survey purpose and the preliminary survey of the area was made.
(e) Parel Village at F/South Ward.	This area is a listed slum No. 113. A plan of this area was prepared for survey purpose and the preliminary survey was also made.

B.—Municipal Slum.

No. of slums cleared and development completed.	No. of slums under clearance and re-development in stages as on 31-3-1971.
18	4

C.—Tenements under Government of India subsidised Slum Clearance Scheme.:

No. of tenements sanctioned till 31-3-70	No. of tenements completed during the year	Total No. of tenements completed upto 31-3-70	No. of new tenements started during the year	No. of tenements in progress during the year	No. of tenements not started	Remarks
6098	74	4821	Nil	329	948	

D.—Financial assistance of Loan and Subsidy received from Government under the subsidised clearance schemes.

Loan.						Rs.
Previously Received upto 31-3-1970	...	...	...	...	...	1,23,88,870
Received during the year under report	...	...	...	...	...	4,05,023
Total Rs.						1,27,93,893
Subsidy						Rs.
Previously received upto 31-3-1970	...	...	...	...	...	1,46,98,395
Received during the year under report	...	...	...	...	...	4,05,023
Total Rs.						1,51,03,418

I(H).—Municipal Material Testing Laboratory.

The following statements show the number of various samples tested in the M. T. Laboratory, Worli during the year 1970-1971 and the total cost thereof actually recovered on account of testing these materials for departmental works, Government Works and Private works etc.

STATEMENT No. 1

Nos. of Samples Tested

Particulars of Samples	NOS. OF SAMPLES ACTUALLY TESTED			Total No.
	Departmental Works	Government Works	Private Works	
Concrete	2,059	3,510	2,393	7,962
Bricks	525	260	94	879
Cement	107	...	4	111

STATEMENT No. 2

Cost recovered on account of testing

Samples Tested.	Cost of Testing actually recovered.			Total Amount.
	Deptt. Works.	Govt. Works.	Private Works.	
	Rs.	Rs.	Rs.	Rs.
1. Concrete	685.00	17550.00	2,3930.00	42,165.00
2. Bricks.	5250.00	2600.00	940.00	8,790.00
3. Cement.	7905.00	...	390.00	8,295.00
			Total Rs.	59,250.00
Add for Misc. Test and Hire of Moulds.			...	4,300.00
			Total	63,550.00
Cost of Testing of concrete and cement samples tested free of cost (Not Recovered)				10,810.00
Net cost of work done.				74,360.00

II.—Construction Branch.**(A) Building Construction.**

This Branch supervises the work of Building Construction in Zone I area after awards of Contracts by the Planning and Design Branch.

Particulars of Building Construction Activities during the year are given below :

	Completed works		Works in progress	
	Nos.	Actual cost.	Nos.	Estimated cost
		Rs.		Rs.
1. Buildings other than Housing. ...	6	62,50,948.00	1	89,864.00
2. Housing. ...	5	18,47,978.00	4	57,14,057.00
3. School Buildings. ...	1	2,70,461.00	2	20,89,261.00

The statement showing the works completed and works in progress appears in Appendix No. 5.

II—(B) Road Construction Branch.

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 the City (F/North and G/North wards) have been included in the suburban wards under the Control of Dy. C. E. Zone III and Dy. C. E. Zone-II respectively for administrative control from Sept. 1970).
- (ii) Invitation of tenders and awarding contract of road works.
- (iii) Supervision of road works.
- (iv) Invitation of tenders for the supply of Road Metals, quarry material, bitumen, supply of rubbles for Worli, transport of bulk bitumen filler powder and awarding contracts for the same for the whole of Greater Bombay was attended by the Road Construction Branch of Zone I. The tenders for the supply of coarse sand for City and Suburban Wards for 1971-72 were also invited this year along with the above tenders by this branch.

During this year 12 estimates for resurfacing city roads with cement concrete 11 estimates for resurfacing roads with asphaltic concrete, 4 estimates for construction of new roads and 10 estimates for widening of roads were prepared.

23 tenders for road works were invited (including reinvitation of 3 tenders) and 17 were awarded to the contractors for execution of the works and 6 were transferred to Zone II.

Three tenders for the supply of Road Metals for the year 1970-71 were reinvited and contracts awarded.

23 tenders invited for the supply of road metals, quarry materials etc., for 1971-72 were under scrutiny.

During this year, this branch has completed the works :—

- (1) Resurfacing 2 roads with A. C. and 3 roads with c.c.
- (2) Construction of new roads at eight sites.
- (3) Widening of roads at 6 sites.
- (4) Improving private streets. 2

The names of the roads are shown in Appendix No. 6.

At the end of the year the work of resurfacing 7 roads and construction of new roads at 3 sites, and road widening at one place as shown in Appendix No. 7 were in progress.

The expenditure incurred during the year 1970-71 is given below :

(1) Road resurfacing works in Asphaltic concrete and cement concrete. ...	20,90,000.00
(2) Construction of new roads ...	6,70,800.00
(3) Road widening. ...	11,96,600.00
(4) Improving private streets. ...	35,500.00
(5) Construction of approaches to bridges. ...	2,23,600.00

II—(C) Construction of Sewers and S. W. Drains in the City.

The progress of works of sewers and S. W. Drains carried out through contractors during the year under review is as under :—

Serial No.	Particulars	Total	150 mm.	250 mm.	300 mm.	350 mm.	375 mm.	400 mm.	450 mm.	475 mm.	500 mm.	600 mm.	700 mm.	800 mm.	900 mm.
I—Sewer															
1	Total length of Sewers of various sizes	1600 R.M.	100 R.M.	530 R.M.	300 R.M.	..	..	..	370 R.M.	..	..	..	..	300 R.M.	..
2	Total Nos. of manholes provided on Sewers..	224	..	..	..	..	..	..	..	..	..	..	..	..	..
3	Total No. of vent shafts provided on Sewers..	4	..	..	..	..	..	..	..	..	..	..	..	..	..
4	Cost incurred on Sewers	Rs. 4,12,470	..	..	..	..	..	..	..	..	..	..	..	..	..
(II)—S. W. Drains															
1	Total length of S. W. Drain of various sizes ..	2136 R.M.	114 R.M.	166 R.M.	354 R.M.	..	..	11 R.M.	1100 R.M.	..	..	20 R.M.	11 R.M.	290 R.M.	70 R.M.
2	Total No. of manholes provided on S. W. Drains	43	..	..	..	..	..	..	..	..	..	..	..	..	..
3	Total No. of vent shafts provided on S. W. Drains	25	..	..	..	..	..	..	..	..	..	..	..	..	..
4	Total No. of water entrances provided on S. W. Drains	33	..	..	..	..	..	..	..	..	..	..	..	..	..
5	Cost incurred on S. W. Drains	Rs. 5,33,058	..	..	..	..	..	..	..	..	..	..	..	..	..

Appendix No. 8 shows the works completed and those in progress in city during the year under report

(III) Statement showing details of the work of Cleansing Main Sewers.

Month.					Length of Main Sewer cleaned in Rft.	Silt removed in Cft.
October 1970	...	...	...	...	3,694	6,690
November 1970	...	...	...	...	8,130	18,460
December 1970	...	...	...	...	7,705	19,840
January 1971	...	...	...	...	6,308	19,045
February 1971	...	...	...	...	4,605	18,855
March 1971	...	...	...	...	4,902	22,095
					35344=10773 R.M. 104985=2971 C.M.	

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) Afghan Church Pumping Station.

(C) Colaba Purification Plant.

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

(B & C) Colaba Purification Plant and Afgan Church Pumping Station.

- (I) Steps were being taken to keep at least 4 sets of pinion and bevel gears in stock for immediate replacement as and when necessary.
- (II) Six Nos. of new C. I. gates for 45 C. M. self sustained type valve in the common chamber of final settlement tanks No. 1 & II were got manufactured in Municipal Workshop and 2 Nos. of gates were replaced by new ones in MARCH 70 as the old ones were found corroded.
- (III) M. S. scrappers of final settlement tank No. 2 were required to be replaced by new ones as the old ones were found corroded.
- (IV) The M. S. cones of Aeration Row No. 1 were found corroded. Steps are being taken to get 4 Nos. of M. S. cones manufactured in Municipal Workshop for immediate replacement. The work was in progress.
- (V) 45 C. M. C. C. incoming pipe of final settlement tank No. 2 was found broken below the 38 C. M. M. S. seal chamber pipe. Necessary repairs were carried out by workshop staff and unit was put into commission in April 1970.
- (VI) M. S. course screens and fines screens were replaced by new ones by workshop staff in April 1970 as the old screens were found corroded.
- (VII) Complete overhauling work of primary settlement tank No. 1 alongwith gears box equipment was carried out in December 1970 and January 1971 respectively.
- (VIII) Two No. of Gun-metal impellers were got manufactured in Municipal Workshop in October 1970 for centrifugal pump on trolley (Detritus unit) and were working satisfactorily.
- (IX) In January 1971 and February 1971 respectively 38 C. M. C. I. rising main of the Afgan Church Pumping Station burst in the compound of Afgan Church pumping Station and in front of Afgan Church bus stop Colaba Road respectively. The defect was rectified by renewing 8 Nos. of pipes of the rising main. The line was put into commission within a week.
- (X) Painting of the iron and steel material was undertaken at least twice in a year as there is lot of corrosion due to vicinity of sea as well as presence of H₂s in the surroundings.

Statement showing the performance of Colaba Purification Plant during the year 1970-71 is given at Appendix No. 9.

(II) LOVE GROVE PUMPING & PURIFICATION WORKS**Pumping Stations**

Pumping Station No. 1.—The vertical sulzer pumps as vicker's Gill pumps were operated during the year. The two vertical sulzer pumps were in operation for 6371 hours and two vicker Gill pumps for 5249 hrs. and 45 mts. during the administrative year. The pumping station No. 1 pumped out 51118.57 million litres of sewage water directly to sea, 2892.96 cubic metres of silt and 124.85 cubic metres of screenings were removed from the sewage.

Pumping Station No. 2.—Three pumps at Pumping Station No. 2 were operated during the year. They worked for a total of 16,327 hrs. and 30 mts. during the year and discharged 123321.61 million litres of sewage water during the year. Prior to pumping, 139.24 cubic metres of screenings were removed from the sewage.

Sufficiently low levels of sewage were maintained during the night time in the fair season to facilitate the work of cleaning the main sewers.

Purification Works

Detritus Plant.—Out of the two units one unit was operated during the year. 2308.32 cubic metres of silt and 648.48 cubic metres of screenings were removed.

The entire discharge of Pumping Station No. 2 was diverted through the detritus plant during the period from April 1970 to June 1970 and October 1970 to March 1971 as the work of repairing the by-pass duct was in progress.

Treatment Plant.—The primary settlement tank No. 1 was commissioned on 16th June 1970 after carrying out repairs to the central revolving mechanism and worked satisfactorily till 13th December 1970 on which day the inner circular brick necessary baffle wall collapsed. The work of carrying out repairs to the revolving M. S. frames and scrapers was in progress. The primary settlement tank No. 2 was working satisfactorily during the year except for the period from December 1970 to March 1971 during which the work of repairs to the revolving mechanism was carried out.

- (1) Total sewage treated—18562 million litres.
- (2) Raw sludge pumped in to Digestion tanks—94996.17 x 10³ litres.
- (3) Digested sludge removed—5436.80 x 10³ litres.
- (4) Gas generation—258945.00 cubic metres.
- (5) Dried sludge manure sold—90.21 cubic metres.

Flood Gates.—The floodgates at L. G. P. station Cleveland Bunder and Dharavi were operated during the year.

The following new and repairs works were in progress at L. G. P. Station:—

- (1) Providing a new 6'-0" dia. by-pass line from the delivery chamber of the pumping station No. 1 to the flood-gate chamber.
- (2) Providing 8' x 8' by-pass duct to divert the flow of pumping Station No. 2 to the floodgate chamber.
- (3) Guniting and painting with epoxy paint the main delivery duct from the by-pass chamber to a length of about 1000' including the replacement of 6'-00" dia. pipe to 8'-8' duct across Dr. A. B. Road.
- (4) Repairs to the R. C. C. structure of the bar screens prior to pumping station No. 2.

The statement showing the total sewage quantity pumped, electrical energy consumed and its cost during the year is given in Appendix No. 10.

(III) DADAR PURIFICATION WORKS

Sewage Purification Works at Dadar functioned satisfactorily throughout the year. Total quantity of Sewage received for treatment at the plant during the year was 30650 million litres with an average of 83.90 Million Litres per day. Out of 83.90 Million Litre sewage flow received per day for treatment 27.75 ML approx. per day received secondary treatment and the remaining 56.15 ml. per day sewage received only primary treatment. Sewage Pumping Station—During the current year the sewage Pumping station, located within the premises of plant pumped 9833 Million Litres sewage.

Appendix No. 11 gives further salient features regarding operation and performance of pumping station.

Enclosed Forced Draft Filter No. 1—(11.35 MLD capacity each). The filter worked fairly well throughout the year and turned out effluent having 69.50 p. p. m. B. O. D.

Filter No. 2 and 3—(9 M. L. D. capacity each). These filters worked fairly well and turned out effluent having 64 p. p. m. of B. O. D. (for No. 2) and 58.0 p. p. m. of B. O. D. (for No. 3)

Sludge Digestion Tanks

Digestion Tank No. 1.—The digestion tank worked satisfactorily throughout the year working at a digestion period of 20 days. The resulting digested sludge was free from odour and was dried on open sludge drying beds without causing nuisance. During the year 8,32,453 cubic metres gas was generated as a by product.

Digestion Tank No. 2.—This tank worked satisfactorily during the year and 9,26,853 cu. Mt. gas was generated as a by-product.

Appendix No. 12 gives statement of gas generation and utilization as gaseous fuel for domestic and commercial purposes. The revenue realized from the sale of gas during the year amounted to Rs. 2,77,947.83.

During the current year 260.77 Brass of dried sludge manure was removed by the contractor, M/s. Godavari Pravara Canal Sahakari Kharedi Vikri Sanstha Ltd. at Rs. 15. per brass. The total revenue realised by the sale of manure amounted to Rs. 3911.55.

Activated Sludge Plant.—(18 M. L. D.) The activated sludge plant comprising at 24 Nos. of aeration cones and 3 Nos. of R. A. S. pumps worked satisfactorily throughout the year and turned out effluent having B. O. D. 10 p. p. m. and suspended solids 15 p. p. m.

During the current year the laboratory examined the samples of different units of Dadar Purification Works. Appendix No. 13 gives the statistical and analytical data for the current year.

IV.—DHARAVI PURIFICATION PLANT

The performance of this purification plant was fairly satisfactory. The sludge gas was supplied to the consumer for twenty four hours in dry season. The supply of sludge gas was maintained in rainy season to the L. T. M. G. Hospital by stopping the supply to some private consumers as the gas generation in rainy season was poor.

Screening Mechanism.

This unit has worked satisfactorily. The screen with mechanical operated comb has been put out of commission from December 1970 as it required major repairs.

Sewage Pumping Station.

All the pumps worked satisfactorily. The total sewage pumped was 20,027.50 Million Litres. The Appendix No. 11 gives the salient features regarding the operation and performance of the pumping stations.

Detritus Unit.

Both, the old and new detritus units worked satisfactorily. The new detritus unit was put out of commission for six months on account of major repairs to its elevator.

Primary Settlement Tank.

Performance of this unit was satisfactory throughout the year.

R. C. Pumps and Filters.

All the units worked satisfactorily throughout the year.

Final Settlement Tank.

This unit worked satisfactorily till it was put out of commission in July 1970 for carrying out major repairs e. g. replacement of sludge boxes, angles, and channels of the moving bridge, overhauling of the gear box, traction wheel, air lift, pump etc.

Return Sludge Pump.

Performance of both the pumps was satisfactory.

Sludge Pumps.

The units worked satisfactorily.

Digestion Tank and Gas holder.

This unit worked satisfactorily. But it was observed that the plaster of the digestion tank roof gave way at many places and the reinforcement was exposed to and affected by gas. The necessary steps were already taken for repairing the same.

Extension of Purification Plant.

The entire work of the extension plant is completed.

The following units for additional unit of 45 million litres per day were put into commission from November 1970 :—

(i) *Primary Settlement Tanks.*—Both the tanks worked satisfactorily.

(ii) *Consolidated tank.*—This unit worked satisfactorily.

(iii) *Sludge Feed Pumps.*—All the three pumps are reciprocating type and indigenous make for the first time in India. They were put into commission and the performance was under observation.

Sludge Drying Beds

Performance of the beds was satisfactory.

Gas Generation and consumption

During the year, the generation of the sludge gas was approximately 849.60 cu. mt. per day. The total gas supplied to the consumers during the year was 2,32,250 Cu. Mt. and the revenue from sale of this gas was Rs. 43,113 (including meter rent). Statistical data in respect of Sewage flow, gas utilisation etc. is furnished below :—

Statistical data for the year 1970-71

(1) Total sewage pumped	...	...	...	...	20,027	M.L.
(2) Grit removed	...	...	...	...	475	C.M.
(3) Screening removed	...	...	...	...	496	C.M.
(4) Sludge to digestion tank	...	...	...	...	61.74	M.L.
(5) Digested Sludge to beds	...	...	...	...	2.015	M.L.
(6) Sludge to storm water drain	...	...	...	...	.2724	M.L.
(7) Total digested sludge removed	...	...	...	...	0.2874	M.L.
(8) Total electrical energy consumed	...	...	...	...	8,59,062	KWH
(9) Cost of electrical energy	...	...	...	Rs.	86,991.	
(10) Gas used as gaseous fuel	...	...	...	...	2,32,250	C.M.
(11) Revenue obtained from sale of gas	...	...	...	Rs.	43,113	
(12) Sludge manure sold during the year	...	...	...	...	147.80	Brass.
(13) Revenue realised from sale of manure	...	...	...	Rs.	2,107	
(14) Total revenue realised (11+13)	...	...	...	Rs.	45,220	

III.—MAINTENANCE OF MUNICIPAL BUILDINGS AND ROADS

III—A—Municipal and Ex—Trust Properties

The total number of Municipal Buildings and other properties in the City during the year ending 31st March 1971 was 5584.

The work of maintenance is classified under three 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.

For the purpose of giving contract works of annual repairs etc. the city was divided into 10 divisions. The contractors and the rates quoted were as shown below (prevailing for the period from 1st October 1970 to 30th September 1971).

Serial No.	Division & Ward	Name of the Contractors	Particulars
1	I A1-A2	Messrs. M. J. Parikh	3 per cent. below the rates specified in the schedule.
2	II B	Shri Durgichand Hiraji	At par the rates specified in the schedule.
3	III C-1-C2	Messrs. Chandrakant M. Doshi & Co.	4½ per cent below the rates specified in the schedule.
4	IV D1-D2	Messrs. Krishna Construction Co.	3.27 per cent above the rates specified in the schedule.
5	V E1-E3	Messrs. C. L. Thakkar	10.32 per cent below the rates specified in the schedule.
6	VI E2	Messrs. C. L. Thakkar	8.26 per cent. below the rates specified in the schedule.
7	VII F1-F2	Messrs. Hiranand Bros.	3 per cent. above the rates specified in the schedule.
8	VIII F3-F4	Messrs. Equator Construction Co.	8.10 per cent. below the rates specified in the schedule.
9	IX G1-G2	Messrs. K. N. Patel Construction Co.	11.10 per cent. below the rates specified in the schedule.
10	X G3-G4	Messrs. Equator Construction Co.	10 per cent below the rates specified in the schedule.

Repairs to the school buildings under Budget 'E' were also carried out at a total expenditure of Rs. 3,91,920.91. Work orders amounting to Rs. 76,51,377 were issued to the petty works contractors for all the divisions.

III—B—Roads and Footpaths

The total length of the roads in the City at the close of the year was 481.48 K.M.

An amount of Rs. 8,53,191.54 was spent on repairs to potholes and carriage way during the year and the total cost inclusive of general overhead and miscellaneous charges amounted to Rs. 22,43,155.58 and 1,02,034.27 sq. metres of different types of road surfaces were improved departmentally during the year as detailed below :—

Mode of improvement	Area in Sq. metres
(1) Sheet Asphalt ...	11,663.35
(3) Chip on Asphalt Roads ...	4,933.00
(3) Semi-grouting ...	38,234.72
(4) Surface dressing ...	46,179.07
(5) Asphalt concrete ...	1,024.13
Total	1,02,034.27

As usual, an amount of Rs. 2,34,162 was paid to the Bombay Port Trust for cleansing and repairing the Port Trust Wharves and Roads.

III—C—Miscellaneous Works in connection with Roads and footpaths

(a) *Road watering.*—Road watering was not required to be done for any road or footpath during the year.

(b) *Street Name Boards.*—The existing street name boards were repaired and maintained and new boards were installed at a total cost of Rs. 89,612.

(c) *Maintenance of Public Monuments.*—All the statues were periodically cleaned and maintained at a total cost of Rs. 15,74.48.

(d) *Widening of roads consequent upon the acquisition of setbacks.*—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. 4,74,613.20 for 6722.41 sq. metres added.

(e) *Benches.*—222 Benches on roads and footpaths were maintained.

(f) *Guard Railings.*—9514 R. Metres of guard railings were maintained during the year.

III.—D—Road Rollers

During the year there were 22 road rollers out of which 1 was petrol driven, 19 were diesel driven and 2 steam driven.

III.—E—Permits

(a) *Opening of roads and footpaths.*—During the year 6188 permits were issued for excavation in 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. 10,83,640.00. The total amount of road opening fees recovered was Rs. 31,992.00.

(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. 320 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. 38,096.16 from permit holders. In addition 935 permits were also issued for occupation of roads for erecting mandaps, placing chairs and benches etc. and the total amount realised there from was Rs. 14,974.62.

117 Permissions for new bus shelters on roads and footpaths were granted.

III.—F—Asphalt Plant & Crushers

The work of Asphaltting footpaths and roads as approved by the Corporation was continued during the year and footpaths and roads covering an area of 18009.00 were asphalted at a cost of Rs. 1,69,185.67.

I.—Asphalt Plant & Crushers

(a) The Municipal hot mix Asphalt Plant at Worli was in operation throughout the year except during monsoon from 1st July 1970 to 31st October 1970. The pegson plant mixer was 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) The total area of 124834 Sq. Mtrs. (exclusive of pot holes admeasuring 17423.00 Sq. Mtrs.) of roads and footpaths was repaired and renewed during the year as against 167585.00 Sq. meters repaired and renewed during the previous year.

(c) Different roads admeasuring 11638 Sq. Meters were repaired with 3" asphalt.

(d) Capital roads admeasuring 20121 Sq. metres were repaired by grit coats or chip coats. The seal coating and different miscellaneous works admeasuring about 10722.00 Sq. Meters were carried out by different modes of construction.

(e) Footpaths covering an area of 586 Sq. meters were asphalted with seal coat.

(f) The hot mix plant worked for 287 days and remained closed for 78 days on account of rainy season Sundays, holidays and breakdowns of plant.

The rates were revised for booking the expenditure for different modes of construction under M. C.'s sanction No. MDR/7986, dated 5-7-1960. The total expenditure for renewing the road surface, the cost of which was chargeable to repairs grant amounted to Rs. 2,64,564.50.

The area of 34692 Sq. meters was repaired by providing 3/4" asphalt premix carpet on grouted roads.

1540 tests were carried out in the asphalt plant laboratory on different asphalt mixes. The total turn out by the main and pegson plant were 7721980 and 2703795 Kgs. approximately.

Appendix No. 14 shows the details of Asphalt Plant Production and Appendix No. 15 shows the summary of works carried out during 1970-71.

II.—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 1970-71.

The total out put of both the crushers during the year was 3370.50 brass metal as against 3164 brass during the last year.

The work of crushing the rubble stones at both the crushers was done departmentally.

The total out put of Worli Crushers and the rate charged for the different sizes of metal supplied, is shown in the accompanying statement separately.

The value of stock at hand at the end of the year was Rs. 86,892.39 at Worli Crushers.

Appendix No. 16 shows the Rubble crushed and metal production during the year 1970-71.

III G. Public Street Lighting

Total No. of electric lamps at the end of the year under report was 19,225 as against previous year's 18,420.

The details of different types of lamps are as shown below :—

Electric lamps with candle powers varying from 44 to 1355.

Tungsten Filament	Mercury Vapour	Fluorescent.	Traffic Directional	Total
10,249	5,875	2,640	461	19,225

Besides 19,225 electric lamps, 14 policemen's spot lights were maintained during the year. Also 12 lights along Railway foot over bridges at Chowpatty, Byculla and Dadar were maintained by this department.

The following statement shows the candle powers of lamps, energy consumed, and expenditure during the year under report.

Type of Lighting	Candle Power	Total consumption during the year.	Expenditure
Electric	89,67,374 C.Ps.	16,18,905/- Kwh.	75,62,174.50

Additional expenditure was incurred on the following items of work :

- (1) Erection of new lamps.
- (2) Repairs and Maintenance.
- (3) Works of improvement in Street Lighting.

As usual Rs. 31,450.00 were paid to the Bombay Port Trust on account of lighting charges on roads in their charge by adjustments with the amount due from them in respect of General Tax of the year under report.

The work of lighting and maintenance street lamps was done through the Bombay Electricity Supply and Transport undertaking for electric lights.

The statues of (1) Late Pheroze Shah Mehta at Bori Bunder (2) Late Vithalbhaj Patel and (3) Lokmanya Tilak at Chowpatty (4) Dr. Baba Saheb Ambedkar at Band Stand and (5) Hutatma Smarak at Hutatma Chowk were flood lit with electric lights throughout the year under report.

The lights on following 5 roads were improved with fluorescent lamps under "All in Hire" Scheme.

- (1) Sleater road.
- (2) Govindji Keny Road.
- (3) Jerbai Wadia Road.
- (4) Sewri Wadala Road No. 23.
- (5) Sion Road No. 32.

New Tungsten filament lamps were provided on the following 12 roads during the year under report.

- (1) Nawanager off Dockyard Road.
- (2) St. Francis X'vier Street.
- (3) Passage below Kennedy bridge.
- (4) Marine lines station Foot over Bridge.
- (5) Charni road station Foot over Bridge.
- (6) Andhra Valley Passages.
- (7) Antop hill level Crossing Road.
- (8) Chhotani lane off Sunmill Lane.
- (9) Dharavi passages.
- (10) Kamla Nehru Nagar Mahim Dharavi.
- (11) Shahu Nagar Colony-Mahim.
- (12) Shastri Nagar Mahim-Dharavi.

Further following 5 new hutment colonies were provided with Tungsten Filament lamps under slum improvement programme.

- (1) Dr. E. Moses Road hutment colony.
- (2) European Cemetery hutment colony.
- (3) Ganesh Nagar-Krishna Nagar-Bardevi Nagar Colony.
- (4) Mukund Nagar Colony.
- (5) Bhoiwada village hutment colony.

Further additional Tungsten Filament lamps at IInd October colony were provided under slum improvement programme.

Following 3 passages in Municipal properties were lighted with Tungsten Filament lamps.

- (1) Kidwai Nagar.
- (2) Approach road to 72 tenements Parel.
- (3) Mirachi Wadi—Naigaum.

Following 9 junctions were provided with Traffic Directional Bollards or Lanterns.

- (1) D. N. Road/Reveline St. Junction.
- (2) Krantiveer Vasudeo Balvant Phadke Chowk.
- (3) Mazgaon Road/Wadi bunder Road junction.
- (4) Tardeo Road/Bellasis Road/Falkland Road junction.
- (5) Tardeo T. T.
- (6) Queen's Road near S. K. Patil Udyan.
- (7) Bal Govinddas Road/Padmabai Thakkar Road junction.
- (8) Lady Hardinge Road/Lady Jamshedji Road junction.
- (9) Lady Jamshedji Road/Sitaladevi temple road junction.

Appendix No. 17 shows the localities at which the various improvement works of street lighting were done during the year 1970-71.

III H—Traffic.

The work of constructing traffic islands, central dividers, R. C. C. Railings was carried out at the following places.

Traffic Islands.

- (1) Veer Sawarkar Marg Jnction Dr. Annie Besant Road.
- (2) Reay Road Junction Mather Pakhadi Road.
- (3) Reay Road Junction Victoria Road.
- (4) Reay Road Junction Tank Bunder Road.
- (5) Bhawani Shankar Road Junction Jawale Marg.
- (6) N. M. Joshi Marg. Junction Tulsi Pipe Road.

Central Divider

- (1) Kings Circle—on Dr. Babasaheb Ambedkar Road.
- (2) Lady Jamsetji Road—Bet. Sitala Devi & Lady Hardings Road.
- (3) Tulsi pipe Road—Bet. Bal Gangadhar Marg & Jawale Marg and from Tilak Bridge to plot No. 22
- (4) Sion Road No. 1 Jn. Sion Road No. 3 upto Express Highway.
- (5) M. G. M. Road—from Metro to Queens Statue Junction.

R. C. C. Railings.

- (1) Sion Road No. 1 and Sion Road No. 3.
- (2) Dr. Babasaheb Ambedkar Road near Kings Circle.
- (3) Swatantrya Veer Sawarkar Marg Junction Dr. Annie Besant Road.
- (4) Grant Road Junction Tardeo Road and Gowalia Tank Road.
- (5) Rafi Ahmed Kidwai Road—from Wedels to Sewri.
- (6) Reay Road Junction Mather Pakhadi Road.
- (7) Reay Road Junction Tank Bunder Road.
- (8) Lakhamsi Napoo Road near King George High School.
- (9) Balchandra Road Junction Khareghat Road.
- (10) Lady Jamshedji Road Junction Sitaladevi Road.
- (11) Lady Jamshedji Road Junction Takardas H. Kataria Road.
- (12) Bhawani Shankar Road Junction Jawale Marg.
- (13) Cadell Road.

Removal of obstruction from roads.

662 vehicles causing obstruction to the traffic were removed to the municipal custody during the year under report.

Appendix No. 18 shows the roads on which regular lines were proposed or prescribed or revised in the city.

Traffic Signals.

Statement of Automatic Traffic Signals with provision of guard railings installed and cost borne by the Government during 1970-71 in the City.

Serial	Location.	Cost of equipment and Installation
		Rs.
1.	Century Bazaar.	24,711.88
2.	Bandstand, Chowpatty.	52,320.43
3.	Sewree Station.	13,807.55
4.	Lady Haridinge Road.	54,714.16
5.	Sitaladevi.	53,140.12
6.	Shivaji Park Road No. 5.	48,806.64
7.	Shivaji Park Junction.	91,905.60
8.	Flashing Beacons on R. A. Kidwai Road.	18,716.82
9.	Interlinking of signals from Sitaladevi to City Light.	47,075.97

Graph showing progress of the work is given in Appendix No. 1.

III I—Improvement of Private Streets.

1. Private Street Section comprising of City, Suburbs, and Extended Suburbs was in charge of the Dy. City Engineer (Roads) upto 22-8-1970 after which City Engineer's Department was decentralised into 3 zones and since then Private Street Section for city was in charge of the Dy. City Engineer Zone— I.

2. Action under Section 305 of the B. M. C. Act was taken in case of private streets in sanctioned layout.

3. The details of action for the improvement of Private Streets at 3 localities in City, are given in Appendix No. 19.

4. Government passages were not taken over for the improvement and maintenance during the year under report.

5. Notices under Section 305 of the B. M. C. Act were served against the owners of the premises fronting or adjoining 4 private streets (1) Private Streets in Tokersey Jivraj Adda off Tokersey Jivraj Road Sewri (2) Private Streets in Sunderjee Liladharwadi Sewri (3) Private Street near Strand Cinema (4) Private Street in Nawarar off Dockyard Road and the works were proposed to be carried out under Section 489 of the Act. The works in respect of Sr. Nos. 3 and 4 above were already taken in hand. The work in respect of (1) Private Street between Kakadwadi and V. P. Road and (2) Private Street off Bhulabhai Desai Road leading to Dhakleswar Temple was in progress (Details are at Appendix No. 2v).

6. The work of improvement of passage in private holding was not undertaken during the year under report.

7. Recoveries in respect of Improvement of private streets including deposits, interest etc. From the frontagers of the streets, in city for the works carried out in the past and proposed to be carried out amounted to Rs. 11,793.46 during the year under report as against Rs. 85,610.37 during the previous year.

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 Small Causes Court during the year under report.

10. Leave to appeal to Supreme Court is applied for in cases for six Municipal References dismissed by the Divisional Bench of the High Court as shown in Appendix No. 21.

11. Private Street known as Gowalia Chawl Lane off Globe Mill Passage upto Prakash Cotton Mills (P) Ltd. was declared Public on 24-2-1971.

12. In 4 cases, the preliminary action to Improve Private Streets under Section 305 of the Act was started during the year under report (Details are at Appendix No. 22).

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 system 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.	Rs. 20,38,712	Rs. 7,750.20
(2) Pipe Sewers.	4,02,483	5,075.10

Repairs to manholes and grating of water entrances:—

The statement below shows the details of the work done—

	Total No.	Total cost.
(1) Repairs to manholes.	82	Rs. 9,640.00
(2) Replacement of gratings.	167	54,735.55
(3) Removal of vent shafts.	4	17,434.63

Street Connection.—During the year 76 street connections of the buildings were made to sewers.

Requisition in respect of house drains—3899 Requisition under various Sections of the Act were issued against house owners for rectifying drainage defects.

Subvention Schemes.— The progress made on subvention Scheme in the City is detailed below:—

Privies in Private Buildings.

- No. of privies converted into W. Cs. 27 Nos.
- No. of privies on which the work was still in progress. 1 No.
- Fresh notices issued. 16 Nos.

Privies in Municipal Buildings.

(a) Estimates for connecting cesspools of 3 Nos. of seats, were prepared.

V.—PRIVATE BUILDINGS CONSTRUCTIONS (CITY)

Building Proposals.—1097 Proposals were received during the year. Out of these 388 were under Section 377 of the B. M. C. Act for construction of new buildings and 709 proposals under Section 342 of the said Act for additions and alterations to the existing buildings. The corresponding figures of the proposals under the above Sections of the Act for the previous year were 326 and 685 respectively.

New Buildings.—The position of residential tenements constructed by different agencies (other than Municipal) was as under:—

Agencies.	No. of proposals.
(a) Private enterprises.	52
(b) Co-operatives Societies.	17
(c) Employers for their employees.	3

The number of proposals for non-residential buildings received during the year under report was 106.

Building Collapsed.—170 Buildings or portions thereof collapsed during the year as against 107 buildings during the previous year. 77 Persons were injured and 25 were killed as a result of these collapses. The estimated damage to property was Rs. 5,77,580.

Actions under relevant Sections of the Municipal Act.—8069 Notices were issued during the year under different Sections of the Municipal Act. 3250 Notices were complied with during the year and 4819 were still pending compliance at the close of the year.

Removal of unsafe Building.—99 Unsafe buildings or portions thereof were removed departmentally Section 489 of the Act as against 169 removed in the previous year. The following table shows comparative figures for the two years:—

	1969-70	1970-71
(1) No. of actions taken departmentally	215 Nos.	348 Nos.
(2) Expenditure incurred.	Rs. 2,05,291.49	Rs. 3,18,805.67
(3) Irrecoverable expenditure,	Nil.	Nil.

Authorities granted under Section 499 of the Act.—73 Authorities were granted under Section 499 of the Act to carry out repairs to buildings. The No. of tenants took advantage of the same was 1,133.

Unauthorised structures.—During the year 1,176 unauthorised structures were detected in the city. In addition 181 cases of previous year were pending disposal. Unauthorised works in 215 cases were removed by parties themselves while in 158 cases the unauthorised works were removed departmentally under Section 352-A of the Act.

Complaints from the public.—47068 Complaints were received from the public during the year as against 69040 complaints during the previous year. Out of these 45933 complaints were looked into and disposed of at the close of the year.

VI.—FACTORY SECTION.

The following table shows the position of the factory section in city.

Serial No	Particulars.	Nos.
1.	No. of application received.	1014
2.	No. of applications disposed of.	926
3.	No. of applications undisposed of.	115
4.	No. of new permits issued.	1000
5.	No. of old permits renewed.	1698
6.	No. of prosecutions launched.	818
7.	No. of prosecutions decided in favour of the Corporation	552
8.	No. of prosecutions pending.	250
9.	Amount of fine recovered.	Rs. 20450
10.	Total Revenue collected.	Rs. 4,19,853.88
11.	No. of complaints received.	191

VII.—MECHANICAL BRANCH.

Municipal Workshops.

During the year under review, the Municipal Workshops received 4427 fresh jobs. Total numbers of jobs completed during the year was 3679. The total expenditure on the Departmental works amounted to Rs. 9,50,361. as against Rs. 9,83,518. in the previous year. The up-keep and overhead charges amounted to Rs. 2,08,291. which worked out to 21.91 per cent incurred on labour and stores. The labour strength during the year was about 440 and there were 297 Nos. of working days during the year.

In the Machines shop, besides day-to-day maintenance and repairs works various types of other works such as manufacturing of a number of impellers, repair to sewage pumps, castings complete overhauling of large sized sewage pumps, manufacturing large shafts of stork pump, booster pumps, repairs to steel furniture of Municipal Hospitals were carried out. In addition to this a number of special brass studs, brass spindles for sluice valves were manufactured.

In the Boiler shop, the manufacture of refuse-bins and wheel barrows for Conservancy Branch was the major job carried out throughout the year. These refuse bins were fabricated out of old asphalt drums and 11 corrugated sheets. In addition to this a number of various types of steel hand carts, wind screens and food trolleys for hospitals were fabricated. Also repairs to shroudings of large sized pumps, repairs to screening apparatus, sliding chutes, hot drums, road rollers wheels, Tar-boilers and manufacture of aeration cones were carried out.

In the Carpentry, shop, in addition to usual works of repairs and polishing to chairs, tables, etc. the work of manufacturing of laboratory counters, cash counters and special types of cabinets, was carried out. Also wooden hand carts and spare wheels for road departments and wheel barrows required for the Conservancy department were manufactured and supplied.

In the foundry shop, besides normal production of ferrous and non-ferrous castings, special type of castings such as pump castings, impellers wearing plates, bearing houses, special C. I. distant pieces and 'Y' pieces were manufactured. Scheduled castings required by C. S. were also supplied. Brass covers for water meters and dust-boxes were also manufactured and supplied to Water Department.

In the paint shop, besides the day-to-day works of painting of name boards for various municipal departments the work of painting Municipal vehicles, hospital steel furniture, wooden hand carts and wheel barrows was carried out.

During the year the "Productivity Unit" of the Corporation took up the study work of all the shops of the Workshop. Most of the methods recommended for improvement in the Foundry shop were followed up.

The following budgetted works were also carried out during the year.

- (1) Extension of the Stores in the Machineshop.
- (2) Re-wiring of the offices and shops in the Workshops.
- (3) Concreting flooring of Carpentershop.
- (4) Oil-painting the office and other buildings in the Workshop compound.
- (5) Replacing the corroded roof of the foundry shop.

MUNICIPAL FOUNDRY.

During the year, about 302 jobs were received from our Workshops and other departments for supplying different kinds of castings. Further, 8 work orders from C. S. for the supply of 800 Nos. of C. I. manholes covers & frames complete and 21 work-orders from other departments for supply of 258 manholes covers etc. were received.

Out of 302 jobs received during the year, this Section has completed 256 jobs. 743 Nos. of C. I. manholes complete were supplied to C. S. and other departments.

The rates for different types of castings were sanctioned by M. C. for the year 1970-71 depending upon the cost of raw materials and labour cost as the Foundry is working on Suspense Account basis.

The details of total out-put during the year under report alongwith sanctioned rates are given in the accompanying Appendix No. 23.

Many intricate casting (special type) ferrous and non-ferrous were manufactured like dust boxes, meter lids, out centre bends, pipes, exhaust aluminium fan and some different type of clost type impellers.

The quantity and soundness of the product was up to the mark. The rates also compared more favourably with those in the market.

DESIGN SECTION

This section carries out the work of preparing estimates for all types of mechanical works of this department. This section prepares drawings, blue-prints and specifications for machinery, furniture and mechanical equipments for various departments. 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, water pumps, gymnastic apparatus, etc.

The following important items were carried out during the year under report :—

A. Drawings, estimates and specifications were drawn for following works :—

- (1) Fabricating steel derricks in sections.
- (2) Providing various counters, such as administrative counter, Police Counter, gift shop counter, etc. in O. P. D. at K. E. M. Hospital.
- (3) Replacing aeration cone at Colaba Purification Plant.
- (4) Fabricating and fixing scraper arm at Varsova P. Plant.
- (5) Providing scraper manhole cover in 'A' Ward.
- (6) Manufacturing and fixing ornamental gates at Horniman Circle Garden.
- (7) Providing and installing two high pressure pumps in Ward No. 4 at Kasturba Hospital.

B. *Following important works were carried out during the year :—*

- (1) Providing cash counter in 'E' Ward Office.
- (2) Renewed M. S. chimney of dust exacter plant at Asphalt Plant.
- (3) Renewed M. S. chimney of Pegson Plant at Asphalt Plant.
- (4) Renewed M. S. chimney at disinfectant boiler at G. T. B. Hospital.
- (5) Shifted three air compressor plants from old Building to New Building of Dental College of Nair Hospital.
- (6) Repaired two flood gates at Cleve land Bunder.
- (7) Removed three vent shafts in B. I. T. chawl area at Delisle Road.
- (8) Removed one vent shaft at Fergusson Road Chawl.
- (9) Repaired G. I. wire mesh fencing at Marine drive for about 450 Mts.
- (10) Completed erection work of Paraday Cage at K. E. M. Hospital.
- (11) Purchasing and fixing one air exhaustor at Municipal Printing Press.
- (12) Polishing wooden furniture at various Municipal institutions.
- (13) Repaired about 150 Nos. of water storage tanks.

During the year 36 tenders including sealed quotations were invited and 120 estimates amounting to about Rs. 5,00,000, were prepared. 86 new drawings were prepared, 13 retracing were done, about 36 sketches were drawn, 550 blue prints prepared and 1118 out door mechanical jobs were carried out at a total cost of Rs. 4,40,000.

MUNICIPAL POWER LAUNDRY.

Municipal Power Laundry rendered washing service to about 40 medical institutions of the Corporation. As reported last year washing of hospital linen through the Municipal Power Laundry was extended to all the Municipal Hospitals and Maternity Homes in City, Suburbs and Extended Suburbs by discontinuing washing of linen through private agency.

During the administrative year the Laundry started functioning in two shifts and washed 49,93,864 linen of 40 institutions. The rate of washing was fixed at Rs. 25.00 per 100 pieces of linen.

To augment the capacity of Municipal Power Laundry two works were started in laundry.

- (1) Installation of two additional washing Machines and one Hydro-extractor through M/s. R. Dilip and Co.
- (2) Ramodelling Steam supply system to washing and drying Section through M/s. Shah Industries.

The first work was in progress while the second one was completed.

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 is entrusted with the preparation of estimates and invitation and recommendation of tenders for electrical works in the municipal buildings newly constructed under the Loan Works Programme, throughout the Greater Bombay.

The details of the proposals disposed of during the year are as under :—

City Area.—In all 46 estimates amounting to Rs. 29,06,677. were prepared, 18 draft—tenders finalised, and 11 tenders were invited and 11 tenders amounting to Rs. 8,71,305. recommended as given in the accompanying Statement 'A'.

2. *Building Construction Section.*—Consequent upon the reorganisation of the Engineering Department on the Zonal basis, this section was also reorganised on Zonal basis since 1st September 1970.

The erst while A. E. Electrical (B. C.) (City) has now been entrusted with the execution of works in the Zone-I area and designated as A. E. Electrical (B. C.) Zone-I with his office at 'E' Ward.

The erst while A. E. Electrical (B. C.) Subs. has now been entrusted with the execution of works in the Zone-II and Zone-III areas and designated as A. E. Electrical (B.C.) Zone-II and III with his offices at Bandra and Ghatkopar, respectively, which he attends alternately.

The Building Construction Section is entrusted with the supervision of contract works in respect of contracts awarded by the Planning and Design Section.

This section has also to arrange for the works of erection of Sub-Stations, laying of Service Cables and installation and connection of Meters through the Supply Cos.

There were 13 contract works amounting to Rs. 10,32,266. completed and 5 works amounting to Rs 8,57,393. in progress during the year as given in the accompanying Statement 'A'.

3. *Refrigeration Section* :—This section is entrusted with the preparation of estimates, invitation of tenders and quotations and their recommendations and supervision of contract works for purchase and installation of new air-conditioning and refrigeration machinery under the Loan Works programme as well as under the Revenue Budget and also repairs and maintenance of the existing machinery for all the departments in the City and the Suburbs.

There were 33 estimates amounting to Rs. 19,96,896. prepared 9 Draft-tenders finalised, 34 tenders/quotations invited, 29 tenders/quotations amounting to Rs. 4,84,257. recommended and 18 contracts for works amounting to Rs. 1,15,511.16 were awarded during the year as given in the accompanying Statement 'B'.

4. *Plant and Machinery Section* :—This Section is entrusted with the works of (i) Maintenance, additions and alterations or rewiring of the electrical installations in the existing Municipal Hospitals and Medical College Buildings, Medical Staff Quarters, Workshops, Power Laundry, Swimming Pool, Asphalt Plant, Cold Storage Plant, Electric Crematorium, Pumping, Compressor Stations and Purification Works in the City, either departmentally or by contracts, (ii) Supply and installation of Water pumping Sets at the above Buildings as and when required. (iii) To prepare necessary estimates for the above works (iv) To arrange for laying of Service Cables and installation and connection of Meters for the above works through the B. E. S. & T. Undertaking (v) To repair electrically operated machinery equipments and accessories owned by all the departments either departmentally or by contracts.

(VI) To supervise the repairs and maintenance of electric lifts in all the municipal buildings through the respective Service Contractors and also to attend the periodical inspections of the lift installations by the Government Inspector of Lifts.

(VII) To carry out joint scrutiny of the tenders invited by the C. S. for annual purchases of electrical items.

(VIII) To scrutinise technically the proposals for purchase, repairs and maintenance or disposal of electrical plant & machinery, initiated by the various departments in the City.

There were 903 work Orders received from the various departments for execution of electrical works, out of which 622 jobs amounting to Rs. 1,71,145. were carried out departmentally and 220 jobs amounting to Rs. 1,23,294. were carried out through Contractors and 63 estimates amounting to Rs. 8,18,638. prepared during the year under report as given in the accompanying Statement 'C'.

5. *Ward Maintenance Section* :—This section is entrusted with the following work :—

(I) To prepare estimates for electrical works in the existing municipal properties mentioned in the accompanying Statement 'D'.

(II) To carry out rewiring of electrical installations, providing new electrical installations, compound lighting etc. in the above properties, either departmentally or by contracts.

(III) To arrange for laying of Service Cables and installation and connection of Meters through the B. E. S. & T. Undertaking for the above works.

(IV) To arrange for shifting of Cables coming in the way of Road widening programme.

(V) To grant permissions for separate electric Meters to the Stall holders in the Municipal Markets. There were about 60 such permissions granted during the year.

(VI) To finalise lease agreements for the sites for establishing Transforming Sub-stations with the B. E. S. & T. Undertaking.

There were 125 estimates amounting to Rs. 17,35,629. prepared and 3 tenders and 85 quotations together amounting to Rs. 3,26,601. were invited and recommended during the year under report as given in the accompanying Statement 'D'.

There was no major breakdown or accident in any of the electrical installations during the year under report.

STATEMENT 'A'

Building Construction Zone—I (Electrical Section)

Serial No.	Description of the work	No. of works completed	Total cost	No. of works in progress	Total cost
			Rs.		Rs.
	Electrification of and providing water pumping sets at—				
1	Residential Buildings	3	2,42,981.00	3	1,92,271.00
2	Schools	1	17,429.00	...	...
3	Hospitals and Maternity Homes	1	4,835.00	1	2,09,122.00
4	Ward Offices	1	85,630.00	...	...
5	Markets	1	2,66,055.00	...	...
6	Rat Incinerator	1	5,888.00	...	...
7	Supply and installation of Electric lifts at Hospital Residential, office Market Buildings	5	4,09,448.00	1	4,56,000.00
	Total...	13	10,32,266.00	5	8,57,393.00

STATEMENT 'B'
REFRIGERATION SECTION
(City and Suburbs)

Serial No.	Nature of Proposals	No. of estimates prepared	Amount	No. of Draft Tender sent	No. of Tender advertised	No. of Tenders/Quotations Recommended		Amount	No. of works executed	Amount.
						Tender/Quotation				
			Rs.	LOAN WORKS			Rs.	Rs.		
1	Purchase of New equipment	35	28,37,779.75	7	5	5	...	12,10,000.00...	7	1,70,718.34
			REVENUE WORKS							
1	Purchase of New A. C. Units	...	...	...	...	...	8	1,08,976.00	8	1,08,976.00
2	Purchase of materials	...	...	...	...	...	1	1,854.00	1	1,854.00
3	Repairs works	...	...	...	...	...	12	12,595.00	12	12,595.00
4	Annual servicing Maintenance	...	...	...	...	...	4	6,163.00	4	6,163.00
TOTAL		35	28,37,779.75	7	5	5	25	13,39,588.00	32	3,00,306.34

STATEMENT 'C'
PLANT AND MACHINERY SECTION

Serial No.	Nature of work.	No. of work orders received.	No. of estimates prepared.	Total cost	No. of Jobs executed departmentally.	Total cost.	No. of quotations invited.	Total cost	No. of Petty enquiries.	Total cost
1	Providing electrical wiring installations, electrical connections for power, lighting, Rewiring etc.	355	41	3,99,333	262	1,26,484	5	11,094	13	3,403.00
2	Supply and installation of water pumping sets.	...	3	36,051	...	...	3	4,754	...	...
3	Supply and installation of lifts, Intercom-units, Geysers, Capacitors, Kitchen Equipment, etc.	...	7	2,64,505	...	...	...	...	2	34.00
4	Supply and installation of Ceiling, Table, Exhaust and Pedestal Fans, Air-circulators etc.	...	3	4,925	...	...	1	1,337	...	...
5	Supply and installation of Fluorescent Fittings, Duoflux Fittings, gate lights, Flood lights etc.	...	6	82,340	...	...	2	2,237	5	972.00
6	Purchase of cables and wires & other electrical accessories.	54	...	...	27	3,386	14	29,236	73	19,595.00
7	Supply of Busbars, Electric Motors, M. S. Boxes, conduit pipes, switch fuses, starters, etc.	...	2	27,862	...	...	5	6,324	22	5,412.00
8	Repairs, rewinding of electrical Motors, Pumps, repairs to ceiling fans, starters, Switch fuses and other electrical appliances and machines.	494	1	36,22	333	41,275	14	13,749	55	13,601.00
9	Servicing and maintenance and repairs of electric lifts and Inter Com Units.	...	...	...	...	...	6	10,830	2	410.00
..TOTAL		903	63	8,18,638	622	1,71,145	50	79,561	170	43,7330

STATEMENT 'D'
WARD MAINTENANCE SECTION.

Serial No.	Type of Buildings.	No. & Type of Estimates			Total cost of Estimates.	Tenders/Quotations for					Total cost.
		Electrification and Rewriting. Providing Fluorescent fittings etc.	Providing water pumping sets and projector Machine.	Providing ceiling fans, exhaust fans Air circulators, Table fans		Electrification, re-wiring, compound lighting, passage lighting.	Supplying & Installation of water pump sets, starters & other spares, etc.	Supply & Installation of ceiling fans, exhaust fans Air circulators, Geysers, & Other articles.	Supply & installation of lighting fittings etc.		
1	2	3	4	5	6	7	8	9	10	11	
1	Chawls & Staff Quarters.	38	7	..	Rs. 12,63,410	12 (2 Tenders)	17	..	..	Rs. 1,97,857
2	Schools.	..	4	2	52,041	1	6	4	..	25,419	
3	Markets.	..	8	1	1,07,570	5	6	4	1	21,139	
4	Offices.	..	8	2	25,562	1	3	1	3	7,712	
5	Maternity Homes.	..	6	..	32,349	4	2	1	1	10,118	
6	Dispensaries & Clinics...	2	..	4	15,344	1	..	..	..	1,212
7	Dormitory.	..	1	..	9,388	..	..	..	..	..
8	Cemeteries.	..	3	..	21,204	1	..	..	1	1,905
9	Fire Stations.	..	4	..	27,880	1	..	..	..	1,604
10	P. S. Cs.	..	12	..	11,266	3	..	..	..	1,262
11	Transport Garages.	..	1	..	1,450	2	..	..	..	8,472
12	Refuse siding.	..	1	..	9,775	1	..	..	..	10,113
13	Dumping Ground.	..	1	..	3,800	..	..	..	1	521
14	Night Soil Depot.	..	1	..	9,883	..	..	..	..	..
15	Stores Godown.	..	..	..	..	1	..	..	..	7,260
16	Birla Kreedra Kendra.	..	..	1	95,768	1	..	..	..	649
17	Gardens.	..	3	2	44,639	1	2	6	1	16,778	
18	Sports Club.	..	1	..	4,300	..	..	..	..	..
19	Dhobighat.	..	..	..	..	1 (Tender)	..	..	..	14,580
Total		..	94	17	14	17,35,629	36 (3 Tenders)	31	13	8	3,26,601

VIII.—TRANSPORT BRANCH.

The Transport Branch is entrusted with the maintenance and operation of vehicles for all Municipal Departments. Several obligatory and discretionary civic services are rendered by these vehicles. The fleet position in the city Branch for the year 1970-71 was as under :—

	Vehicles	Trailers.
1. No. of vehicles at the beginning of the year.	267	288
2. No. of vehicles added during the year.	63	...
Total :	330	288

The fleet consists of various types and makes of vehicles. To improve the working of the Transport Section, the different measures initiated in previous years viz., policy of standardisation, preventive maintenance, unit repairs etc., were continued. The following vehicles were purchased during the year.

1. Tata Diesel Heavy Duty.	7½ tons.	27 Nos.
2. -do-	5 tons.	8 Nos.
3. Dodge vehicles for Traffic Department.		4 Nos.
4. Jeeps, Ambulances and Pick Ups.		7 Nos.
5. Tempo Viking.		11 Nos.
		(including donations)
Total :		57 Nos.

In addition to the above vehicles, three Ambassador Cars were acquired through the State Government allocation and were in use for Statutory Committee Chairman. Further three vehicles were donated by UNICEF to be attached to the different hospitals.

The programme of scrapping old and unreliable vehicles was continued. 25 vehicles from City were put on scrap list and steps were being taken to sell them by inviting sealed offers.

Transport Stores :—The purchase of spares and other general automobile parts has now been taken over under the Central Control by the Transport Stores at Nimkar Marg. The requirements of Suburban Section were supplied through this store to a large extent. The policy of purchasing the spares either from direct manufacturers or their sole selling agents was continued to be followed in the interest of buying the spares at lowest and reasonable cost. The spares for the standardised vehicles were given departmental part nos. and yearly requirements were purchased taking advantage of the bulk order discount.

Garages :—The vehicles in the City are operated from different places for different services as given below :—

Place.	Service.
1. Municipal Workshop at Nimkar Marg.	Meat transport, materials transport vehicles for wards and Water Works etc.
2. Ambulance Garage at Sane Guruji Road.	Ambulances, hearses, V. I. P. cars, school clinic buses and cash vans etc.
3. 'D' Ward Garage Annesely Road.	Refuse Vehicles (Tractors and trailers).
4. G/North Garage, Dadar.	
5. Agripada Garage Souter Street.	Refuse vehicles as well as other services such as encroachment removal, dog and cattle vans, offal vans, Asphalted vehicles and other transport services.
6. Prabhadevi Garage N. M. Joshi Marg.	

Preventive maintenance of all these vehicles was organised with a view to reduce the number of break-downs and hold over periods in garages. The vehicles were painted every six to twelve months according to the schedule programme. A check was kept on the fuel consumption by attention to the working of mile meters etc. These and other similar measures helped to improve the operating efficiency which was kept on an average at 85 per cent.

The expenses of the department were met from the provision under Suspense Account which was reimbursed by preferring bills against the departments utilising the vehicles. The rates were decided by profit and loss account statement at the end of the year. Any increase or decrease in the rates as needed to balance the amount is made after the approval of the M. C. In view of the increased prices of spares, fuel and the labour charges the rates were revised in October 1970. The Budget for Transport Branch for City was in the order of Rs. 65 lakhs for maintenance and operation works.

IX.—Conservancy Branch.

Conservancy Branch alongwith Transport and K. D. Railway has been placed under the charge of Dy. City Engineer (Mechanical and Conservancy) with effect from 28th October 1970.

Street cleansing and collection, Removal and Disposal of garbage :—

All the public roads, foot paths and house gullies were cleaned daily in the morning as well as afternoon.

The refuse collected during street cleansing operations as well as from the residential premises was regularly removed by engaging necessary mechanical traction.

The final disposal of refuse was carried out by reclaiming low lying lands at Deonar and also at Dharavi. The average daily out put of refuse removed was about 1800 tons.

The following Municipal Transport was utilised for collection and transporting of refuse.

(1) Scammell Refuse Trailers. ... ..	...	...	...	...	180 Nos. per shift.
(2) Scammell Horses. ... ..	...	...	...	...	16 Nos. per shift.
(3) Trailer Tractor combination ... ..	...	...	...	...	12 Nos. per shift.
(4) General lorries (C. P. lorries) ... ..	...	...	...	...	8 Nos. per shift.

As the above Municipal fleet under reference was absolutely inadequate for the regular removal of refuse lorries were hired from private contractors.

Collection, removal and disposal of Night Soil and Cesspool effluent was carried out from 888 privy seats existing in F and G Wards by engaging 10 cesspool lorries. The maintenance of public Sanitary Conveniences was also done.

Dog Licensing Destruction and Immunization Work :

The work of licensing pet dogs as well as capturing and destroying dogs was carried out through out the year. During the year under reference 7869 pet dogs were licensed and 39683 stray dogs were captured and destroyed.

Removal and Disposal of Dead Animals :

Dead animals from the City were removed to Deonar. 89 big animals and 39220 small animals including the carcasses of dogs were removed to the Mahalaxmi Siding.

Veterinary Services :

The veterinary section of this Branch was in charge of the Hospital or Infectious Diseases of animals at Mahalaxmi Siding. Animals from private owners were also admitted in these Hospitals on payment of fixed fees. Immunization of pet dogs was also carried out at different Anti Rabic Centres and 243 dogs were immunized.

Private stables were visited for detecting infections of Rinderpest. Milch cattle arriving in the city were immunized against Rinderpest. The total number of animals immunized was 45955 and 58 suspected cases were kept under observation.

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. 3,91,035.75 and charges for cleansing of Government Foreshore amounting to Rs. 159786.00 were collected on this account.

Sweepers' Chawls

The Labour Chawls in charge of Conservancy Branch were regularly inspected and prompt action taken for rectifying sanitary as also structural defects noticed. Out of 7000 employees about 50% staff was provided with housing accommodation.

Co-operative Credit Societies for the Labour Staff :

There were in all 12 Co-operative Credit Societies with an aggregate membership of 5750 members for the benefit of the Labour employees of this Branch. The share capital subscribed was Rs. 37,20,675/-. The working of the Co-operative Credit Societies was satisfactory.

X—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 reservations under Section 37 as also for deletion of the reservations under Section 50 of the M. R. and 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 were forwarded to the Government and they were awaiting Government's sanction.

Development Plan roads and reservations were demarcated on site 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.

ACQUISITION OF LAND

Possession of 3 properties was obtained through the Land Acquisition proceedings and 2 properties were acquired by negotiations. Awards were made by Special Land Acquisition Officer in respect of 4 properties. Proceedings under Land Acquisition Act in respect of 68 properties were in progress. Proceedings to acquire lands by negotiations were in progress in respect of 8 properties. Set-back land rates in respect of 19 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 79 Municipal properties was fixed. No reserve bids in respect of any properties to be put to auction for recovery of arrears of assessment dues etc. were fixed.

XI—TOWN PLANNING SCHEME.

Within the limits of the City proper, there are four 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 Town Planning 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 being inter alia that the area is heavily encumbered, which is also the reason for non-completion of remaining works in remaining schemes also, there being no adequate alternative accommodation to offer to the persons likely to be dishoused.

Out of the aforesaid 4 Town Planning Schemes, the last one was already declared for variation and the draft scheme (1st variation) was submitted to Government for sanction in 1969.

It was also intended to take up schemes at Sr. Nos. 2 and 3 for variation.

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, sewers, S. W. Drains etc.

A—(a) Planning (Architectural).

Particulars.	General Building Works.
(i) Contract plans.	19
(ii) Cloth Tracing.	25
(iii) Paper Tracing.	232
(iv) Blue Print Copies.	4822
(v) Block Estimates.	11
(vi) Total amount of Block Estimates.	Rs. 7,62,45,265.00
(vii) Detailed plans and estimates completed in all respects (as shown below).	26
(viii) Total amount of detailed estimates.	Rs. 1,67,46,465.00
(ix) Draft tender.	21
(x) Detailed estimates in hand.	8
(xi) Total approximate cost of detailed estimates in hand.	Rs. 56,50,250.00

Particulars of detailed plans and estimates completed in all respects referred to above :—

Particulars	No. of Estimates.	Estimated Cost
(i) Schools (Permanent).	5	Rs. 31,19,272.00
Schools (Temporary). ... ..	...	...
(ii) Centralised Ward Offices.	3	26,63,718.00
(iii) Markets.	2	22,13,526.00
(iv) Markets (Temporary). ... ..	...	...
(v) Hospitals, Maternity Homes and Dispensaries.	2	29,35,062.00
(vi) Miscellaneous.	14	58,13,887.00
Total :	26	1,67,45,465.00

A.—(b) Planning (Bridges)

Particulars	
I—Contract Plans ... ..	...
II—Cloth Tracing ... ..	...
III—Paper Tracing	12
IV—Blue Print Copies	206
V—Block Estimates	4
VI—Total amount of Block Estimates	Rs. 1,34,20,000.00
VII—Detailed plans and estimates completed in all respects as shown below	2
VIII—Total amount of detailed estimates	Rs. 38,82,282.50
IX—Draft Tenders	1
X—Detailed estimates in hand	2
XI—Total cost of detailed estimates in hand	Rs. 1,30,00,000.00
XII—Scrutiny of plans received from	
(a) Railways	11
(b) Private Parties.	4
XIII—Scrutiny of estimates received from Railways.	3

A.—(c) Planning (Sewers, S. W. Drains, Pumping Stations etc.).

Particulars						
1. Paper Tracing ...	...	...	...	...	...	163
2. Cloth Tracing ...	...	...	...	...	...	28
3. Contract Drawings	...	...	...	...	...	691
4. Blue Print Copies	...	...	...	...	...	1369
5. Amount of Estimates prepared	...	...	...	...	...	Rs. 2,97,96,790.00

A(d)— Planning (Electrical)

Description	No. of Estimates prepared	Amount	No. of draft Tenders sent	No. of tenders Advertised	No. of tenders recommended	Amount
		Rs.				Rs.
Schools ...	8	2,97,350.00	3	2	2	58,500.00
Tenements ...	9	5,31,830.00	2	...	...	...
Markets ...	2	1,57,500.00	1	1	1	38,500.00
Plant & Machinery ...	4	1,40,085.00	2	2	2	1,07,438.00
Offices ...	6	2,36,388.00	2	...	...	...
Hospitals ...	4	2,55,600.00	2	...	...	...
Fire Stations ...	2	1,13,000.00	1	...	...	...
Lifts ...	2	2,21,550.00	...	...	...	...
Miscellaneous ...	8	3,33,864.00	2	1	1	55,800.00
Total ...	45	22,88,167.00	15	6	6	2,60,238.00

(B)— DEONAR ABATTOIR.

The supply of wholesome and hygienically cleaned meat is the necessity of the day. The present Abattoir at Deonar, which is in the commissioning stage will not only satisfy the consumer in quantity and quality of meat but will also contribute to the national growth by producing the by products viz Industrial tallow, edible tallow, bone meal, etc.

The Abattoir at Deonar which is the first of its kind in India is designed to slaughter in six hours.

- (1) 6000 sheep and goats in Sheep Slaughter House,
- (2) 300 bullocks and buffalos in Cattle Slaughter House
- (3) 100 sheeps and goats and 10 cattle heads in emergency Slaughter House.
- (4) 200 sheep and goats and 4 cattle heads in Jewish Slaughter House.
- (5) 100 sheep and goats in Jhatka Slaughter House and,
- (6) 100 pigs in Pig Slaughter House.

Apart from these main slaughtering units, there are provided spacious platforms and pans for loading, unloading and ante mortum inspection of all animals, live stock market sheds for sale of animals, office building for Dalals Shroffs, Canteen building, time office, separate liarages attached to each slaughtering unit for accommodating one day's kill, modern edible & inedible by-product plants, fresh water pumping station for supplying 1,50,000 litres of water per hour, waste treatment and recovery plant, cold storage plant for chilling and freezing of meat, and most modern boiler house having an installed capacity of 860 boiler h. p. for producing 1380 kg. of steam per hour required for various processes and hot water.

These various slaughtering units and ancillary buildings are well laid out leaving ample space for internal roads and lawns and spacious grazing yard for accommodating about 25000 animals at one time. The entire plot of the Abattoir is served by very wide and well lighted peripheral roads.

Sanitation of the entire premises is given prime importance. The entire plot is served by efficient storm water drains, complete underground services for domestic sewers, wash water and paunch contents. The other services include washing of all the dressing floors during slaughtering and entire premises after slaughtering with high pressure hot and cold water, sterilising of all the over head trolley, equipment and skids, gembrells, various transporting equipment, butcher knives etc. and all other equipment and tools coming in contact with the dressed carcasses and other meat products washing of animal carcasses during slaughtering process and after slaughter by warm water at very high pressure, segregation of edible & inedible products etc. All the slaughtering units are also made fly-proof and bird proof. Efficient disposal of manure and animal excreta also features very prominently.

The Abattoir when commissioned, will have about 600/700 workers in various categories. These workers will enjoy all the amenities viz. glarefree artificial lighting designed to international standards, well ventilated and spacious working places, artificial ventilation in certain rooms, spacious lavatory blocks and bath rooms, hot & cold water hand washing facilities on all dressing floors and processing rooms, clothing, spacious dining individual lockers of special design separate lockers rooms hall and canteen facilities. The safety of the workers is also taken into consideration. First aid boxes are provided in each individual units. Protective equipment and clothing for workers are proposed to be provided. In addition, the entire premises are provided with fire fighting system.

While planning the Abattoir, the development of the adjoining industrial zone is taken into consideration. Provision is already made for housing a number of industries based on the material available in the Slaughter House. The starting of abattoir will also encourage shifting of the tannery from centre of the town, thus implementing the Municipal zoning policy as well as releasing considerable area for housing and other purposes.

During the year under report the details of works which are completed in all respects are given in Appendix No. 24. The details of works in progress are given in Appendix No. 25, while the details of new works started are given in Appendix No. 26.

The trial test runs were proposed to be started in May 1971 under the supervision of the Australian Contractors' representative.

The project when completed in all respects was estimated to cost Rs. 4.16 crores out of which Rs. 2.41 crores approx. have already been spent upto 31st March 1971.

(C.)—CONSTRUCTION BRANCH.

(i) Building Construction Branch.

During the year under report, zonal set-up was established and construction branches of Building, Roads and Drainage have been brought under the control of zonal Dy. C. E's.

The Building Construction Branches of Zone-II & Zone-III supervise the work of building construction after award of contracts by the Planning and Design Branch.

Particulars of Building Construction activities during the year are given below :—

	COMPLETED WORKS		WORKS IN PROGRESS	
	Nos.	Total cost (Actual)	Nos.	Total cost (Estimates)
		Rs.		Rs.
(1) Buildings other than housing	5	10,95,193	14	2,36,00,826
(2) Housing	3	43,09,718	2	1,16,32,862
(3) School Buildings	5	9,20,541	7	66,75,926

The statement showing the works completed and those in progress appears in Appendix No. 27.

(2) Road Construction Branch.

This branch is in charge of the works of preparing plans estimates of resurfacing of existing roads, construction of new roads, widening of roads and improving private streets, and construction of Storm water drains. (2) Invitation of tenders and awarding contracts of road and S. W. drain works. (3) Supervision of road and S. W. drain works.

During the year this branch has carried out 9 works of construction of New roads, widening of the existing roads with footpaths and storm water drains to meet the increased traffic requirements.

The works shown in the appendix No. 28 were in progress during the year under report.

(3) Drainage Construction

This branch is in-charge of "Providing and Laying underground sewer and also construction and training of major nallas and Pumping Stations". This branch attends to the work of execution only.

During this year 49 works were in progress. Some of these works were expected to be completed before the monsoon. This branch also completed works as shown in Appendix No. 29.

As anti-flood measures, several works of training of nallas were also taken up and they were in progress. These works will give considerable relief to the adjoining localities especially in the monsoon period. The expenditure incurred on account of this was to the tune of Rs. 6,00,000. Therefore the total expenditure incurred by this department on both the sewers and nalla works was approximately Rs. 24,00,000.

The progress of works of sewers and S. W. Drains carried out through contract during the year under review is as under :—

Serial No.	Particulars	Total Length	230 mm.	300 mm.	350 mm.	375 mm.	400 mm.	450 mm.	600 mm.	700 mm.	800 mm.	1200 mm.	1800 mm.	S. W. Drain
1	Total length of Sewers of various sizes	18654.52 R.M. 14690.50 R.M. 3292.88 R.M.					288.14	160		223 R.M.				277.36
2	Total No. of manholes provided on Sewers	696												
3	Total No. of Vent shafts provided on sewers	61 Nos.												
4	Cost incurred on Sewers and S. W. Drains	Rs. 31,09,951.88 (Sewers) Rs. 1,20,871.55 (S. W. Drains).												

(D)—UPKEEP, MAINTENANCE AND REPAIRS TO MUNICIPAL PROPERTIES, ROADS AND S. W. DRAINS.

Buildings.

An amount of Rs. 2,01,555.69 was spent during the year on normal repairs and monsoon works on 737 Municipal Buildings in the Suburbs where as an amount of Rs. 2,38,545.78, was spent on 132 Municipal Buildings in the Extended Suburbs. The repair works were carried out through the Petty works contractor. The expenditure on special repairs was Rs. 7,02,557.90 on the works carried out by the Petty Works Contractors in the Suburbs. The expenditure on special repairs carried out through the Petty Works contractors in Extended Suburbs arrived at Rs. 2,45,437.99.

No special repairs works were carried out departmentally in the Suburbs and Extended Suburbs.

(1) The length of various types of roads maintained in the suburbs and extended suburbs was as under :—

Serial No.	Type of Roads.		Suburbs	Extended Suburbs.
			K. M.	K. M.
(1)	Water Bound	...	24.62	3.00
(2)	Asphalt	...	342.00	166.11
(3)	Concrete	...	46.60	6.00
(4)	Unmetalled	...	2.65	18.00
Total			415.87	193.11

Important set-backs added to the public roads are shown in Appendix No. 30 and information regarding improvements of private roads is given in Appendix Nos. 31, 32 and 33.

Normal maintenance of Asphalt roads was carried out during the year at a total cost of Rs. 27,90,503.14 in the suburbs including cost of reinstatement of trenches opened by various departments and public utility concerns and at a total cost of Rs. 25,80,075.69 in the extended suburbs.

Total length of the roads in the suburbs and Extended Suburbs was 549.66 K.M. at the end of the year.

(2) Private Streets—Preliminary step to improve private street under Section 305 of the Bombay Municipal Corporation Act was taken in one case as shown in Appendix No. 34. Action under Section 305 of the Act was started in 2 cases as shown in Appendix No. 35.

(3) Foot-paths :—No new foot-path was constructed during the year in the Suburbs. The length of new foot-path constructed in the Extended Suburbs was 0.50 K.M.

(4) Measures to reduce flooding: Details of work are given in Appendix No. 36.

(5) Street Name Boards—An amount of Rs. 1253-60 was spent on fixing new street name board and repairs to the existing ones in the suburbs as against Rs. 4,720.0 in the Extended suburbs,

(6) Details of work (other than sewage) carried out under 'Loan Works' are given in Appendix No. 37.

Sewers and Drains.—The work of cleansing pipe sewers, ovoid sewers, storm water drains and open drains were attended to and the total silt removed from the suburbs during the year was 76754.25 M.T. as against 9700 M.T. removed in the Extended Suburbs.

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 private contractors and the total amount of royalty realised there from was Rs. 6,101.

Miscellaneous work.

(1) *Village Amenities.*—Statement showing the works carried out under Village Amenities appears at Appendix No. 38.

(2) *Public sanitary conveniences.*—Public sanitary conveniences were constructed at various places in suburbs as shown in Appendix No. 39.

Street Lighting.

The number of street lighting maintained in the Suburbs was 11,261 during the year and 5255 in the extended suburbs. The total expenditure incurred was Rs. 31,65,000.62 in the suburbs and Rs. 12,90,514.31 in the extended suburbs.

Graph showing the progress maintained on lighting arrangements in the suburbs and extended suburbs are given in Appendix No. 2 and 3 respectively.

Traffic Islands.

Traffic islands were constructed at the following places in the suburbs.

- (1) Sion Trombay Road near Swastic Mill.
- (2) Sion Trombay Road Jn. C. S. T. Road.
- (3) Sion Trombay Road near Post Office.
- (4) Sion Trombay Road near Diamond Creek.
- (5) Swami Vivekanand Road Jn. Station Road and near Manek Shaw Road, Khar.

R. C. C. Railings.

The work of providing and fixing R. C. C. Railings in the suburbs was carried out at the following places :-

- (1) Central Avenue Road Jn. 10th Road, Chembur.
- (2) Bombay Agra Road near Gopal Bhuvan.

Central Divider.

Central dividers were constructed at the following 2 places.

- (1) Central Divider along Sir M. V. Road, Andheri from Bamanpuri to Saki Naka.
- (2) Central Divider along Sahar Road on either side on anticrash kerbs of the row of columns of Andheri Road over bridge.

Statement of Automatic Traffic signals with the provision of guard railings installed and cost borne by the Government in the Suburs during the year under report.

Serial No.	Location.	Cost of equipment and installation.	
		Rs.	
1.	Andheri Kurla Road	...	51,817.43
2.	Nehru Road, Vile Parle	...	66,727.72
3.	Sahar Road, Andheri	...	64,580.35
4.	Bazar Road, Bandra.	...	17,732.00
5.	Interlinking of signals from Bandra to Mahim Causeway	...	42,330.81

Graph showing progress of the work of installation of Traffic signals in Greater Bombay is given in Appendix No. 1.

Appendix No. 32 shows the roads along which regular lines were proposed or prescribed on revised during the year 1970 71.

E.—INSPECTION AND SUPERVISION OF PRIVATE BUILDINGS.

Building Proposals :— 2,626 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 respectively were received during the year. The particulars are as under :—

Wards.	PROPOSALS.		Total No. of proposals.
	Section 337	Section 342	
H, K, P & R.	1141	542	1683
L, M, N & T.	602	338	940
	1743	880	2623

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 and R	714	377	71
L, M, N and T	736	172	32
	1450	549	103

The number of proposals for non-residential buildings by private enterprises was 607.

	H, K, P & R Wards.	L, M, N & T Wards.	Total.
(1) Completion certificates received during the year ...	822	475	1297
(2) Permits for building or building houses issued ...	1362	148	1510
(3) Total No. of buildings dealt with ...	3969	940	4909
(4) Total No. of buildings applications. ...	1785	940	2725

Details of the tenements constructed by private parties are given in Appendix No. 41.

City Survey Works.

Settlement Commissioner informed that 3508 printed C. T. S. sheets, so far as Zone II is concerned were available for supply. Necessary provision was in the budget for purchasing the sheet.

Layout, Amalgamation and Sub-Division in the Suburbs and Extended Suburbs.

PROPOSALS FOR

Wards.	Lay outs.		Amalgamation.		Sub-Div. under Sec. 302.	
	Received	Sanctioned	Received	Sanctioned	Received	Sanctioned
H	9	...	14	3	11	2
K	20	...	17	5	28	3
P	8	6	5	5	25	9
R	12	1	13	1	15	4
L	2	...	6	...	6	1
M	10	1	16	11	10	...
N	18	1	14	4	8	1
T	12	11	4	...	11	1

Statement showing the No. of proposals received for the commencement certificates in T. P. Scheme during the year 1970-71.

Serial No.	Wards.	Total No. of proposals received.	No. of proposals approved.
(1)	H	80	19
(2)	K	70	28
(3)	R	6	...
(4)	N	55	42

Unauthorised structures.—During the year 4,267 unauthorised structures were detected in the Suburbs and 1436 in the extended Suburbs. In addition 1603 cases of previous year were pending disposal in the Suburbs and 865 in the Extended Suburbs. Unauthorised works in 696 cases in the suburbs and in 196 cases in the Extended suburbs were removed by parties themselves while in 1800 cases in the 'suburbs' and in 373 cases in Extended Suburbs 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 in the Suburbs and Extended Suburbs was 4356 and 2420, respectively. The same were investigated and remedial measures were taken wherever necessary. Action in 1252 cases in the suburbs and in 400 cases in the extended suburbs was in progress.

Notices issued—The number of notices issued under different relevant sections of Bombay Municipal Corporation Act in the Suburbs and Extended Suburbs was 2288 and 2091 respectively, Prosecutions were launched against the house owners for non-compliance.

Building Collapse—The number of buildings or portion thereof collapsed during the year in the Suburbs and Extended Suburbs was 24 and 12 respectively and the number of persons injured was 4 in the Suburbs and the number of persons killed and injured in the Extended Suburbs was 5 and 23 respectively. The estimated damage of property was Rs. 1280 in the suburbs and Rs. 2500 in the Extended Suburbs.

Set-back land added to public roads—The total area of set-back land added to the public road in the suburbs during the year was 14185.74 Sq. Mts. as against 41522 Sq. Mts. in the Extended Suburbs and the compensation claims settled during the year amounted to Rs. 779757.62 and Rs. 142,386.80 respectively.

(F)—FACTORY SECTION.

The following table shows the position in the suburbs and Extended Suburbs of the factory Section :—

Serial No.	Particulars.	Suburbs	Extended Suburbs.
1	Applications received.	937	511
2	Applications disposed of.	865	449
3	Applications undisposed of.	72	62
4	New Permits issued.	484	411
5	Old permits renewed.	455	244
6	Prosecutions launched.	508	419
7	Prosecutions decided in the favour of the Corporation.	402	367
8	Prosecutions pending.	270	150
9	Fines recovered.	Rs. 9,085	Rs. 10,172.17
10	Total revenue collected.	Rs. 4,41,231.50	Rs. 2,34,971.40
11	No. of complaints received.	55	22

(G)—DEVELOPMENT BRANCH.

Acquisition of Land—Suburban Section.

Possession of 12 properties was obtained through the Land Acquisition proceedings and 10 properties were acquired by negotiations. Awards were made by Special Land Acquisition Officer in respect of 7 properties. Proceedings under Land Acquisition Act in respect of 89 properties were in progress. Proceedings to acquire lands by negotiations were in progress in respect of 92 properties. Set-back land rates in respect of 53 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 22 Municipal properties was fixed. No reserve bids in respect of any properties to be put to auction for recovery of arrears of assessment dues etc., were fixed.

(H)—TOWN PLANNING SCHEMES IN SUBURBS AND EXTENDED SUBURBS.

There are 25 Town Planning Schemes in the 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-	No. II. (2nd Variation).
3)	-do-	No. IV (1st Variation).
4)	-do-	No. V (1st Variation).
5)	-do-	No. VI (1st Variation).
6)	-do-	No. X.
7)	Town Planning Scheme Santa Cruz.	No. I (1st Variation).
8)	-do-	No. III. (1st Variation).
9)	-do-	No. IV. (1st Variation).
* 10)	-do-	No. V.
11)	-do-	No. VI.
* 12)	Town Planning Scheme Vile Parle	No. I. (1st Variation).
13)	-do-	No. III. (1st Variation).
14)	-do-	No. IV-IVA 1st Variation).
* 15)	Town Planning Scheme Andheri	No. I. (1st Variation).
* 16)	-do-	No. VI. (1st Variation).
17)	Town Planning Scheme Ghatkopar.	No. I. (1st Variation).
18)	-do-	No. II. (1st Variation).
19)	-do-	No. III. (1st Variation).

The works included in the finalised schemes have been 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 of the same etc.

* Various works included in the finalised Town Planning Schemes such as construction of roads were being executed by ward offices concerned. The development of final plots allotted to the Corporation for public purposes was also being done by them. The ward officers in charge of implementation of the Schemes were taking suitable steps in this regard.

B—Draft Schemes and variation of Schemes.

The Town Planning Schemes which have been marked asterisks under (A) above have been already submitted to Government after being declared for variation and the required procedure having been undergone, 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.

Town Planning Scheme Vile Parle No. V which was submitted to Government has been sanctioned by Government and the Town Planning Officer(Arbitrator) has come to be appointed for the same.

(C) Town Planning Schemes which are 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) Town Planning Scheme Santracruz.	...	No. II. (2nd Variation).
3) -do-	...	No. V. (1st Variation).
4) Town Planning Scheme Vile Parle.	...	No. II. (1st Variation).
5) -do-	...	No. V. (Principal).
6) -do-	...	No. VI. (1st Variation).
7) -do-	...	No. I. (1st Variation).
8) Town Planning Scheme Andheri	...	No. I. (2nd Variation).
9) -do-	...	No. VI. (2nd Variation).

As regards Town Planning Scheme Bandra No. III (1st variation) it is to be stated that the same is before the Town Planning Officer for redrawing the Scheme in the light of the decisions of the Board of Appeal. Since some of the decisions of the Board are not in the interest of the Corporation, a writ petition has been filed by the Corporation in the High Court. There was therefore, no further progress in the matter, though most of the works provided thereunder have come to be completed.

It was intended to declare for variation the Town Planning Scheme Ghatkopar No. III. The work of collecting the preliminary data was also taken in hand.

EXTENDED SUBURBS.

There are at present only 3 Schemes in the Extended Suburbs.

- 1) Town Planning Scheme Malad No. I (1st Variation).
- 2) Town Planning Scheme Borivli No. I (1st Variation).
- 3) Town Planning Scheme Borivli No. I (1st Variation).

Out of these 3 schemes the first one has been sanctioned by the Government and has come into force and the other two schemes are before the Town Planning Officer.

The intention to prepare Town Planning Scheme Borivli No. III has already been declared. The work of preparing the scheme was in progress.

It is intended to declare intention to prepare a new Scheme for the Mulund area. The work of collecting the preliminary data was in progress.

(I)—SUBVENTION SCHEMES.

(1) In all 617 notices under Section 213 were served and for 151 cases parties submitted their proposals and in 808 cases house owners carried out the work in compliance with the notices served on them.

In all 237 notices under Section 248 (i) (c) of the Bombay Municipal Corporation Act, for conversion of basket privies into water closets on 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. 51,200.00.

(2) The Corporation under their Resolution No. 2102, dated the 17th May 1968, and No. 858 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 implementation of the above scheme, 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 sewered areas and (2) a subsidy of Rs. 800. per privy seat converted into a water closet on septic tank system in unsewered 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 each 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 21st October 1958 and C. R. No. 1770, dated the 31st March 1969.

(J)—MECHANICAL BRANCH (North and Project)

The following sections are under administrative supervision and control of Executive Engineer Mechanical (North and Project).

- (1) Dadar Purification Works
- (2) Dharavi Purification Plant } Detailed report appears in City Section.
- (3) Sewage Pumping Stations and Purification Works in Suburbs.
- (4) Maintenance of Electrical installations in Suburbs.
- (5) Road Roller Section and Mechanical out door Section in Suburbs.
- (6) Planning and construction for mechanical and electrical works for Drainage installations Pumping and Purification Works in City and Suburbs.

(1) *Sewage Pumping and Purification Plants in Suburbs* :— Three sewage purification plants in Suburbs viz. Khar Purification Plant, Versova Purification Plant and Ghatkopar Purification Plant, each having a primary treatment capacity of approximately 9.00 Million Litres per day worked satisfactorily during the year except the normal break-down and major repair as shown below :—

Versova Purification Plant

(a) *Digestion Tank* :— This unit was put out of commission for the gunniting and replacement of uptake tube. Both works were completed.

(b) *Continuous flow settlement tank* :— This unit was put out of commission for the repair of uptake tube and rotating and scrapping mechanism.

(c) *Consolidation Tank* :— Rotating arms, scrapping mechanism and uptake tube were replaced.

Ghatkopar Purification Plants

Digestion Tank— This unit was put out of commission for gunniting work and replacement of uptake tube. The work was expected to be started shortly.

As the sludge gas at these plants contains H₂s, the same is directly burnt through waste gas burners instead of utilising for domestic purposes.

The eight sewage pumping stations in suburbs (five independent and three attached to the purification plants) worked quite satisfactorily during the year. The total sewage quantity pumped was 54564 Million Litres. The salient features regarding operation and performance at the pumping station are given in Appendix 42. A graph showing the sewage pumped in suburbs for the last four years is shown in Appendix No. 4.

4. *Maintenance of Electrical installations in Suburbs* :— The electrical staff for maintenance of Electrical installations etc. attached to the wards working under technical guidance of this department attended to various maintenance works departmentally. The total cost of these departmental works came to Rs. 2,04,700.00. Also about 120 estimates amounting to Rs. 3,15,000. were sent to different Departments.

In addition to above works, the works of electrification providing water pumping sets at various institutions etc. were carried out by inviting tenders, the total cost of which came to Rs. 42,300.00.

5. *Road Roller Sections and Mechanical out-door Section in Suburbs* :— There were 23 Road Rollers for the entire area of suburbs and extended suburbs out of which 8 were steam rollers and remaining 15 diesel rollers.

On an average 72 per cent of the road roller fleet was on the road during the year.

In addition to above fleet, one number of vibrating Roller (500 kg.) which was purchased last year was found to be giving good service.

Out-door mechanical repairs at various installations, Hospitals, markets, gardens etc. in suburbs and extended suburbs were carried out by out-door section. The repair works generally consisted of repairs to collapsible gates, rolling shutters, iron gates, tar boilers, water tanks, repairs to pumps and such other minor mechanical jobs costing Rs. 45,616.90.

6. *Planning and construction for mechanical and electrical works for Drainage installations and Swimming Pools (Pumping and Purification Works) in City, Suburbs and Extended Suburbs* :—

- | | |
|-----------------------------------|--|
| (1) Dharavi Pumping Station | ... The work of installation of mechanical and electrical works, Extension Plant completed. Tests and trials were in progress. |
| (2) Salt Pan Pumping Station | ... The work completed and Pumping Station was put into Commission. |
| (3) Deonar Pumping Station | ... The work completed and pumping station put into commission. |
| (4) Mulund Pumping Station | ... The civil work was in progress. Some mechanical and electrical equipments were received on site. |
| (5) Kherwadi Pumping Station | ... The civil work was in progress. The bulk of mechanical machinery was received on site and the civil work was in progress. |
| (6) Malad Pumping Station | ... The work was completed. The [tests] and trials were in progress. |
| (7) Robert Road Pumping Station | ... Tenders were received and were being processed. |
| (8) Church Street Pumping Station | ... Specification and design finalised. |
| (9) Goregaon Pumping Station | ... Specification and design was being finalised. |
| (10) Jacob Circle Pumping Station | ... Tenders for 1 additional pump were received and put up for sanction. |
| (11) Jai Bharat Pumping Station | ... Mechanical and Electrical equipments were received at site and the work was in progress. |
| (12) Versova Purification Plant | ... Gunniting of digestion tank and replacement of uptake tube was completed. |
| (13) Kandivali Swimming Pool | ... The work completed and pool was thrown open for the public. |
| (14) Ghatkopar Swimming Pool | ... The work completed and the pool was under testing and trial and was expected to be opened for the public shortly. |

In addition to above project works, tenders were invited for 50 nos. of new B. C. Four wheeled open refuse wagons by this office for K. D. Railway. The same were being finalized.

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 (Suburban Area).

In all 45 estimates amounting to Rs. 22,88,167. were prepared, 15 draft tenders finalised and 6 tenders were invited and 6 tenders amounting to Rs. 2,60,3388.00 were recommended.

(2) Building Construction Section (Zone II and III).

There were 3 works in Zone II and 9 works in Zone III together amounting to Rs. 4,53,509 completed and 3 works in Zone II and 5 works in Zone III together amounting to Rs. 10,60,907. in progress during the year as shown in the following statement.

The Statement showing the Electrical Works in Building Construction Section Zone II and III during the year 197.-71.

Serial No.	Description of works	No. of works completed		Total cost.	No. of works in progress		Total cost
		Zone II	Zone III		Zone II	Zone III	
				Rs.			Rs. P.
Electrification of and providing water pumping sets at—							
1	Residential Buildings ...	...	1	1,05,214	...	1	96,454.00
2	Schools ...	1	5	1,42,482	1	...	538.00
3	Hospitals & Maternity Homes ...	...	1	11,238	...	2	7,97,068.00
4	Ward Offices ...	...	...	...	...	1	22,254.00
5	Markets ...	...	...	...	...	...	...
6	Gardens ...	...	...	...	...	...	...
7	Rat Incinerator ...	...	...	...	...	...	...
8	Supply & Installation of electric lifts at Hospital & Office Buildings ...	...	...	...	1	1	1,22,280.00
9	Cemeteries ...	1	...	20,501	...	...	...
10	Miscellaneous ...	1	2	1,74,074	1	...	22,313.00
		3	9	4,53,509	3	5	10,60,907.00

(K) TRANSPORT BRANCH

The Suburban Transport Section works under the direct control of Executive Engineer (Transport) who is assisted for day-to-day works in Suburbs by the Asstt. Engineer. The office of the Asstt. Engineer is situated at S. V. Road Opp. B. E. S. T. Depot, Santacruz, Bombay.

The fleet position in the Suburbs and Extended Suburbs in the year under review is given below :—

	Vehicles	Trailers
(1) No. of vehicles at the beginning of the year ...	219	...
(2) No. of vehicles added during the year ...	20	...
	239	

The above fleet is garaged at different places as stated in the statement below :—

Serial No.	Ward	Location	Type of vehicles
1	K Ward	Chunna Bhatti, Opp. B.E.S.T. Depot, S.V. Road, Santacruz (West), BOMBAY 54.	Cesspool, Dog, Van, Night Soil Trailers, Encroachment Van, Pick Up, Jeep, Cash Van.
2	L & M Wards.	Opp. Kurla, Court, B. A. Road, Kurla, Bombay 70.	Refuse, cessoppl, Pick Up, Jeep.
3	Do.	C. S. T. Road, Kurla, Bombay 70	Do.
4	N & T Wards.	Park Site, Near Godrej Co. Vikhroli Bombay,	Do.
5	P Ward	Underai Road, Opp. Malad Police Station, Malad (West), Bombay 64.	Refuse, Pick Up, Cesspool, Dog Vans, N. S. Trailers.
6	R Ward.	Old B.E.S.T. Depot, Borivli	Refuse, Cesspool.

In line with the policy of standardisation pursued by this Branch, only vehicles of standard makes were purchased. The addition of vehicles with their makes is given below :—

(1) Tata Diesel Heavy Duty 7½ tons	...	...	...	...	7 Nos.
(2) Tata Diesel Heavy Duty 5 tons	...	...	...	...	2 Nos.
(3) Fargo and Dodge Vehicles for Traffic Department	...	...	...	...	7 Nos.
(4) Tempo Viking	...	...	...	...	4 Nos.
				Total	20 Nos.

The programme of scrapping old and unreliable vehicles was continued. 15 such vehicles were put on scrap list and steps were being taken to sell them by inviting sealed offers. The Conservancy Services in Suburbs were managed to a major extent by departmental vehicles. Requirements of about 80 per cent. of refuse vehicles and 100 per cent. of C. P. vehicles were met by this department. The C. P., refuse and dog van services were working in two shifts. A portable 2" pump operated by petrol engine was introduced in different wards and was found to be working satisfactorily for pumping out all cesspool and septic tank contents. The vehicle with a powerful suction device was also being developed on experimental basis to clean the sludge from septic tanks etc.

Stores.—The requirements of various garages in Suburbs were collected by the main Sub-Store at Santacruz from Central Transport Stores at Nimkar Marg. All spares of the standardised vehicles and items of general nature were drawn from Central Stores. Only in the case of non-standard and old vehicles, Santacruz Stores took independent action to procure the urgent requirements. The preventive maintenance of all these vehicles was organised. A system for painting these vehicles was also drawn up. These and other measures could not be implemented to the full extent as the Suburban Transport Section was suffering from acute shortage and adequate garaging spaces. The works at Santacruz Central Workshop and the Garage at C. S. T. Road, Kurla could not be completed during the year as the contractors stopped their work at these sites. The Plot at Poiser, Municipal Industrial Estate, was filled up for parking of vehicles until a regular garage is constructed on the Plot. The B.E.S.T. Depot at Borivli was acquired in March 1971 for construction of a garage. During the year, the major repairs on all the vehicles were carried out at Santacruz Workshop. The different garages are given over-hauled units for replacement. The body repairs were, however, carried out at different garages.

The expenses of the department were met from Suspense Account and were reimbursed by preferring bills against the departments utilising the vehicles. The rates were decided by preparing a profit and loss account statement at the end of the year. The Budget for Transport Branch for Suburban Section was in the order of 42 lakhs for maintenance and operation works.

(L) CONSERVANCY BRANCH

The Suburbs and Extended Suburban area has been divided into three Ranges (Range I, II and III) for the discharge of administrative and executive functions of the Branch. These Ranges were looked after by the Assistant Head Supervisors.

(1) *Cleansing of roads and footpaths.*—The roads, footpaths and open places were swept in the following manner.

(a) Twice Daily	...	...	...	...	23,61,129 Sq. Metres.
(b) Once Daily	...	...	...	...	37,66,795 Sq. Metres.
(c) Twice a week	...	...	...	...	14,49,482 Sq. Metres.
(d) Once a week	...	...	...	...	1,00,158 Sq. Metres.
(e) Occasionally	...	...	...	...	1,33,000 Sq. Metres.
					78,15,564 Sq. Metres.

(2) *Collection, Removal and Disposal of Refuse.*—(a) House Hold Trade Refuse and Sweepings from roads were collected in 2,372 Municipal dust bins as against 2,256 Municipal dustbins in the previous year. Municipal dustbins and Refuse trailers were attended to daily, on alternate days and weekly according to the density of the population. All the 2,11,094 tons of refuse collected was utilised for reclamation of Municipal Lands.

(3) *Prevention of Nuisance.*—During the year, 572 cases under Section 372 (e) of the B. M. C. Act for indiscriminate throwing of refuse and 1,463 cases for urinating on public roads were filed in the Court under Section 115(a) of the B. C. P. Act.

(4) *Cleansing of open Drains (Municipal and Private).*—The work of cleansing of Road side sullage drains was carried out and 56,55,476 Sq. Metres area was cleaned.

(5) *Collection, Removal and Disposal of Night Soil.*—There were 8,216 basket privies as against 8,458 for the previous year and 242 basket privies were either demolished or converted during the year.

The total number of Public Sanitary Conveniences was 622 having 3172 seats.

During the year under report 8,015 gallons of Night Soil from latrines was collected and removed every day. The open plots and fields fouled by public were also cleaned and in all 33,20,089 gallons of Night Soil removed.

(6) *Cesspool Clearance.*—During the year 3,484 cesspools existing in Range I, II and III were attended to and 27,72,962 gallons of cesspool contents were removed.

(7) *Disposal of Night Soil.*—The night soil and cesspool contents collected at the following Depots (1) Khar Purification Plant (2) Versova Night Soil Depot (3) Oshivara Night Soil Depot (4) Gorai Road Borivli were disposed of in the creeks at different points.

(8) *Special Services on payment were continued as under:—*

(1) Removal of trade refuse from private markets.

(2) Cleansing of Commodes.

(3) Cleansing of temporary privies/erected for dramas Tamas has etc.

(9) *Dog Licensing, Immunization and Destruction.*—(i) Dog Licensing. During the year 4,581 dogs were licensed in the various wards under Range I, II and III on payment of dog tax.

(ii) *Dog Immunization.*—During the year 195 dogs were immunized.

(iii) *Dog Destruction.*—During the year the work of catching dogs for destruction was carried out and in all 29,318 dogs were caught and sent to lethal chambers at Mahalaxmi.

(10) *Removal and disposal of Carcasses.*—The work of removal and disposal of carcasses was carried out with the help of contractors.

(11) *Labour Welfare.*—There were seven Welfare Centres working at (1) Khar, (2) Andheri, (3) Versova, (4) Municipal Staff Quarters at Kurla, (5) Vichorli, (6) Chembur and (7) Mulund. In addition to the above there were Co-operative Credit Societies from which staff members took advantage.

(12) *Veterinary Dispensary at Khar.*—Junior Veterinary Inspector, Khar who was in charge of veterinary dispensary carried out the work of inspection of Miltch Cattle stables, treated 3787 animals and 780 birds were treated and 92 inoculations were done.

(13) *Income.*—The total income (Revenue) from various sources earned by Conservancy Branch (Range I, II and III) during the year was Rs. 97,361.36.

“Removal and disposal of Town Refuse at Deonar Dumping Ground.”

About 1000 acres of land spread over about four portions of deep creeks at Deonar is taken over on lease from the Government by the Corporation to face the problem of disposal of city refuse as well as to reclaim creek land in the Khajans at Deonar. The area is considerably large and the site will be available for dumping refuse for about 50 years.

The major portion of the 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 generally diverted to Dharavi Dumping Ground by lorries.

Serial No.	Particulars.	Current year 1970-71	Previous year 1969-70.
		Rs.	Rs.
1	Number of wagons received.	9,942	16,313
2	Quantity of refuse at average 17 tonnes per wagon. ...	1,69,014	2,77,321
		Tonnes.	Tonnes.
3	Cost of Haulage.	3,64,006	3,68,190
4	Cost of unloading.	2,89,278	4,69,824
5	Cost per tonne for haulage and unloading.	3.87	3.03
6	Cost per tonne for the entire expenditure of S. E. K. D. Railway.	5.12	3.28

The position of the municipal rolling stock at the end of the year was as under:—

Serial No	Description.	No. of Wagons.
1	Refuse wagons in running condition.	91 Nos.
2	Silt wagons in running condition.	Nil.
3	Brake-vans in running condition.	2 Nos.
4	Sick wagons.	11 Nos.

Charges were paid for hiring 61 wagons and to minimise these charges 50 Nos. of overaged wagons (duly converted for refuse transportation) were proposed to be purchased from Central Railways. Also 50 wagons were proposed to be purchased from Manufacturers of Wagons.

Hire charges per day per wagon was Rs. 5.08 The cost of maintaining Mahalaxmi and Chembur Railway Siding was Rs. 71,554.25.

The land reclaimed upto March 1970 was 429.53 Acres. During the year 1970-71 about 11.73 acres of land was reclaimed.

Total income from various sources viz. Sale of Right of cultivation, ground rent of leased reclaimed land etc. amounted to Rs. 1,60,303.

There were a number of rail breaking instances, 15 incidences of derailments of wagons, 1 incidence of Engine derailment and 4 incidences of break-van derailments. Also there were 2 fire incidences to the Siding.

The work of replacing 31.4 rails by 40.7 kgs. rails was entrusted to Central Railway Authorities and at the end of the year they had replaced the old rail track for a length of 3000 Rft.

Remaining length of the track was proposed to be laid on completion of the embankment work including cross Drainage etc. which was in progress. Laying of the track including 1600 Rft. for loop line to accommodate 50 wagons is expected to be completed by February 1972.

The work of construction of roads on Donar Dumping Ground was in progress. The roads so constructed were proposed to be used for transporting of the City refuse by lorries directly to the site of dumping in case of emergency.

V. D. DESAI,

D. E. (Civil) M. E. P. H., M. I. E. (India),
City Engineer.

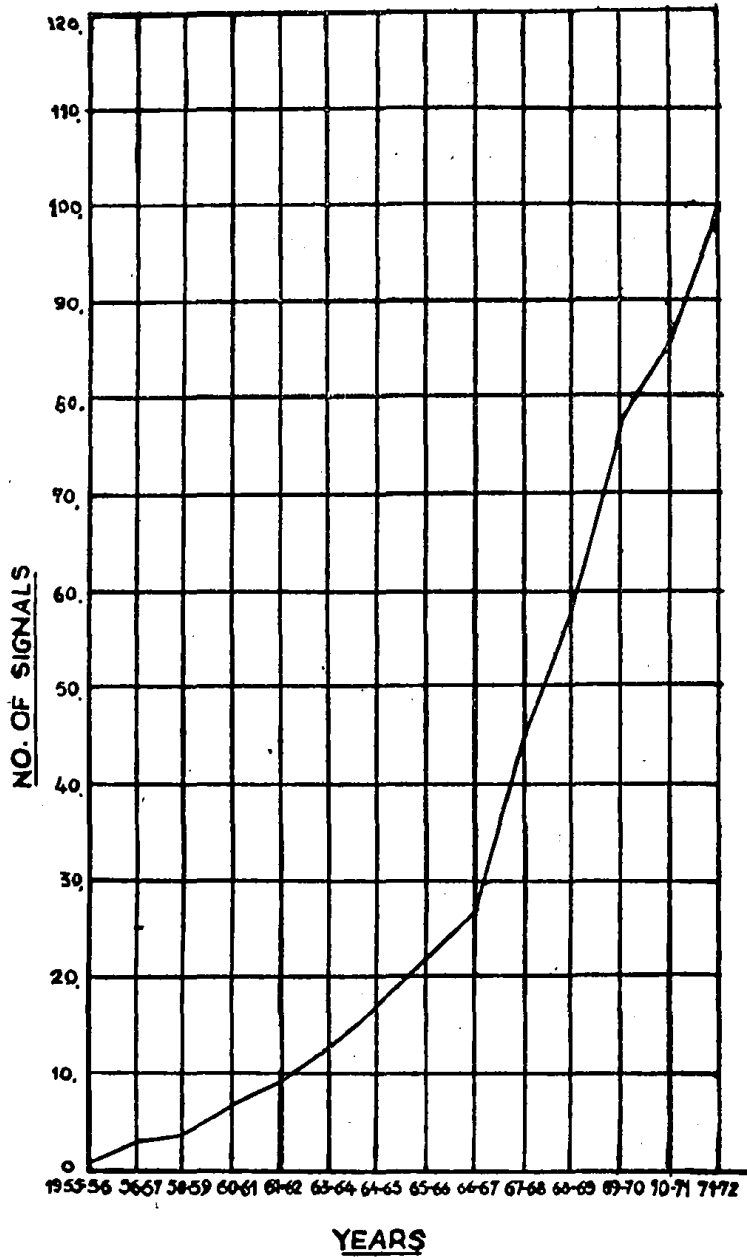
APPENDIX No. 5.

Statement showing the works of Building Construction in progress and those completed in the year 1970-71 in Zone I Area.

Serial No.	Name of the works.	Estimated cost.	Expenditure up to 31-3-71
		Rs.	Rs.
A—Works Completed.			
<i>(a) Housing.</i>			
1	Completing the incomplete works of 'D' Type buildings (28 flats) at Worli. ...	15,92,080.00	5,55,027.00
2	Completing incomplete work of Building 'A' with 12 shops and 45 Tenements in M-1, Area, Kamathipura. ...	5,33,632.00	5,54,071.00
3	Construction of 44 self-contained single room tenements at Dadasaheb Phalke Road. ...	3,04,868.00	2,34,395.00
4	Extension to R. M. O. 's Quarters at K. E. M. Hospital, Parel. ...	6,33,690.00	4,73,994.00
5	Construction of 4 additional rooms at Worli Fire Brigade Station. ...	51,438.00	30,491.00
<i>(b) Buildings other than Housing.</i>			
1	Construction of a school Building at Kambekar Street. ...	4,65,876.00	2,70,461.00
2	Ancillary works at Whole-sale-cum-Retail Market at Palton Road. ...	2,71,508.00	1,99,762.00
3	Gunite treatment to wards, offices and staff Quarters at K. E. M. Hospital, Parel. ...	2,69,735.00	1,85,089.00
4	Construction of a Building for rat incinerator and rat dissection Hall in Haffkine Institute, Parel. ...	84,459.00	58,831.00
5	Construction of wholesale-cum Retail Market at Palton Road. ...	87,25,000.00	57,33,298.00
6	Providing and fixing chain link fencing along Central Divider at Netaji Subhash Road. ...	48,419.00	41,707.00
7	Proposed Gandhi Memorial Column at August Kranti Maidan. ...	63,810.00	32,261.00
B—Works in Progress.			
<i>(a) Housing.</i>			
1	Completing the incomplete work of type I, II and III buildings (130 tenements at Worli). ...	48,42,235.00	9,20,071.00
2	Construction of R. C. C. suction tank and pump room & overhead Storage Tank at Worli. ...	2,77,485.00	1,77,511.00
3	Construction of 11 tenements at Rajwadkar Street, Colaba. ...	1,40,084.00	56,623.00
4	Construction of 45 tenements at Walpakhadi. ...	4,54,253.00	1,495.00
<i>(b) Buildings other than Housing.</i>			
1	Construction of a School Building at Girgaum Division (Rane Building). ...	4,70,878.00	2,24,717.00
2	Construction of a school Building at Banganga, Malabar Hill. ...	16,18,383.00	51,104.00
3	Painting of the main building and Extension building at R. P. T. B. Hospital, Sewri. ...	89,874.00	62,300.00

APPENDIX No. 1

MUNICIPAL CORPORATION OF GREATER BOMBAY.



INSTALLATION OF TRAFFIC SIGNALS
IN GREATER BOMBAY.

K. Narayan

A. E. T. (S)

H. E. (T. & C.)

E. E. (T. & C.)

APPENDIX No. 2






MUNICIPAL CORPORATION OF GREATER BOMBAY

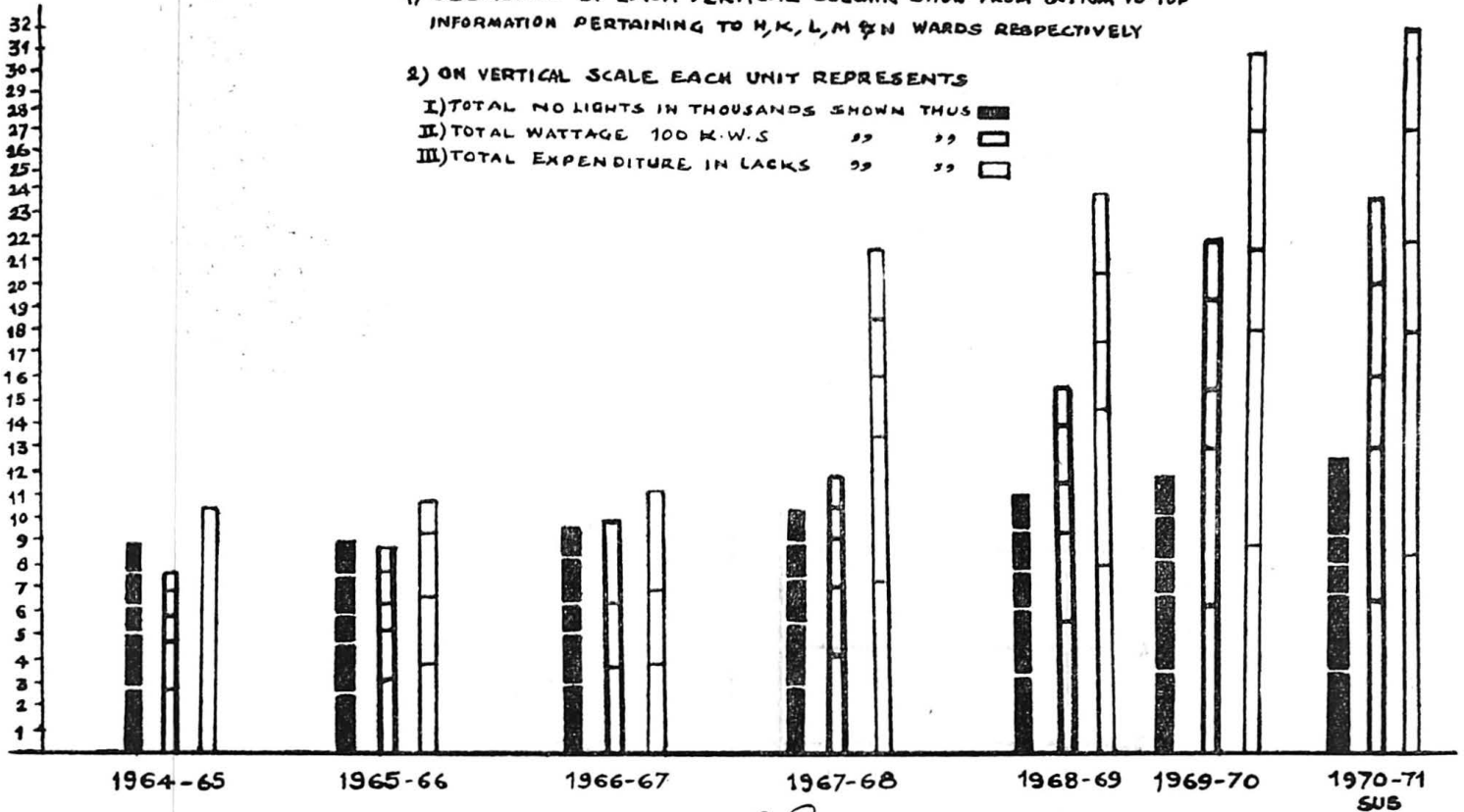
GRAPH SHOWING NO-OF LIGHTS, TOTAL WATTAGE & EXPENDITURE ON STREET LIGHTING IN EACH WARD OF SUBURBS DURING THE YEAR 64-65, 65-66, 66-67, 67-68, 68-69, 69-70, 70-71.

INDEX

1) SEGMENTS OF EACH VERTICAL COLUMN SHOW 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 LACKS  



A. E. (T & L)
A. E. (T & L)

E. E. (T & C)
E. E. (T & C)

APPENDIX No. 3




MUNICIPAL CORPORATION OF GREATER BOMBAY

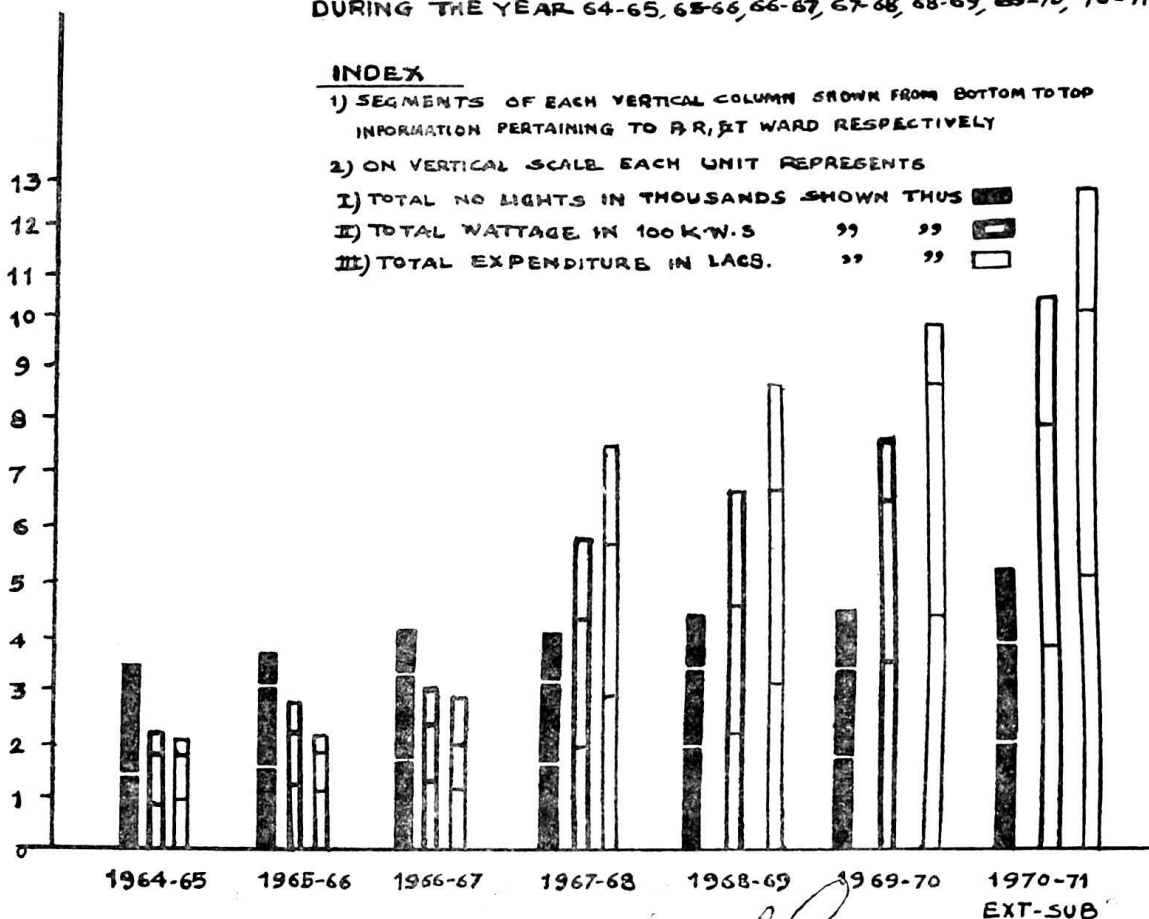
GRAPH SHOWING NO OF LIGHTS, TOTAL WATTAGE & EXPENDITURE ON STREET LIGHTING IN EACH WARD OF EXTD. SUBURBS DURING THE YEAR 64-65, 65-66, 66-67, 67-68, 68-69, 69-70, 70-71

INDEX

1) SEGMENTS OF EACH VERTICAL COLUMN SHOWN FROM BOTTOM TO TOP INFORMATION PERTAINING TO P, R, & T WARD RESPECTIVELY

2) ON VERTICAL SCALE EACH UNIT REPRESENTS

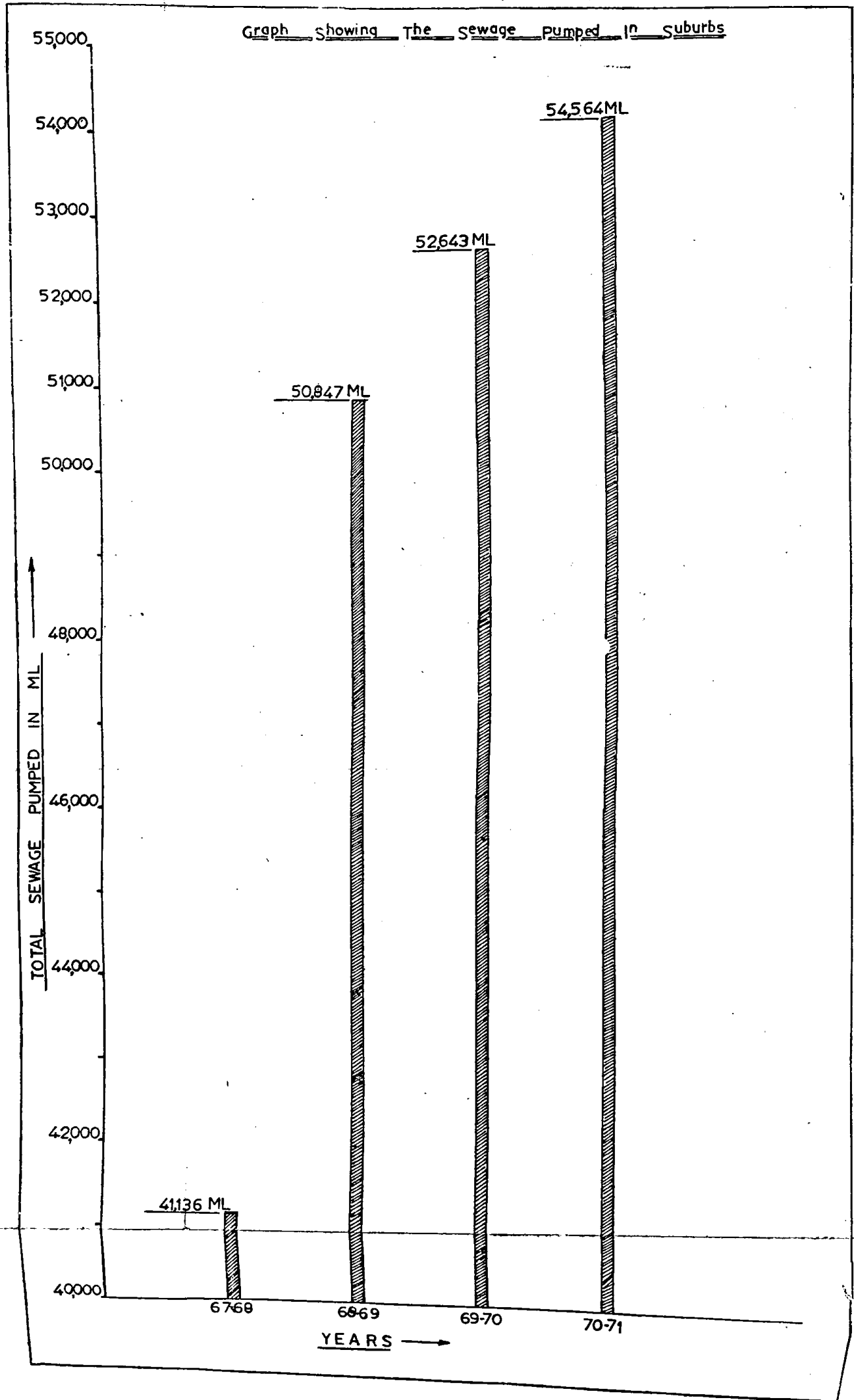
- I) TOTAL NO LIGHTS IN THOUSANDS SHOWN THUS 
- II) TOTAL WATTAGE IN 100 K.W.S " " 
- III) TOTAL EXPENDITURE IN LACS. " " 



A. E. (T & L)
A. E. (T & L)

E. E. (T & C)
E. E. (T & C)

APPENDIX No. 4



APPENDIX No. 6

Statement showing the works completed during the year 1970-71 :—

I.—Road resurfacing works in asphaltic concrete :—

- (i) Lady Jamshedji Road from Mogul Lane to Shivaji Park Junction.
- (ii) Resurfacing with reconditioned asphaltic concrete Dr. Ambedkar Road—Tram Track portion from Poibawdi to Lalbaug.

II.—Road resurfacing works in cement concrete :—

- (i) Resurfacing with cement concrete junction of Zakeria Bunder Road with Sewri Road and Tokersey Jivraj Road including footpaths on both sides.
- (ii) Resurfacing with cement concrete Tokersey Jivraj Road between Jakeria Bunder Road and Acharya Donde Marg.
- (iii) Resurfacing with cement concrete Kazi Sayed Street.

III.—Construction of new roads :—

- (i) Construction of 4th carriageway in asphaltic concrete on Rafi Ahmed Kidwai Road from Road No. 21 to Block 'A' of P. and T. Department.
- (ii) Construction of remaining portion of 1st and 2nd carriageway on R. A. Kidwai Road (from Jerbai Wadia Road to Gollanji Hill Road).
- (iii) Construction of remaining roads in T. P. Scheme—IV Mahim in full grouting (Transferred to Zone—II).
- (iv) Construction of internal roads in hutments colony 'Unis Kondaji Khan' off Jerbai Wadia Road.
- (v) Construction of 6.1 metre and 3.5 metre wide passages in cement concrete at the proposed hutment colony at Dr. E. Moses Road.
- (vi) Construction of approaches to the proposed road over bridge over Central Railway between Matunga and Sion near L. T. M. G. Hospital, Sion.
- (vii) Rebuilding of approaches to French Road, over bridge.
- (viii) Construction of 12,945 metres wide road connecting Acharya Donde Marg (King Edward Road to Sewri Cemetery Road) in full grouting including footpaths on both sides.

IV.—Road widening :—

- (i) Adding setbacks to S. V. Savarkar Marg (Cadell Road) from Ranade Road extension to Shivaji Park Road No. 5.
- (ii) Adding setbacks to Laxmibai Jagmohandas Marg from Petit Hall to Jamnadas N. Mehta Road construction of footpaths.
- (iii) Widening of Senapati Bapat Marg (from Dr. E. Moses Road to Fergusson Road).
- (iv) Adding setbacks to Walkeshwar Road near Malabar Hill to B. E. S. T. bus terminus.
- (v) Widening of Jehangir Boman Behram Marg (from Dr. Anandrao Nair Road to Shankarrao Puppalla Road, etc.)
- (vi) Adding setbacks to N. M. Joshi Marg near office of Controller of Stores.

APPENDIX No. 7

Statement showing the works in progress at the end of the year 1970-71.

I.—Road resurfacing works in asphaltic concrete :—

- (i) Dr. Ambedkar Road from B. N. Mahashwari Udyan to Khodadad Circle (Transferred to Zone—III).
- (ii) N. M. Joshi Marg between Bapurao Jagtap Marg and Keshvrao Khadye Marg including adding setbacks on the Eastern side wherever possible.
- (iii) Dr. Bhadkamkar Marg and Dr. Anandrao Nair Road between Falkland Road and Club Road.
- (iv) Sewri Cross Road from 40' cross road to Level crossing.
- (v) Dr. Annie Besant Road Worli Naka to Lala Lajpatrai Marg.

II.—Resurfacing with cement concrete :—

- (i) Madhavrao Rokde Street and Narsi Natha Street.
- (ii) N. M. Joshi Marg from Lower Parel Bridge to Elphinstone Road.

III.—Construction of new roads :—

- (i) Construction of full grouted roads near Strand Cinema off Arthur Bunder Road.
- (ii) Construction of approaches to Sandhurst Road over bridge.
- (iii) Construction of footpaths, carriageways and addition of setbacks in Elphinstone Estate Section of T. P. Scheme No. 1 Mandvi.

IV.—Road widening :—

- (i) Adding setbacks to Sewri Road from Kalachowky Road to 100' wide Zakeria Bunder Road and resurfacing existing width.

APPENDIX No. 8

I.—Statement showing Drainage Construction Works in the City completed during the year 1970-71.

Serial No.	Name of work	Estimated cost.	
		Rs.	p.
1	Proposed 9" dia. sewer and 12"-16"-44" dia. S. W. Drain in the Elphinstone Estate (Mandvi T. P. S. I.)	2,17,999.00	
2	Providing S. W. Drain in B Ward main roads Part II	6,64,048.00	
3	Construction of additional manholes in A, B and C Wards	4,77,063.00	
4	Construction of additional manholes in D and E Wards	4,71,880.00	
5	Improvement of common house gullies in F and G Wards	84,355.00	
6	Desilting of S. W. Drain in D Ward.	66,618.00	
8	Civil work for additional 45-46 million litres per day primary treatment plant consisting of (1) Primary settlement tank (2) Consolidation tank etc. at Dharavi Purification works.	7,50,752.00	
8	Conversion of privies into W. C. Blocks with flushing system in F/North Ward.	97,695.00	
9	Conversion of privies into W. C. Blocks with full flushing system in F/South and G/South Ward	74,788.00	
10	Providing and laying sewer and S. W. Drain along proposed 44'-0" wide road at Matunga Labour Camp Dharavi	1,85,386.00	
11	Providing 800 mm. 1400 mm. dia. S. W. Drain along Bhulabhai Desai Road.	1,42,768.00	
12	Proposed 900 mm. dia. pipe drain along Maharshi Kerve Road from diverting to existing S. W. Drain at the proposed footover bridge	42,000.00	
13	Clearing the debris of the collapsed portion of the existing S. W. Drain along 100' Road between Keshavrao Khadye Marg and Arthur Road including desilting	43,117.00	
14	Rat Control scheme for rats— Improvement of House Gullies area— Sassoon Dock Museum	1,17,115.00	
15	Proposed 300 mm. dia. S. W. Drain along Arthur Road near Tulsiwadi	23,070.00	
16	Desilting open S. W. Drain between Tilak Bridge and Dharavi Road.	86,943.00	
	Total	35,43,191.00	

II.—Statement showing Drainage Construction Works in the City in progress during the year 1970-71.

1	Improvement of Common House Gullies in A and B Wards	3,20,382.00
2	Improvement of Common House Gullies in D Ward	2,87,508.00
3	Improvement of Common House Gullies in D Ward	4,27,246.00
4	Improvement of Common House Gullies in E Ward	5,29,433.00
5	Construction of 1.90 M. × 1.52 M double barrell d dhapa drain and 2.59 M × 1.52 M. single barrell d dhapa drain along Jakeria Bunder Road for a length of 377.95 M. (portion BCC)	5,41,375.00
6	Construction of 2.43 M. × 1.52 M. double barrell d dhapa drain along Jakeria Bunder Road for a length of 548.64 M. B 'B'	9,68,625.00
7	Providing gunite treatment to the outfall at Dr. Annie Besant Road Pumping Station including other allied works at Worli	6,81,060.00
8	Providing 800 mm. dia. pipe sewer to divert the 2'-6" circular sewer in the L. T. M. G. Hospital Compound for the Construction of the proposed College Building	1,22,475.00
9	Proposed 600 mm. dia. 800 mm. dia. pipe sewer along Bhagwanlal Indrajit Road North of Banganga	3,07,905.00

APPENDIX 8—Contd.

Serial No.	Name of work	Estimated cost	
		Rs.	p.
10	Proposed 11.57 M.×3.53 M. open drainage channel from Matunga Labour Camp to Dharavi	21,40,440.00	
11	Proposed 1.32 M.×1.53 M. S. W. open drain along Tokandas H. Kataria Marg at Matunga	1,96,269.00	
12	Proposed 230 mm. dia. sewer and diversion of 450 mm. dia. pipe sewer and proposed 300 mm. dia. and 450 mm. dia. S. W. Drain along Laxmibai Jagmohandas Marg at the proposed overbridge (parts A and B)	2,24,504.00	
13	The remaining work of providing and laying 230 mm. 300 mm. dia. pipe sewer and 300 mm. pipe drain and 450 M.×450 M. dia. dhapa drain in Antop Hill area (part-I)	76,905.00	
14	Repairs to the collapsed portion of the treble barrelled drain along 30.48 M. Road to the south of Mahalaxmi Race Course	4,51,482.00	
15	Repairs to the damaged sewer in C, D and E Wards	3,50,000.00	
16	Desilting of small S. W. dhapa drains and main S. W. drains in the whole of B and C Wards	1,71,996.00	
17	Desilting of 525 mm. 740 mm. and 1000 mm. 1200 mm. dia. pipe sewer and 4'-8"×7'-0" ovoid sewer in Mahim Dharavi Sion areas.	2,65,288.00	
18	The work of cutting high ground at Dharavi Purification works, Sion	10,12,161.00	
19	Construction of double barrelled drain having cutfall at Timber Pond	6,24,140.00	
Total		96,99,194.00	

APPENDIX No. 9

Statement showing the performance of Colaba Purification Plant during 1970-71.

Month.	Total sewage pumped in M. Litres.	Sewage treated in M. Litres.	Grit removed in Cu. Metre.	Screening in Cu. Mtrs.	K. W. H.		Gas generated in Cu. Metre Average.	Sludge to digestion Tank in Litres.	Digested sludge removed in Litres.
					Plant	Pumping			
1	2	3	4	5	6	7	8	9	10
March 1970	260.515	150.525	6.685	3.51	20.820	24.140	7.867	50.22.000	3.62.000
April 1970	218.379	106.005	6.304	5.07	18.160	20.070	7.614	48.60.000	...
May 1970	207.882	94.320	6.500	3.53	13.440	20.730	7.867	50.22.000	...
June 1970	313.500	85.410	6.237	3.62	23.460	39.920	7.614	48.60.000	...
July 1970	447.310	104.400	8.086	3.38	24.100	27.320	7.867	50.22.000	...
August 1970	479.250	238.905	7.074	4.39	13.060	40.540	7.867	50.22.000	...
September 1970	374.330	115.470	6.500	1.86	10.160	35.290	7.614	48.60.000	...
October 1970	260.950	21.060	6.250	0.94	19.300	14.970	2.867	50.22.000	...
November 1970	216.450	119.295	7.620	2.37	25.210	21.340	8.100	48.60.000	...
December 1970	225.530	116.250	8.260	2.55	25.760	19.260	8.320	50.22.000	...
January 1971	196.460	79.200	4.880	1.49	18.930	18.930	4.198	50.22.000	3.62.000
February 1971	213.180	101.385	5.880	1.94	21.910	20.650	4.096	45.36.000	3.62.000
Total	3,413.736	1,232.255	80.226	34.59	23.910	3,09.130	81.801	5,97,30.000	10,86.000
Average	284.478	102.687	6.695	2.88	1.960	25.280	6.810	49.77.500	

APPENDIX No. 10.

Statement showing the performance of Pumping and Compressor Station in the City in the charge of E. E. Mechanical (South) during 1970-71.

Serial No.	Name of the station.	Installed capacity in L.P.M. & Cu.M./Min.	Total quantity of sewage pumped in M. Litres or the air compressed during the year in Cu. M.	Average quantity of sewage pumped in M. Litres or the air compressed in Cu. Mtrs. per day	Electrical energy consumed during the year.	Cost of electrical energy consumed during the year in.	
						Rs.	p.
1	Matunga Pumping Station	75.040	19,747,105,200	53.83	12,23,700	1	10,231.88
2	Wadala Pumping Station	53.630	9,063,184,400	24.83	5,39,208	73	838.32
3	Mahim Pumping Station	44.620	12,931,934,900	35.43	4,42,030	49	738.59
4	Tulsipipe Pumping Station	48.920	4,711,371,300	12.91	2,58,680	33	105.92
5	Chinchpokli Pumping Station	39.480	1,068,336,500	2.93	59,390	8	229.25
6	Napean Sea Road Pumping Station	27.900	2,358,327,500	6.46	1,32,336	12	426.74
7	Salt Pan Land Pumping Station	54.600	507,501,000	2.80	1,00,050	14	663.30
8	Globe Mill Passage Pumping Station	63.200	6,082,842,000	16.66	2,06,073	31	627.71
9	Gadge M. Haraj Chowk Pumping Station...	75.840	13,916,299,200	38.13	3,41,320	47	845.58
10	Harvey Road Pumping Station	12.640	1,347,155,400	3.69	49,546	69	09.98
11	Sion Pumping Station	6.810	964,625,100	2.64	1,09,030	14	558.70
12	Duncan Causeway Pumping Station	15.190	786,779,400	2.16	52,520	7	085.10
13	Tank Bunder Pumping Station	4.540	846,483,000	2.32	49,440	7	194.10
	Total	...	74,331,944,900	204.79	35,63,373	4	17,355.17
14	Victoria Garden Air Compressor Station	100	1,73,45,840	47.520	7,31,860	55	745.63
15	Carrol Road Pumping Station	26	35,97,800	09860	94,848	15	486.91
	Total	...	2,09,43,640	57.380	8,26,708	71	232.54
	...	...	...	...	43,90,081	4	88,587.71

APPENDIX No. 11

Statement showing the performance of Sewage Pumping Stations in the City in the charge of E. E. Mech. (N and P) during 1970-71

Serial No.	Name of the Pumping Station	Installed capacity in (Litres/Sec. in metres	Average of minimum level during the year in metres	Average of average levels during the year in metres	Total sewage Qty. pumped during the year in Million Litres	Average sewage Qty. pumped per day in Million Litres	Ele. energy consumed during the year in KWH	Cost of Ele. energy consumed during the year in Rs.	Cost of operative staff during the year in Rs.	Cost of repairs and maint. during the year in Rs.	Cost of over-head charges during the year in Rs.	Total cost during the year 9+10+11+12 Rs.	Cost per million litres of sewage pumped
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Dadar Pumping Station	836.8	0.63	2.15	98.38	27.24	4,750.46	41,070	20,384	22,726	7,539	91,719	9.22
2	Dharavi Pumping Station	2,553.8	3.12	4.20	200.27	54.87	6,657.52	67,226	16,035	24,500	9,059	1,168.60	5.80

APPENDIX No. 12.

Statement showing the Gas Generation and Utilization at Dadar Purification Works during year 1970-71.

Gas Generation Unit :		Quantity.		
(1) Digestion tank No. 1			8,33,041	Cu. Mt.
(2) Digestion tank No. 2			9,27,508	Cu. Mt.
	Total	...	17,60,549	Cu. Mt.

Type of consumption.	Gas consumed in cu. mts.	Rate per CM.	Cost of the gas	Meter Rent.	
		Rs.	Rs.	Rs.	
(A) Municipal Hospitals and Municipal Staff	...	8,08,530	0.15	1,21,280	2,645
(B) Domestic Consumption	...	2,36,602	0.19	44,954	4,581
(C) Commercial	...	4,57,135	0.225	1,02,855	1,158
	Total	...	15,02,267	2,69,089	8,384
Total (cost of gas + meter rent) = Rs. 2,77,473.					

APPENDIX No. 13.

I—Statement of the Analytical Data in respect of Dadar Purification Works for 1970-71.

1	Sewage Treated	...	30,650 M. Litres.
2	Grit Removed	...	2,643 Cubic M.
3	Screening Removed	...	444 Cub. M.
4	Sludge to Dig. Tank	...	193 × 10 ⁶ Litres.
5	Dry matter added to Dg. Tank.	...	71,84,432 Kg.
6	Volatile matter added to Dg. Tank	...	45,49,713 Kg.
7	Digested Sludge removed	...	80 × 10 ⁶ Litres.
8	Total Gas Generated	...	17,59,306 Cu. Mt.
9	Gas/1,000,000 Litres of sewage treated.	...	59 Cu. Mt.
10	Gas/1000 litres of Dry matter sludge added.	...	9.20 Cu. Mt.
11	Gas/Kg. of Dry. Matter added.	...	0.244 Cu. Mt.
12	Gas/Kg. of volatile matter added.	...	0.3966 Cu. Mt.
13	Total Electric Consumption excluding Pumping Station.		12,41,419 K.W.H.
14	H. P. Required per M. G. of Sewage treated/Hr.		2.31 H.P.
15	Total expenditure (inclusive of Pumping Station etc.).		
	(A) Electric Power		Rs. 1,42, '06.00.
	(B) Salaries and Wages		Rs. 3,34,0 '9.00.
	(C) Materials supplied Including Laboratory	...	Rs. 61,358.00
	(D) Work carried out through external agencies.	...	Rs. 34,835.00
	(E) Miscellaneous expenditure (Postage, conveyance, P. W. D. inspection, License, Telephone etc.)	...	Rs. 3,411.00
	Total	...	Rs. 5,75,749.00
16	Returns—		
	(A) Sale of Gas	...	Rs. 2,77,9 '7.83
	(B) Sale of Manure	...	Rs. 3,911.55

II.—Analytical Data—Average for the year 1970-71.

	Sewage		Final Effluent			
	Old Plant	Extn. Plant	Act. Sludge	Filter-1	Filter-2	Filter No. 3
1 4 Hrs. Oxygen absorption	93.2 ppm.	52.9 ppm.	14.7 ppm.	27.3 ppm.	19.5 ppm.	27.1 ppm.
2 Suspended Solids	557 ppm.	283 ppm.	15.0 ppm.	49.0 ppm.	49.0 ppm.	80.0 ppm.
3 Dissolved Oxygen	...	...	4.0 ppm.	0.5 ppm.	...	...
4 B.O.D. at 20°C in 5 days	355.1 ppm.	176.0 ppm.	10.0 ppm.	60.5 ppm.	64.0 ppm.	58.0 ppm.

APPENDIX No. 14

Statement showing the production of asphalt plant during the year 1970-71.

MAIN PLANT

Month.	Binder	Maccadam	S. Binder	Surface	Chip coat	Grit coat	Seal coat	Premix		Total Kgs.	Working days.
								1"	1/2"		
March 1970	12,000	1,30,500	...	94,500	4,81,500	54,500	14,400	...	...	7,87,400	21
April 1970	1,800	1,93,800	...	41,700	4,95,300	48,900	...	...	...	7,81,500	23
May 1970	4,17,900	...	...	3,17,700	...	96,600	5,400	...	...	8,37,600	23
June 1970	7,500	...	...	1,71,000	4,800	2,53,800	...	...	3,07,800	7,44,900	25
July 1970	...	...	...	...	...	...	...	...	...	...	...
August 1970	...	...	...	...	...	...	...	...	...	...	...
September 1970	...	...	...	...	...	...	...	...	...	...	...
October 1970	...	...	...	...	...	...	...	...	...	...	...
November 1970	2,43,900	...	6,87,470	1,75,030	70,220	29,460	...	5,170	...	12,11,250	25
December 1970	3,95,280	71,710	5,03,490	2,47,930	...	33,260	...	5,000	...	13,54,220	27
January 1971	6,210	4,83,240	...	2,95,630	...	2,17,050	...	...	...	10,02,130	25
February 1971	2,81,600	1,72,000	...	4,15,320	38,820	94,340	...	...	...	10,22,980	23
Total	13,66,190	10,52,150	11,90,960	17,58,810	11,88,190	8,37,910	19,800	10,170	3,07,800	77,21,980	292

APPENDIX No. 15.

Summary of works carried out during 1970-71.

Serial No.	Mode or Repairs.	Area in Sq. Meter.	Amount.	
			Rs.	P.
1	Repair with 3" sheet asphalt.	...	11638	2,64,564.00
2	Repair with asphaltic concrete on semi dense.	...	28978	3,24,366.40
3	Repair to asphalt road with chip or grit coat.	...	20121	1,01,050.06
4	Repair to bituminous road with chip or grit coat.	...	34692	1,95,890.77.
5	Seal coat on footpath.	...	586	41,60.20
6	Miscellaneous work.	...	10712	63,581.25
7	Trenches repaired.	...	4773	38,184.20
8	Pot holes repaired.	...	17423	1,65,025.47
9	Cracks filled up on different roads.	...	...	1,739.25
10	Humps removed on different roads.	...	...	4,897.01
11	Macadam laid on different roads.	...	13384	1,34,612.71
Total		...	142257	12,98,071.82

APPENDIX No. 16.

Statement showing the rubble crushed and metal production during the year 1970-71.

Month.	Rubble CFT.	Metal 1½" CFT.	Metal 1" CFT.	Metal ½" CFT.	Grit & Dust CFT.	
March 1970.	...	20,200	10,150	7,520	75,20	3,760
April 1970.	...	28,200	14,100	10,520	10,344	5,000
May 1970.	...	24,100	12,050	8,140	8,140	4,070
June 1970.	...	18,850	9,425	4,810	4,810	2,405
July 1970.	...	19,200	9,600	3,840	3,840	1,920
August 1970.	...	23,000	13,840	2,290	6,440	6,440
September 1970	...	33,500	20,100	3,350	5,025	5,025
October 1970	...	38,400	23,240	3,960	63,00	6,300
November 1970	...	19,800	11,340	3,720	5,610	5,610
December 1970	...	28,400	17,100	5,650	14,100	5,550
January 1971	...	38,400	23,040	3,840	7,640	3,840
February 1971	...	45,000	32,500	4,500	13,500	4,632
Total	...	3,37,050	1,86,485	61,690	93,269	54,632

APPENDIX No. 17.

Statement showing the localities at which the various improvement works of street lighting were done during the year 1970-71.

The lights on the following 15 roads were improved with Tungsten Filament Lamps :—

1. Kennedy Bridge (N. E. side foot bridge)
2. Karol Wadi.
3. Hindu Cemetery (Chandan Wadi).
4. B. D. D. Chawl roads off N. M. Joshi Marg.
5. Dharavi Cross Road.
6. Mia Mohmed Chhotani Road.
7. Naigaum Village Road.
8. Naigaum Road No. 15.
9. Parel Housing Road.
10. Prabhadevi Cemetery Road.
11. Parel Village Road.
12. Ranade Road Shivaji Park Junction.
13. Sewri-Wadala Passage.
14. Wadala Village Road.
15. Worli Koliwada Road.

The lights along the following 46 roads were improved with H. P. M. V. Lamps :—

1. Strang Road.
2. Arthur Bunder Road junction.
3. Frere (P. D'Mello) Road junction.
4. Appolo Pier.
5. Bhulabhai Desai Road.
6. Dr. Annie Besant Road.
7. Arthur Road.
8. Bandra Causeway.
9. Veer Savarkar Marg/Ranade Road Junction.
10. Curry Road.
11. Jn. Curry Road/N. M. Joshi Marg.
12. Sanegurji Marg/N. M. Joshi Junction.
13. Dada Saheb Phalke Road.
14. Elphinstone Road.
15. Junction Gokhle Road with L. T. Road.
16. Junction Shivaji Park.
17. Junction Gokhle Road with Ranade Road.
18. Junction Gokhale Road with Bhawani Shankar Road.
19. Hornby Vellard.
20. Jacob Circle.
21. Katrak Road.
22. Junction Kharghat Road/Bhalchandra Road.
23. Junction Kohincor Road/Ambedkar Road.
24. Junction Lady Jamshedji/Sitaladevi Temple Road.
25. Junction Lamington Road/Clerk Road.
26. Junction Lamington Road/Arthur Road.
27. Mahim Junction.
28. Mahalaxmi bridge.
29. Matunga Road.
30. Mount Road.
31. Nagpada Junction.
32. Junction Prabhadevi Road/Cadell Road.
33. Sion Road No. 18.
34. Sion Road No. 23.
35. Junction Sayani Road/Gokhale Road.
36. Sion Road No. 6.
37. Sion Road No. 2.
38. Worli Road No. 10.
39. Worli Naka.
40. Worli Neighbourhood Road.
41. Worli Road/Dr. A. Besant Road Junction.
42. Sion Road No. 1.
43. Sion Road No. 18.
44. Sion Road No. 20.
45. Sion Road No. 25.
46. Sion Road No. 29.

The lights on following 7 roads were improved with Fluorescent lamps.

1. Arthur Road extension.
2. King Edward Road.
3. Parel Tank Road.
4. Raoli Camp.
5. Sewri Wadala Road No. 9.
6. Sion Koliwada Over bridge.
7. Sion Road No. 16.

APPENDIX No. 17.—Contd.

The lights on the following 88 roads were improved by H. P. M. V. lamps under All-in-Hire Scheme.

1. B-l-lasis Road.
2. Mint Road/Fort Street.
3. Marine Drive.
4. Kemp's Corner Fly Over Bridge.
5. Mayo Road.
6. Nagpada Junction.
7. Hughes Road.
8. P. D'Mello Road.
9. P. D'Mello Road/Fort St. Junction.
10. P. D'Mello Road/P. M. Road Junction.
11. Old Custom House Road.
12. Shaheed Bhagatsingh Road.
13. Appollo Pier.
14. Gcwalia Tank Road/Forjett St. Junction.
15. Gowalia Tank Road.
16. 1st Marine Street.
17. Kemp's Corner Junction.
18. Carnac Road.
19. Tardeo Road.
20. Tardeo T. T.
21. Chowpatty Sea Face /Harvey Road Junction.
22. Chowpatty Sea Face.
23. Nana Chowk.
24. Sheikh Memcn Street.
25. Thakurdwar Road.
26. Jagannath Shankar Sheth Road.
27. Woodhouse Road.
28. Queen's Road below Princess Street.
29. Walkeshwar Road.
30. Dr. Viegas Street.
31. Duncan Road.
32. Ballard Road.
33. Colaba Road.
43. French Bridge.
35. V. P. Road.
36. Arthur Bunder Road.
37. Dady Sheth Agiary Lane/Dr. Atmaram Merchant Road.
38. Babu Khote Street.
39. Saifee Jubilee Street.
40. Dady Sheth Agiary Lane.
41. Babu Genu Road.
42. D'Lima Street.
43. Forjet Street.
44. Dady Sheth Agiary Lane/Kalbadevi Road.
45. Dr. Annie Besant Road.
46. Arthur Road.
47. Ambedkar Road.
48. Bhawani Shankar Road.
49. Connoyht Road/B. A. Road Junction.
50. Veer Savarkar Marg.
51. Clare Road.
52. Centre Reservation Dadar.
53. (Dadar T. T.) Khordad Circle.
54. N. M. Joshi Marg.
55. Eastern Express Highway.
56. Gokhale Road.
57. Globe Mill Passage.
58. Government Gate Road.
59. Hains Road.
60. Jackeria Bunder Road.
61. Jijibhoy Lane.
62. Lalbaug Junction.
63. Lady Jamsh'dji Road.
64. Love Grove Road.
65. Lamington Road.
66. Lady Jehangir Road.
67. Lady Haringe Road.
68. Mahim Causeway.
69. Nesbit Road.
70. Naigam Road /Katrak Road Jn.
71. Naigam Road/D. Falke Road Junction.
72. Old Prabhadevi Road.
73. Parel Junction.
74. Ripon Road.
75. Reay Road/Jackeria Bunder Road Junction.
76. Reay Road.
77. Sewri Wadala Road No. 18.
78. Sayani Road.
79. Sion Road No. 6.
80. Sion Main Road.

APPENDIX No. 17—Contd.

81. Sion Causeway.
82. Sion Road No. 19 Overbridge
83. Tilak Bridge.
84. Tilak Road.
85. Victoria Road.
86. Worli Road No. 13.
87. Wadala Junction.
88. Wadala Road No. 18.

APPENDIX No. 18.

Statement showing the roads on which the regular lines under Section 279(i)9 (a) and 297 (i)(b) were prescribed or proposed during the year under report.

Sr. No.	Plan No.	Proposed width.	Ward	Remarks.
1	L. D. Ruparel Marg from Great Eastern Shipping Corporation to Hydrabad House ... E.E.T.C. 140 of 8-4-70	18.30 M.	D	Sanctioned on 17-8-1970.
2	Dargah Street at Mahim ... E.E.T.C. 144 of 24-6-70	18-20 M.	G	Sanctioned on 28-7-1970.
3	Pro. 12.20 M. Road at proposed Transit camp at Kcliwada ... E.E.T.C. 145 of 28-8-70	12.20 M.	F	Sanctioned on 14-12-1970.
4	Parel Road Cross Lane ... E.E.T.C. 143 & 143-A of 24-6-70.	13.40 M.	F	Sanctioned on 28-7-1970.
5	1st Marine Street ... E.E.T.C. 246 of 28-8-70	...	C	Sanctioned on 11-1-1971.
6	Kalbadevi Road from Kika Street to Babu Khote Street ... E.E.T.C. 147 of 28-8-70	29.30 m.	C	Proposed.
7	Maharshi Karve Road from Churchgate Junction to Marine Lines Cross Road No. 2. ... E.E.T.C. 148 of 26-10-70	24.40 M.	A	do.
8	Linking Roads between Dr. Gopalrao Deshmukh Marg to Bhulabhai Desai Road ... E.E.T.C. 149 of 26-11-70	12.20 M.	D	do.
9	Developments of Roads in Banganga Area ... E.E.T.C. 150 of 22-4-71	3.65 M. 18.30 M.	D	do.

APPENDIX No. 19.

Details of actions for improvement of Pvt. Streets in the City.

Serial No.	Name of the Street.	Remarks.
1	Private Street at Gowalia Tank Road ...	Action under Section 305 of the Act. Fencing on the disputed portion is removed and work of improvement of the said portion is being attended to.
2	Private Street off Dr. E. Moses Road (Haines Road) near Kores (India) Ltd. ...	Action under Section 305 of the Act. The work of the improvement of the street was completed. Accounts were yet to be verified by the Chief Accountant's Office. The street will be declared public under Section 305 of the Bombay Municipal Corporation Act, after demand notices are served.
3	Private Street known as Gowalia Chawl Lane off Globe Mill Passage. ...	Action under Section 377-A of the Act. Work of Improvement was completed. Accounts were to be verified by the Chief Accountant's office.

APPENDIX No. 20.

Action taken under Section 305 of the Bombay Municipal Corporation Act to improve the private streets in the city limit during the year.

Serial No.	Name of the Street.	Remarks.
1	Private Street between Kakadwadi and V. P. Road. ...	Road work was completed and lighting work was being attended to.
2	Private Street off Bhulabhai Desai Road leading to Dhakleswar Temple ...	Lighting work was completed and Road work was being attended to.
3	Private Streets in Tokarsey Jivrajwadi off Tokarsey Jivraj Road, Sewri. ...	Notices under Section 305 of the Act, served and the work of Improvement was being carried out under Section 489 of the Act.
4	Private Streets in Sunderji Liladharwadi off Sewri Road, Sewri ...	Notices under Section 305 of the Act served and the work of improvement was proposed to be carried out under Section 489 of the Act.
5	Private Streets near Strand Cinema. ...	The work was in progress.
6	Private Streets in Nawanagar off Dockyard Road. ...	The work was in progress.

APPENDIX No. 21.

List of Municipal references dismissed by the Chief Judges of the Small Causes Court in cases in which leave to appeal to Supreme Court was applied for.

Serial No.	References.	Name of the Respondent.	Locality.	Remarks.
1	M/123 of 1959 ...	Rar.choddas Copaldas & others	1st Pasta Lane	Leave to appeal to Supreme Court is applied for.
2	M/124 of 1959 ...	do.	do.	do.
3	M/125 of 1959 ...	James Albert Hallow-EEN. ...	do.	do.
4	M/126 of 1959 ...	Manharlal Maganlal Sukhadia	do.	do.
5	M/127 of 1959 ...	Jamnabai R. Rupaji ...	do.	do.
6	M/128 of 1959 ...	Pannalal Barrilal & others ...	do.	do.

APPENDIX No. 22.

List of Private Streets in which preliminary action was taken to Improve the same under Section 305, of the B. M. C. Act.

Serial No.	Name of the Street.	Remarks.
1	Private Street joining Dhakuprabhu wadi and Chinchpckli X Lane near Pallcnji Chawl. ...	Preliminary intimations issued to the frontagers.
2	Private Street by the scuthside at Kaise-I-Hind Mill off Rambhau Bhogle Marg. ...	do.
3	Private Street between Mazgaon Road and Belvedor Road in Bharciwadi. ...	do.
4	Private Street leading to Huseini Lokda Bazar off Maulana Azad Road C. S. No. 1577. ...	do.

APPENDIX No. 23.

Detailed report of the total out put of the Municipal Foundry and sanctioned rates for castings for the year 1970-71.

Serial No.	Type of the Castings.	Nos.	Weight Kgs.	Rate Rs.	Per.	Amount.	
1	2	3	4	5	6	7	
						Rs. P.	
1	C.I. Manholes frames & covers complete	733	17958.0	144.00	Each	105552.00	
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. G. A. S. Boxes.	...	7	133.00	1.50	Kg.	199.40
6	C. I. Gratings 20" x 19" x 2 1/2"	...	9	612.0	1.50	..	918.00
7	Do. 19 1/2" x 18" x 2"	...	4	204.0	1.50	..	306.00
8	Do. 19" x 19" x 2"	...	6	307.0	1.50	..	460.00
9	Do. 18 1/2" x 18 1/2" x 2"	...	5	255.0	1.50	..	382.50
10	Do. 18 1/2" x 18" x 2"	...	5	230.0	1.50	..	355.00
11	Do. 6" x 6" x 1/2"	...	200	240.0	3.70	Each	740.00
12	Do. 8" x 8" x 1/2"	...	25	60.0	4.30	..	107.00
13	Do. 5" dia.	...	40	16.0	2.10	..	84.00
14	C. I. Machinable casting	...	Lot	29000.0	2.00	Kg.	58,000.00
15	C. I. non-machinable casting	...	..	300.0	1.50	..	450.00
16	C. I. wheels 6" x 2"	...	45	225.0	2.00	..	450.00
17	C. I. Dhapa Frames	...	12	348.0	2.00	..	696.00
18	C. I. chains dcuble	...	33	621.0	2.00	Kg.	1,242.00
Non-Ferrous.							
19	Gun metal castings Comp. 88-10-2	...	Lot	732.0	25.80	Kg.	1,885.60
20	Do. 87-7-3-3	...	Lot	5076.0	22.40	..	1,13,702.40
21	Brass castings	...	do.	703.0	14.00	..	9,842.00
22	Aluminium castings	...	do.	40.00	16.80	..	770.00
23	Copper castings	...	do.	120.0	14.00	..	1,680.00
24	C. I. oil castings	...	do.	57.0	5.90	..	336.30
25	Sluminium street number plates	...	578	80.0	4.50	Each	1,231.00
26	Filling in white metal bearings	...	13	...	67.20	..	873.60
TOTAL			...	2,2259.0			3,19,057.20

APPENDIX No. 24.

DEONAR ABATTOIR

Works completed in all respects.

Serial No.	Name of the work.	Contract allotments.
1	Supply and installation of Slaughter House machinery and electrical equipment. (Foreign contents) ...	42,41,347.53
2	Supply and installation of slaughter house machinery and electrical equipment. (Indigenous content) (except refrigeration plant) ...	64,51,859.97
3	Supply and installation of electrically driven water pumping sets and carrying out ancillary works at the pump house ...	2,60,227.00
4	Construction of slaughter house waste treatment and recovery plant including mechanical and electrical works, ...	6,81,935.80
5	Providing insulation to the cold storage ...	7,11,266.36
6	Supply and installation of insulated doors to the cold storages ...	1,94,965.25
7	Providing electrical installation in various buildings ...	9,05,915.50
8	Supply of lighting fittings. ...	4,90,016.62
9	Laying High tension service cable and connecting H. T. meter ...	29,571.00
10	Laying L. T. cables and connecting meters for office buildings for Dalals, Shroffs and Canteen building ...	14,424.83
11	Supplying ceiling fans complete with regulators, canopies, suspension rods, etc. ...	11,459.50
12	Supply of 519 units of special design ...	1,48,961.14
13	Construction of buildings of Jewish and Jhatka Slaughter House and Amenity Building ...	8,27,501.44.
14	Construction of buildings for animal pens ...	16,54,038.02
15	Construction of buildings for Dalals offices, Shroffs offices, Canteen Building and time office ...	5,57,778.33
16	Construction of suction tank and pump house ...	4,89,081.28
17	Providing and laying 230 mm. 300 mm. and 350 mm. dia. stoneware sewers ...	1,70,877.57
18	Construction of compound wall ...	3,90,114.20
19	Construction of Pig Slaughter House ...	2,70,965.91
20	Laying of internal high pressure and low pressure water supply lines ...	Departmental work.

Apart from these works executed by the Slaughter House Section, the following works executed by other departments for the Deonar Abattoir were also completed.

- (1) Construction of peripheral roads and S. W. drains.
- (2) Construction of internal roads.
- (3) Laying of 600 mm. dia. water main.
- (4) Widening of Agarwadi Road.

APPENDIX No. 25
DEONAR ABATTOIR
Works in progress.

Serial No.	Name of the work.	Contract allotment.	
		Rs.	P.
1	Construction of buildings for sheep and goat slaughter	...	18,54,578.10
2	Construction of building for cattle slaughter house and by product plant (These two works were nearly completed except few stainless steel chutes).	...	10,69,114.40
3	Providing hot and cold water pipe line systems	...	15,57,970.16

Apart from these works executed by the Slaughter House Section, the following works executed by other departments for the Deonar Abattoir were also in progress.

- (1) Construction of 18.33 metre wide approach road.
- (2) Construction of storm water drains in the Slaughter House.
- (3) Levelling and cutting of high ground and laying of garden.

APPENDIX No. 26.
DEONAR ABATTOIR

Works taken up in hand during the year under Report.

Serial No.	Name of the work.	Contract allotment.	
		Rs.	P.
1	Construction of loading and unloading platform with antemortum inspection pens	...	2,82,190.63
2	Construction of Pig market shed	...	70,562.00
3	Construction of four live stock market sheds—Phase II	...	13,33,198.84
4	Electrification of loading and unloading platform with antemortum inspection pens	...	36,266.04
5	Electrification of Pig market shed	...	4,056.97
6	Electrification of Live stock market	...	1,04,321.93

APPENDIX No. 27.

Statement showing the works of Building Construction in progress and those completed in the year 1970-71.

Serial No.	Name of the work.	Estimated cost		Expenditure upto 31-3-1971	
		Rs.	P.	Rs.	P.
A— Works completed.					
<i>(a) Housing.</i>					
1	Construction of 10 buildings at Dharavi	...	28,29,076.00	19,70,789.00	
2	Construction of 20 buildings at Dharavi	...	26,51,835.00	23,02,246.00	
3	Construction of 4 double-room tenements at Chembur Fire Station		48,991.00	36,683.00	
<i>(b) Building other than housing.</i>					
1	Providing amenities to Hindu Cemetery at Dhake Colony, Andheri		1,71,052.00	1,13,653.00	
2	Construction of school building on L. P. No. 130, Manmala Tank Road	...	14,14,768.00	6,73,586.00	
3	Construction of additional floor over school building at Laxmi Nagar, Khar	...	1,62,292.00	90,547.00	
4	Proposed diagnostic centre, Clinic and Maternity Home at Raoli Camp	...	14,27,909.00	2,43,923.00	
5	Construction of remaining and incomplete work for school building at Sardar Nagar Opp. Samaj Mandir Hall at Raoli Camp	...	16,97,361.00	54,263.00	
6	Construction of a School Building at Match Factory Lane, Kurla...		6,50,480.00	74,205.00	
7	Construction of Scout Camp at Powai	...	2,24,133.00	41,896.00	
8	Construction of temporary O. P. D. Shed in the compound of Dr. K. B. Bhabha Hospital, Kurla	...	1,30,220.00	96,474.00	
9	Construction of incomplete work of construction of Swimming Pool at Ghatkopar	...	11,07,107.00	6,00,247.00	
10	Construction of temporary school building at Chirag Nagar, Ghatkopar	...	45,066.00	28,000.00	
(B)—Works in Progress.					
<i>(a) Housing.</i>					
1	Construction of R. M. O.'s quarters at L. T. M. G. Hospital, Sion		11,75,481.00	5,11,179.00	
2	Construction of 323 tenements and 12 shops at Raoli Camp	...	1,04,57,331.00	2,08,318.00	
<i>(b) Building other than Housing.</i>					
1	Construction of Eastern approach to proposed road over bridge at Andheri	...	33,29,818.00	23,42,454.00	
2	Construction of Western Approach to the proposed road over bridge at Andheri	...	30,52,271.00	16,70,630.00	
3	Construction of retaining wall along the Nallah boundary of Goregaon Municipal Industrial Estates	...	2,50,132.00	49,859.00	
4	Construction of central workshop for Municipal Suburban Transport Division at Santacruz (West)	...	22,85,813.00	8,75,775.00	
5	Proposed extension to the existing Maternity Home at Goregaon	...	4,88,132.00	77,998.00	
6	Filling low-lying land and construction of compound wall for the proposed Transport Garage at P. Isar, Kandivli	...	96,949.00	1,18,801.00	
7	Providing additional amenities at Daulat Nagar Cemetery, Borivli (East)	...	2,83,264.00	757.00	
8	Construction of Municipal School building on Chirawalla land Off S. V. Road, Kandivli (West)	...	13,95,151.00	48,552.00	
9	Construction of school building at Tata Compound, Andheri (West)		7,59,205.00	35,838.00	
10	Construction of additional floor over school building at Prabhat Colony, Santacruz (East), T.P.S. V.	...	3,60,680.00	41,098.00	
11	Extension to school building at Vakola, Santacruz (East)	...	7,21,837.00	48,109.00	
12	Construction of a kitchen block for the use of Hospital and staff building No. 3 etc., at L. T. M. G. Hospital, Sion	...	49,34,046.00	2,01,998.00	
13	Construction of school building behind Matunga Pumping Station at Matunga	...	13,63,753.00	4,36,518.00	
14	Proposed market at Raoli Keliwada	...	18,31,380.00	2,61,892.00	
15	Construction of phase 'B' of fruit and vegetable market at Matunga...		16,71,001.00	1,22,086.00	
16	Providing amenities in the proposed Hindu Cemetery at Govari, Antop Hill, Wadala	...	1,29,781.00	6,140.00	
17	Construction of a Medical College building at L. T. M. G. Hospital, Sion	...	42,90,065.00	56,619.00	
18	Construction of School Building at Dockyard Colony Powai	...	11,06,055.00	97,400.00	
19	Providing amenities to Hindu Cemetery near Beggur's Home, Chembur	...	2,93,508.00	22,159.00	
20	Construction of temporary zonal office building in the compound of Rajawadi Hospital, Ghatkopar	...	2,44,666.00	6,337.00	

APPENDIX No. 28.

Statement showing the works completed and those in progress during the year 1970-71 :—

Serial No.	Name of the work.	Estimated Amount.
Works completed.		
		Re. P.
1	Construction of Main Road in Pandurang Wadi, Goregaon	... 1,74,758.00
2	Construction of road near Issak Aziz Stable off Swami Vivekanand Road, Jogeshwari	99,877.00
3	Providing S. W. drains along old Nagardas Road, Andheri	... 38,566.00
4	Widening of Parleshwar Road, Vile Parle	... 87,073.00
5	Construction of Vehicular Bridge over the Nallah at Bandekarwadi, Jogeshwari	... 46,959.00
6	Construction of Culvert across the Nallah near Samarth Nagar, Jogeshwari	... 43,405.00
7	Widening and improving Road No. 27, in T. P. S. III, Bandra including S. W. drains	1,38,972.00
8	Providing S. W. drains and culverts along Swami Vivekanand Road and certain Roads in T. P. S. III, Bandra	... 3,34,624.00
9	Construction of Road and S. W. drains along 12.20 Metres road, south of Plot No. A-5, Juhu Vile Parle Development Scheme South of Irla Nallah	... 1,99,377.00
10	Adding set-back on Dixit Road, Vile Parle	... 47,681.00
11	(i) Construction of road extending Vithalbhai Patel Road, (ii) Construction of road joining Vithalbhai Patel Road, Andheri	... 3,62,623.00
12	Widening of Oshivara Bridge at Jogeshwari, (Part portion completed)	... 11,06,426.00
13	Repairing by resurfacing with reconditioned asphaltic concrete Lady Jamshedji Road from Mogul Lane to Shivaji Park Junction. (Trench taken by the Hydraulic Engineer's Department for guniting two 57" dia. water mains)	... 5,33,731.00
14	Widening of Dattapada Road at Borivli (East)	... 6,15,949.00
15	Widening of Shimpoli Road from Swami Vivekanand Road to Shimpoli Village at Borivli (West)	... 5,88,573.00
16	Widening of Kandarpada Road from Swami Vivekanand Road to Kandarpada Village at Borivli (West)	... 11,86,514.00
17	Widening and improving of Swami Vivekanand Road from Oshivra to Pirmal Industries, Stage I	... 21,39,703.00
18	Widening and improving of Swami Vivekanand Road from Goraswadi to Poisar, Stage III	... 21,67,415.00
19	Construction of asphalted surface over W. B. Roads at Kandivli Industrial Estate	... 3,89,887.00
20	Widening of Swami Vivekanand Road from Poisar to Borivli—Stage IV	... 22,14,886.00
21	Proposed widening and improving the surface of the carriageway with asphaltic macadam of Ghatkopar Mahul Road from Salt Chowky to R. ilway level crossing and providing footpaths on this road	... 13,38,887.80
22	Improving the carriageway with asphalt macadam and providing asphalt as seal coat for footpath on Bombay Agra Road from Ghatkopar to Shangrila Biscuit Factory, Bhandup	... 27,60,053.00
23	Proposed widening and improving the surface of the carriageway with asphalt macadam of Sion Trombay Road from Junction of Eastern Express Highway to the junction of proposed Bombay Panvel Road and providing open S. W. Drain and footpaths on this road	... 63,37,740.05
24	Proposed widening and improving the surface of the carriageway with asphalt macadam of Sakivihar road from Sakinaka to Hydraulic Engineer's office Powai, and providing footpath on this road	... 27,08,266.55
25	Proposed Sewri Ghatkopar Road between Panjrapole Naka and proposed 299 feet road at Deonar including providing S. W. Drains	... 17,26,883.10
26	Construction of open storm water drain and culvert along proposed 18.30 Metres (60") road between Ramkrishna Chemburkar Marg (G. M. Road and Deonar on the north of Kurla Mankhurd Railway)	... 4,28,611.97
27	Improvement of road leading to Gamdevi Temple behind Sanghani Estate, Ghatkopar	77,511.00
28	Proposed construction of the private road leading to Narda Nagar and Tembepada School off Jangal Mangal Road, Bhandup	... 1,15,987.97
29	Strengthening the pressure grouting the culvert on Powai Goregaon Road including demolishing and reconstructing all the new wing walls	... 1,05,474.55

APPENDIX No. 23—Contd.

Serial No.	Name of the work.	Estimated amount.
Work in progress		Rs. P.
1	Laying asphaltic concrete over Swami Vivekanand Road from Andheri Naka to Oshivra	12,53,889.00
2	Remaining work of widening Muthuradas Vassanji Road near Marol Market and Mithi River bridge in asphalt Macadam ...	2,18,079.00
3	Improving and widening 33rd Road, Bandra, T. P. S. III, including S. W. drains ...	2,13,612.00
4	Widening and improving 13th Road, Khar, including S. W. drains ...	3,58,671.00
5	Concreting passages in Danda pada Village, Khar ...	3,68,458.00
6	Construction of the remaining roads in Town Planning Scheme IV, in full grouting... ..	5,11,081.00
7	Resurfacing with cement concrete, Shivaji Park Junction ...	3,93,974.00
8	Construction of remaining roads in T. P. S. III (Mahim) in cement concrete including drainage ...	6,11,492.00
9	Widening and improving of Swami Vivekanand Road from Pirmal Industries to Goraswadi. Stage II ...	19,98,543.00
10	Construction of an access road to refuse dumping ground at Malad ...	2,27,767.00
11	Widening of Shantilal Mody Road from Swami Vivekanand Road to proposed 13.40 metres Road at Kandivli ...	3,49,073.00
12	Construction of cement concrete portion of Swami Vivekanand Road adjoining Borivli Level Crossing ...	1,63,915.00
13	Widening of Jawahar Nagar Road No. 2 at Goregaon ...	2,27,237.00
14	Widening of Mathuradas Road from Swami Vivekanand Road to Jamu Kung at Kandivli ...	4,63,112.00
15	Widening of Lokmanya Tilak Road from Babhai to Gorai Creek, Borivli ...	4,18,958.00
16	Construction of Internal Roads in Slaughter House area including providing S. W. drains and Culverts ...	37,77,604.00
17	Proposed 18.30 metres road between R. K. Chemburkar Marg and Deonar on the north of Kurla Mankhurd Railway ...	10,26,149.68
18	Asphalt paving the internal Roads and S. W. Drain at Deonar Slaughter House ...	8,08,050.00
19	Providing approach Road to the dumping site at Mulund ...	4,43,359.00
20	Providing S. W. Drain along Devi Dayal Road, Mulund ...	5,70,542.00
21	Road leading to Pumping Station, Deonar ...	3,08,778.00
22	Resurfacing Dr. Ambedkar Road from B. N. Maheshwari Udyan to Khodadad Circle with regrading Conditional asphaltic concrete ...	17,68,191.00
23	Construction of 18.288 Metres wide Road No. 33-A between Road No. 18 to 23 in Semigrouting including footpaths on both side ...	4,24,190.00
24	Improving and widening the existing Agarwadi Road between Sion Trombay Road and 4th Road at Slaughter House, Deonar ...	2,41,459.00
25	Construction of a road for refuse dumping in Deonar ...	7,11,564.00
26	Widening and improving the Lokmanya Tilak Road, Mulund and providing S. W. Drains along the Road ...	12,93,947.00
27	Widening and improving the Parsi Wadi Road No. 1 and providing S. W. Drain at Ghatkopar ...	1,18,812.00
28	Construction of pathways at Municipal Colony at Deonar ...	...
29	Providing embankment for the proposed K. D. Railway at Deonar ...	2,02,200.00
30	Widening of Saphed Pool, Kurla ...	1,56,499.00

APPENDIX No. 29.

Drainage Construction (Suburbs).

Works completed during 1970-71.

Serial No.	Name of the work.	Estimated cost.	
		Rs.	P.
1	Guniting of Dome of Digestion Tank at Versova Treatment Plant at Andheri (West)...	20,465.00	
2	Training of existing Shraddhanand Nalla at Vile Parle East ...	49,545.00	
3	Providing and laying 1,200 mm. dia. R. C. pipe sewer along 100' Relief Road etc., at Malad West, Part III ...	3,23,047.00	
4	Providing and laying 400 mm., 300 mm., dia. R. C. pipe sewer along Shantilal Modi Road and 230 mm. dia. S. W. Pipe sewer in Cross Road at Kandivli West, Area 'C'...	2,69,705.00	
5	Providing and laying 230 mm. dia. S. W. pipe sewer and 450 mm. dia. R. C. Pipe sewer along Mathuradas Road etc., at Kandivli West, Area 'A' ...	3,15,690.00	
6	Providing and laying 400 mm., (16") dia. R. C. H. P. and 230-300 mm. (9"-12") dia. stcneware pipe sewer in area of Sindhi Immigrants Society at Chembur ...	3,45,252.93	
7	Providing and laying S. W. drains along Approach Road to Sunder Baug Estate at L. B. Shashtry Marg, Kurla (West) ...	28,758.92	
8	Providing and laying 230 mm. dia. S. W. pipe sewer for connecting house drain to existing M. H. at Ramkrishna Chemburkar Marg at Chembur Colony ...	19,650.81	
9	Providing and laying 230 mm. dia. stone pipe sewer at Mulund Octroi Naka ...	30,854.64	
<i>Works in progress during 1970-71</i>			
1	Providing and laying 300 mm., 230 mm. S. W. Pipe sewer along Bazar Road at Bandra (West) ...	1,07,397.00	
2	Providing and laying 300 mm., 230 mm., dia. S. W. Pipe sewer in area A and C North of Irla Nalla at J. V. D. P. Scheme, Vile Parle (West) ...	3,60,671.00	
3	Providing and laying 300 mm., 230 mm. dia. S. W. Pipe sewer in area B and D, North of Irla Nalla at J. V. D. P. Scheme, Vile Parle (West) ...	3,88,425.00	
4	Providing and laying 230 mm. dia. S. W. Pipe Sewer along Koldongri Road from existing manhole upto Sahar Road Vile Parle East ...	1,34,011.00	
5	Providing and laying 300 mm., 230 mm., dia. S. W. Pipe Sewer in area E and I, North of Irla Nalla at J. V. D. P. Scheme, Vile Parle (West) ...	1,31,185.00	
6	Providing and laying 230 mm., dia. S. W. Pipe sewer for sub-plots Nos. 20 to 23 along 30.48 M. wide D. P. Road of final Plots Nos. 18, 19 in T. P. Scheme VI, Santacruz West ...	1,00,083.00	
7	Diversion of 230 mm. dia. S. W. Pipe sewer from Junction of 11th and 8th Road etc., in T. P. Scheme III, Santacruz East ...	31,554.00	
8	Construction of pumping station (Civil work) and ancillary work etc., at Kherwadi Bandra East ...	18,92,351.00	
9	Providing and laying 350 mm. R. C. pipe sewer from Bazar Road to Bandar Wadi Pumping Station at Bandra, West ...	1,24,961.00	
10	Providing and laying 300 mm., 250 mm., dia. S. W. Pipe Sewer in area F, G and H, North of Irla Nalla in J. V. D. P. Scheme, Vile Parle West ...	5,05,538.00	
11	Construction of Mcgra Nalla from S. V. Road to Deewood Baug, Andheri West ...	2,77,012.00	
12	Training of nalla from Patel Engineering Works to Oshivra River, Jogeshwari, Part II ...	4,25,920.00	
13	Training of nalla from Patel Engineering Works to Oshivra River, Jogeshwari, West, Part I. ...	3,50,000.00	
14	Providing and laying 300 mm., 230 mm., dia. S. W. Pipe sewer in Area A at Malad West ...	2,90,133.00	
15	Providing and laying 230 mm., dia. S. W. Pipe Sewer in Area B at Malad West. ...	3,40,485.00	

APPENDIX No. 29—Contd.

Serial No.	Name of the work.	Estimated cost.	
		Rs.	P.
16	Providing and laying 450 mm. dia. R. C. Pipe Sewer and 300 mm., 230 mm., dia. S. W. Pipe sewer in Area C at Malad West. ...	2,15,761.00	
17	Providing and laying 300 mm., 230 mm. dia. S. W. Pipe sewer in area D at Malad West. ...	3,33,891.00	
18	Providing and laying 450 mm., 400 mm. dia. B. C. Pipe sewer and 300 mm., 230 mm., dia. S. W. Pipe Sewer in Area 'E' at Malad East. ...	3,91,519.00	
19	Providing and laying 300 mm., 230 mm., dia. S. W. Pipe Sewer in area F at Malad West. ...	2,12,757.00	
20	Providing and laying 300 mm., 230 mm., dia. S. W. Pipe Sewer in area G at Malad West. ...	2,00,736.00	
21	Providing and laying 300 mm., 230 mm. dia. S. W. Pipe Sewer along Chinchavli Road etc., at Malad West, Area 'H'. ...	3,09,554.00	
22	Providing and laying 230 mm. dia. S. W. Pipe Sewer in New Orlem Colony at Malad West, Area I ...	1,85,374.00	
23	Providing and laying 300 mm., 230 mm. dia. S. W. Pipe Sewer in Orlem Colony, at Malad West. Area 'J'. ...	2,06,668.00	
24	Construction of nalla from Western Highway to Subway at Malad East (Pushpa Park Nalla). ...	8,76,917.00	
25	Construction of nalla from sub-way to Patel Housing Colony at Malad West ...	9,43,542.00	
26	Construction of S. W. drainage arrangement at M. H. B. Colonies at Goregaon West, Part I. ...	3,43,777.00	
27	Construction of S. W. drainage arrangement at M. H. B. Colonies at Goregaon West, Part II. ...	4,08,987.00	
28	Training of existing nalla from Khotwell Road to Bachani Nagar, etc., at Malad East ...	1,07,357.00	
29	Construction of Pumping Station (Civil work) holding pond and compound wall etc., at Malad Pumping Station West. ...	25,10,355.00	
30	Providing and laying 230 mm. dia. S. W. pipe sewer along Khajuria Road, Bhandarkar Road, etc., at Kandivli West Area 'E'. ...	2,70,097.00	
31	Providing and laying 900 mm., 700 mm. dia. R. C. Pipe Sewer along Shankar Lane at Kandivli West (Remaining work). ...	1,93,497.00	
32	Providing and laying 700 mm. R. C. pipe sewer and 230 mm., S. W. pipe sewer along Kilachand Road, etc., Kandivli West, Area 'F'. ...	2,66,157.00	
33	Providing and laying 300 mm. dia. R. C. pipe sewer along Ram Gully and 230 mm. S. W. Pipe sewer in Cross Road, Kandivli West, Area 'B'. ...	2,41,106.00	
34	Providing and laying S. W. pipe sewer along Station Road Dr. Govind Road etc., Kandivli West, Area 'C'. ...	2,49,127.00	
35	Construction of S. W. Drain Channel at Poisar Sub-way at Kandivli East. ...	2,65,277.00	
36	Construction of Chandavarkar Nalla at Borivli West. ...	5,59,845.00	
37	Construction of M. H. B. Nalla in R Ward at Borivli (Remaining work between A to F). ...	4,90,581.00	
<i>Works in progress during the year 1970-71</i>			
38	Construction of channel from the culvert on the approach Road to Tansa Pipe Line at Chembur. ...	2,49,922.61	
39	Providing and laying 230 mm. (9") dia. stoneware pipe sewer in Displaced persons Colony at Chembur. ...	5,17,502.06	
40	Providing and laying 400 mm. (16") dia. R. C. H. P. sewer and 230 mm. (9") dia. stoneware pipe sewer in the remaining area of Sindhi Immigrants Co-operative Society at Chembur. ...	1,27,994.08	

Serial No.	Name of the work.	Estimated cost.	
		Rs.	P.
41	Providing and laying 230 mm. dia. stone ware pipe sewer in Kamgar Co-operative Society at Kurla.	...	95,224.65
42	Training of nalla between culvert No. 20 below Tansa Pipe Line and South of Chittaranjan Nagar, Vidyavihar (East).	...	4,66,628.73
43	Providing and laying 230-300 mm. (9'-12") dia. stoneware pipe sewer along Lokmanya Tilak Road and Mahatma Phule Road, at Mulund (East).	...	2,53,670.19
44	Providing and laying 230-300 mm. (9'-12") dia. stoneware pipe sewer drains in Mulund Area 'A'.	...	2,81,868.23
45	Providing and laying 230-300 mm. (9'-12") dia. stoneware pipe sewer and 400 mm. dia. R.C. pipe sewer in Mulund Area 'B'.	...	3,00,742.17
46	Providing and laying 230-300 mm. (9'-12") dia. stoneware pipe sewer in Mulund Area 'C'.	...	2,79,751.92
47	Construction of Pumping Station (Civil, Mechanical and Electrical Works) compound wall night soil depot at Mulund Pumping Station at Mulund (East).	...	12,18,959.67
48	Construction of S. W. Drain at Chunabhatti area Kurla (East).	...	3,32,532.00

APPENDIX No. 30.

Important set backs added to the public roads in Suburbs and Extended Suburbs.

Serial No.	Name of the Roads	Total area added in Sq. M. (Approx.)
1	Liberty Garden Road No. 1.	1,000.00
2	Liberty Garden Road No. 2.	1,000.00
3	Mamlatdar Wadi Extension.	1,000.00
4	Anand Road.	500.00
5	Extension of Sewaram Lalwani Road, Mulund.	442.00
6	Paraj Panchayat Road at Andheri.	1,991.20
7	Old Nagardas Road, Andheri.	2,412.21
8	Caves Road, Jogeshwari.	187.45
9	Jay Prakash Road, Andheri.	50.81
10	Lala Lajpatrai Road, Kandivli West.	680.00
11	S. V. Patel Road, Kandivli (West).	2,700.00
12	Ashok Road, Kandivli (East).	12,600.00
13	Kasturba Road, Kandivli (West).	2,400.00
14	Trikandas Road.	2,400.00
15	Charkop Road, Kandivli (West).	16,800.00
16	S. G. Barve Marg, (West).	2,800.00
17	Old Agra Road.	2,400.00

APPENDIX No. 31.

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.	P.
1	Road joining Quarry Road and Jitendra Road through Hind Stone Quarry Malad (East).	28,849.00	
2	Bye Lane off Jawahar Nagar Road No. 1, Goregaon (West).	1,859.00	
3	Kisan Cross Road, Malad (West).	4,545.00	
4	Extension of Liberty Garden Road, upto Zakaria Road.	14,845.00	
5	Jain Mandir Road, Goregaon (West).	10,979.00	
6	Road leading to Chandralok Building, off Aaray Road, Goregaon (West).	9,830.00	
7	Road No. 17, in Jawahar Nagar, Goregaon (West).	18,194.00	
8	Road No. 18, in Jawahar Nagar, Goregaon (West).	18,194.00	
9	Road joining Gogte Wadi Road and Pandurang Wadi Road Goregaon (East).	9,020.00	
10	Road leading to Tilak Nagar from Vishwehwar Nagar, Goregaon (E).	6,601.00	
11	Extension of Lokmanya Tilak Nagar Road No. 5, upto Shastri Nagar.	12,255.00	
12	Road No. 16, in Jawahar Nagar, Goregaon, (West).	18,194.00	
13	I. C. Colony Cross Road Borivli (West).	5,486.00	
14	Road leading to top of Hill off Rai Dongri Road, Borivli (East).	8,260.00	
15	Road joining Mahadevbhai Desai Road with Rai Dongri Road, Borivli (East).	6,716.00	
16	Dattapada Cross Road behind Dattapada Municipal School, Borivli (East).	18,356.00	
17	Holy Colony Cross Road I. C. Colony Borivli (West).	25,818.00	
18	Road leading from Kurla-Andheri Road to Kajupada Pipe Line.	62,000.00	
19	Road leading from Sion Chembur Road to Air India Society.	51,000.00	
20	Road leading from Kasaiwada to Bangadiwalla Compound.	24,000.00	
21	Passage at Makkawadi.	24,000.00	
22	Passage at Takia Market.	10,000.00	
23	Passage at Affowala Lane.	10,000.00	

APPENDIX No. 32.

Statement showing the roads which were in public use for more than 10 years.

Serial No.	Name of the roads.
1	Passage leading to Amir Baug P. S. C., Chembur.
2	Extension to St. Anthony Road, Chembur.
3	2nd Access to Tilak Nagar, Chembur.
4	Lal Donger Road, Chembur.
5	Road leading to Sastri Building off R. C. Marg, Chembur.
6	Narayan Nagar Road.
7	Tagore Nagar from Vikroli Station Road to Express Highway.
8	Kajrolkar Society Road from L. B. S. Marg.
9	Rifle Range Road.
10	Gamdevi Temple Road.
11	Passage leading to Datar Colony.
12	Jamil Nagar Road off Pratap Nagar.
13	Utkarsha Nagar Road.
14	Sai Vihar Road off Tembepada.
15	Sai Hill Road off Tembepada.
16	Road leading to Gamdevi Temple off Gamdevi Road.
17	Road leading to Church off Gamdevi Road.
18	Gamdevi extension upto Quarry Road.
19	Passage between Pipe Line and Gamdevi Hill at Tembepada.
20	Passage from the junction of Nardas Nagar to Boundary of Shivaji Nagar, Tembepada (in front of School).
21	(Sarvodaya Nagar) Road from Jungle Margal joining Tembepada Road.
22	Passage leading to Hazi Hazari Chawl at Pratap Nagar (Kureah Nagar).
23	Extension of Pratap Nagar Road to Hanuman Nagar.
24	Extension of Datta Mandir Road.
25	Passage leading to Devipada.
26	Damle Colony Road.
27	Passage between Gamdevi Road and Lake Road.
28	Road leading to proposed Municipal Industrial Estate of Bhandup Village Road.
29	Passage behind Mangatram Petrol Pump off Quarry Road.
30	Extension of Quarry Road (from Usuf Nagar to Shivaji Talao).
31	Part of Ganesh Gavde Road, Mulund (West).
32	Road near the Suyog Co-operative Housing Society, Mulund (East).
33	Road joining Quarry Road and Jitendra Road through Hind Stone Quarry Malad (East).
34	Bye Lane off Jawahar Nagar Road No. 1, Goregaon (West).
35	Kisan Cross Road, Malad (West).
36	Extension of Liberty Garden Cross Road, upto Zakeria Road.
37	Jain Mandir Road, Goregaon (West).
38	Road leading to Chandralok Building, off Aaray Road, Goregaon (West).
39	Road No. 17, in Jawahar Nagar, Goregaon (West).
40	Road No. 48, in Jawahar Nagar, Goregaon (West).
41	Road joining to Gogte Wadi Road and Pandurang Wadi Road., Goregaon (East).
42	Road leading to Tilak Nagar from Vishweshwar Nagar, Goregaon (East).
43	Extension of Lokmrya Tilak Nagar Road, No. 5, upto Shastri Nagar (Goregaon) W.
44	Road No. 16, in Jawahar Nagar, Goregaon (West).
45	Construction of 4 Cross Roads in Liberty Garden Scheme No. 2.
46	Construction of Road leading to Pahadi Municipal School from Aaray Road, Goregaon.
47	Construction of two Cross Lanes of Ramchandra Lane, Malad.
48	Construction of extension of Dattamandir Road upto C. O. D. Road, Malad (East).
49	Construction of roads joining Jitendra Road and Makrani Road.
50	Road from Plot No. 86, Pushpa Park to Hawa Hira Road and Daffatary Road, Malad (East).
51	Road No. 13, 14, 15 in Jawahar Nagar.
52	Extension of Ramchandra Lane.
53	Daruwala Cross Lane, Road No. 2.
54	Road leading to Bandongri to Datta Mandir Road.
55	Road at Khot Kuwa leading to Dhanji Wadi.
56	Jawahar Nagar Road Nos. 19 to 22.
57	Ketkipada Road, Dahisar (East).
58	St. Anthony Road Extension Poisar.
59	Poisar East Road near Subway.
60	Road by the side of Bhagwati Hospital, leading to Dahisar River off S. V. P. Road, Borivli (West)
61	Road at Eksar Village.
62	Road from Portuguese Bridge to Mhatre Road, (Govan Road) at Dahisar (West).
63	Road at Naupada.
64	Road at Sambhaji Chowk.

APPENDIX No. 33.

Statement showing the private roads taken over by the Corporation in the Suburbs and Extended Suburbs.

Serial No.	Name of the Roads.
1	Four Cross Roads in Liberty Garden Scheme No. 2.
2	Road leading to Pahadi Municipal School from Aaray Road, Goregaon.
3	Two Cross Lanes of Ramchandra Lane, Malad.
4	Extension of Dattamandir Road upto C. O. D. Road, Malad (East).
5	Roads joining Jitendra Road and Makaranipada Road.
6	Road from Plot No. 86, Pushpa Park to Hira Hawa Road and Daffatary Road, Malad (East).
7	Road No. 13, 14, 15 in Jawahar Nagar.

APPENDIX No. 34.

Proposed 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.
1	Private street in Pestan Sagar Scheme off Ghatkopar Mahul Road, Chembur. ...	On receipt of representation from one of the plot owners that road belonging to State Government, a reference was made to the Collector of Bombay, B. S. D. Their reply was received in October 1970. M. C. 's approval was also obtained to take action under Section 305 of the B. M. C. Act. Further action was in progress.

APPENDIX No. 35.

Action under Section 305 of the B. M. C. Act to improve the Private Streets in Suburbs and Extended Suburbs.

Serial N.	Name of the Street.	Remarks.
1	Private Streets in Gazdar Scheme, Santacruz (West). ...	Action under Section 305 of the Act Notices were issued. There were 10 roads to be improved under Section 305. In spite of such notices, served, the owners of the premises failed to carry out the work within the stipulated period in the notices. The work was proposed to be carried out under Section 489 of the B. M. C. Act.
2	Private Street in Kherani Lane at Saki Vihar Road, Kurla.	Do.

APPENDIX No. 36.

Measures taken for reducing the recurrence of flooding during the year 1970-71.

Serial No.	Name of the Work.	Amount
		Rs. P.
1	Desilting and excavation of road site drain at C. S. T. Road, Santacruz. ...	2,499.14
2	Desilting and excavation of Nala from Khar pumping station upto western Exp. High way, Santacruz. ...	4,538.91
3	Desilting of Nalla from Pipe Line upto Nanda deep culvert along Western Express High way, Bandra. ...	1,826.61
4	Desilting and excavation of Nalla at Sunder Nagar, Santacruz. ...	1,924.74
5	Desilting of Peripheral channel at Mahim Creek. ...	2,181.47
6	Desilting and excavation of channel at Chunabhatti and behind S. N. D. T. at Santacruz	1,703.06
7	Excavations and desilting of Nalla from Behrampada upto Nanda deep culvert including additional pipe at Behrampada culvert, Bandra. ...	2,729.62
8	Desilting of Boran Nalla at Bandra. ...	5,813.67
9	Desilting of Nalla along 96" water main at Kherwadi, Bandra. ...	4,588.43
10	Desilting of Peripheral channel at Behrampada Kherwadi, Bandra. ...	3,637.70
11	Desilting of Nalla from Kherwadi upto M. H. B. Pumping Station on the Express Highway. ...	2,000.40
12	Desilting and excavation of Nalla from Green Stt. Opp. Garden Bund, Santacruz. ...	8,117.34
13	Levelling the earth dump to prevent flooding at Carter Road, Bandra. ...	3,681.86
14	Providing and laying 800 mm. R. C. hume pipe at P. No. 10A Laxmi Niwas, Vakola Village-Santacruz. ...	5,712.28
15	Excavation of roads side drains at Linking Road, Bandra. ...	1,977.63
16	Desilting of Vakola River North of Nehru Road, Santacruz. ...	4,212.11
17	Desilting of Vakola River Southside at Nehru Road, Santacruz. ...	2,482.30
18	Excavation in Road side drain at Pali Hill Road, Bandra. ...	1,157.82
19	Excavation of drain at John Baptista Road, Bandra. ...	374.25
20	Desilting work at Bandra. ...	3,934.97
21	Excavation of katcha side drain along eastside of 15th road from Junction of 30th Road to Khar Pali Road. ...	3,594.48
22	Excavation of katcha side drain along west side of 14th road from Junction of 30th Road to Khar Pali Road. ...	3,251.45
23	Kutch drainage along east side of 16th Road from junction of 30th Road to Khar Pali Road. ...	3,194.42
24	Kutch drain along 33rd road from junction of 16th Road to Linking road, Bandra. ...	4,148.29
25	Kutch side drain along west side of 16th Road from junction of 30th Road to Khar Pali Road. ...	2,835.26
26	Kutch side drain at Vakola Village Sunder Nagar and Military Road at Santacruz (East). ...	1,449.25
27	Desilting the Nalla at Sherly Village Bandra. ...	1,586.83
28	Kutch side drain along east side of 14th Road, from Junction of 30th Road to Khar Pali Road. ...	3,245.24
29	Desilting the covered dhapa drain along 33rd road from Linking road to railway culvert No. 24, Bandra. ...	2,391.91
30	Providing pipe line at Pucca drain Kherwadi sub-way. ...	2,388.45
31	Providing kutch side drain and providing pipe line at Vakola Bridge. ...	1,069.57

Serial No.	Name of the work.	Amount	
		Rs.	P.
32	Desilting Railway culvert No. 25 at Khar.	2,767.14	
33	Providing kutcha side drain and providing pipe line at chunabhatti.	495.98	
34	Desilting dhapa drain at Sartacruz sub-way	4,349.81	
35	Desilting of railway culvert No. 24 at Khar.	3,863.66	
36	Desilting of Nalla runing through sherly and Rajan Village Bandra.	6,674.73	
37	Excavation kutcha side drain along Kherwadi Bandra.	2,804.88	
38	Anti-flood measures at Oshivara Village.	3,047.35	
39	Cleaning of Sub-way nalla at Andheri.	2,248.22	
40	Cleaning Nalla at Gundavali Andheri East.	3,420.20	
41	Excavating the kutcha gutter along Express Highway (from Paranjpe B Scheme Road No. 4 upto Nehru Road Vile Parle (East).	3,519.77	
42	Excavating the kucha gutter along Express Highway (from Nehru Road upto Kumar Co. Op. Housing Society) Vile Parle (East).	4,926.76	
43	Cleaning Nalla from Express Highway to Old Nagardas Road, Andheri East.	4,489.34	
44	Cleaning Majas Nalla Jogeshwari.	4,015.32	
45	Cleaning Kol-dongri nalla (from 20 Road upto Lallubhai Park) Vile Parle East.	5,121.45	
46	Excavating the kutcha gutter from Chavan Wadi at Phiroz Shah Mehta Road upto Express Highway Vile Parle East.	3,544.91	
47	Cleaning Nalla at Mogra Andheri East.	4,463.55	
48	Excavating the gutter along 100 ft. Link Road at North of Irla Nalla.	4,192.27	
49	Cleaning of Juhu Aerodrome Nalla.	10,989.40	
50	Cleaning Nalla at Dadabhai Road, Jaiprakash Road, Andheri.	2,842.44	
51	Cleaning Nalla at Samarth Nagar, Jogeshwari East.	4,201.02	
52	Excavating gutter along Jai Prakash Road Opp. Navrang Cine-ma Andheri.	2,264.76	
53	Excavating gutter at Madhavdas Amersey Road near New Bridge side Andheri.	125.28	
54	Cleaning Nalla at Azad Nagar Veera Desai Road Andheri West.	532.43	
55	Excavating gutter at Quarry Road Gilbert Hill Andheri.	422.98	
56	Excavating kutcha drain at Natwar Nagar Road No. 1, P. P. Dias Compound Jogeshwari.	144.87	
57	Cleaning of Kol-dongri Nalla (from Express Highway upto 25 ft. Road kol-dongri Vile Parle.	2,262.58	
58	Excavating kutcha drain at Mogra near Hanuman Hotel Andheri.	565.17	
59	Excavating and cutting of rock (from Phirozshah Mehta Road upto Shradhanand Road Nalla, Vile Parle.	1,060.99	
60	Excavating kutcha drain at H. F. Society Jogeshwari.	298.02	
61	Cleaning Dhapa drain at Besent Road from Vallabhai Road to S. V. Road, Vile Parle.	4,063.93	
62	Cleaning Nalla passing through L. I. C. Building near sub-way at Vile Parle.	3,265.55	
63	Excavating side drain at Vaikuntlal Mehta Road, Vile Parle East.	1,022.40	
64	Providing R. C. C. hume pipe across Kurla Andheri Road near Police Station Andheri East.	1485.59	

Serial No.	Name of the work.	Amount	
		Rs.	P.
65	Providing cross pipe at Kurla Andheri Road.	691.41	
66	Excavating the side drain at N. S. Road No. 13, J. V. D. Scheme At Vile Parle. ...	3,861.74	
67	Cleaning Nalla from Railway line to M. S. Road No. 13, Vile Parle West. ...	12,498.69	
68	Excavating the side drain of Link Road North of Irla Nalla J. V. D. Scheme Vile Parle West.	2,376.76	
69	Cleaning of Nalla from Kol-dongri culvert Sahar Road upto railway compound Vile Parle.	5,371.63	
70	Cleaning the kutch gutter along Express Highway from Nehru Road Vile Parle East. ...	3,998.06	
71	Excavating Kutch gutter from Amrit Wadi upto Express Highway culvert Vile Parle East.	3,717.37	
72	Excavating Kutch gutter at Nariman Road extension Vile Parle East.	3,909.76	
73	Excavating the kutch gutter inside and outside the Parle Products Vile Parle East. ...	2,685.82	
74	Excavating side drain from Nanavati Hospital to S. V. Road and St. Braz Road Vile Parle.	1,907.13	
75	Cleaning Dhapa drain from S. V. Road to Juhu Nalla Vile Parle (West). ...	1,334.50	
76	Excavating kutch gutter along 60 ft. road from Mahatma Gandhi Road, Extension Vile Parle.	2,740.78	
77	Excavating kutch Nalla near Vallabh Glass works Kurla Andheri Road. ...	1,351.63	
78	Excavation the side drain 60 ft. road from S. V. Road to N. S. Road No. 1 Vile Parle.	1,794.22	
79	Excavating kutch drain (Natwar Nagar Road No. 5) Jogeshwari (East). ...	824.23	
80	Cleaning Marol Nalla at Marol Market Andheri East.	1,526.93	
81	Ceaning Nella at Marol Market Andheri East.	3,190.53	
82	Desilting Nalla at Deonar Part I	9,200.00	
83	Desilting nalla at Deonar Part II	9,300.00	
84	Desilting Subhash Nagar Nalla from S. T. Road to AFAC School.	8,900.00	
85	Desilting Subhash Nagar Nall from AFAC School to Railway culvert.	8,850.00	
86	Desilting Nalla at Mankhurd.	6,750.00	
87	Desilting Nalla at Tilak Nagar, Chembur.	3,350.00	
88	Desilting Nalla from Somaya College to Ghatkopar Pumping Station.	9,200.00	
89	Desilting Nalla open drain along R. C. Marg.	2,300.00	
90	Desilting Nalla at Maroli Naka.	8,580.00	
91	Desilting Nalla at Telecom Factory.	7,600.00	
92	Providing culvert at Basant Park, Chembur.	5,600.00	
93	Providing H. P. Culvert at 15th Road, Chembur.	2,500.00	
94	Desilting S. W. Drain in Tilak Nagar, Chembur.	9,700.00	
95	Desilting S. W. Drain in Deonar Colony, Old Sheds.	1,750.00	
96	Desilting of Nalla in N Ward Ghatkopar.	1,13,283.00	
97	Anti flood measures, Desilting of Nalla etc. in Bhandup and Mulund.	89,457.00	
98	Construction of S. W. Drains etc.	11,988.00	

Serial No.	Name of the work.	Amount	
		Rs.	P.
99	Removing silt from Dattamandir Road Nalla, Malad (East)	2,159.00	
100	Removing silt from the sub-way nalla from Railway Bridge towards Daruwalla compound, Malad (West)	4,361.00	
101	Removing silt from the Nalla at sub-way from Daruwalla compound to S. V. Road, Culvert Malad (West).	3,839.00	
102	Removal of silt from Saptarshi Nalla, Malad (West).	1,486.00	
103	Removing silt from Nalla at Ganganivas, Malad (West).	3,096.00	
104	Removing silt from Devchand Nagar Nalla Malad (East).	1,698.00	
105	Removing silt from Nalla at Dhanji Wadi, Malad (East).	2,477.00	
106	Removing silt from Ranchandra Lane Nalla Malad (West).	3,860.00	
107	Removing silt from sub-way Nalla upto storms railway bridges, Malad (East).	811.00	
108	Removing silt from Daruwalla Nalla Colowhestream of culvert, Malad (East).	292.00	
109	Removing silt from Pushpa Park Nalla part I, Malad (East).	4,706.00	
110	Removing silt from Pushpa Park Nalla part II, Malad (East).	4,971.00	
111	Removal of silt and clearing Yamunapada Nalla Malad (East).	1,569.00	
112	Removal of silt from churiwadi Nalla part I of Goregaon (East).	3,715.00	
113	Removal of silt from Churiwadi Nalla Part II, Goregaon (East).	4,950.00	
114	Removal of silt and clearing Nalla at the devsi stream of culvert at Jawahar Nagar Road No. 4, Goregaon (West).	1,982.00	
115	Removal of silt and clearing the Nalla from Bus stand to Topiwala compound, Goregaon.	2,064.00	
116	Removal of silt and cleaning the Nalla from Bus Stand to topiwala compound, Goregaon (West).	1,073.00	
117	Removal of silt and cleaning the covered drains in Bhandran Nagar, Malad (East)	400.00	
118	Removal of silt from Chincholi Nalla from S. V. Road to Railway culvert.	3,715.00	
119	Removal of silt from chincholi Nalla from S. V. Road culvert to Sarvodaya School, Malad (West).	4,541.00	
120	Removal of silt from Chincholi Nalla (Down scheme of Sarvodaya School, Malad)	4,541.00	
121	Removal of silt and cleaning of Vijayakar Wadi Nalla, Malad.	4,211.00	
122	Removal of silt from kutch gutter at Motilal Nagar Road No. 2, 3, Goregaon (West)	1,404.00	
123	Removal of silt and cleaning nalla going through Shastri Nagar, Part I, Goregaon (West).	4,954.00	
124	Removing of silt and cleaning Nalla going through Shastri Nagar Part II, Goregaon (West).	4,954.00	
125	Removal of silt and cleaning of Nalla of Nanda Deep Society at Goregaon.	2,394.00	
126	Removal of silt and cleaning Nalla at Shrinagar Society at Goregaon.	1,445.00	
127	Removal of silt and cleaning of Ebrahim Mansion Nalla, Goregaon (West).	4,830.00	
128	Removal of silt from Nalla from B. E. S. T. Quarters to Oshiwara Part I, Goregaon (West).	4,541.00	
129	Removal of silt and cleaning Nalla from B. E. S. T. Quarters Oshiwara part II, Goregaon (West).	4,541.00	
130	Removing of silt and cleaning of the Walbhat Nalla Part I, Goregaon (East).	4,954.00	

Serial No.	Name of the work.	Amount
		Rs. P.
131	Removing of silt and cleaning of the Walbhat Nalla part II, Goregaon (East). ...	4,954.00
132	Removing of silt and cleaning of the Walbhat Nalla part II, Goregaon (East). ...	4,954.00
133	Removing of silt and cleaning of the Walbhat Nalla part III, Goregaon (East). ...	4,954.00
134	Excavation of kutchra gutter on either side of road at Naidwala Colony Malad (East).	3,096.00
135	Excavation of kutchra gutter on either side of Adarsh Dughdhalaya Road, Malad (West)	681.00
136	Removal of silt widening and deepening the Nalla at Daffatary Road and Malad (East). ...	223.00
137	Removing silt widening deepening the nalla from lower Bandangri to Dattamandir Road Malad (East). ...	1,032.00
138	Excavation of gutter at tank upto S. W. Drain of Kakeria Road, Malad (West) ...	248.00
139	Removing silt from Nalla at Khotwall Road joining the Nalla at Yamunapada, Malad (East). ...	1,300.00
140	Excavation of kutchra gutter on the Road No. 113 and 13 Goregaon (West) Jawahar Nagar. ...	4,870.00
141	Excavation of kutchra gutter on roads Nos. 2, 14, and 15 Goregaon (West) Jawahar Nagar. ...	3,126.00
142	Excavation and deepening the kutchra gutter at the end of Solicitor Road. ...	503.00
143	Excavation and deepening the channel behind the quarters of Bank of Baroda Staff, Malad. ...	441.88
144	Excavation of gutters at pond on Aaray Road for the Over flow on pond water, Goregaon.	265.00
145	Excavation of kutchra gutter upto Nalla at Kharodi Municipal Colony, Malad (West)	586.00
146	Removal of silt and cleaning of Burkewadi Nalla, Malad. ...	2,477.00
147	Removal of silt from Nalla of Madina Manzil, Goregaon ...	4,459.00
148	Work of desilting cleaning deepening and widening the channels, Nalla, Road side gutters etc. ...	1,67,000.00
149	Desilting of water course between Safed Pul and Mithi River. ...	9,016.00
150	Desilting of water between Safed Pul and Mohili Village. ...	21,912.00
151	Desilting of water between culvert No. 9/5 to S. G. Barve Marg. Culvert. ...	18,880.00
152	Desilting of water between S. G. Barve Marg culvert to Refinery Railway culvert. ...	29,204.00
153	do. Do. Refinery Rly culvert to S. T. Road culvert. ...	49,500.00
154	Do. Do. between Sion Trombay Road culvert to the Eastern Express Highway culvert. ...	11,480.00
155	Do. Do. on both side of Rly. culvert No. 10/1 ...	8,044.00
156	Do. Do. near Kurla Court. ...	537.00
157	Do. Do. at L Ward boundary and City Limits. ...	351.00
158	Do. Do. At Asalpha Village. ...	990.00
159	Do. Do. from Eastern Express Highway culvert to pipe line and to the creek. ...	12,375.00
160	Proposed drain between Hall Road and pipe line. ...	21,369.00
161	Proposed drain at Naupada. ...	9,068.00
162	Providing pipe drain at Naupada Village at Natibai's Chawl ...	3,215.00

APPENDIX No. 37

Statement showing the works which were either completed or those in progress (under loan works) during the year (works other than sewerage)

Serial No.	Name of the work.						Amount
							Rs. P.
1	Providing sewer street connection to Building at S. No. 320/19 (Pt.) (Preet Deep Co. Op. Society).	...	...	...	...	...	3,400.00
2	Do.	Do.	Urinal Block near Rly. Stn. (West).	...	...	...	7,759.00
3	Do.	Do.	Urinal Block near Fishmarket plot.	...	...	...	4,717.00
4	Do.	Do.	Bldg. at S. No. 320/22pt.	...	...	...	1,687.00
5	Do.	Do.	Bldg. at S. No. 310/3-1	...	...	...	1,732.00
6	Do.	Do.	Premises No. 39-A Takia Ward.	...	...	...	1,077.00
7	Do.	Do.	Premises No. 41, Takia Ward.	...	...	...	278.00
8	Do.	Do.	S. No. 193/1-1 part, 194, 212/Part.	...	...	...	7,424.00
9	Do.	Do.	S. No. 320/10.	...	...	...	9,346.00
10	Do.	Do.	Premises No. 72, Swadeshi Mill Road.	...	...	...	700.00
11	Widening and resurfacing Daulat Nagar Road No. 10, Borivali (East).						24,098.00
12	Widening and resurfacing Laxman Mhatre Road, Dahisar						22,678.00
13	Widening and resurfacing Bapu Bagwe Road Dahisar.						18,860.00
14	Do.	Do.	Waman Bhoir Road, Dahisar.	...	...	...	15,434.00
15	Do.	Do.	Laxman Mahtre Road from New Road to Municipal School, Dahisar.	...	...	...	13,648.00
16	Do.	Do.	M. G. Cross Road No. 1, near Gopaljee Hemraj High School, Borivali (East).	...	...	...	45,424.00
17	Do.	Do.	Daulat Nagar Road No. 2, Borivali (E)	...	...	...	13,818.00
18	Do.	Do.	Dattapada Cross Road No. 1, from Madhu Park Nalla, Borivali (East).	...	...	...	24,658.00
19	Do.	Do.	M. G. Road from Diwali Darshan Borivali.	...	...	...	24,688.00
20	Do.	Do.	I. C. Colony Main Road, Borivli (West) Part I	...	...	...	21,503.00
21	Do.	Do.	I. C. Colony Main Road, Borivli (West) Part II	...	...	...	13,508.00
22	Do.	Do.	L. C. Colony Main Road, Borivli (W) Part III	...	...	...	14,114.00
23	Do.	Do.	Roshan Nagar Borivli (West)	...	...	...	7,920.00
24	Do.	Do.	R. C. Patel Road, Borivli (West)	...	...	...	25,475.00
25	Do.	Do.	Daulat Nagar Road No. 2, Part II Borivli (E)	...	...	...	24,823.00
26	Do.	Do.	Daulat Nagar Road No. 5, Borivli (East).	...	...	...	24,823.00

APPENDIX No. 38

Statement showing the works carried out under Village Amenities during the year 1970-71.

Serial No.	Name of the work,	Estimated cost
		Rs. P.
1	C. C. Passages in Kanjur Village.	9,551.87
2	Cement Concrete passages in Bhandup Village leading to Udayshri Co-Op. Housing Society.	6,174.00
3	W. Cs. at Gavanpada (East).	25,000.00
4	Construction of road from Anand Wadi leading to Dindoshi Stage-I, Kura Village. ...	49,076.00
5	Construction of remaining passage in Rai Pada, Malad.	12,079.00
6	Construction of roads in Valanai Village Malad (West of Tank Road).	20,458.00
7	Construction of roads Valanai Village East of Tank Road, Malad.	13,335.00
8	Culvert at Gorai Village.	49,160.00
9	Approach road at Gorai Village (Part work completed).	34,650.00
10	C. C. passages at Kolorpakhadi, Borivli.	4,610.00
11	C. C. passages at Thakorpakhadi, Borivli.	4,865.00
12	C. C. passages at Naitodi, Borivli.	4,930.00
13	C. C. passages at Kandivli Villages.	29,980.00
14	Training of nalla at Kandivli Village....	13,220.00

APPENDIX No. 39

Construction of Public sanitary conveniences during the year under report—work either completed or in progress.

Serial No.	Name of the work	Remarks
1	Construction of 10 seated Public Sanitary Convenience at Kherwadi, Bandra (East). ...	Work completed
2	Construction of 8 seated Public Sanitary Convenience at Jawahar Nagar. ...	Do.
3	Construction of 6 seated public sanitary Convenience at Sarkar Bavdi, Bandra. ...	Work in progress
4	Providing Urinal block at Makrani Pada, Andheri. ...	Work completed
5	4 seated Acqua privi blocks at Squatter Colony, Jogeshwari....	Do.
6	8 seated Acqua privy block at Kcl-Dcngri Vile Parle. ...	Do.
7	6 seated Acqua privy block at Telli Gully Andheri. ...	Do
8	6 seated acqua privy block at Chakala. ...	Work in progress.
9	8 seated acqua privy block at Juhu Koli Wada. ...	Do.
10	4 seated acqua privy block at St. Francis Road Vile Parle. ...	Do.
11	P. S. C. at Trombay, Chembur. ...	Work completed.
12	.. at Ambapada, Chembur. ...	Do.
13	4 seated urinal off Narishala, Chembur. ...	Do.
14	P. S. C. at Raja Milind Society, Chembur. ...	Work in progress
15	P. S. C. at Wadi Village, Chembur. ...	Do.
16	.. Acharya Nagar, Chembur. ...	Do.
17	.. Opp. Shiv Temple, Chembur Camp. ...	Do.
18	.. Near Munl. School, Chembur Camp. ...	Do.
19	Two Nos. of 8 seated W. C. blocks at Parsi Wadi, Ghatkopar. ...	Work completed.
20	One No. of 8 seated W. C. block at Rajawadi, Ghatkopar. ...	Do.
21	One No. of 8 seated W. C. block at Waghji Lane, Ghatkopar. ...	Do.
22	One No. of 8 seated W. C. block at L. B. S. Marg. Ghatkopar. ...	Work in progress.
23	One No. of 8 seated W. C. block at 30' Road, Ghatkopar. ...	Work completed.
24	One No. of 8 seated W. C. block at Vijay Hema Wadi, Ghatkopar. ...	Work completed.
25	P. S. C. 8 seated A. P. block at Madhu Bhavan Compound. ...	Work in progress.
26	P. S. C. 8 seated at Gamdevi Road and Jungle-Mangal Road, Junction. ...	Work in progress.
27	P. S. C. 8 seated at Bhandup Village in Mhatre Plot S. No. 10. ...	Work in progress.
28	8-seated A. P. block, Opp. Cemetery in Mulund. ...	Work Completed.
29	8-seated A. P. block Opp. Cemetery in Mulund. ...	Work Completed.
30	8-seated A. P. block near old barracks in Mulund Colony. ...	Work Completed.
31	8-seated A. P. block near old barracks in Mulund Colony. ...	Work Completed.
32	8-seated A. P. block near Barrack No. 24 in Mulund Colony. ...	Work Completed.
33	8-seated A. P. block near Barrack No. 24 in Mulund Colony. ...	Work Completed.
34	8-seated A. P. block near Block No. 74 Mulund Colony. ...	Work Completed.
35	8-seated A. P. block behind Gurudwara at Bus Terminus, Mulund Colony. ...	Work Completed.
36	8-seated A. P. block behind Gurudwara at Bus Terminus, Mulund Colony. ...	Work Completed.

APPENDIX No. 39—(Concl'd.)

Serial No.	Name of the work.	Remarks.
37	8-seated A. P. block near Jai Bharat High School, Mulund Colony....	... Work Completed.
38	8-seated A. P. block near block No. 33, Mulund Colony. ...	... Work Completed.
39	8 seated A. P. block near Block No. 73, Mulund Colony. ...	... Work Completed.
40	8 seated A. P. block near Block No. 20, in Mulund Colony. ...	... Work in progress.
41	8 seated A. P. block near Block No. 63, Mulund Colony. ...	... Work in progress.
42	8 seated A. P. block near Barrack No. 95, Mulund Colony. ...	... Work in progress.
43	8 seated A. P. block near Barrack No. 45, Mulund Colony. ...	... Naerly Completed.
44	8 seated A. P. block in Sidharth Nagar, Mulund. ...	... Naerly Completed.
45	8 seated A. P. Block in Gavanipada, Mulund. ...	... Work in progress.
46	8 seated A. P. Block in Salpadevipada, Mulund. ...	... Work in progress.
47	8 seated A. P. block at Nahur, Mulund. ...	... Work Completed.
48	Construction of 8 seated P. S. C. in Squatters Colony, Malad (East)	... Work Completed.
49	Construction of 2 seated P. S. C. at Khumbhar Wada, Malad (West).	... Work Completed.
50	Construction of 3 seated P. S. C. Block with Urinals at Panalal Ghosh Road, Malad.	Work Completed.
51	Six seated P. S. C. block at shimpoli, Borivli (West). ...	... Work Completed.
52	12 seated P. S. C. at Kajupada, Borivli (East). ...	... Work Completed.
53	4 seated extension to the existing Acqua Privy at Khajuribhatti. ...	... Work Completed.
54	Work of 4 seated extension to the existing Acqua Privy at Chafegully. ...	... Work Completed.
55	Work of extension to P. S. C. Block at Dr. Ambedkar Chowk and other repairs.	Not Started.
56	Work of 8 seated W. C. and 3 urinals at Masrani Lane. ...	... Work Completed.
57	Construction of 4 seated Urinal Block at Swadeshi Mills Road. ...	... Work Completed.
58	Construction of 8 seated W. C. and 3 Urinals at Smashan Road, Chunabhatti. ...	... Work Completed.
59	Construction of 8 seated W. C. and 3 Urinals at Bail Bazar Garden. ...	... Work Completed.
60	Construction of 4 seated Urinal Block at the Junction of Lalbahadur Shastri Marg, Premier Road. ...	... Not Started.
61	Work of 2 seated extension at Jamatkhana. ...	... Not Started.
62	Work of 3 Urinal at Lalbahadur Shastri Marg. ...	... Not Started.
63	Work of 3 Urinal Block near Safed Pul. ...	... Not Started.
64	Work of proposed extension to the existing P. S. C. at Sainath Chowk. ...	... Not Started.
65	Work of 3 Urinal Block at Saki Naka. ...	... Not Started.

APPENDIX No. 40

Statement showing the roads on which the regular lines under Section 297 (1) (a) and 297 (i) (b) were prescribed during the period from April 1970 to March 1971 in Subs. and Extd. Subs.

Seri No.	Name of the Road.	Plan No.	Proposed width.	Ward.	Remarks.
1	Aarey Road from S. V. Road to Western Express Highway (Goregaon) ...	E. E. T. C. 74 3-4-1970.	17.10	P	Sanctioned 14-4-1970.
2	Mankhurd Station Road at Mankhurd ...	E. E. T. C. (Sub) 76 of 24-8-1970.	24.40	M	Sanctioned 28-7-1970.
3	Widening of the corners at the junction of Dadi Sheth Rd. and School Road at Malad	E. E. T. C. (Sub) 77 of 24-6-1970.	...	P	Sanctioned 17-9-1970.
4	Tural Pakhadi Road from Liberty garden Rd. No. 1, to Jackeria Road, Malad ...	E. E. T. C. (Sub) 78 of 24-6-1970.	9.10	P	Sanctioned 28-7-1970.
5	Swami Vivekanand Road from 'K' Ward Limit to Irla Gaothan Road Andheri (Sheet-1) ...	E. E. T. C. (Sub) 79 of 24-6-1970.	27.40	K	Sanctioned 20-10-1970
6	Swami Vivekanand Road from Irla Gaothan Rd. to Ceasar Road (Sheet-2) ...	E. E. T. C. (Sub) 79A of 24-4-1970.	27.40	K	Sanctioned 20-10-1970.
7	Lokmanya Tilak Road from Chandavarkar Road Extn. to Ram Mandir Road at Borivli ...	E. E. T. C. (Sub) 80 of 24-6-1970.	13.40	R	Sanctioned 28-7-1970.
8	Caves Road, from Ismaili College to Eastern Express Highway at Jogeshwari ...	E. E. T. C. (Sub) 81 of 24-6-1970	18.30	K	Sanctioned 17-9-1970.
9	Swami Vivekanand Road from Ceasar Road to Ajit Glass Work at Oshivara (Sheet-1)	E. E. T. C. (Sub) 82 of 28-8-1970.	27.40	K	Sanctioned 10-12-1970.
10	Widening of Oshivra Bridge at Jogeshwari Sheet-2 ...	E. E. T. C. 82 28-8-1970.	27.40	K	Sanctioned 10-12-1970.
11	Swami Vivekanand Road from Ram Mandir Road to Goregaon Station Road ...	E. E. T. C. (Sub) 82B, 28-8-1970.	27.40	K	Sanctioned 10-12-1970.
12	Donar Village Rd. ...	E. E. T. C. (Sub) 83, 28-8-1970.	18.30	M	Sent for sanction of the Corporation.
13	Dashrathlal Joshi Road at Vile Parle ...	E. E. T. C. (Sub) 84, 28-10-1970	18-30	K	Sent for sanction of the Corporation on 12-2-1971.
14	Mahatma Gandhi Road from Lal Bahadur Shastri Marg to Ghatkopar Mahul Road	E. E. T. C. (Sub) 86, 3-12-1970.	18.30	M MCP 144. 27-2-1971.	Sent for sanction of the Corporation on 27-2-71.
15	Malad Marve Road at Malad (Sheet-1) ...	E. E. T. C. (Sub) 87, 8-12-1970.	27.40	P	Sent for sanction of the Corporation on 3-2-71.
16	Malad Marve Road at Malad (Sheet-2) ...	L. E. T. C. (Sub) 87A, 8-12-1970	27.40 MCP/199,	P 3-2-1971.	Sent for sanction of the Corporation on 3-2-71.
17	Malad Marve Road at Malad (Sheet-3) ...	E. E. T. C. (Sub) 87B, 8-12-1970	27.40	P	Sent for sanction of the Corporation on 3-2-71.
18	Dr. Rajendra Prasad Road at Mulund ...	E. E. T. C. (Sub) 88, 4-2-1971.	13.40	T	Sanctioned 17-2-1971
19	Widening of road near Municipal Market at Kurla ...	E. E. C. T. (Sub) 89, 4-2 1971.	18.30	L	Sent for sanction of the Corporation on 26 3 71
20	Aarey Road from Swami Vivekanand Rd. to Western Express Highway ...	E.E. T. C. (Sub) 90, 19-2-1971.	18.30	P	Sent for sanction of the Corporation on 13-3-1971.
21	Datta Mandir Road at Malad	E. E. T. C. (Sub) 91, 23-3-1971.	18-30	P	

APPENDIX No. 41

Statement showing the number of tenements constructed by private parties during the year 1970-71.

Ward.	No. of one room tenement.	No. of one room tenements.	No. of larger tenements usually known as blocks	Total
'H'	110	337	1288	1735
'K'	326	925	1400	2651
'P'	197	498	606	1301
'R'	752	495	413	1660
'L'	27	90	32	149
'M'	108	170	130	408
'N'	8	326	101	435
'T'	12	18	125	155

APPENDIX No. 42.

Sewage Pumping stations in suburbs Statistical Information (year 1970-71)

Serial No.	Name of the Pumping Station	Installed capacity in Litres Sec.	Average of minimum level during the year in Meters	Average of average level during the year in Meters	Total sewage qty. pumped during the year in million liters	Average sewage qty. pumped per day in million litres	Electrical energy consumed during the year in K. W.H.	Cost of electrical energy consumed during the year in Rs.	Cost of operative staff during the year in Rs.	Cost of repairs and maint. during the year in Rs.	Cost of overhead charges during the year in Rs.	Total cost during the year 9+10+11+12 Rs.	Cost of million litres of sewage pumped Rs.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Khar	832	1.3	3.0	7,562	20.70	4,57,741	49,064	29,319	9,215	9,167	96,765	12.8
2	Bunderwadi	351	1.4	2.8	3,712	10.17	2,77,387	31,862	30,135	7,775	7,101	76,873	20.7
3	Jaibharat	234	0.8	2.78	2,191	6.0	1,01,660	19,584	29,319	5,180	7,073	61,156	27.91
4	Chimbei	78	0.85	2.5	639	1.75	29,409	4,093	29,319	3,380	6,886	43,678	68.85
5	Versova	1,248	3.5	4.2	22,045	60.4	7,18,560	74,700	25,232	20,593	9,645	1,30,170	5.9
6	Kurla	442	0.6	1.8	3,836	10.65	1,64,494	26,465	23,399	5,168	4,041	59,073	15.23
7	Chatkopar	871	1.8	3.7	14,439	39.55	8,49,360	1,01,432	23,999	5,853	6,448	1,37,132	9.49
8	Vikhroli	78	1.0	1.9	90	0.7	3,306	912	12,951	3,907	3,141	26,101	287

ESTATES & LAND MANAGEMENT DEPARTMENT

I—CHANGES IN LAYOUT

There were no changes in the Lay-outs 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 I.

The undeveloped land at present with the Corporation is approximately 494 acres which covers the land at Dharavi Scheme 56.

B—Municipal Section

1 Plot in Municipal Scheme has been disposed of in the year 1970-71 as shown in Appendix 3A.

The statement below indicates the progress of the disposal of the Municipal land during the previous 3 Years.

Year	No. of Plots	Area in sq. meters.	Capital value.	
			Rs.	P.
1967-68	4	25,716.02	4,37,000.00	
1968-69	1	232.26	2,784.00	
1969-70	2	2,244.46	3,91,354.00	

The total area of 3,182.30 sq. metres though available for disposal in Municipal laid out scheme as on 1-4-1971 the same cannot be disposed of as it is required for Municipal purpose.

III—SLUM CLEARANCE

* The following New tenements were completed during the year under Report—

1. 45 Tenements & 12 shops at M/Irea Kamathipura stable street.
2. 30 Tenements Peru chawl Lalbaug Gas work Lane.

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—DISHOUSING AND REHOUSING

New residential accommodation made available by the lessees of the ex-Trust during the year was 254 (Appendix 13 column No. 18) tenements. The total number of tenements provided upto date in all the Trust Estates including these erected by the Development Deptt. and the several mill companies exceeded the total number of tenements demolished by 47,063 (Appendix 13 Column No. 25).

VI—NEW HOUSING SCHEMES

The following new tenements were completed during the year under report:—

- (i). 30 tenements at Peru chwal Lalbaug Gas work Lane.
- (ii). 45 tenements & 12 shops at M./I area Kamathipura stable street.
- (iii). 23 T. at Abdul Gafar Khan Road.

2. New residential accommodation made available in the houses erected by lessees during the year was 254

3. Housing of Squatters: The number of squatters families residing at Mankhurd and Jogeshwari Colonies was 2,315 and 1,954 respectively.

The recoveries of rent in both the colonies were Rs. 26,770 and Rs. 61,081 during the year against the demand including the arrears of Rs. 12,84,675 and Rs. 5,99,269 respectively.

4. The recoveries of rents of the dormitory at palton Road amounted to Rs. 47,679 during the year.

VII—DISPOSAL OF LANDS

LONG LEASES

One Plot was let out during the year. The total area of the land thus disposed of admeasures 705.13 sq. metres valued at Rs. 31625/-. The total number of plots disposed of upto the end of 1970-71 was 4344 with an area of 5236519.77 sq. metres and valued at Rs. 13,52,73,812/- yielding an annual ground rent of 53,57,873/-. In respect of Plots for which premium or commutation amounts had not been received, the rate at which the ground 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 plots 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 C. R. 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 1943), but now commutation is being discouraged. The rate of ground rent is charged at 7% (vide C. R. No. 557 dated the 20th September 1962) from the July 1962, and commutation is stopped.

The progress in the disposal of Trust lands on permanent basis the year is shown in Appendix No. 2.

The details of lease hold plots disposed of are shown in Appendix 3.

The amount received by way of commutation of ground rent and premium etc. during the year was Rs. 6,73,667.

The amount received by way of commutation of ground rent and premium during the year 1967-68 to 1970-71 are shown in Appendix No. 10.

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 No. 4.

As can be seen in the said appendix vide item No. 8 a percentage of 30.65 arrears could be attributed mostly to the usual tendency on the part of the new building tenants 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 break of Rs. 1,07,416 of 'A' Budget shown in Appendix No. 7 and of Rs. 19,77,945 of 'B' Budget shown in appendix No. 6 can be classified as under :—

(1) Ground rents withheld by lessees to the extent of their security deposits.	Rs. 1,47,227
(2) Ground rents in respect of plots occupied by Government of Maharashtra and Defence Department.	38,664
(3) Ground rent in respect of properties vested in the Deputy Custodian of Evacuee Property.	10,312
(4) Ground rent in respect of Plots against which disputes have been raised and their cases are under Consideration.	5,02,742
(5) Ground rent due from Western and Central Railways.	40,963
(6) Ground rent due from Municipal Departments.	29,843
TOTAL :	<u>7,69,751</u>

(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 was 5,130 and 911 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. 10,03,275 and Rs. 6,05,433 and the recovery was Rs. 10,50,195 and Rs. 6,44,815 respectively inclusive of arrears.

VIII—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. 34,55,39 on 31st March 1971 as against Rs. 24,44,749.

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. 28,14,871 deducting therefrom the charges on account of outgoings amounting to Rs. 33,31,223 net loss comes to Rs. 5,16,352

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 12). After adding the amount of net loss into the amount of interest and sinking fund charges the accounts for the chawls show a loss of about Rs. 15,24,944 as shown in the said Appendix column No. 11.

(b) *Semi permanent sheds.*—The gross demand in respect of 7,483 rooms in the Semi Permanent Sheds including Labour Camps for the year was Rs. 13,82,054. The net demand after excluding the concessional rent and vacancies was Rs. 18,68,156. The revenue actually collected comes to Rs. 19,77,746 which was equivalent to 78.74 per cent. of the total recoverable rent including arrears of Rs. 25,11,716 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 outgoings in respect of the chawls and semi-permanent sheds are shown in Appendix 5 on the basis of annual rental of Rs. 32,22,072 for chawls and Rs. 16,68,156 for semi-permanent sheds total outgoings being 103.38 per cent. and 102.25 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 from slum clearance was Rs. 20,91,808 (Appendix 6A) against the demand of Rs. 33,72,934 inclusive of arrears. The tenements constructed under slum clearance (City and Suburbs) are shown in Appendix No. 14.

Acquired properties.—At the commencement of the year there were 424 acquired or surrendered buildings in charge of this department containing 5,926 tenancies. At the close of the year, corresponding figures were 426 Bldgs. and 6,353 tenements.

The gross demand of 6,353 tenements in the acquired and re-entered buildings was Rs. 12,48,746. After excluding the amount for concession in rent and vacancies the net demand for the year was Rs. 12,41,482.

The revenue actually collected amounted to Rs. 13,66,724 which was equal to 74.01 per cent. of the total recoverable amount including arrears of Rs. 18,45,621 for the previous year.

Summary of revenue.—The total collection of revenue from permanent lessees, short leases, monthly tenancies and slum clearance properties can be seen from Appendix No. 6 and Appendix No. 6-A.

Requisitioned Buildings.—The management and collection of rent in respect of 17 properties having 416 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. 1,79,705 and the recovery was Rs. 75,863 which was equal to 42.22 per cent. of the total recoverable amount.

During the year under review, the demand and recovery of taxes aggregated to Rs. 72,690 and Rs. 1,09,937 respectively. The arrears due for collection at the close of the year stand at Rs. 6,02,994.

B.—MUNICIPAL SECTION

Details of the total collection of revenue in respect of Municipal properties under Budget 'A' are shown in Appendix No. 7.

Tenements constructed under Budget 'A' for Municipal General staff are shown in Appendix No. 9.

K. U. Mehta,
Ward Officer (Estates).

APPENDIX No. 1

Statement showing the total areas of developed lands in the Ex-Trust Estates.

Change in	As at the beginning of 1970-71	As at the end of 1970-71
	Square metres in thousands	square metres in thousands
DEVELOPED LAND		
Area permanently leased	5006.08	5006.78
Area of Trust Chawls Sites	158.86	158.86
Area Sold	7.53	7.53
Area reserved for a Municipal Markets	1.67	0.97
	5174.14	5174.14
Rent of permanently leased area (in rupees in thousands)	4752.01	4754.31

APPENDIX No. 2

Statement showing the disposal of Ex-Trust Lands during 1970-71.

Particulars	No. of plots	Area in sq. metres	Capital value	Annual rent
			Rs.	Rs.
Plots leased on—				
On Rental basis	1	705.13	31,625.00	2,214.00
Plots disposed of in 1970-71 or earlier but surrendered to the Municipality				
Corresponding figures for—				
1969-70	Nil	Nil	Nil	Nil
1968-69	Nil	Nil	Nil	Nil
1967-68	Nil	Nil	Nil	Nil

APPENDIX No. 3

Number of plots disposed of in the different Ex-Trust Estates, during 1970-71

Estate	Plots No.	Area in sq. metres	Capital value	Annual Ground rent	Premium received if any	Remarks.
			Rs.	Rs.	Rs.	
Sewri Wadala (South) Scheme 57	71 (part) II (a) part	705.13	31,625	2,214	...	...

APPENDIX No. 3-A.

Number of plots disposed of in different Municipal Land in the City during 1970-71.

LAND.	C. S. No.	Area in sq. metres.	Capital value.	Annual ground rent.	Value paid if any	Remarks
			Rs.	Rs.	Rs.	
Land at Tardeo Division	1/334 (part)	222.96	...	1	Nil	...
		222.96	...	1	Nil	...

APPENDIX No. 4

Comparative statement of demand, Collection etc. in respect of permanently leased plots.

Particulars.	1968	1969	1970	1971
(1) Number of Tenancies	3,694	3,710	3,721	37.39
(2) Opening balance of arrears in lacs of rupees ...	15.39	20.81	26.03	20.13
(3) Demand for the year in Lacs of rupees	43.44	44.40	43.35	44.37
(4) Total demand including arrears in lacs of rupees ...	58.83	65.21	69.38	64.50
(5) Amount collected in lacs of rupees	39.46	42.81	46.12	47.74
(6) Percentage of collection to the demand including arrears	67.07	65.65	66.48	74.02
(7) Percentage of collection to the demand for the year.	90.83	96.42	106.40	107.60
(8) Percentage of arrears to amount for collection ...	35.37	34.35	33.52	30.65

APPENDIX No. 5

Statement of percentages of outgoings in respect of chawls and S.P. Sheds.

Particulars	Permanent chawls		Permanent ground floor rooms & S. P. Sheds	
	1969-70	1970-71	1969-70	1970-71
Sanitary Staff	23.22	18.75	23.33	24.88
Pumpmen	7.50	7.50	7.50	7.50
Cost of Management & Establishment ...	28.91	24.20	33.23	33.68
Municipal Rates and Taxes	64.14	60.43	43.11	36.19
Repairs and Maintenance including lighting ...	...	...	...	...
Vacancies ... ..	...	...	...	...
Total	123.77	103.38	107.16	102.25

APPENDIX No. 6.

Summary of Revenue of 'B' Budget properties for 1970-71.

Particulars	Collection of Revenue		
	Permanent	Temporary	Total
Demand for the year	Rs. 44,37,712	Rs. 75,14,768	Rs. 1,19,52,480
Arrears	20,13,527	62,79,503	82,93,030
Total	64,51,239	1,37,94,271	2,02,45,510
Amount collected	47,74,979	72,78,542	1,20,53,521
Variations in demand for the previous year carried during the year	+ 3,19,784 - 18,098	+ 9,09,383 - 4,78,179	+ 12,29,167 - 4,96,277
Amount written off under S.C.R. Nos. ... ..	...	16,658	16,658
Arrears as on 1st April 1971	19,77,946	69,30,275	89,08,221
Arrears as on 1st April 1970	20,13,527	62,79,503	82,93,030
Arrears as on 1st April 1969	26,03,445	65,74,072	91,77,517

Note.—Figures in appendix No. 6 are subject to reconciliation.

APPENDIX No. 6-A.

Summary of revenue of 'B' Budget properties under Slum Clearance for 1970-71.

Particulars.	Collection of Revenue		
	City	Suburbs	Total
Demand for the year	Rs. 15,16,832	Rs. 5,02,815	Rs. 20,19,647
Arrears	5,98,135	4,55,153	10,53,287
Total	21,14,967	9,57,968	30,72,934
Amount collected	15,60,396	5,31,412	20,91,808
Variation in demand for the previous year carried out during the year.	+ 24,632 - 12,925	+ 3,94,654 - 64,949	+ 4,19,285 - 77,874
Arrears as on 1st April 1971	5,66,278	7,56,261	13,22,537
Arrears as on 1st April 1970	5,98,135	4,55,152	10,53,287
Arrears as on 1st April 1969	5,15,760	3,05,382	8,21,142

Note.—Figures in Appendix No. 6A are subject to reconciliation.

APPENDIX No. 7.

Summary of Revenue of 'A' Budget Properties for 1970-71.

Particulars.	Collection of Revenue		
	Permanent	Temporary	Total
	Rs.	Rs.	Rs.
Demand for the year	2,42,088	33,11,150	35,53,238
Arrears	1,65,091	15,17,332	16,82,423
Total ...	4,07,179	48,28,482	52,35,661
Amount collected	3,01,190	31,74,368	34,75,558
Variation in demand for the previous year carried during the year	+ 1,428	+2,92,692	+2,94,120
	- ...	- 58,842	- 58,842
Arrears as on 1st April 1971	1,07,417	18,87,964	19,95,381
Arrears as on 1st April 1970	1,65,091	15,17,332	16,82,423
Arrears as on 1st April 1969	1,01,040	16,49,835	17,50,875

Note.—Figures in appendix No. 7 are subject to reconciliation.

APPENDIX No. 8

Statement of Permissions granted in respect of leased plots for 1970-71 :—

Description	No. of Proposals	Premium	Ground Rent
		Rs.	Rs.
Motor Garages	31	1,334	4,722
Additional Floors	23	945	7,313
Change of Users and Miscellaneous proposals such as encroachments, Basement floors, Canopies, temporary structures, Gallery projections, Rewas projections, opla projections, lofts, etc. ... }	108	25,376	17,318
Fines ... ..	...	8,150	...
Transfer fees ... ..	...	1,450	...

APPENDIX No. 9

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	Remarks	
					Maximum	Minimum			
					Rs.	Rs.			
	CITY								
					(Subsidised rent at Rs. 12 per 100 sq. feet.)				
1	Gilder Lane Tenements Bombay Central.	1958	4	144 (64)* (80)	54.79 } 38.24 }	38.79 } 27.24 }	93.59 } 65.30 }	As per new formula rent to be charged at 10% of total emoluments on std. Rent which ever is less if the allotment is made after 1-4-67.	
2	Elphinstone Road Tenements. Parel.	1958	3	72	25.81	19.70	41.86		
3	Surya Cinema Tenements. Naigaum	1958	2	48	25.81	19.70	41.96		
4	Chinchpokli Tenements Arthur Road.	1959	2	32	33.13 } 31.15 } 35.04 } 32.94 }	26.82	53.73		
5	Maratha Hospital Com- pound, Byculla.	1959	4	64	34.84 } 36.64 }	26.70 } 26.70 }	52.61		
6	Worli Tenements Dr. Annie Beasant Road.	1961	7	112	33.72 } 33.08 } 35.44 } 34.82 }	26.82	66.94 } 66.94 } 72.19 } 70.55 }		
7	40 Tenements Maratha Hospital Compound ...	1965	2	40	32.95 } 32.51 } 33.88 } 34.75 }	...	72.90 } 71.95 } 74.95 } 76.85 }		
8	Maratha Hospital Com- pound, Byculla. ...	1962	2	16 8 @	41.24 } 38.15 } 63.23 }	...	71.19 } 65.19 } 114.08 }		
9	88 Tenements near Wadala Rly. Station. ...	1966	3	88 +22	23.73	23.73	136.08 } 57.00 }		(Shops) (Rooms)
	SUBURBS.								
1	Khar Tenements Hasanabad Lane.	1961	5	60	37.09 } 40.16 }	...	71.80		
2	18 Tenements at Khar ...	1968	18			...	90.50		

* Three room tenements. Rest are two room tenements.

@ Four room tenements.

APPENDIX No. 10 Capital Account. Figures in Lakhs.

Particulars	1967-68		1968-69		1969-70		1970-71	
	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
RECEIPT.								
Loan	50.00	2,303.56	75.00	2,378.56	...	2,378.56	...	2,378.56
Discount or Premium	...	-15.01	...	-15.01	...	-15.50	...	-15.01
Sale Proceeds	4.06	802.60	4.89	807.49	3.00	810.49	21.86	832.35
Appropriation from General Account	20.67	-227.56	22.95	-204.61	18.87	-185.74	44.56	-141.18
Special contribution from Government...	...	59.00	...	59.00	...	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	54.06	3,998.07	102.84	3,100.91	21.87	3122.78	66.42	3,181.42
EXPENDITURE								
<i>I.—On Govt. and Municipal Property</i>								
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
<i>II.—On the Trust own acquired lands—</i>								
Cost of Management and Estab.	54.67	324.65	4.95	329.60	4.33	333.93	104.00	334.97
Acquisition of land	-7.22	1,052.30	0.40	1,052.70	1.95	1,054.66	...	1,054.66
Chawls	38.12	505.39	47.52	552.91	21.92	574.83	10.80	585.63
Roads	17.08	685.79	15.36	701.15	5.65	706.80	4.53	711.33
Other works	0.09	91.07	...	91.07	..	91.07	0.78	9.85
Mill companies chawls	...	7.70	...	7.70	...	7.50	...	7.70
Total	97.18	2,660.90	68.23	2,735.13	33.86	2,768.99	17.15	2,785.14
<i>III.—Miscellaneous—</i>								
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
<i>IV.—Disposal of Profits</i>								
...
<i>V.—Debentures lodged with Govt.</i>								
...	...	42.60	...	42.60	...	42.60	...	...
<i>VI.—Repayment of Loan</i>								
...	26.35	599.07	41.47	640.56	97.42	737.98	89.10	827.08
Total	97.18	2,936.67	68.23	3,064.90	33.86	3,098.76	106.25	3,756.02
Balance	43.12	1.40	34.61	36.10	11.99	14.70	-39.83	-574.60

APPENDIX No. 11

Analysis of General Account

(Figures in columns 2 to 12 shown in lakhs)

Year.	RECEIPTS						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	...	...	...	0.1	1.8	
1899-1900	0.7	...	...	0.8	...	1.5	0.2	0.2	...	...	0.4	1.1	
1900-1901	0.9	4.8	...	1.6	...	7.3	0.3	0.2	2.2	...	2.7	4.6	
1901-1902	1.2	4.8	...	1.5	...	7.5	0.4	0.2	2.5	...	3.1	4.4	
1902-1903	1.4	5.0	...	3.3	...	9.9	0.4	0.2	4.1	...	4.7	5.2	
1903-1904	2.6	3.5	...	2.3	...	8.4	0.4	0.4	5.7	0.1	6.6	1.8	
1904-1905	5.8	2.0	...	2.7	...	10.5	0.7	0.9	8.1	0.1	9.8	0.7	
1905-1906	9.7	2.5	...	1.9	...	14.1	1.4	1.3	10.1	0.1	12.9	1.2	
1906-1907	8.5	3.0	...	2.1	0.1	13.7	1.9	1.1	11.2	0.1	14.3	-0.6	
1907-1908	8.1	3.6	...	2.4	0.1	14.2	2.2	1.0	12.1	0.1	15.4	-1.2	
1908-1909	9.4	4.5	...	1.2	0.1	15.2	2.5	0.8	13.0	0.1	16.4	-1.2	
1909-1910	11.4	7.8	...	1.5	0.2	20.9	*3.3	1.0	16.0	0.1	20.4	0.5	
1910-1911	14.4	8.9	...	1.5	0.1	24.9	*3.1	1.0	19.1	0.1	23.3	1.6	
1911-1912	16.6	8.6	...	2.2	0.1	27.5	*3.0	1.3	20.2	0.1	24.6	2.9	
1912-1913	18.0	9.2	...	2.0	...	29.2	*2.7	1.0	20.5	0.1	24.3	4.9	
1913-1914	20.9	9.3	...	2.0	...	32.7	*2.4	1.2	21.4	0.3	25.3	7.4	
1914-1915	23.0	9.8	...	1.5	0.1	34.4	2.7	1.5	22.4	0.3	26.9	7.5	
1915-1916	24.8	10.2	...	1.5	...	36.5	2.9	1.6	23.8	0.3	28.6	7.9	
1916-1917	27.2	11.0	...	2.5	0.1	40.8	3.1	1.7	25.8	0.2	30.8	10.0	
1917-1918	29.8	11.0	...	2.9	0.1	43.8	3.6	1.7	25.6	0.2	31.1	12.7	
1918-1919	33.2	11.5	...	2.0	0.1	46.8	3.6	2.0	25.2	0.2	31.0	15.8	
1919-1920	35.7	15.2	...	1.7	0.2	52.8	3.7	2.2	24.1	0.6	30.6	22.2	
1920-1921	37.5	15.7	...	5.4	0.5	59.1	4.0	2.4	29.4	1.0	36.8	22.3	
1921-1922	43.4	15.8	...	5.4	0.4	65.0	6.4	2.9	52.6	0.6	62.5	2.5	
1922-1923	45.0	17.9	...	4.9	0.1	67.9	7.9	3.5	64.1	-0.5	75.0	-7.1	
1923-1924	44.2	19.1	...	7.6	0.2	71.1	9.6	3.2	74.2	0.6	87.6	-16.5	
1924-1925	50.5	20.2	...	6.4	0.4	77.5	9.0	4.4	80.6	0.6	94.6	-17.1	
1925-1926	48.7	22.3	...	6.8	0.2	78.0	8.6	3.4	93.7	0.2	105.9	-27.9	
1926-1927	49.5	22.4	...	7.2	3.2	82.3	9.6	3.6	90.5	-0.3	103.4	-21.1	
1927-1928	48.5	23.1	...	6.3	2.3	80.2	11.3	3.8	90.2	...	105.3	-25.1	
1928-1929	47.6	23.0	...	3.8	1.0	75.4	10.6	2.7	90.4	...	103.7	-28.3	
1929-1930	51.0	22.9	...	2.7	0.1	76.7	10.2	2.9	89.3	...	102.4	-25.7	
1930-1931	50.2	23.1	...	2.7	0.2	76.2	10.2	3.4	92.1	...	105.7	-29.5	

Rent received in 1898-99 was mainly rent under Schedule ' Z '.

*Includes interest paid to Government and the Municipality under Section 68 (1) of the old Act as shown below :-

Year.	Government. Rs.	Municipality. Rs.	Total. 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	...	108.1	-33.6
1932-1933	49.3	23.5	7.4	1.1	0.1	81.4	11.8	3.0	96.5	...	111.3	-29.9
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	-4.63
1956-1957	61.68	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	-0.09
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	83.69	...	136.73	+1.18
1963-1964	84.20	56.36	...	3.76	0.59	144.91	57.04	8.47	87.98	...	163.49	-18.58
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	200.25	98.74	21.04	101.14	...	220.92	-20.67
1968-1969	106.13	101.08	9.60	(D.R.) 0.05	1.02	217.78	79.09	14.03	101.71	...	194.83	+22.95
1969-1970	122.79	121.78	0.39	3.35	3.63	251.94	107.82	17.13	106.12	...	233.07	+18.87
1970-1971 *	124.37	183.17	...	1.63	7.24	316.43	149.26	20.36	102.25	...	271.87	+44.56
Total to the end of 1970-1971	3596.13	2301.07	293.06	245.65	41.86	6484.99	693.38	356.14	4535.37	27.33	6617.29	-300.42

Particulars of Municipal (Improvements) Chawls Cost, Net Annual Returns

Serial No.	Name of the Chawl.	Year in which the site of chawls appropriated of 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 ½ per cent. for management and establishment	Cost of work value of the and management and establishment charges columns 6 and 7	Interest and Sinking Fund charges on Capital outlay at 4 ½ per cent. on column 8 up to 1919 and thereafter at 6.35 per cent.	Gross annual rent
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	1-4 Agripada A Chawls	1900	Sq. Metre 6091.21	Rs. 8	Rs. 50,995	Rs. 1,85,505	Rs. 2,36,500	Rs. 10,903	Rs. 37,253
	5-16 Agripada B Chawls	1903	9970.85	6	71,550	5,41,639	6,13,189	28,269	49,208
3	38-40 } Agripada C Chawl 45-46 }	1903	5226.65	6	37,506	2,79,182	3,16,688	14,599	95,244
4	19-24 Chandanwadi Chawl	1904	8080.36	15	1,44,960	3,76,915	5,21,875	24,059	1,03,901
5	25-27 } Imamwada A Chawls 29, 30 & 31 }	1905	11239.26	13.8	1,81,467	4,98,562	6,80,029	31,349	1,13,625
6	50 Imamwada B Chawl	1905	793.49	13.8	12,811	19,368	32,179	1,483	
7	33-37 Mandvi-Koliwada Chawls	1908	3485.83	75	3,12,675	2,76,040	5,88,715	27,140	93,871
8	52 Workmen's Cottages Matunga	1905	789.31	5	4,720	12,083	16,803	774	1,805
9	17-18 Nagpada A Chawls	1903	2148.02	7	17,983	82,358	1,00,341	4,676	16,604
10	39 Nagpada A Chawl	1904	1755.04	7	14,693	95,776	1,14,469	5,277	14,434
11	28 Princess Street Chawls	1907	1237.47	30	44,400	42,417	86,812	4,002	9,948
12	42-44 } 47-49 } Suparibaug Chawls	1910	6756.77	4.8	36,364	3,39,878	3,76,242	17,345	58,619
13	52-57 Chinch Bunder Chawls	1913	7103.76	26.66(d)	2,26,560(a)	3,79,622	6,06,182	27,945	86,241
14	86-95 Cottage Blocks (old)	1920	2324.44	10	27,800	36,069	63,869	4,056	4,670
15	58-61 Clerk Road Chawls	1921	3495.86	15	62,715	4,39,814	5,02,529	31,911	46,526
16	62 Pais Street Chawls	1921	2858.73	15	51,285	1,70,863	2,22,148	14,106	19,638
17	63-66 Mominpura Chawl (Old)	1921	6488.37	15	1,16,400	4,31,655	5,48,055	34,801	41,949
18	67-72 Three room tenements Scheme 5	1922	4689.85	6	33,654	2,64,717	2,98,371	18,946	20,772
19	73-78 Two room tenements, Scheme 6	1922	3540.17	6	25,404	2,91,972	3,17,376	20,153	25,561
22	79-85 Cottage Blocks (new)	1922	6528.50	6	46,848	69,312	1,16,160	7,376	4,171
21	Blocks 1-19 Bellasis Road Chawls	1922	29853.19	19	6,78,376	25,75,065	32,53,441	2,06,594	2,33,343
22	1-16 Managan Chawls	1922	24315.50	10	2,90,810	21,77,079	24,67,889	1,56,711	1,71,267
23	1 Mominpura Chawls (N w)	1923	3270.10	20	78,220	3,14,276	3,92,496	24,923	35,299
24	1-23 Love Lane Chawls	1925	11176.50	18.8	2,47,289	11,36,407	13,83,696	87,865	1,33,582
25	1-10 Sydenham Road Chawls	1925	10698.28	16	2,04,720	7,78,071	9,82,791	62,407	86,705
26	1-2 Palton Road Chawls	1940	2721.60	25	81,375	2,32,503	3,13,878	19,931	66,033
27	3 Palton Road Chawls	1952	9551.86	50	92,777	3,48,544	4,41,321	28,024	
28	A-J S wri Chawls	1955	5554.41	25	1,66,075	5,06,514	6,72,589	28,120	60,843
29	Naigam Chawls	1957	3362.08	40	160,840	5,59,481	7,20,321	29,110	36,906
30	Sion Chawl	1958	927.27	40	44,360	1,40,842	1,85,202	7,997	14,467
31	Wadala Chawls 112 Tenements	1959	2897.19	40	1,38,640	6,27,252	7,65,899	32,474	58,810
32	Wadala Chawls 272	1960	10058.68	40	4,81,680	15,55,841	20,37,521	86,391	1,36,118
33	Wadala Chawls 144	1961	6765.13	5	4,04,550	8,92,806	12,97,356	55,008	69,325
34	Wadala Chawls 160	1961	6212.45	50	3,71,500	10,13,999	13,85,499	58,745	75,983
35	Wadala Chawls 224	1961	7836.21	50	4,68,600	14,87,658	19,56,258	82,945	77,872
Total			2,65,288		5,43,060	1,91,84,087	2,46,14,689	12,96,415	21,00,595

(a) Rs. 8-0-0 for 8 larger rooms (double) rooms having partition inside A—Includes rooms rent free in 5 Swapers
 (b) Represents looms B—Room used for Office and Stores.
 (c) This figure represents the value of Rs. 40 per sq. yd. of the site situated and measuring 5,664 sq. yds. by 8,496 yds. C—do temporarily occupied by Schools.
 E—do do do. Shops.
 F—do do do. Gymnasium
 G—do do do. Godowns

Calculated at 4.24 per cent.

No.12.

Number of tenements, full letting value and permissible actual population

Annual profit+ or loss— i.e., 10.88 per cent. of column 10-9.	Percentage of rate annual return 10.88 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 31-3-1952 inclusive of increase in taxes.	Economic rent Ex- clusive 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 -14,956	1.71	312 (Verhandab)	3	Sq. ft. 175	R. P 7 49	8 14 0	276	1-B, 5-D & 3 rd -E
-33,632	0.87	558	4	110	10 40	7 10 0	926	20-E
-24,961	3.27	288	4	142	6 45	8 1 0	414	18-E, 1-F
-35,363	2.17	433	4	177	7 49	8 12 0	633	2-D, 9-E
		674	4	125	8 95	10 6 0	846	2-B, 4-C & 5-D
		857	4	135	11 93	9-13, 10-1 10-5	30	...
-45,194	1.74	30	4	160	8 31	Rs. 9-13	222	10-E, 26-G
		276	4	176	8 96	10-1, 10-5	...	...
-37,353	1.73	15	1	120	8 31	17 5 0	144	...
-970	1.17	144	4	148	8 96	12 7 0	144	...
-6 48	1.80	144	4	160	10 85	9 10 0	144	...
-6,847	1.37	64	4	136	12 98	9 0 0	64	...
-5,084	1.25	481	4	176	9 36	14 2 0	479	1-B 1-F
		405	2	176	10 34	9 4 0	372	33-G
-33,722	1.69	14	1	275	7 76	13 6 0	...	...
-37,328	1.55	325	4	176	9 30	38 0 0	320	4-E 1-F 3-E
-4,564	0.80	134	4	175	10 09	13 12 0	131	6-D
-36,973	1.01	246 (b) 160	4	175	24 81	15 13 0	241	...
-16,242	0.96	36	4	562	28 80	13 8 0	...	...
-39,365	0.83	72	3	338	9 62	Rs. 55, 60 & 65	...	...
-21,205	0.76	10	3	325	10 66	Rs. 35, 33, 32	...	...
-22,934	0.88	1,549	3	176	12 83	35	1,513	20-C 7-D & 9-E
-7,829	0.39	1,305	3	176	9 36	Rs. 16-5, 18-6, 17-14	1,263	36-C, 4-D & 2-E 7-E
-2,31,981	0.78	234	4	176	12 30	Rs. 15-6, 15-14	227	...
-1,75,344	0.76	...	...	176	9 36	13 8 0	792	6-D, 22-E, & 1-F
-28,763	0.98	821	4	176	11 24	Rs. 15-9, 16-1, 16-9, 17-1, 17-9	387	1-B, 1-C, 1-D & 1-E
-1,02,398	1.05	391	4	176	9 46	Rs. 15-7, 16, 16-8, 32, 33, 35	125	24-E 7-C
-71,840	0.96	156	4	180	10 66	Rs. 15-7, 16, 16-8	76	4-E, 6 G
-55,139	0.95	86	4	180	11 09	Rs. 35	194	...
-34,739	0.98	194	2	180	26 03	Rs. 36-10	120	...
-33,125	0.56	120	4	190	27 06	Rs. 4-	24	...
-9,571	0.85	24	4	237	22 91	...	...	...
-38,872	0.84	112	4	273	24 20	...	...	...
-1,01,200	0.73	272	4	...	21 86	...	...	...
-62,550	0.58	144	4	...	29 43	...	...	...
-67,011	0.60	160	4	...	50 33	...	...	...
-91,417	0.43	224	4	...	31 50	...	...	...
-15,24,944	37.00	11,626	...	...	47 00	...	...	...

* 5-B, 61-C, 35-D, 180-E, 4-F, 72-G

APPENDIX

Statement showing dishousing and rehousing operations on the Trust

YEAR	NUMBER OF TENEMENTS DEMOLISHED UP TO THE END OF THE YEAR				NUMBER OF TENEMENTS PROVIDED UP-TO							
					MUNICIPAL BUILDINGS.			(1) IN POLICE ACCOMMODATION SCHEMES (2) IN POORER CLASSES ACCOMMODATION SCHEMES (3) BY MILL COMPANIES AND (4) IN B. D. D CHAWLS				
	One room.	Two rooms.	Larger.	Total Col.(2) to (4)	Perma- nent chawls.	S. P. Sheds.	Total Col. (6) and (7).	One room.	Two rooms.	Larger.	Servants quarters.	Total Co. (9) to (12)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1898-99	29,881	5,518	3,671	39,070	11,715	4,310	16,821	18,198	160	349	163	18,870
1962-63	65	...	...	65	35	+876	-80	...	...	...	...	...
1963-64	10	...	...	10	100	-58	-58	...	...	...	...	...
1964-65						+1,376	+1,411	...	...	...	...	...
						38	138					
1965-66	...	...	...	...	...	2	2	160	...	...	...	160
1966-67	...	...	...	...	368	...	368	...	...	...	...	...
1967-68	...	...	...	...	140	600	740	...	...	...	...	...
1968-69	...	...	...	...	160	1,180	1,340	...	...	...	...	...
19 690	...	...	...	...	216	...	216	...	...	...	...	...
1970-71	...	...	...	...	...	...	...	...	...	...	...	...
Total	29,956	5,518	3,671	39,145	12,734	8,324	20,898	18,358	160	349	163	19,030

* Demolished during the year.

No 13

Estates since the commencement of the Trust

THE END OF THE YEAR					NET ADDITION (+) OR REDUCTION (-)						
IN LESSEES' BUILDINGS					One room cols. 8+9+14.	Two rooms cols. 10+15.	Larger Rooms co. 11+16	Servants' quarters cols. 12+17.	Grand Total cols. 19 to 22	In the year cols. 23-5.	To end of the year.
One room.	Two rooms	Larger.	Servants' quarters.	Total cols. 14 to 17							
(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
18,156	10,129	14,392	2,221	44,898	52,095	10,289	15,516	2,384	79,809	41,439	41,439
27	111	218	...	356	-58	111	218	...	1,709	1,644	1,644
1	44	106	...	151	-	+ 1,438	...	...	...	...	...
42	70	159	...	271	+44	+ 70	159	...	273	273	273
...	...	...	...	...	160	...	...	...	160	160	160
...	...	...	...	...	168	...	...	...	368	368	368
...	...	...	...	...	600	140	...	...	740	740	740
33	19	...	217	269	1,373	19	...	217	1,609	1,609	1,609
5	14	341	...	360	221	14	341	...	576	576	576
124	44	86	...	254	124	44	86	...	254	254	254
18,388	10,431	15,302	2,438	46,559	54,843	12,125	16,320	2,601	85,498	47,063	47,063

APPENDIX NO. 14

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	Palton Road Chawl No. 4	1956	1	81	27	31.13	41.88	105.85
2	Hains Road Transit Camp.	1957	18	137	...	24.48		
3	Tank Pakhadi Transit Camp	1958	27	254	...	24.48		
4	Dharavi	1959	...	120	...	27.32		
5	Shopping Block at Haines Road...	1960	1	...	4	29.51		varying from 22.57 to 73.33
6	do. do. Milk Street...	1962	1	...	17			61.53
7	Shopping Block at Tulsiwadi Body-Guard line	1963	1	...	15	...		Varying from 41.57 to 48.68.
8	Shopping Blocks at Water St.	1963	1	...	10	...		Varying from 70 to 87.50
Government Aided Schemes								
1	Haines Road	1959	7	112	...	29.11		54.08
2	Haines Road	1959	5	80	...	29.11		54.84
3	Sukhalaji Street	1960	1	76	...	30.21		
4	Sion, Scheme 6	1960	1	40	...	29.11		
5	Body Guard Lines	1960	6	96	...	29.11		54.41
	Dharavi	1961	5	168	...	29.11		
7	Foras Road	1961	1	42	13	29.11		
8	Rawli Camp	1961	18	288	...	29.11		
9	Bane Compound Arthur Road	1961	6	208	...	29.11		
10	Water Street, Byculla	1961	7	112	...	29.11		
		1962	2	32	...	31.10		
11	Haines Road	1961	2	80	...	29.11		
12	Sion Scheme 6	1962	2	80	...	29.11		
13	Body Guard Lines	1962	8	128	...	29.11		52.00
14	Bapty Road	1963	1	40	...	31.10		
15	Haines Road	1963	6	96	...	31.10		
16	Rawli Camp	1964	14	224	11	31.10		70.00
								135.40
17	Sion Village	1964	1	24	...	31.10		69.36
18	Kamathipura	1964	1	22	...	31.10		Varying from 60.58 to 64.30
								12 Varying from 47.63 to 104.61
19	Do.	1964	1	26	...	31.1		Varying from 75.30 to 85.50
								11 Varying from 35.50 to 156.00
20	Kamathipura MI Area	1965	1	41	11	...		
21	60 t. at Falkland Road	1966	1	60	...			
	8th X Lane	1966	1	60	...			
22	60 t. at Hains Road	1966	1	60	...			
23	Rawli Camp	1967	6	240	...			
24	Rawli Camp	1969	5	132	8	...		
25	Rawli Camp neare Koliwada level crossing Opp. S. S. S. Nagar.	1969	1	32	10	...		
26	Kamathipura M. I area stable street	1970	1	45	12	...		
27	Peru chawl Lalbaug Gas Work Lane	1970	1	30	...	...
Suburbs								
28	Vikroli	1961	16	396	...	29.11		52
29	Do.	1963	12	348	...	31.10		
30	Kherwadi Bandra	1964	17	272	...	...
31	Tenements along Eastern Express Highway Chatkopar	1965	108	1004	...	...
32	60 t. at Bombay Agra Road	1966	3	60	...			
	Ghatkopar	1966	3	60	...			
33	320 t. at Santacruz	1966	20	320	...	31.50		58.80

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 into the Arabian Sea, are located on the main land. The smaller ones the Vehar, 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 Bhiwपुरi

II.—BRIEF HISTORICAL REVIEW OF SOURCE DEVELOPMENT

The first source to be developed was the Vehar Lake in 1860, the supply until then having been drawn only from local wells and tanks. The demand for piped water though initially limited, rose rapidly, necessitating the developments of the Tulsi Lake in 1878. The supply potential of the Vehar Lake was 61.36 m.l.d. (13.5 m.g.d.) and that of the Tulsi Lake 18.18 m.l.g. (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 syphon main of 1,200 mm. (48") diam. wherever 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 increased by about 77 M. L. to 82 M. L. (17 to 18 m.g.d.) this 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 in the syphons. This brought the total capacity of Tansa to about 182 Ml. (40 m.g.d.).

The Tansa completion works consisting of raising the dam by another 1.62 mt. (5.42 ft.) constructing a new outlet well and laying two Nos. 1,800 mm. (72") diam. revetted steel mains by a somewhat different alignment to convey another 327 Ml. (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 Second World War in 1939. After that, shortages developed necessitating the implementation of the Vaitarna-cum-Tansa Scheme in 1948. Just before this automatic shutters were provided on the spillway 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 of shell 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 Miles) was the longest pipe line of such a larger diameter anywhere in the World. The total combined capacity of the Vaitarna and Tansa complex on completion of the augmentation scheme in 1956 was about 909 M.l (200 m.g.d.).

Before the next stage of the development could be financed, it became necessary as a temporary measure to derive 91 Ml. (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 Ml. (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 waters. During recent years, it is being used for supplying to the stables in the Aarey Colony and for growing para-grass 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 Mt. (1820 ft.) and having a height of 82 Mt. (269 Ft.) above the bed of the river. It is built of mass concrete which had been pre-cooled to a 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 spillway section consists of 8 gates each of 12 Mt. (40 ft.) width and 8 Mt. (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 of the reservoir.

Intake Arrangement.—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 openings in the Intake Tower at the levels of 152.40 mts. (500 ft.) and 146.30 mts. (480 ft.) were provided. Thus the total number of additional openings in the Intake Tower are now at levels 158.50 mts., 152.40 mts., 146.30 mts. and 140.20 mts. (520 ft., 500 ft., 480 ft., and 460 ft.) THD so as to enable the water to be drawn from the levels 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 3,150 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 was plugged on 16th July 1970 to take advantage of the higher level of Vaitarna and the plug remained in position till the end of the year under review.

About 81,791 ML. (17,992 m.g.) of water was transferred from storage at Upper Vaitarna Lake and therefore, the levels at the close of the year were comparatively much higher than the usual.

The Vaitarna Head Works are manned by a total staff of 72 persons including a Medical Officer. The power required for domestic use, workshop 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 it over the area through overhead lines aggregating about 4.82 kilometres (3 miles). Besides the Inspection Bungalow and staff quarters, there are also 9 furnished bungalows which are utilised by members of the public visiting the site.

Turbidity levels in Vaitarna Lake.—During the monsoon of 1970, the maximum level of turbidity measured at the lowest intake point was 60 ppm. the values being much lower than those of the previous years because of the stabilizing action of the new dams in the Upper-reach of the river. The turbidity of the surface water touched the maximum value of about 10 ppm.

Transfer of water from Upper Vaitarna.—During the current year, Upper Vaitarna water measuring about 81,791 ML. (17,992 m.g.) was released in the Vaitarna Lake intermittently from 22nd October 1970 to 13th November 1970, 18th November 1970 to 4th December 1970 and from 10th December 1970 to 14th February 1971.

(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 282 metres (9.25 ft.) and 1.22 mts. (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 for drawing water at seven different levels the lowest outlet being 1200 mm. (48") diam. opening at level 114 Mt. (375 ft. THD) re-entering the outlet well which is located about 86 Mts. (250 ft. THD.) away from one end of the outlet well and connected with it by a pipe line down stream 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.

During the year under review a new 900 mm. (36") diam. cross connection was made near Tansa Outlet on the 2,400 mm. (96") diam. Vaitarna main so as to develop Vaitarna head into East and West mains of the source.

From the outlet, the following pipes take off :—

1 No. 2,400 mm. (96") diam. Vaitarna Main.

2 Nos. 1,800 mm. (72") diam. Tansa East and West Steel mains.

1 No. 1,200 mm. (48") diam. main leading into a masonry duct.

The Tansa Head Works are manned by a total staff of 110 persons special furnished Inspection Bungalow commanding a panoramic view of the lake and a pavillion has also been provided for picnickers.

(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 25 metres (82 feet) THD. leading into a feeder channel from which the pumps installed in the Mohone Pump House, on the right bank of the Ulhas River derive their water. There are 8 pumps of 250 HP including two standby units. From this pump house, the water is pumped into a 1,200 mm. (48") diam. pipe line and carried across the Kalu-river on a bridge and terminates at the treatment works at Pogaon. 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 mains system through a second pumping installation at Pogaon, there being 10 pumps of 250 H.P. installed at this place including 4 stand-by units.

Support from Ulhas River.—This plant was put out of commission from 1st October 1970 to 24th October 1970 for the maintenance work such as cleaning of flocculators, painting of the steel structure of the same. The maximum turbidity reached during the monsoon of the current year was 150 ppm. while that of the filtered clear water turbidity was .25 ppm.

The quantity of water pumped from Ulhas River during the year under review was 31,832 Mega Litres (7,002 million gallons) and the quantity of water filtered was 26,755 ML (5,885 million gallons).

(d) **Vehar Head Works.**—The Vehar Head Works consists of 3 earthen dams aggregating the total length of 709 metres (2,326 feet) the maximum dam height being 25.60 metres (84 feet). There is also spillway section in masonry having an Ogee profile and a length of 108 metres (354 feet). The intake is through a tower having 4 bell-mouth openings at different level the lowest one being at level 70.07 metres (230.50 feet) THD. The intake tower is connected to 1,050 mm. (42") diam. pipe line which has been made through a tunnel for a length of 61.38 metres (201.42 feet) to connect it with the 1,800 mm. (72") and 1,200 mm. (48") diam. 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. There is no electric power at the site at present and diesel operated pumps are run for pumping up water for the use of the Inspection Bungalow and gardens. There are in all 5 Inspection Bungalows and gardens at Vehar in addition to numerous pavilions and picnic spots which have been made for the benefit of public, who frequent the place in large number, particularly on holidays. During the year, due to good rains the lake overflowed for six days. The last overflow was in the year 1965.

(e) **Tulsi Head Works.**—The Tulsi Head Works consists of a masonry dam of 192 metres (630 feet) length and 28 metres (92 feet) heights, an earthen dam of 588 metres (1,930 feet) length and a masonry spillway section of 43.28 metres (142 feet) length. The secondary spillway which has its sill above the regular spillway also exists on the masonry dam. The intake is through a tower having bell-mouths at different levels, the lowest outlet normally used being at level 1,125.37 metres (411.33 feet). The intake is connected to the 1,050 mm. (42") diam. pipe line which passes through a tunnel section before it enters the treatment works on the downstream side of the dam. These treatment works consist of a rapid sand filtration plant constructed in 1926 and having a capacity of 18 million litres per day (4 million gallons per day). The Tulsi Head Works are manned by a staff of 23 persons. There is no electric power at the site and the 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 Ghatkopar to Tansa. The masonry dam is, however, approachable by a road recently constructed through the National Park. There is no Inspection Bungalow at Tulsi.

(f) **Powai Head Works.**—Powai Head Works consist of a masonry dam of 198 metres (650 feet) length and 9.14 metres (30 feet) height including a spillway section of 177 metres (580 feet) length. The intake is through a well built intergrally with the dam with opening at levels, the lowest being at 50 metres (165 feet) THD. The staff at the Powai Head Works consists of 57 persons most of whom are malis looking after the Powai Park which is situated adjacent to the dam and which is favourite picnic resort.

(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 mill steel pipelines laid either directly on the ground or on concrete pedestals and welded steel pipes, ring girders and roller supports. The sizes vary from 1,200 mm. (48") diam. to 3,150 mm. (127") diam.

IV.—DESCRIPTION OF SERVICE RESERVOIRS IN DISTRIBUTION SYSTEM

When piped supply was originally brought to Bombay from Vehar, service reservoirs had not been initially provided. Later a service reservoir to store the filtered water treated by slow-sand filters located on the Bhandarwada Hill at Mazagaon was built for the Vehar System. Similarly, as an adjunct to the Tulsi system, slow-sand filters were installed at the Malabar Hill along with a reservoir for storing the filtered water before supplying it to consumers. Both reservoirs were enlarged later on by converting the filters into storage space taking advantage of the general improval in quality of water after the Tansa catchment was exploited. The capacity of the Malabar Hill Reservoir after conversion was 148 millions (32.52 million gallons) and the Bhandarwada Hill Reservoir 79 ml. (17.38 million gallons). The reservoir at the Bhandarwada and Malabar Hills however remained the only two service reservoirs in the system serving Bombay until about 2 decades ago, when the work of building additional reservoirs was undertaken as part of the Master Plan for Distribution of Water Supply in Greater Bombay area prepared in 1956.

The new service reservoirs so far, provided at Worli, Golanji, Pali and Veravali High Level have been brought partially into use, and the one at Trombay is being utilised occasionally during system break-downs. The reservoirs at Ghatkopar and Powai Low Level are ready, but not yet being utilised and the ones at Bhandup and Powai High Level are yet under construction. In the case of Rawli Hill Reservoir, some doubt has arisen about the stability of the foundation and the matter is being investigated, before undertaking the work.

The two of the reservoirs envisaged under the Upper Vaitarna Augmentation phase of development, viz., the ones at Borivali and Bhandup have also in the meantime been taken up for construction.

V.—DISTRIBUTION OF SUPPLY

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, rewashing 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.—A new control room, established at Babula Tank, in place of the existing one, and equipped for the entire Greater Bombay, Water Works continued to be in charge of a engineer designated as Assistant Engineer, Water Works Distribution and Control. He is responsible in all matters covering control of 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 and (e) directly from trunk mains. The details of area served by the four reservoirs and the direct supply area are shown in Appendix XVII. The timings as actually operative on 26th November 1970 are given in Appendix XVIII.

The average quantity of water per day brought to the City, Suburbs and Extended Suburbs was as follows :

Average quantity of—

		In Mega Litres	In Million Gallons.
City	...	591.04	130.04
Western Suburbs	...	124.55	27.40
Eastern Suburbs	...	167.19	36.77
Extended Suburbs (West)	...	50.77	11.16
Extended Suburbs (East)	...	33.18	7.31

Short supply complaints.—During the year 55,662 Nos. of complaints were received as against 44,858 numbers of complaints during the last year, as detailed in Appendix XIX.

Reservoirs.—New Pump House at Malabar Hill Reservoir. This new pumping station was Commissioned with effect from 10th October 1970 for supplying Walkeshwar, Banganga and Ridge Road areas. As higher delivery pressures could be developed, the hours of supply to these areas were suitably reduced.

Golanji Hill Reservoir : Due to the availability of additional electric supply, two pumps were operated simultaneously during the supply hours with effect from 24th July 1970. This improved the delivery pressures substantially.

Cleaning of Reservoirs.—The work of cleaning compartment No. II of Malabar Hill and Bhandarwada Hill Reservoirs was carried out on 19th and 20th January 1971 and 18th and 19th November 1970 respectively.

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 193 cases under Section 271(2) in 109 cases in respect of premises which without adequate water supply. The number of prosecutions launched during the year was 347. The number of convictions was 184. 8 cases were withdrawn after compliance with notice and 60 cases were pending disposal at the end of the year. The total amount of fine recovered was Rs. 3,208. Besides about 3,560 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 works 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 751 prosecutions were launched. The number of convictions was 436 and the amount of fine recovered was Rs. 3,082.

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 1,617 against 724 in the previous year. In 190 cases the supply was cut off. In the remaining cases the execution of disconnection 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 2,026 against 2,030 received in the previous year. Out of these 371 calls were false, 51 calls were on account of house collapse and 32 calls were on account of serious fires. As per the estimate of the Fire Brigade Department, the quantity of water actually used to put out the fires was about 11.51 M L. (2.53 million gallons). The total number of fire vans were five and were stationed at (i) 'A' Ward (ii) Babula Tank, (iii) 'E' Ward, (iv) 'F/S' Ward and (v) 'G/S' Wards.

Flying squads.—As a result of low pressure in the municipal water mains and increase in number pavement dwellers, hydrants were found opened in various localities in the City by use of a crude keys. This part from wastage of water and low pressures created problems as hydrant were rendered in operable due to damage to spindle gates. In order to minimise wastage due to unauthorised opening of hydrants, two flying squads each consisting of overseer, two policemen and two labourers operated during the period from 5th May 1970 to 17th June 1970, further it was discontinued as monsoon broke out heavily. During this period 400 hydrants were closed, 57 spanners and keys, 34 masks, 473 utensils, buckets and vessels were confiscated. Revenue derived from returning utensils to the public on payment of small fees was about Rs. 526 and through auction of unclaimed confiscated utensils was Rs. 349.

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") diam. Vaitarna, 1,450 mm. (57") diam. West Tansa and 600 mm. (24") Tulsī main between Powai and Bandra and the later through tappings on the 1,800 mm. (72") West Tansa main, 1,200 > 800 > 600 mm. (48" > 32" > 24") Vehar main and 1,200 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

The 3.96 metres (13 feet) diam. tunnel between Mulund and Kandivali was put into commission fully.

Borivali, Dahisar, Kandivali, Malad and Goregaon are now supplied from the Tunnel. Out of the three arms of the tunnel two arms were in commission and 3rd arm was put into commission in April 1970.

(b) 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 a fill and draw basis, like the one at Worli and Golanji Hill.

600 mm. (24") Santacruz Outlet was put into commission by partially opening it for about 4 hours in the supply to boost pressures in the Khar and Santacruz areas.

Quantity of water supply.—Statistics as regards quantity of water supplied to the areas in the Suburbs and Extended Suburbs during the year 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 195 such stand pipes were given of which 175 in the Suburbs and 20 in the Extended Suburbs. The total number of metered stand pipes 2,464 out of the 2,009 are in Suburbs and 455 in the Extended Suburbs, while 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 11,412 and 1,280 respectively as detailed in Appendix XIX-A.

2 Notices for Suburbs and 11 for Extended Suburbs under Section 271(2) and 56 Notices for Suburbs and 6 Notice for Extended Suburbs under Section 274(1) of the Bombay Municipal Corporation Act were issued.

Fire Attendance.—The quantity of water used to put out the fire about 4.80 and 0.05 M.L. (1.05 M.G. and .01 M.G.) respectively.

Notices and Court Cases 163 and 1,206 Notices were issued respectively in the Suburbs and Extended Suburbs for the defective fittings, chokes in service pipes, unauthorised works etc. The court action was taken in 53 and 21 cases respectively. The amount of fine recovered was Rs. 65 and Rs. 62 for Suburbs and Extended Suburbs respectively.

Disconnection Order.—Disconnection orders were issued in the Suburbs and Extended Suburbs 644 and 112 respectively.

30,092 and 11,732 meters of sizes varying from 15 mm. (1½") to 300 mm. (12") were on the connections in the Suburbs and Extended Suburbs respectively, as detailed in Appendix XX. The number of meters exchanged were 5,636 and 2,669. Those fixed on new connections were 1,484 and 546, those removed from existing connections were 1,335 and 483 and number of new properties metered were 201 and 178 for Suburbs and Extended Suburbs respectively.

VI.—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, metered workshop, pumping and chlorination stations at Reservoir and other places in the City etc. This division continue attending emergent works connected with repairs to pipes even after office hours and on Sundays and Holidays.

Major Maintenance Works.—The total length 935.83 Km. (581.49 miles) of water mains of sizes 80 mm. (3") and above, was maintained during the year. There was one burst and 23 leakages on large sized water mains during the year. The details of bursts on 600 mm. (24") and above diam. mains are shown in Appendix XIV.

Plant and Machinery.—Plant and machinery maintained during the year are shown in Appendix XIII.

Old and New Pumping Stations at Reservoir.—(1) **Malabar Hill Reservoir.**—The existing six pumps viz., three Nos. 100 H.P., two Nos. 75 H.P. and one 40 H.P. were maintained in the existing pump houses. The total capacity of the pump house remained as 1,290 H.P.

(2) **Bhandarwada Reservoir.**—The existing two pumps viz., one of 275 H.P. and one of 300 H.P. were maintained. The total capacity of the pump house remained as 575 H.P.

(3) **Golanji Hill Reservoir.**—The existing three pumps viz., two numbers of 100 H.P. and one number of 80 H.P. were maintained the total capacity of the pump house remained as 280 H.P.

The aggregate capacity of pumping units at Reservoirs in the City is 2,145 H.P. and a total maintenance cost incurred was Rs. 3,33,000. In addition to the above pumping units, six small pumping sets were maintained for playing fountains and watering the reservoir gardens. Four boosting stations as shown in appendix XV (at Serial No. 1 to 4) were maintained during the year.

A 75 H. P. electric pump house was installed in place of 54 H. P. Diesel Pump at Fosbery Road boosting station.

Existing 54 H. P. diesel pump is also retained, as a stand-by.

Chlorination Plants.—Rechlorination was done at various places in the City for maintaining required residual chlorine in the water mains in the City. Auxiliary chlorination stations at (a) Futka Tank, Kings Circle, (b) Malabar Hill Reservoir, (c) Bhandarwada Hill Reservoir, (d) Worli Hill Reservoir and (e) Golanji Hill Reservoir, functioned satisfactorily. Further, five 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, 1,719 cylinders with chlorine of 117 tons approximately.

Testing of meter fittings.—The total number of pipes and fittings tested during the year was approximately 4,95,594. Out of which 2,80,661 pieces were for private parties and the remaining for the Municipal works, realising revenue of Rs. 71,680. The corresponding figures during the previous year were 5,73,519 pieces and Rs. 86,928.

Meter Shop.—The total number of meters maintained was 21,830. The total number of Municipal meters repaired during the year was 6,944. The total number of meters tested was 20,602 out of which 16,795 were municipal meters.

New meters.—The total number of new meters purchased during the year was 1,432.

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

Improving the Water supply in Municipal Buildings inside City.—98 new connections were made during the year. 567 odd jobs such cleaning of water connections, arresting wastage, rewashering of taps and replacement of old pipes etc., were carried out.

Maintenance of Water Works Buildings.—The routine maintenance works such painting, minor repairs, replacement of storage tanks and fittings, repairs to flooring etc., were carried out during the year.

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 3,583 as shown in Appendix XVI as against 3,777 in the previous year. The grant total of water connection existing in different premises in the City came to 1,00,500 as against 97,260 in the previous year. Similarly water connections cut off during the year were 343 as against 181 during the previous year. The odd jobs such clearing of dirt boxes, meters strainers etc., during the year were 6,936 as against 8,376 in the previous year.

Maintenance Division (Suburbs and Extended Suburbs.—Maintenance of Water Mains.—Water mains of sizes varying from 50 mm. (2") to 900 mm. (36") 672.32 Km. (419.27 miles) and 289.49 Km. (179.87 miles) in length in the Suburbs and Extended Suburbs respectively were maintained. The total number of bursts on mains from 80 mm. (3") to 600 mm. (24") diam. were maintained. The details of bursts on mains 600 mm. (24") and above in diam. are shown in Appendix XIV.

Maintenance of Pumping Stations.—34 pumping stations were maintained, as detailed in Appendix XV. Vehar Pumping Station having an installed capacity of 1,800 H.P. was operated for 8,699 hours during the year.

Water connections.—The particulars of connections made during the year are given in the Appendix XVI. The total number of new connections granted was, 1,813 in the Suburbs and 828 in the Extended Suburbs. The total number of connections at the end of the year was 33,113 in the Suburbs and 11,177 in the Extended Suburbs.

Testing of Water fittings.—The work of testing small sized galvanised iron pipes and brass fittings was carried out at Ghatkopar and Bandra. The revenue from testing of pipes and fittings submitted by the private parties amounted to Rs. 42,745 and 25,691 respectively.

General.—With the exceptions of two free stand pipes, Municipal properties benevolent and charitable institutions, water is supplied to all the properties in the Suburbs and Extended Suburbs through meter connections.

Repairs to water meters.—There is a Meter workshop at Ghatkopar, where meters are tested cleaned, overhauled and repairs. In all 6,895 municipal meters were repaired at Ghatkopar during the year. In addition to private meters were tested and sealed in testing shop at Ghatkopar and Bandra. The revenue collection was about Rs. 42,745 and 25,691 respectively.

Details of Plant and Machinery maintained during the year are shown in the Appendix XIII.

VII—CONSTRUCTION (CITY)

The Works Divisions (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 80 mm. (3") dia. and above in size were also done by this division.

These works were carried out departmentally, the total strength of the staff being 650. The cost of the budgetted works executed, about Rs. 18,68,856 and the cost of the unbudgetted works Rs. 14,58,333/-. The list of plant and machinery and tools with these divisions is shown in Appendix XIII.

The length of pipes of various sizes laid is shown in Appendix XXI.

Some of the important works executed during the year of 1970-71 as shown below :—

- (1) Improvement of water supply on C Ward by laying water mains and etc.
- (2) Guniting and patch plating 1,450 mm. (57") Tansa steel mains at Lady Jamshedji Road from Mogal Lane to N. C. Kelkar Road.
- (3) Replacing 1200 mm (48") steel main by new steel pipe at Netaji Subhash Road.
- (4) Providing Stubs across roads for water connections.
- (5) Providing pumping station at 4th Pasta Lane.
- (6) Work required in connection with providing an independant zone of water supply for 900 mm. (36") dia. meter Mount Road Outlet of Bhandarwada Hill Reservoir.
- (7) Work required in connection with providing an independant zone of water supply for 600 mm. (24") diameter Girgaon Outlet of Malabar Hill Reservoir.
- (8) Works required for separating the mixed zones of outlets of Malabar Hill Reservoir and Bhandarwada Hill Reservoir.

The two works mentioned at Sr. 2 and 3 were carried out through Contractors.

VIII—AMALGAMATION OF 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) Investigations and Monitoring.
- (3) Quality Control and Waste Prevention.
- (4) Industries.
- (5) Productivity.

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 continued to be zoning in conformity with the revised working plan for the Augmentation stage with completion of upper Vaitarna Augmentation Works. Detailed reports on proposed zones were prepared for 12 more zones bringing the total to 42 out of a total number of 68 zones covered under the plan. The zones already analysed were also tested for the 1981 stage of Development. Most of the planning work was done with the help of the C. D. C. 3600 electronic computer at the Tata Institute of Fundamental Research at Colaba, the total computer time used during the year being 1 hour, 50 minutes and 32 seconds.

(b) In addition, the planning section was also associated with the Tata Consulting Engineers and subsequently M/s. Binnee and Partners, consultants to the Municipal Corporation.

(c) Besides, the planning section also attended to various local problems of distribution of water supply in various wards.

(2) Investigation and Monitoring Division.—This Division has mainly worked on the problem of leakage detection along with M/s. Binnee & Partners the World Bank Consultants. Two zones were taken up. At Nepean Sea Road zone where the average total supply is 3.63 M.L.D. (0.8 M.G.D.) the initial loss was 9137,061 litres (2,09,930 gallons) and after repairs the same was brought down to 90,783 litres (19,970 gallons) The cost of water saved per year is Rs. 466/- against the total cost of Rs. 43,516/- for the work.

The corresponding figures for Chembur Zone were : Average total supply per day was 3.63 M.L.D. (0.8 M.G.D.), Initial loss was 46,39,788 litres (1,20,640 gallons), Loss after repairs was 1,72,792 litres (38,010 gallons). The total cost of work at Chembur was Rs. 34,000/- and the value of the water saved per year was Rs. 36,280/-.

The length of the main tested in the above 2 zones was 3353 Mt. (11000 Rft.) at Nepean Sea Road and 15240 Mt. (50,000 Rft.) at Chembur.

Further, during the last year, about 50 new mains varying in dia. from 100 mm (4") to 450 mm (18") and a total length being 18,670 Mt. (60,600 Rft.) were tested. The results varied from Nil to 2,27,300 litres (50,000 gallons)/inch dia/Mile/day in the 1st test. However, these were repaired and brought down to permissible limit of 1136 litres (250 gallons) inch/dia/mile/day.

Further, certain old mains already charged were also subjected to leakage test. 14 such mains were tested (total length 11,887 mts. (39,000 Rft.) and the leakage varied from 3591 to 90,920 litres (790 to 20,000 gallons)/inch/dia/mile/day.

(3) 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.—The total length of mains covered under the sounding programme excluding special sounding done for various investigations to study leakage losses or locate focal points of contamination was 2,064 Km. (1,282 miles). The total number of defects detected by the sounding gangs was 6,298 of which 1,700 were above ground. The number of taps rewashered was 77,069. The number of hydrant flushed was 56,981. Like the previous year's report the current figures pertain to the entire Greater Bombay area.

Pitometer Works.—Nine Pitometer Units were in the field in April 1971. No. of Units were increased as given below under Leakage Control Programme. Ten Pitometer Units were in the field in May 1970. Eleven Pitometer Units were in the field from May 1970 to September 1970. Twelve Pitometer Units were in the field from October 1970 to March 1971. The staff worked for 3650 unit days during the year as compared to 2407 unit days last year. Total number of points gauged was 457 which were made up of the following:

(1) Gauging the quantity of water conveyed by 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 purposes of day to day Control.	200
(2) Gauging in connection with leakage evaluation and consumption studies	124
(3) Gauging for purposes of planning and monitoring changes in the mode of distribution.	8
(4) Routine checking of pipe flows in various parts of the system.	97
(5) For finding 'C' Value of trunk mains in outside City Division and inside City limits.	28

In each of the Wards of the City and Suburbs there were, as in the preceding year, two groups of sampling points from which water was sampled at regular intervals for the purposes of bacteriological and chemical examinations.

Bacteriological standard of Water supplies.—The sampling points being on service mains 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 mobile squads of trained personnel of the Municipal Analyst's staff. The sampling was done daily but not on Sundays.

As against the previous years figures of 75.39 percent samples free from Coliform bacteria, the year's figure was 77.44. The total number of routine samples collected for bacteriological samples was 5106 compared to 5208 last year. This was exclusive of the 6385 special samples collected from the areas where reports of contaminated water had been received. 5,658 samples were also collected this year from service reservoirs of Malabar Hill, Bhandarwada, Worli, Golanji and Pali as compared to 4416 samples collected last year. 81.95 per cent these samples were free from Coliform organism as 82.73 per cent during the previous year. On the whole there was a marked deterioration in the quality of water which appears partly at least to have been due to the water released into the Vaitarna Lake from the new source being developed upstream of it.

Analysis Chemical Examination.—The total number of samples of water collected for chemical analysis during the year both from the lakes and the distribution system was 319.

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 fittings under 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.

(4) Industries Division.—The industrialists represented that the penalty rates were heavy and their submission was considered by M. C. was pleased to revise the rates and also laid down with regard to penalty rates, for Greater Bombay as well as for industries outside Greater Bombay with effect a common policy from 1-4-1969. The revised penalty rates are 2, 4, and 5 times 1st, 2nd and subsequent occurrences. The rates are made applicable to the financial year only and lapses are not to be carried over during the next year while determining penalty occurrences. Penalty rates were further revised to 100 per cent and 200 per cent for 1st and subsequent occurrence with effect from 1-4-1970 and also the margin of permitted excess consumption above the quota was raised from 5 to 10 per cent from the same date.

(5) Productivity Division

(1) Implementation of the report on utilisation of maintenance staff.—The recommendations made in the report were considered and most of them were accepted. An implementation of the recommendations were started from 1st March 1971. The Productivity Unit is monitoring the implementation.

(2) PERT/CPM Training.—An eight lecture course, specially prepared to train the engineering personnel of the Municipal Corporation, was run by the Productivity Unit. During the year four such courses at Powai and one at Kapurbawadi were conducted by the Unit, in which in all 77 persons participated. The participants consisted of Ex. Engineers, Asstt. Engineers, Sub-Engineers and Overseers of Water Supply Projects Departments.

The unit studied various activities performed by the ward staff for maintenance and reading of water meters and preparation of water charges bills. The study was conducted in 'D' Ward. The salient features of the recommendations were:—

- i) Periodical replacement of water meters.
- ii) Provision of Meters of standard lengths and standard chambers to house meters.
- iii) Reading of High Revenue earning (Rs. 500/- and above per month) meters every month and the rest once in three months.
- iv) Introduction of an advantageous billing frequency. as under:—

Rs. 500/- and above per month	1 bill per month
Rs. 100/- and upto Rs. 500/- per month.	1 bill per 3 months.
Less than Rs. 100/- per moth.	1 bill per 6 months.

A programme for a phased changeover from the existing systems to the proposed one was also prepared. The recommendations including the phased programme have been accepted and are being implemented in 'D' Ward.

(4) Preparation of Manual of Water Works Sections in Wards:—A need was felt to define clearly the duties and responsibilities of various staff members of the Water Works Sections of wards. The unit has, therefore, undertaken the work of preparing a manual to cover these aspects. The work had just started at the end of year.

IX—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 works, maintaining a library of engineering books and periodicals and attending to miscellaneous administrative matter of technical nature.

Several proposals for laying water mains, for improvement and expansion of the distribution system were formulated during the year. Plans and estimate below were prepared:—

Preparation of plans and estimate.

Budget	No. of plans	No. of estimate	Estimate cost in Rs.
(City) Division— I ...	175	197	1,70,12,619
(Suburbs) Division— II ...	135	112	92,35,998
(Extended Subs.) Division— III	119	91	1,04,97,479
Total ...	429	400	3,67,46,096

941 estimates of compounded charges for water used for construction purposes in the City were framed as against 1018 in the corresponding year. The total estimated amount was Rs. 11,05,961/- as against Rs. 10,13,400/- in the preceding year. On similar lines 2,889 estimates for the Suburban and Extended Suburban areas against 3,556 in the preceding year were framed amounting to Rs. 15,19,646/- as against Rs. 21,44,700/- in the preceding year.

X—METERING

20,127; 30,092; and 11,732 Meters of sizes varying from 15 mm. (1/2") to 300 mm. (12") in City and Extended Subs. respectively, were on the connections as detailed in Appendix XX. The number of meters exchanged was 10,451; 9,021 and 2,669, those fixed on new connections were 898; 1,484 and 546 and meters removed from the existing connections were 361; 1,335 and 483 for City, Suburbs and Extended Subs. respectively.

The number of new properties metered during the year 189,201 and 178 for City, Suburbs and Extended Suburbs respectively. Premises metered during the year pertain to Progressive Metering trades and new residential buildings on flat system.

Programme.

The total revenue derived from water supply meter measurement was Rs. 595,13,440.57, Rs. 253,40,398.49 and Rs. 76,48,208.57 in City, Suburbs and Extended Subs. respectively.

Revenue from metered connections.

XI—ESTABLISHMENT

The total number of scheduled superior staff during the year was 308 under Division I (Budget 'A') and the establishment cost thereof amounted to Rs. 23,81,540. The labour staff during the year numbered about 2,303 and its establishment cost was Rs. 53,64,798/- The temporary staff both superior and inferior was 517 with establishment cost of Rs. 4,42,254.

Under Division II and III the total number of scheduled superior staff during the year was 174 and 74 and the establishment cost thereof amounting to Rs. 9,07,680 and Rs. 4,03,910. Labour staff during the year numbered about 353 and 147 and its establishment cost was Rs. 1,032,172 and Rs. 3,89,366. The temporary staff both superior and inferior was 37 and 35 respectively with a total establishment cost of Rs. 1,22,993 and 34,654.

Y. H. KAMAT.
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.—	Graph 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.—	Plan showing zones of water supply.
XVII.—	Statement of water connections of different sizes made during the year.
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 31-3-1970).

APPENDIX I
Statistics of the Lakes for 1970-71

Serial No.	Particulars	Vaiterna	Tansa	Veher	Tulsi	Powai
1	Distances from Bombay (Town Hall) in Kilo Metres (miles) by road.	119.09 (74)	106.21 (66)	28.96 (18)	35.40 (22)	27.35 (17)
2	Water spread at full supply level in square kilometres (square miles).	8.55 (3.30)	19.11 (7.38)	7.28 (2.81)	1.35 (0.52)	2.10 (0.81)
3	Total catchment areas in square Kilometres (square miles) ...	450.66 (174.00)	135.38 (52.50)	18.96 (7.32)	6.76 (2.61)	6.68 (2.58)
4	Total rainfall in Millimetres (Inches) ...	2,921.08 (115.02)	2,949.70 (116.13)	2,825.94 (111.26)	3,931.39 (154.78)	2,843.00 (111.53)
5	Average rainfall of the preceeding five years in Millimetres (Inches).	2,386.35 (93.90)	2,570.38 (101.19)	2,154.19 (84.81)	2,699.75 (106.20)	2,092.03 (82.36)
6	Fluctuation in rainfall as compared with preceeding 5 years in Millimetres (Inches).	58.55 (2.37)	96.40 (3.79)	56.39 (2.22)	243.5 (9.50)	9.96 (0.39)
7	No. of rainy days, [rainfall of 2.5 mm. (0.10") and above]...	97	103	100	90	92
8	(a) Number of days in which rainfall was moderate [between 7.6 mm (0.3") and 34.9 mm (1.38")].	45	45	49	46	33
	(b) Number of days in which rainfall was heavy [between 35.0 mm (1.38") to 64.9 mm. (2.5")]	19	16	18	11	16
	(c) Number of days in which rainfall was very heavy [between 65.0 mm. (2.56") and 84.9 mm (3.34")]	2	3	5	4	4
	(d) Number of days in which rain fall was very heavy 85.0 mm. (3.35") and above...	8	7	6	14	9
9	Maximum rainfall in milli metres (Inches) ...	141.43 (5.56")	152.64 (6.00)	141.30 (5.56)	301.68 (11.87)	172.00 (6.77)
10	Dates of maximum rainfall ...	7-7-1970	7-7-1970	20-8-1970	7-7-1970	16-6-1970
11	The lakes commenced to overflow when the rainfall amounted to mms. (inches) ...	1,061.20 (41.78)	1,952.50 (76.87)	2,667.48 (105.01)	1,981.33 (78.00)	1,145.30 (45.90)
12	Dates on which the lakes started overflowing ...	16-8-1970	16-8-1970	9-9-1970	8-7-1970	6-7-1970
13	Dates on which the lakes stopped overflowing ...	5-9-1970	15-9-1970	14-9-1970	14-9-1970	27-9-1970
14	Number of days the lakes over flowed ...	20	24	6	27	42
15	Quantity of water that overflowed over the waste weir in Mega Litres (Million gallons) ...	8,208.76 (1,805.71)	793.51 (174.55)	...	1.09 (24)	113.58 (2,490.50)
16	Full supply levels of the lake above Town Hall Datum in Metres (Feet). ...	163.06 (535.00)	138.62 (422.00)	80.67 (264.70)	139.16 (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). ...	1,80,293.00 (39,660)	1,84,293.00 (40,660)	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). ...	163.10 (535.33)	128.62 (422.20)	80.69 (264.76)	139.29 (457.00)	59.50 (195.25)
19	Dates on which the highest level was reached ...	7-9-1970	23-8-1970	11-9-1970	3-9-1970	3-9-1970
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). ...	141.71 (464.97)	120.88 (396.60)	73.16 (240.09)	133.03 (436.48)	55.48 (182.07)
22	Dates on which the lowest levels were reached ...	12-6-1970	11-6-1970	11-6-1970	6-6-1970	5-6-1970
23	Contents of the lakes above the lowest outlets at the lowest level reached in Mega Litres (Million Gallons).	44,787.00 (9,852)	62,816.00 (13,818)	8,446.00 (1,858)	3,809.00 (838)	864.00 (190)
24	Lake levels above T. H. D. in Metres (Feet) on 1st October 19 69. ...	162.83 (534.25)	128.46 (421.46)	80.44 (263.95)	139.00 (456.22)	59.41 (194.94)
25	Contents of the lakes above the lowest outlet in Mega Litres (Million Gallons) on 1st October 1970. ...	1,78,256.00 (39,217)	1,81,665.00 (39,962)	40,518.00 (8,913)	10,269.00 (2,259)	5,432.00 (1,195)
26	Quantity of water required to fill up the lakes, to full supply level from the lowest level reached in Mega Litres (Million Gallons).	1,35,525.96 (29,808)	1,22,022.65 (29,808)	33,376.43 (7,342)	6,618.91 (1,456)	4,591.42 (1,010)
27	Percentage run off into the lakes from the catchment as per rainfall registered at the lakes.	81%	55.88%	60.43	73.72	...
28	Quantity of water brought into the City and Suburbs including Extended Suburbs during the year in Mega Litres (Million Gallons).	1,84,000 (40,467)	1,07,800 (23,663)	54,800 (12,309)	5,425 (1,192)	...
29	Average quantity of water brought into the City and Suburbs including Extended Suburbs per day in Mega Litres (Million gallons)	503 (111)	295 (65)	153 (33.7)	15 (3)	...
30	Total loss of water due to evaporation leakage and absorption in Mega Litres (Million gallons) during the dry-period of 7 months.	42,500 (94.00)	63,400 (13,900)	78.30 (17.19)	20.40 (446.90)	...
31	Average loss of water per day due to evaporation and other losses during the dry months in Mega Litres (Million Gallons)	201.8 (44.36)	291.8 (65.5)	36.8 (8.09)	9.54 (2.11)	...
32	Total loss of water due to evaporation only in Mega Litres (Million gallons) for 7 dry months of the year	6,575.83 (1,146.52)	13,313.72 (2,935.29)	4,051.93 (891.32)	786.41 (172.99)	1,012.94 (222.82)
33	Average loss of water per day due to evaporation only in mega Litres (Million Gallons) for the 7 dry months of the year	31.02 (6.82)	62.94 (13.85)	19.11 (4.20)	3.71 (0.82)	4.67 (1.05)

APPENDIX—II

Statement showing Evaporation Losses of different lakes during the year 1970-71

Month	Evaporation in Metres				Evaporation in Mega-Litres			
	Vaitarna	Tansa	Vehar	Tulsi	Vaitarna	Tansa	Vehar	Tulsi
April 1970 ...	0.170 (0.558 ft.)	0.159 (0.521 ft.)	0.177 (0.583 ft.)	0.147 (0.483 ft.)	990.20 (217.82)	2,147.28 (472.35)	677.39 (149.01)	137.43 (30.23)
May 1970 ...	0.184 (0.604 ft.)	0.193 (0.632 ft.)	0.191 (0.627 ft.)	0.186 (0.610 ft.)	914.88 (201.25)	2,467.09 (542.70)	676.26 (148.76)	162.38 (35.72)
June 1970 ...	Not recorded				Not recorded.			
July 1970 ...								
August 1970 ...								
September 1970 ...								
October 1970 ...	Not recorded				Not recorded.			
November 1970								
December 1970								
January 1971 ...								
February 1971 ...	0.102 (0.335 ft.)	0.095 (0.314 ft.)	0.096 (0.317 ft.)	0.070 (0.231 ft.)	837.60 (184.25)	1,505.17 (331.10)	406.27 (89.37)	73.60 (16.19)
March 1971 ...	0.162 (0.533 ft.)	0.142 (0.467 ft.)	0.126 (0.413 ft.)	0.104 (0.340 ft.)	1,296.18 (285.13)	2,022.28 (460.25)	491.42 (108.10)	103.28 (22.72)
Total—:	0.924 (3.039 ft.)	0.880 (2.893 ft.)	0.969 (3.185 ft.)	0.767 (2.523 ft.)	6,575.83 (1,446.52 M.G.)	13,343.72 (2,935.29 M.G.)	4,051.93 (891.32 M.G.)	786.41 (172.99 M.G.)

Grand Total—24,757.89 Mega Litres (5446.12 Million Gallons) in dry season (212 days) for all Lakes.

116.78 Mega Litres (25.69 Million Gallons) per day for all Lakes.

31.02 Mega Litres (6.82 Million Gallons) per day for Vaitarna.

62.94 Mega Litres (13.85 Million Gallons) per day for Tansa.

19.11 Mega Litres (4.20 Million Gallons) per day for Vehar.

3.71 Mega Litres (0.82 Million Gallons) per day for Tulsi.

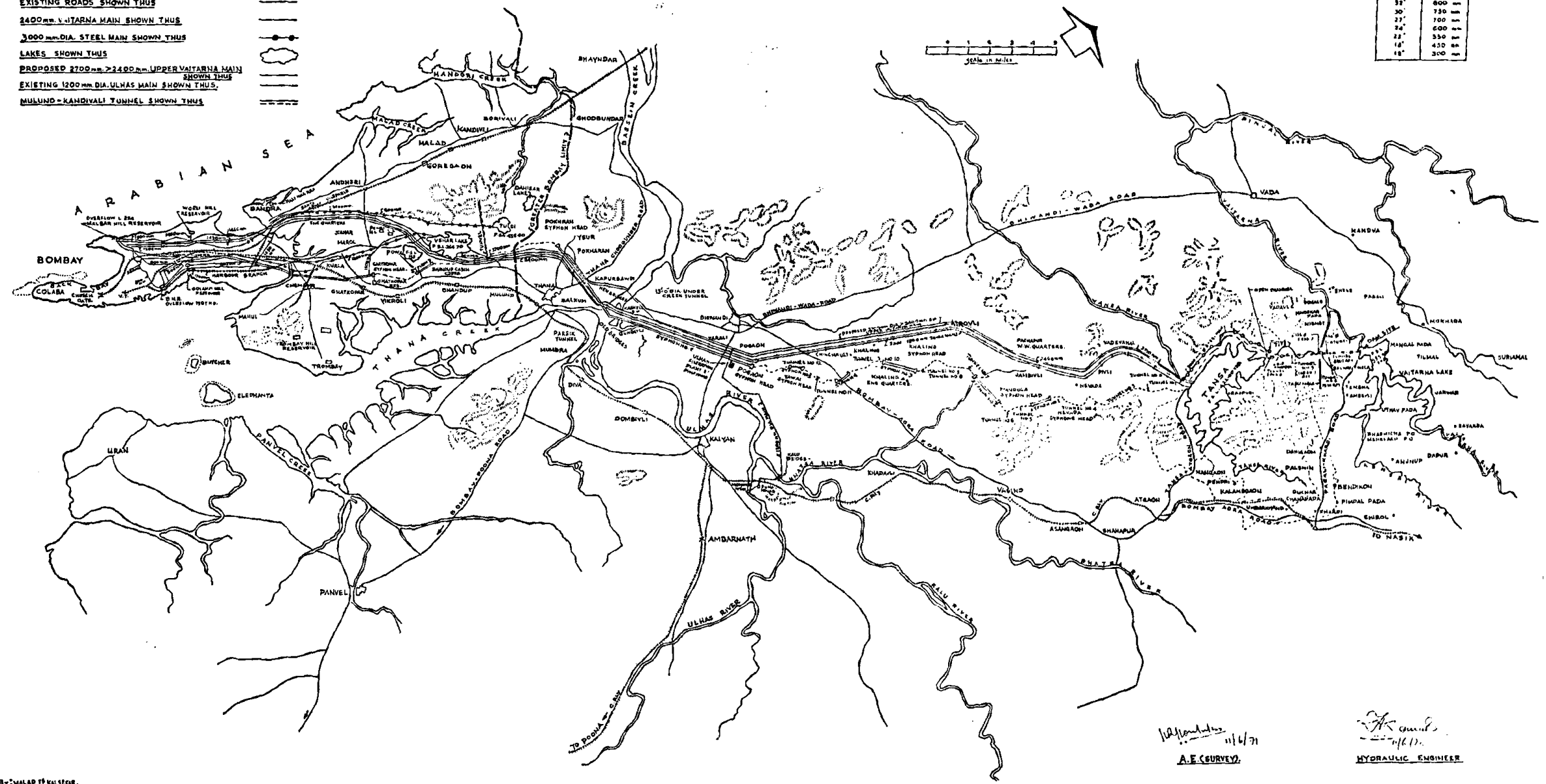
APPENDIX III

THIS PLAN CANCELLED ORIGINAL DRAWING NO. 11/4/71

- NOTES.**
- 2-1800mm DIA TANSA MAINS SHOWN THUS
 - MASONRY DUCT / SYPHON LINE SHOWN THUS
 - 1200mm DIA VEMAR MAIN SHOWN THUS
 - 600mm DIA TULSI MAIN SHOWN THUS
 - HORSE SHOE SECTION (7.71 METRES) TUNNEL SHOWN THUS
 - TANSA-BELHALA ROAD SHOWN THUS
 - EXISTING ROADS SHOWN THUS
 - 2400mm V-JARNA MAIN SHOWN THUS
 - 3000mm DIA STEEL MAIN SHOWN THUS
 - LAKES SHOWN THUS
 - PROPOSED 2700mm > 2400mm UPPER VAITARNA MAIN SHOWN THUS
 - EXISTING 1200mm DIA ULHAS MAIN SHOWN THUS
 - MULUND-KANDIVALI TUNNEL SHOWN THUS

LAKES & TRUNK MAINS PROVIDING WATER SUPPLY TO GREATER BOMBAY

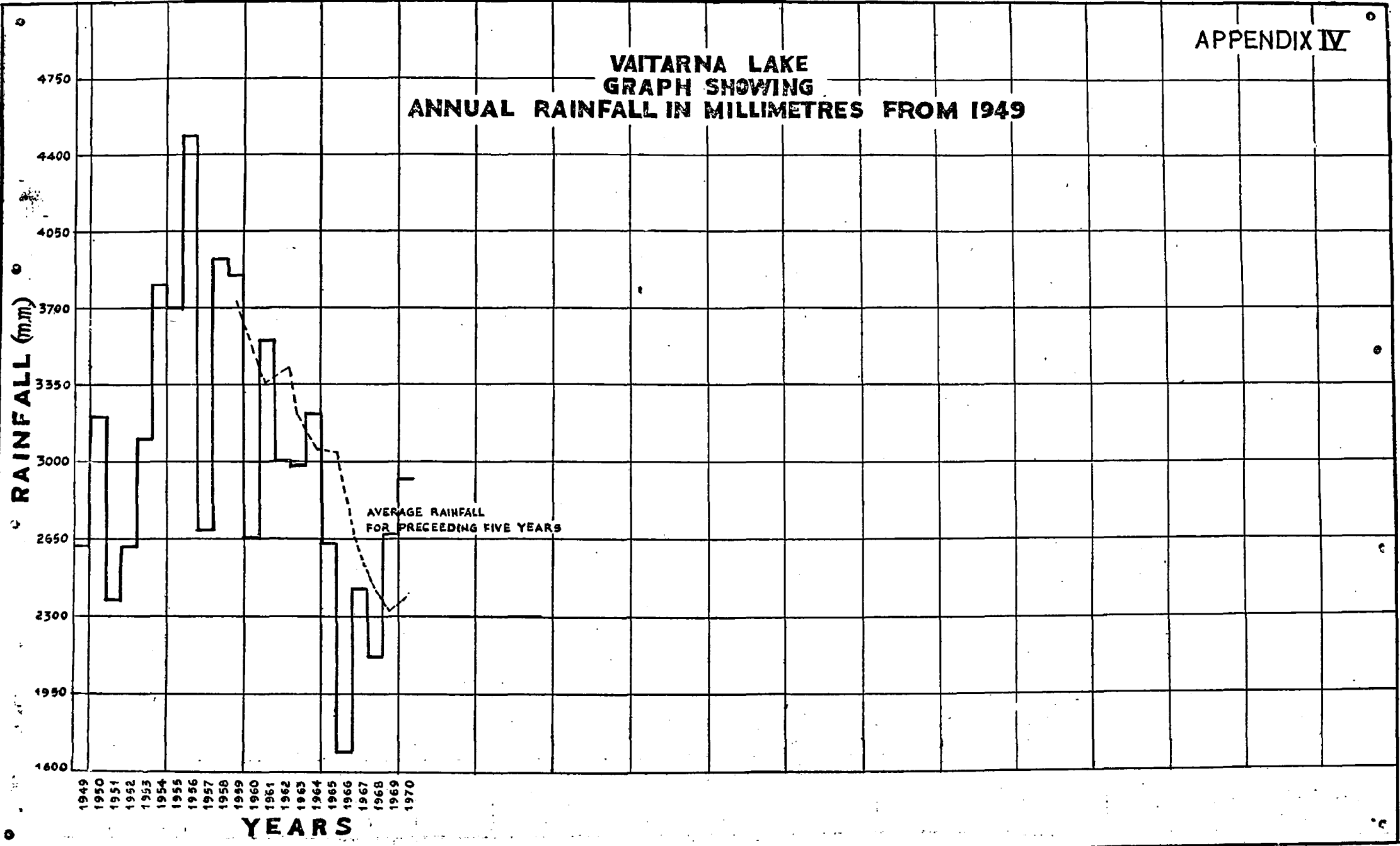
DIA IN INCHES	DIA IN METRES
120"	3000 mm
108"	2700 mm
96"	2400 mm
72"	1800 mm
60"	1500 mm
54"	1400 mm
48"	1200 mm
36"	900 mm
30"	750 mm
27"	700 mm
24"	600 mm
22"	550 mm
18"	450 mm
18"	300 mm



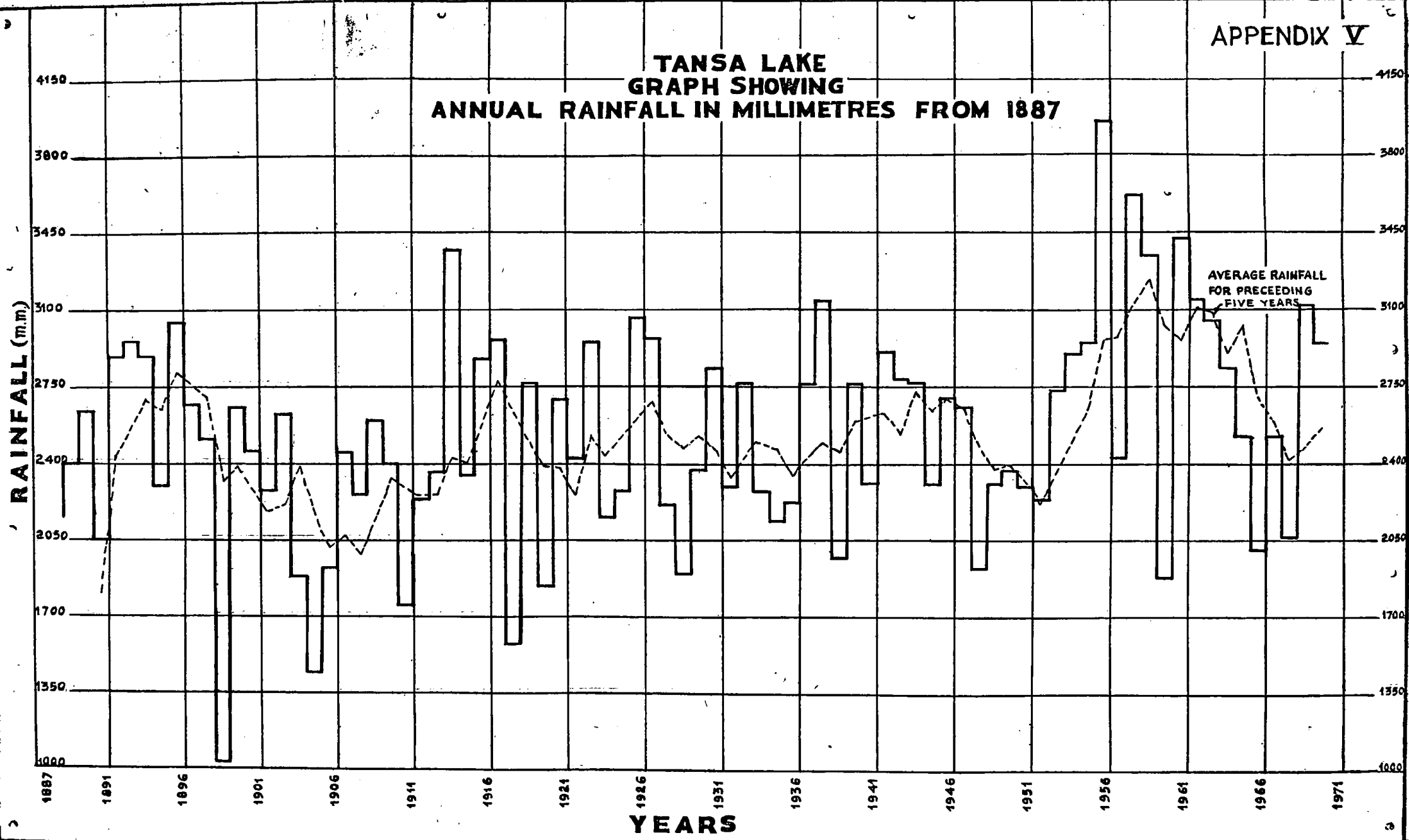
11/4/71
A.E. SURVEY

HYDRAULIC ENGINEER

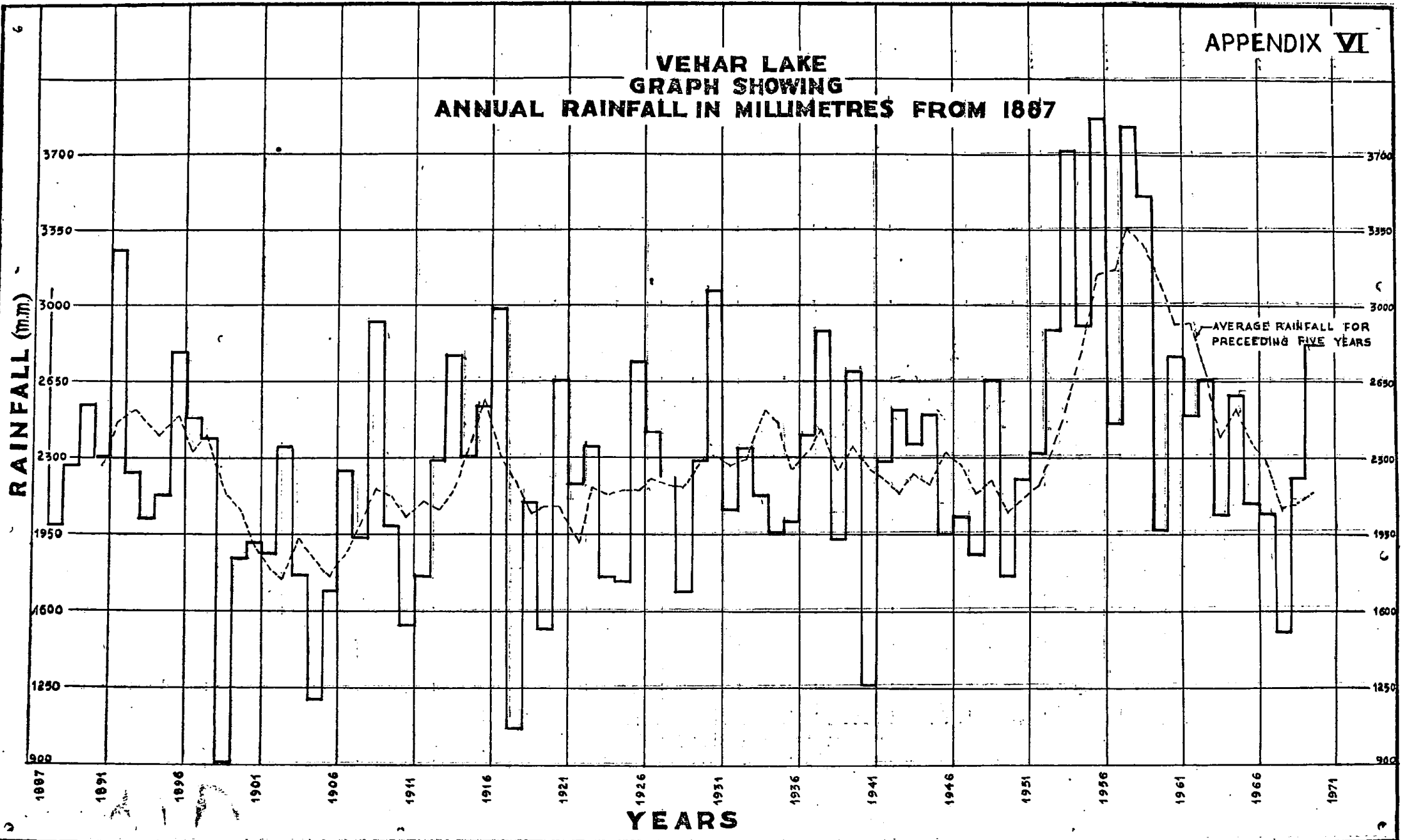
VAITARNA LAKE
GRAPH SHOWING
ANNUAL RAINFALL IN MILLIMETRES FROM 1949



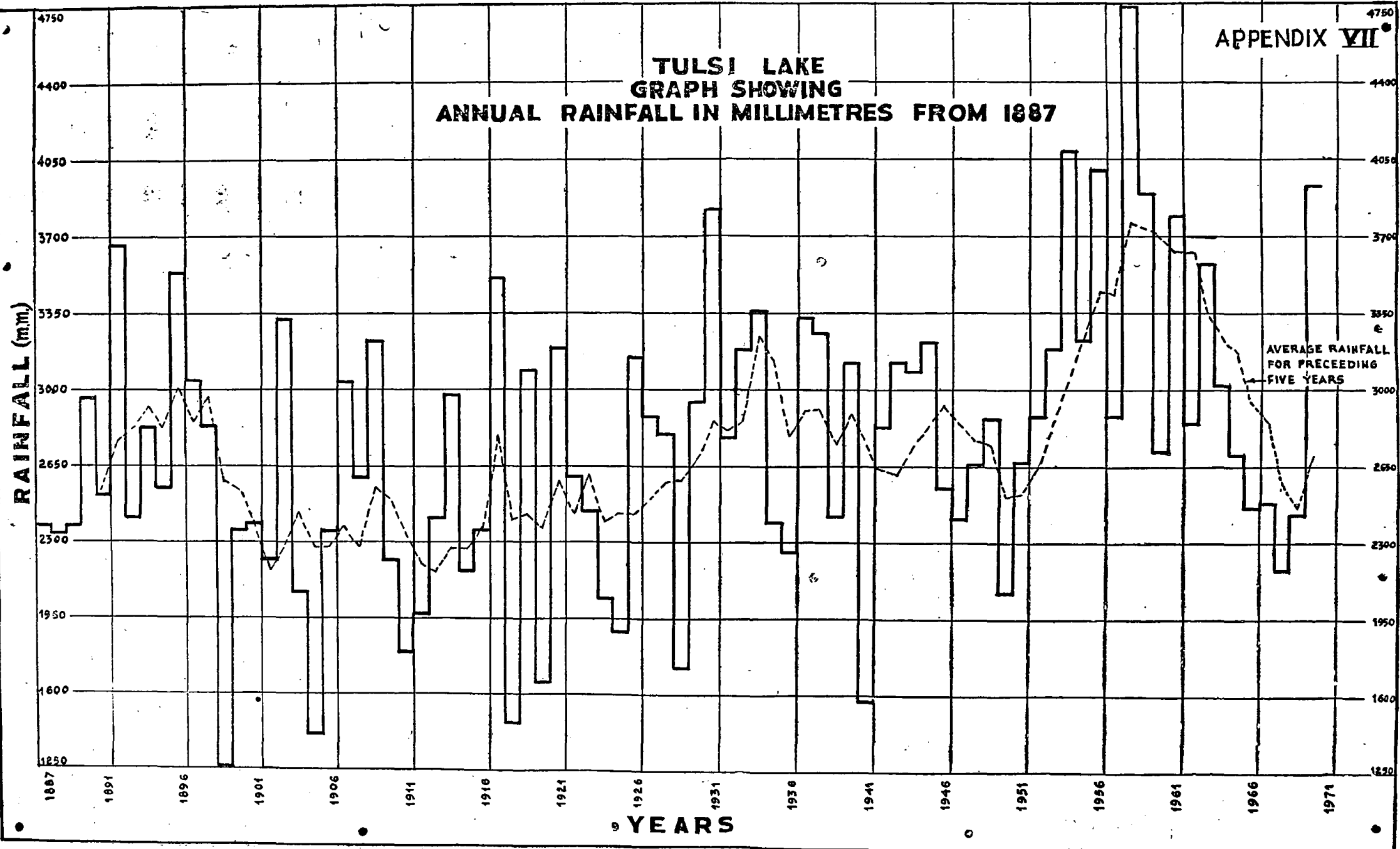
TANSA LAKE GRAPH SHOWING ANNUAL RAINFALL IN MILLIMETRES FROM 1887



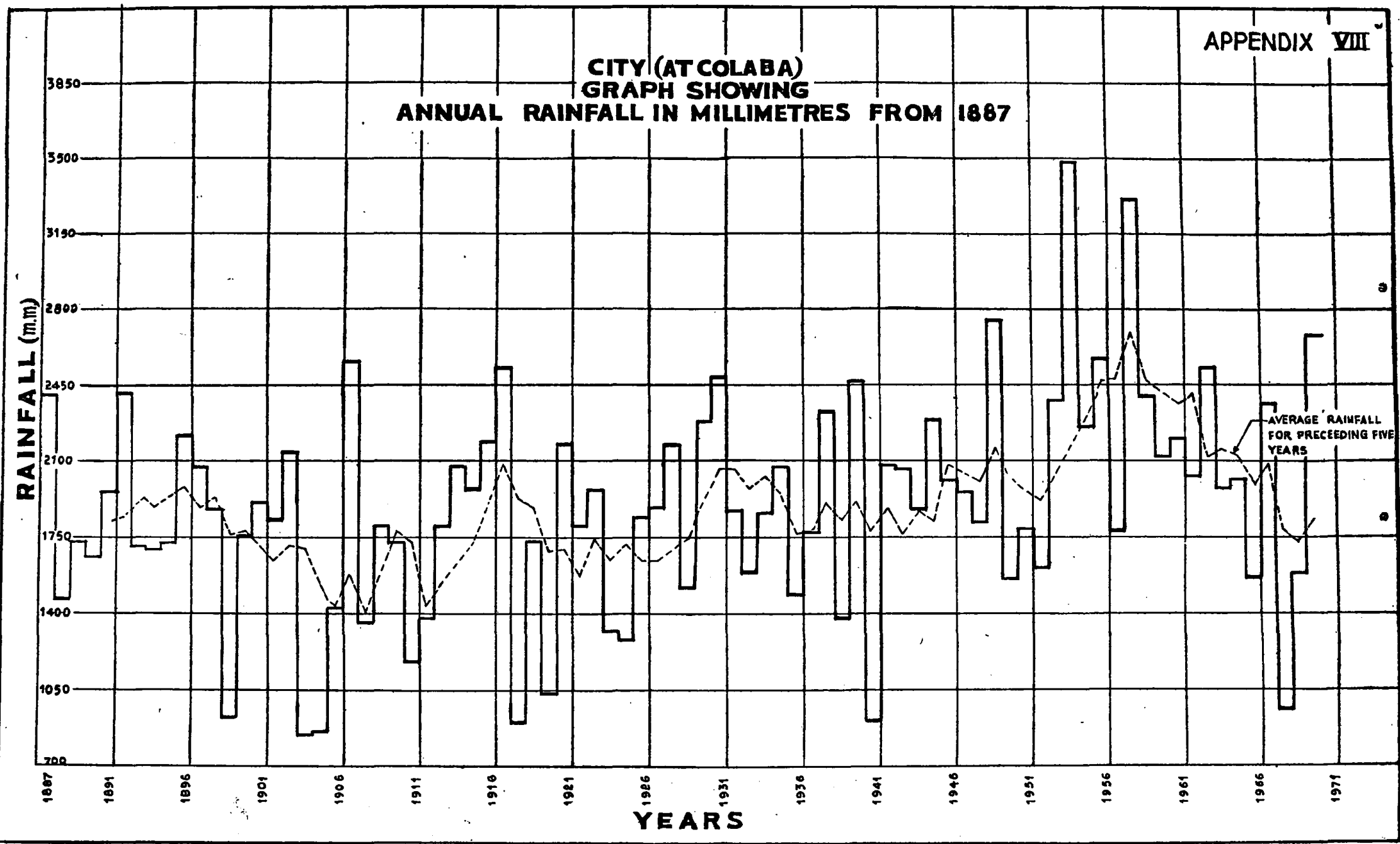
VEHAR LAKE
GRAPH SHOWING
ANNUAL RAINFALL IN MILLIMETRES FROM 1887



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 (1970-71)

(1) Quantity of water supplied to the Greater Bombay during the year in Mega Litres	3,52,902.86 (77,630.00 M.G.)
(2) Quantity of water supplied to the City proper during the year in Mega Litres	2,15,768.17 (47,463.30 M.G.)
(3) Quantity of water supplied to the Greater Bombay during the previous year in Mega Litres...	3,33,673.46 (73,400.00 M.G.)
(4) Decrease over the previous year's supply in Greater Bombay in Mega Litres	19,596.52 (2,111.00 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 ...	6,047.28 (1,330.25 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 ...	16,443.71 (3,617.21 M.G.)
(7) Average daily supply during the year to City proper in Mega Litres...	591.04 (130.04 M.G.)
(8) Average daily supply during the year to Western Suburbs in Mega Litres	124.55 (34.67 M.G.)
(9) Average daily supply during the year to Eastern Suburbs in Mega Litres	167.19 (36.77 M.G.)
(10) Average daily supply during the year to Extended Suburbs West in Mega Litres	50.77 (11.16 M.G.)
(11) Average daily supply during the year to Extended Suburbs East in Mega Litres	33.18 (7.31 M.G.)
(12) Average daily supply during the year in Greater Bombay in Mega Litres	966.85 (212.68 M.G.)
(13) Decrease over previous year's average daily supply to Greater Bombay in Mega Litres	52.70 (11.59 M.G.)
(14) Estimated mid year (1970-71) population of City as given by Director of Public Health, Government of Maharashtra	30,67,321
(15) Do. Suburbs Do.	21,68,160
(16) Do. Extended Suburbs Do.	7,33,065
(17) Do. Greater Bombay Do.	59,68,546
(18) The maximum supply per day during the year on 25th October 1969 in Mega Litres	951.92 (209.40 M.G.)
(19) The minimum supply per day during the year on 12th April 1969, in Mega Litres	693.70 (152.60 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 12,740.83 M.L. (2,802.72 M.G.) tapped outside Greater Bombay and 38,069.00 M.L. (8,374.40 M.G.) tapped upstream of Powai Venturi at Mulund	3,53,337.33 (77,725.57 M.G.)
(21) Average quantity of water conveyed daily by the two 1800 mm. (72") and one 2400 mm. (96") dia. mains in Mega Litres	968.00 (212.94 M.G.)
(22) Total quantity of water transferred from Duct to Vehar in Mega Litres	Nil.
(23) Total quantity of water transferred (by pumping) from Ulhas River to Vehar in Mega Litres	16,096.00 (3,540.82 M.G.)
(24) Total quantity of water transferred from Vaitarna to Tansa in Mega Litres	Nil.
(25) Total quantity of water transferred from 2,400 mm. (96") main to Vehar in Mega Litres	Nil.
(26) Total quantity of water transferred from Upper Vaitarna to Vaitarna during the year in Mega Litres...	81,791.00 (17,992.00 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. Vehar main during the year in Mega Litres	...	...	...	...	10,559.34 (2,322.80 M.G.)
(30) Average quantity of water conveyed by 1,200 mm. (48") diam. Vehar main during the year in Mega Litres	...	...	...	...	28.90 (6.36 M.G.)
(31) Total quantity of water conveyed by 600 mm. (24") diam. Tulsimain during the year in Mega Litres	...	...	...	...	5,418.77 (1,192.00 M.G.)
(32) Average quantity of water conveyed daily by 600 mm. (24") Tulsimain during the year in Mega Litres	...	...	...	...	14.81 (3.26 M.G.)
(33) Quantity of water supplied for domestic purposes during the year to City in Mega Litres	...	...	...	...	1,35,242.33 (29,750.01 M.G.)
(34) Quantity of water supplied for domestic purposes during the year to the Suburbs in Mega Litres	...	...	...	...	63,464.92 (13,960.73 M.G.)
(35) Quantity of water supplied for domestic purposes during the year to the Extended Suburbs in Mega Litres	...	...	...	...	18,066.68 (3,974.23 M.G.)
(36) Quantity of water supplied for domestic purposes during the year to Greater Bombay in Mega Litres	...	...	...	...	2,16,773.93 (47,684.97 M.G.)
(37) Average quantity of water supplied for domestic purposes per head per day to the City in Litres	...	...	...	...	120.79 (26.57 gallons.)
(38) Average quantity of water supplied for domestic purposes per head per day to Suburbs in Litres	...	...	...	...	80.19 (17.64 gallons.)
(39) Average quantity of water supplied for domestic purposes per head per day to the Extended Suburbs in Litres...	...	...	...	...	67.51 (14.85 gallons.)
(40) Average quantity of water supplied for domestic purposes per head per day to Greater Bombay in Litres	...	...	...	...	99.47 (21.88 gallons)
(41) Average daily supply for all purposes per head per day to the City in Litres	...	...	...	...	192.70 (42.39 gallons.)
(42) Average daily supply for all purposes per head per day to the Suburbs in Litres	...	...	...	...	134.60 (29.61 gallons.)
(43) Average daily supply for all purposes per head per day to the Extended Suburbs in Litres	...	...	...	...	114.60 (25.21 gallons.)
(44) Average daily supply for all purposes per head per day to Greater Bombay in Litres	...	...	...	...	161.97 (35.63 gallons.)
(45) Percentage of water supplied for domestic purposes to total supply in Greater Bombay	...	...	...	...	61.42
(46) Percentage of water supplied for other purposes to total supply in Greater Bombay	...	...	...	...	23.58

APPENDIX X

Statement showing the quantity of Municipal water used for different purposes during the year 1970-71 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 ...	14.95	3.29	0.01	1,433.49	315.33	1.34	336.17	73.95	1.10	
2	Other Stables ...	26.90	5.92	0.01	...	...	...	...	...	...
3	Textile Mills ...	19,586.00	4,303.41	9.08	1,237.26	272.17	1.16	32.59	7.17	0.11	
4	Dyeing, Printing Bleaching Mills ...	1,716.53	377.60	0.79	876.54	192.82	0.82	75.74	16.66	0.25	
5	Gymkhana, Play Grounds, etc. ...	208.56	45.88	0.10	117.60	25.87	0.11	0.23	0.05	0.00	
6	Race Course ...	133.92	29.46	0.06	...	...	...	...	...	...
7	Industries ...	5,878.26	1,293.07	2.72	8,230.71	1,810.54	7.73	4,151.31	913.18	13.54	
8	Laundries and Dhobi Ghats	832.71	183.18	0.39	284.29	62.54	0.30	11.14	2.45	0.04	
9	Lodging and Boarding Houses ...	343.56	75.58	0.16	159.32	35.05	0.15	17.59	3.87	0.06	
10	Hotels ...	555.69	122.24	0.26	34.00	7.48	0.03	153.78	33.83	0.50	
11	Restaurants ...	2,390.35	525.82	1.11	988.87	217.53	0.92	96.97	21.33	0.31	
12	Floor Mills ...	75.45	16.60	0.03	0.64	0.14	...	...	...	...
13	Private Hospitals ...	485.32	106.76	0.23	90.92	20.03	0.08	41.10	9.04	0.13	
14	Railways ...	5,694.86	1,252.73	2.64	3,255.57	716.14	3.06	438.13	96.38	1.43	
15	Bombay Port Trust ...	6,757.10	1,486.39	3.13	210.02	46.20	0.21	...	...	...
16	Private Markets ...	57.68	12.69	0.03	24.41	5.37	0.02	0.95	0.21	0.01	
17	Bakeries ...	99.87	21.97	0.05	71.54	15.74	0.07	12.91	2.84	0.04	
18	B. E. S. & T. Undertaking properties ...	665.56	146.41	0.31	81.36	17.90	0.08	23.59	5.19	0.07	
18A	B. S. E. S. properties ...	...	...	...	29.31	6.45	0.03	36.10	7.94	0.12	
19	Municipal Dhobighat ...	512.32	112.70	0.24	...	...	...	...	...	...
20	Cultivating lands ...	3.63	0.80	0.00	10.95	2.41	0.01	...	...	...
21	Construction Works (Metered) ...	159.69	35.13	0.07	260.37	57.28	0.24	241.84	53.20	0.79	
22	Construction Works (Unmetered Estimated) ...	1,474.93	324.45	0.68	1,339.95	294.76	1.25	685.98	150.90	2.24	
23	Aarey Colony & Worli Dairy ...	...	...	...	...	...	...	1,618.17	355.96	5.27	
24	Fertilizer Corporation ...	...	...	...	5,807.37	1,277.47	5.45	...	...	...
25	Refineries ...	...	...	...	2,223.83	489.19	2.08	...	...	...
Total supply for Industrial and Trade purposes ...		47,673.84	10,487.03	22.10	26,768.34	5,888.38	25.14	7,974.29	1,754.15	26.01	
26	Fire purposes ...	30.23	6.66	0.01	21.82	4.80	0.02	0.27	0.06	0.02	
27	Municipal Construction Works ...	23.41	5.15	0.01	179.97	39.59	0.17	15.55	3.42	0.05	
28	Road watering cleaning and cleansing and flushing gullies	Nil	Nil	...	Nil	Nil	...	Nil	...	...
28A	Municipal Markets ...	431.41	94.93	0.20	65.19	14.34	0.06	9.09	2.00	0.02	
Total Supply for Non-domestic purposes ...		48,158.94	10,593.79	22.32	27,035.32	5,947.11	25.39	7,999.20	1,759.63	26.01	
29	Domestic supply to City Suburbs, and Extended Suburbs										
(a)	Metered residential including ...	41,463.46	9,120.95	19.22	62,555.72	13,760.73	58.76	17,384.69	3,824.23	56.68	
(b)	Unmetered ...	93,778.67	20,629.05	43.46	909.18	200.00	0.85	681.89	150.00	2.22	
30	Assumed unaccounted losses such as leakage, bursts, de-watering of mains during construction and repairs works, unauthorised use of fire hydrants... ..	32,365.35	7,119.50	15.00	15,970.58	3,513.14	15.00	4,599.86	1,011.86	15.00	
Grand total ...		2,15,766.42	47,433.30	100.00	1,06,470.80	23,420.98	100.00	30,655.64	6,745.72	100.00	

Note 1 --The total quantity of water supplied to the City, Suburbs and Extended Suburbs, is, i.e. Greater Bombay was 3,52,902.86 Mega litres (77,630.00 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	... Spillway	... 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. × 1.98 Mts. (15'-6" × 6'-6")	50.90 Mts. 167.00 feet.
"	Do.	1	Circulating rollers type.	5.91 Mts. × 1.98 Mts. (19'-6" × 6'-6")	Balanced load operation.
"	Intake Tower	... 1	Stoney gate. (Main).	3.96 Mts. × 1.098 Mts. (13'-0" × 6'-6")	30.17 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 Kilometres (Miles)	Tansa. Kilometers (Miles ^s).			
(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	...	1	5	7
2	Portable welding transformer	...	2	1	...	3	6
	Portable arc-welding sets	...	6	6	...	...	12
4	Portable compressor unit	...	3	1	1	2	10
5	Garage air compressor	...	2	1	...	1	4
6	Portable " dewatering unit	...	3	1	...	2	9
7	Portable 2' pumping unit	...	4	5	...	4	13
8	Portable 3' pumping unit	...	4	1	...	11	16
9	Portable 4' pumping unit	...	6	2	...	1	1
10	Portable lighting set	...	1	...	...	1	3
11	Portable generating set 75 KW (Diesel)	...	2	...	...	...	2
12	Portable concrete mixer	...	1	3	...	1	5
13	Sump pump Portable (Pneumatic)	...	1	1	...	2	4
14	Lathe machines	...	4	3	...	3	10
15	Battery charger	...	2	2	...	2	6
16	Radial drilling machine	...	1	1	...	1	3
17	Shaping machine	...	1	1	...	...	2
18	Electric Blower Unit for smithy... shop	...	1	1	...	...	2
19	Hack saw machine	...	1	1	...	...	2
20	Band saw machine	...	...	...	...	1	1
21	Pedestal drilling machine	...	1	1	...	...	2
22	Grinding machine (Bench type)	...	2	2	...	2	6
23	Flexible grinding machine (Portable)	...	1	1	...	1	3
24	Booster Pump (Electric)	...	33	1	...	1	35
25	Hydraulic Testing machine	...	3	...	...	...	3
26	Portable chlorination Plant	...	5	...	...	2	7
27	Pipe-cutting machine	...	8	...	...	2	10
28	Carpentry lathe	...	1	...	...	...	1
29	Multipurpose carpentry machine...	...	1	...	...	...	1
30	Mechanical forge hammer	...	...	1	...	...	1
31	Threading machine (Electrical)	...	2	...	...	...	2
32	Flow Recorder	...	1	1	...	...	1
33	Tool Grinder (Pneumatic)	...	...	...	...	...	1
34	Heavy duty grinder	...	1	...	...	1	1
35	Plate bending machine	...	...	...	...	...	1
36	Power hammer	...	4	1	...	...	1
37	Paving beaker	...	2	...	...	8	12
38	Mechanical Jack hammer	...	2	...	...	...	2
39	File driver	...	1	...	...	...	2
40	Mobile crane	...	1	...	...	...	1
41	Bar bending machine	...	3	...	...	...	1
42	Concrete vibrator	...	1	...	1	...	4
43	Cement gun	...	...	...	...	...	1
44	Petrol driven motor trolleys	...	...	14	...	...	14
45	Diesel rail locomotives	...	...	2	...	...	2
46	Jeep	...	...	1	1	...	2
47	Out board petrol engine for boats	...	...	5	...	...	5
48	Boats for vehar, Powai & Tulsi	...	...	3	...	...	3
49	Diesel drive pumping unit 10 H.P.	...	...	1	...	...	1
50	Pumping unit for V har (40 H.P.)	...	...	1	...	...	1
51	Hydraulic trolley jack 10 ton capacity	...	...	1	...	...	1
52	Hydraulic trolley Jack 5 ton capacity	...	...	2	...	...	2
53	Venturi recorder A. M. Type	...	1	...	...	...	1
54	Venturi meters	...	...	11	...	...	11
55	Pumping Unit diesel for vehar	...	...	2	...	...	2
56	Electric blower for switches	...	...	...	...	1	1
57	Transformer oil fitting equipment	...	...	...	...	1	1
58	Dilectric strength tester	...	...	...	...	1	1
59	500KVA, 22KV/440V power transformer	...	...	...	...	3	3
60	Rock drilling machine (pneumatic)	...	...	...	...	1	1
61	Portable generating set (Petrol) 1.5 K.W.	...	...	1	...	...	1
62	Portable generating set (Diesel) 3 K. W.	...	...	3	...	...	3
63	Time punching machine	...	...	1	...	...	1
64	Well cleaning unit	...	...	...	...	1	1

APPENDIX XIV

Statement showing the details of bursts of mains on 600 mm. (24") and above in City, Subs. and Ext. Subs.

Serial No.	Site	Size of the main	Date
1	Nana Chowk island near Grant Road Bridge	900 mm. (36") M.H.R. inlet main.	22-5-1970
2	Sion-Trombay Road	600 mm. (24)	5-7-1970
3	Hill Road, Bandra (West), near New Talkies	600 mm. (24") Bandra outlet main.	8-8-1970
4	Swami Vivekananda Road, junction Dadyseth Road, opposite Nadyadwalla Colony, Malad (West)	600 mm. (24")	17-11-1970
5	Lal Bahadur Shastri Marg, opp. Bhandup Police Station	600 mm. (24")	29-4-1970

APPENDIX XV-A

List of Municipal Boosting Stations in City, Suburbs and Extended Suburbs.

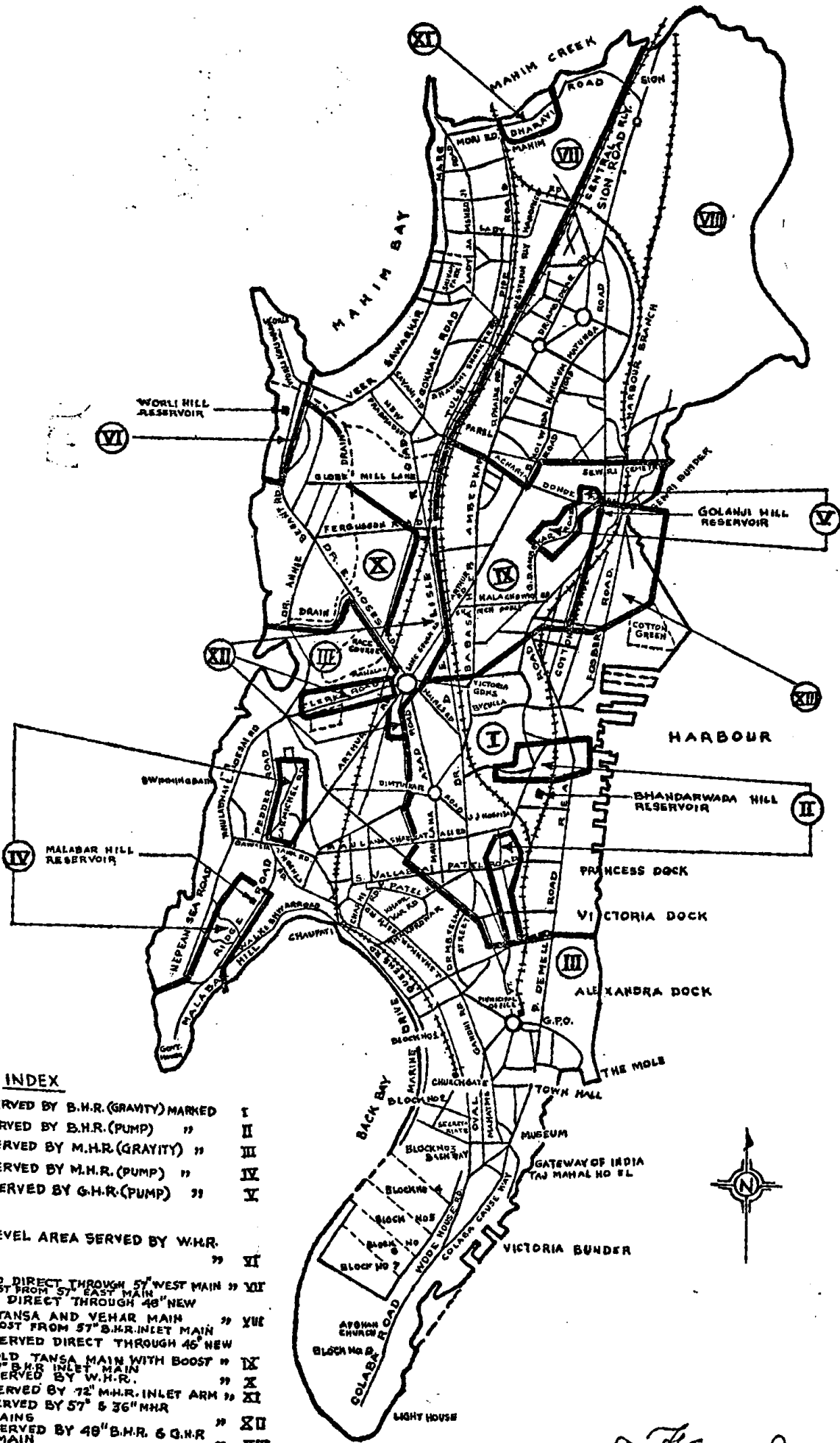
Serial No.	Site	No. of Pumps	Horse Power of Pumps.
1	Worli Koliwada	1	54 H.P. Diesel.
2	Fosbery Road (Near 'L' Shed)	1	75 H.P. Electric.
3	N. M. Joshi Marg	1	100 H.P. Electric.
4	B. D. D. Chawl (N. M. Joshi Marg)	3	25 H.P. Each (Total 175).
5	Hill Road Pumping Station, Bandra	2	40 H.P. Each Electric.
6	Pali Hill Pumping Station Bandra	3	60 H.P. 2 Nos. Electric. 25 H.P. 1 No. Electric.
7	Juhu Vileparle Development Scheme Pumping Station, Juhu.	2	50 H.P. Each Electric.
8	Guzdar Hall pumping Station, Andheri	2	50 H.P. each Electric.
9	Dadabhai Pumping Stn. Versova Rd. Andheri.	2	25 H.P. each Electric.
10	Telly Gully pumping Stn. Andheri	2	25 each Electric.
11	Caves Road Pumping Stn. Jogeshwari	1	40 H.P. Electric.
		1	26 H.P. Electric.
12	Majaswadi Pumping Station, Jogeshwari	1	30 H.P. Electric.
13	Kunj Niwas, Pumping Station, Jogeshwari	1	13 H.P. Electric.
14	Sidharth Nagar Pumping Stn. Goregaon	2	90 H.P. Each Electric.
15	Quarry Road, Pumping Station, Malad	2	25 H.P. Each Electric.
16	Zakeria Road Pumping Station, Malad	2	25 H.P. Each Electric.
17	Pushpa Park Pumping Station, Malad	1	25 H.P. Electric.
18	Sainath Pumping Station, Malad	2	50 H.P. Each Diesel Engine.
19	Malavani Pumping Station, Malad	2	50 H.P. Each Electric.
20	Anik Village Pumping Station, Chembur	2	6 H.P. Each Diesel Engin.
21	Ghatla Pumping Station, Chembur	2	90 H.P. Each Electric.
22	Sindhi Colony Pumping Station, Chembur	3	15 H.P. Nos. Electric. 25 H.O. 1 No. Electric.
23	Janata Colony Pumping Station, Deonar	2	25 H.P. Each Electric.
24	Deonar Pumping Station, Deonar Colony	2	40 H.P. Each Electric.
25	Chunabhatti Pumping Station, Kurla	2	25 H.P. Each Electric.
26	Kurla Market Pumping Station, Kurla	2	25 H.P. Each Electric.
27	Rifle Range Pumping Station, Ghatkopar	2	40 H.P. Each Electric.
28	Barve Nagar Pumping Station, Ghatkopar	2	40 H.P. Each Electric.
29	Parkside Colony, Pumping Station, Vikhroli...	2	40 H.P. Each Electric.

APPENDIX XV B

List of Municipal Bulk Pumping Station in Outside City and Ulhas Divn.

Serial No.	Site	No. of Pumps	Horse Power of Pumps.
1	Vehar Pumping Station	14	210 H.P. 2 Nos. Diesel. 170 H.P. 1 No. Diesel. 135 H.P. 3 Nos. Diesel, 120 H.P. 3 Nos. Diesel, 100 H.P. 2 Nos. Diesel, 80 H.P. 3 Nos. Diesel.
2	Mohone Pump House, Ulhas River	8	250 H.P. Each Electric.
3	Pogaon Pump House	10	250 H.P. Each Electric.

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 46" NEW " VIII
- 9 OLD TANSA AND VEHAR MAIN WITH BOOST FROM 57" B.H.R. INLET MAIN " IX
- 10 AREA SERVED BY 57" B.H.R. INLET MAIN WITH BOOST " X
- 11 AREA SERVED BY 72" M.H.R. INLET ARM " XI
- 12 AREA SERVED BY 57" & 36" M.H.R. INLET MAIN " XII
- 13 AREA SERVED BY 40" B.H.R. & G.H.R. INLET MAIN " XIII

A.E. Survey
A.E. SURVEY 11/6/71

K. Kamal
HYDRAULIC ENGINEER 11/6/71

APPENDIX XVII

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")		60 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	111	12	40	50	24	77	...	6	32	25	26	9	9	...	2	...	...	...	244	179
B	32	17	12	79	2	77	...	9	4	4	...	2	...	...	...	...	...	...	50	181
C	32	41	22	197	10	176	...	16	10	7	5	7	...	1	...	...	...	...	79	445
D	48	33	91	174	40	205	...	30	30	26	6	21	2	...	1	...	...	...	218	494
E	53	46	20	174	15	189	6	15	19	13	3	4	...	...	...	...	...	...	116	441
F/South	48	19	7	64	14	66	6	18	4	8	4	1	...	...	2	...	...	...	85	176
F/North	30	54	13	69	25	62	1	5	4	10	...	4	...	...	...	...	...	...	73	204
G/South	26	25	12	34	25	70	15	21	8	7	3	2	1	...	2	...	1	...	93	159
G/North	38	29	27	90	31	80	22	12	8	4	3	2	...	...	...	...	...	...	129	217
Total for City	418	281	244	924	186	1,002	50	132	119	104	50	52	12	1	7	...	1	...	1,087	2,496
H	224	75	90	3	83	3	21	...	7	3	2	...	1	...	...	...	...	...	428	84
K	205	96	101	1	64	...	...	...	43	...	8	...	1	...	1	...	...	...	424	102
L	99	23	75	3	25	3	...	...	7	1	2	...	1	...	1	...	...	...	210	30
M	158	42	18	2	9	2	...	...	4	...	1	...	2	...	1	...	...	...	201	46
N	127	57	45	4	37	4	5	...	12	...	2	...	...	...	...	...	...	...	228	65
Total for Suburbs	814	293	329	13	218	12	34	...	73	4	15	...	5	...	3	...	...	...	1,491	322
P	89	28	55	...	45	...	...	...	39	...	...	...	3	...	1	...	4	...	236	28
R	58	32	137	1	20	...	...	...	27	...	5	...	...	...	1	...	...	...	248	33
T	17	29	87	2	27	1	3	...	15	...	2	...	...	...	...	...	...	...	251	32
Total for Ex. Suburbs	264	89	279	3	92	1	3	...	81	...	7	...	3	...	2	...	4	...	735	93
Grand Total	1,496	663	852	940	496	1,015	87	132	273	108	72	52	20	1	12	...	5	...	3,313	2,911

APPENDIX XVIII

Statement showing hours of supply in different localities in the 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) Marine Drive, Fort areas, and North of Museum ...	8-30 P.M. to 10-30 P.M.
		(c) Supply to Military area, Colaba ...	8-45 A.M. to 9-30 A.M. (Special Supply)
2	B	(a) Dongri area ...	5-30 P.M. to 7-30 P.M.
		(b) Umerkhadi area including Dr. Maheshwari Road and Valpakhadi Road ...	3-30 A.M. to 7-00 A.M.
		(c) Mohamedali Road, Pydhoni, Immamwada, Abdul Rehman Street, Babula Tank Road ...	8-00 P.M. to 10-30 P.M.
		(d) P. D'Mello Rd. and B. P. T. areas, Clive Rd., Argyle Rd. and other areas East of C. Rly. line ...	5-00 A.M. to 6-45 A.M. and 7-30 P.M. to 8-00 P.M. (low pressure)
3	C	(e) Mandvi ...	8-00 P.M. to 10-15 P.M.
		(a) Kalbadevi, Dhobi-talao, Kharatalao, Market, Fanaswadi, Kumbharwada areas ...	3-00 A.M. to 6-45 A.M.
4	D	(b) Portion of Netaji Subash Road ...	5-00 A.M. to 6-45 A.M.
		(a) Gamdevi, Girgaum, Thakurdwar, Prarthana Samaj, Khetwadi, Tardeo, Maulana Saukatali Road, Naushir Bharucha Marg, Dr. Dadasaheb Bhadkamkar Road, Sukhlaji Street, areas, Gowalia Tank Road upto Terminus ...	8-30 P.M. to 10-30 P.M.
5	E	(b) Hyastack Road, Clerk Road, from Mahalaxmi Bridge to Haji Ali ...	5-00 A.M. to 6-45 A.M.
		(c) Raghaoji Road, Forjet Street, Forjet Hill Road and Gowalia Tank Rd., from terminus upto East of Kemp's Corner ...	4-00 A.M. to 7-00 A.M. and 5-45 P.M. to 7-15 P.M.
		(d) Walkeshwar Road, Sital Baug to Teen Batti ...	5-00 A.M. to 9-30 A.M.
		(e) Walkeshwar Road, Lower Banganga Tank side ...	7-30 A.M. to 1-00 P.M.
		(f) Walkeshwar Road, Upper Banganga, Raj Bhavan ...	4-00 P.M. to 7-00 P.M.
		(g) Mount Pleasant Road, Nepean Road, Little Gibbs Road ...	2-00 P.M. to 4-00 P.M.
		(h) Dongri Road, Harkness Road, Manav Mandir Road and Winter Road ...	9-30 A.M. to 3-30 P.M.
		(i) Ridge Road ...	7-30 A.M. to 1-00 P.M.
		(j) Walkeshwar Rd., Teen Batti to Banganga Terminus ...	7-30 A.M. to 7-00 P.M.
		(k) Altamount Road, South Zone ...	1-00 P.M. to 4-00 P.M.
		(l) Altamount Road, Middle Zone ...	5-00 P.M. to 9-00 P.M.
		(m) Altamount Road, North Zone ...	9-00 P.M. to 11-30 P.M.
		(n) Peddar Rd. and Gowalia Tank Rd., West of Kemp's Corner and part of Hughes Road ...	11-30 P.M. to 1-00 A.M.
		(o) Napean Sea Road, Narayan Dhabolkar Rd. ...	7-00 P.M. to 12-30 A.M.
		(p) Siri Road, Babulnath Road ...	6-30 P.M. to 1-30 A.M.
		(q) Bhulabhai Desai Road ...	5-30 A.M. to 8-30 A.M.
		(r) Carmichael Road ...	7-30 P.M. to 1-30 A.M.
6	F/ South	(a) Kamathipura, Byculla West and Nagpada, Nesbit Rd. and St. Mary Roads areas ...	5-00 P.M. to 12-30 A.M.
		(b) Dr. Ambedkar Road (from Victoria Garden to Byculla Bridge), Chinchpokli area, Arthur Rd., DeLisle Road ...	5-00 A.M. to 6-45 A.M.
		(c) Dr. Ambedkar Road from Victoria Garden towards North boundary of E Ward ...	5-00 A.M. to 6-45 A.M.
		(d) Matharpakhady area ...	4-00 A.M. to 6-45 A.M.
		(e) Belvedere Road, and its cross lane and Kachhi Lohana Chawl along Mazagon Road ...	12-30 P.M. to 3-00 P.M.
		(f) Motishaw Lane and Hathi Baug area ...	3-00 P.M. to 5-30 P.M.
		(g) Reay Road from Jn. Wadi Bunder Road to Matarpakhady Road, D'Lima Street Dockyard Road, Gunpowder Road, Nawab Tank Road areas. ...	3-00 P.M. to 6-30 P.M.
		(h) Remaining areas of Reay Road ...	1-00 P.M. to 3-00 P.M.
		(i) Victoria Road Connought Road, Gurupdeo Road, Sussex Road ...	8-00 P.M. to 10-15 P.M.
		(j) Mount Road ...	8-00 P.M. to 11-30 P.M.
6	F/ South	(a) Suparibag, Lalbaug, Dr. S. S. Rao Road and Kalachowky areas ...	8-00 P.M. to 10-15 P.M.
		(b) Naigaum, Bhoiwada and Sewri-Wadala areas ...	4-00 A.M. to 6-45 A.M.
		(c) Golanji Hill, Parel Back Road and Parel Village (G. H. R. pump-supply) ...	6-45 A.M. to 11-30 A.M.
		(d) Ambedkar Marg (Parel Tank Road) (G. H. Reservoir pump-supply) ...	4-30 P.M. to 7-00 P.M.
		(e) Tokersey Jivraj Road and Sewri Cross Road areas (Vaitarna direct supply) ...	7-45 P.M. to 10-15 P.M.
		(f) Cotton Green (Reay Road) (Direct supply and Pump) ...	4-45 P.M. to 10-00 P.M.
			4-30 P.M. to 8-30 P.M. and 8-30 P.M. to 10-30 P.M.

APPENDIX XVIII—Contd.

Statement showing hours of supply in the different localities in the City, Suburbs and Extended Suburbs.

Serial No.	Ward	Locality	Hours of Supply From To
7	F/ North	(a) Sion-Matunga, Parsi and Hindu colony areas and Antop Hill areas.	6-45 A.M. to 11-30 A.M.
		(b) Antop Hill supply	7-00 A.M. to 11-30 A.M.
8	G/ South	(a) Worli B. D. D. Chawl, Lower Parel, Love Grove and Prabha-devi areas	4-00 P.M. to 7-00 P.M.
		(b) N. M. Joshi Road between junction Sane Guruji Road and Currey Road	4-00 A.M. to 7-00 A.M.
		(c) Worli-Koliwada Pump Supply (Vaitarna direct supply)—	
		(i) High level areas	4-30 P.M. to 9-30 P.M.
		(ii) Low level areas	9-30 P.M. to 11-30 P.M.
			and
			4-00 P.M. to 7-00 P.M. (L.P.)
		(d) Pochkhanavala Road and Khan Abdul Gafarkhan Road areas...	6-30 P.M. to 11-00 P.M.
		(e) BDD Chawls, N. M. Joshi Marg—	
		(i) Masjid Gully and Central Gully	3-00 A.M. to 6-00 A.M. (Pump supply from 4-30 A.M. to 6-00 A.M.)
		(ii) Police-Gully	6-00 A.M. to 8-00 A.M. (Pump supply from 6-00 A.M. to 7-30 A.M.)
		(f) Worli Dairy	24 hours low pressure supply
9	G/ North	(a) Mahim, Shivaji Park and Dadar area West of Western Railway line	1-30 P.M. to 4-00 P.M.
		(b) Areas between Sayani Road and Portugese Church Street...	4-00 P.M. to 7-00 P.M.
		(c) West Dharavi area (direct supply)	
		(i) Jasmine Mill areas Diamand Gas Co. & Municipal Colony	4-30 A.M. to 7-00 P.M.
		(ii) Dharavi up to Kala Killa	6-00 A.M. to 8-30 P.M.
		(d) East Dharavi area	7-00 A.M. to 11-30 A.M.
		(e) Matunga Labour Camp (direct supply)	5-00 A.M. to 11-30 A.M.
10	H	(a) Bandra Hill ;	
		(i) Mount. Mary Road	9-30 P.M. to 1-00 A.M.
		(ii) Society Road	8-00 P.M. to 9-30 P.M. (pump) and 9-30 P.M. to 5-00 P.M. (Direct)
		(b) Palli Hill (Mala Pump)	8-00 P.M. to 1-30 A.M.
		(c) Colonies on East of West Express Highway	7-00 P.M. to 5-00 A.M.
		(d) Rest of H Ward	7-00 P.M. to 5-00 A.M.
		(e) Bullock and Byramji Jeejeebhai Rd. (Pumping from Palli Hill Reservoir)	8-30 A.M. to 12-00 Noon
11	K	(a) Gazadar Hall Pump ;	
		(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 P.M.
		(b) Baptistawadi, Mapla Dongari and East of Exp. Highway, off Parsi Punchayet Road and Shankarwadi, Andheri (East) (direct supply), and elevated areas of Gundivali Village	9-30 A.M. to 3-30 P.M. (Direct from Parla Outlet.)
		(c) Caves Road Pump ;— (East Main Supply).	
		(i) H. F. Society, Jogeshwari (East)	8-00 A.M. to 1-00 P.M.
		(ii) Hardevibai Society, Caves Road, Jogeshwari East	1-00 P.M. to 3-00 P.M. (pump) (10-00 A.M. to 1-00 P.M. Direct supply).
		(d) Majas Pump ; (East Main Supply).	
		(i) Majas Gumpha Tekadi, Pratap-nagar, etc. Jogeshwari East	12-30 P.M. to 5-00 A.M. (Pump supply).
		(ii) Squatters' Colony Meghwadi and Shyam Nagar, Jogeshwari (East)	5-00 P.M. to 9-30 P.M.
		(e) Kunj Niwas Pump (Supply)	2-00 P.M. to 5-00 A.M. (Direct)
		Sahakar Road, Jogeshwari West	8-00 A.M. to 11-30 P.M. (Pump)
		(f) Dadabhai Road Pump (Supply).	
		Dadabhai Road and part of Gilbert Hill, (Andheri West)	3-00 P.M. to 5-00 P.M. (Pump) 2-00 P.M. to 3-00 P.M. and 5-00 P.M. to 5-00 A.M. (Direct.)

APPENDIX XVIII—Contd.

Statement showing hours of supply in the different localities in the City, Suburbs and Extended Suburbs.

Serial Ward No.	Locality	Hours of Supply
	(g) Mahakali (Veravali H. L. Reservoir Supply) Mahakali Road ...	5-00 P.M. to 7-30 P.M.
	(h) Telly Gully Pump. (W. M. Supply). Telly Gully, Gundavli Village, etc., Andheri (East) ...	2-00 P. M. to 5-00 A.M. (Direct). 5-30 P.M. to 9-30 P.M. (Pump).
	(i) J. V. D. S. Pump :	
	I—From Juhu Hotel to Juhu Reservoir except J. V. D. S. ...	2-00 P.M. to 5-00 P.M.
	II—Gandhigramareas (Proper Juhu) ...	2-00 P.M. to 7-30 A.M. 2-00 P.M. to 5-00 A.M. (Direct). 2-00 P.M. to 3-30 P.M. (Pump).
	(j) Swami Vivekanand Road from Andheri Naka Sahakar Road, Amboli, Mogra (West) (18" Salsette Main Supply) ...	2-00 P.M. to 5-00 P.M.
	(k) Swami Vivekanand Road from Sahakar Road to Oshivara Bridge, Jogeshwari (West) (18" Salsette Main Supply) ...	24 Hours.
	(l) Swami Vivekanand Road from V. P. Road to Irla Bridge and Juhu Lane Andheri (West) (18" Salsette Main Supply) ...	24 Hours.
	(m) (i) Kajuwadi Andheri (East) ...	24 Hours.
	(ii) Mahakali Road upto Holy Spirit Hospital, (Andheri East) ...	5-00 A.M. to 4-00 P. M.
	(n) Station Road, Jogeshwari (West) and Subhsh Nagar, Jogeshwari (East) (18" Salsette Main Supply) ...	24 Hours.
	(o) Kol Dongri, Andheri (East) (18" Salsette Main Supply) ...	2-00 P.M. to 5-00 A. M.
	(p) Four Bunglow, Seven Bunglow and entire Versova Village (W. M. Supply).	12-00 Noon to 5-00 A.M.
	(q) Marol—Maroshi Road, Marol, Marol Village, Andheri (East) East of pipe lines (W.M. Supply)	6-30 P.M. to 5-00 A.M.
	(r) Entire Sahar Village, Andheri (East), (W.M. Supply) ...	6-30 P.M. to 5-00 A.M.
	(s) Remaining are as of 'K' Ward ...	2-00 P.M. to 5-00 A.M.
12	L (a) All the areas in the Ward ...	4-00 A.M. to 11-30 A.M.
13	M (a) Ghatla Pump Supply :	
	(i) Portion situated to the East of Agar Wadi, etc., Payli Pada and Cheetah Camp ...	1-00 A.M. to 7-00 A.M.
	(ii) Portion west of Agarwadi i. e. Janata Colony, Deonar Municipal Colony, etc., and including the Koliwada-Borla Road area ...	7-00 A.M. to 12-00 Noon
	(b) Along 36" Refinery main from Kumbharwada upto Atomic Energy Department ...	24 Hours.
	(c) Along 36" Refinery main from Bridge to Atomic Energy (Vehar Supply) ...	4-00 A.M. to 12-00 Noon
	(d) Colony along Trunk mains (Colonies in 'N' Ward also) ...	4-00 A.M. to 11-00 A.M.
	(e) Rest of the areas in M Ward ...	12-00 M.N. to 12-00 Noon and 3-15 P.M. to 12-00 P.M.
	(f) Chembur Colony Kantiwala B Road behind Police Station suction tank and pump (15 h.p.—3 nos).	8-00 A.M. to 12-00 Noon and 3-15 P.M. to 5-00 P.M.
14	N (a) Ghatkopar (North of Sarvodaya Hospital) Vikhroli and Bhandup ...	1-00 P.M. to 4-00 A.M.
	(b) Ghatkopar (South of W. W. Yard) ...	4-00 A.M. to 11-30 A. M.
	(c) Remaining Ghatkopar areas ...	3-00 A.M. to 11-00 A. M.
	(d) Barve Nagar, Bhatwadi :	
	(i) A, B, C, H, J & K—Quarters ...	4 00 A.M. to 7-30 A.M. and 4-00 P.M. to 7-15 P.M.
	(ii) D, E and F—Quarters ...	7-30 A.M. to 11-00 A.M. and 7-15 P.M. to 11-30 P.M.
	(e) Rifle Range ...	2-30 P.M. to 8-00 P.M.

APPENDIX XVIII—Concl'd.

Statement showing hours of supply in the different localities in the City, Suburbs and Extended Suburbs.

Serial Ward No.	Locality	Hours of Supply
	(f) Park Site Colony, Vikhroli :	
	(i) Ground floor structures :	... 12-00 Mid-night to 1-30 A.M. 4-00 A.M. to 5-00 A.M. 6-00 A.M. to 7-00 A.M. and 8-00 P.M. to 10-00 P.M.
	(ii) Ground floor, Two Upper Floor Buildings	... 3-00 A.M. to 4-00 A.M. ... 5-00 A.M. to 6-00 A.M. and 10-00 P.M. to 12-00 Mid-night
	(g) Tagor Nagar and Kannamwar Marg (Vikhroli-East)	... 8-00 P.M. to 4-00 A.M. (H.P.) and 4-00 A.M. to 10-00 A.M. (L.P.)
	(h) Areas between Kanjur-nagar Sarvodaya Hospital along Lal Bahadur Shastri Marg, including Pant Nagar.	... 2-00 P.M. to 4-00 A.M.
15	P	
	(a) Goregaon (West) :	
	(i) Jawahar Nagar	... 4-30 A.M. to 8-00 A.M.
	(ii) Motilal Nagar and Shastri Nagar	... 4-00 A.M. to 5-30 A.M. (Pump and direct supply upto 8 A.M.)
	(iii) Sidharth Nagar	... 4-30 A.M. to 8-00 A.M.
	(iv) Area of Goregaon (West) situated to the South of Station Road, Goregaon upto Oshivara Bridage, including Aarey Road (West), and Uhnat Nagar—Suction Tank supply.	... 4-30 A.M. to 8-00 A.M.
	(v) Goregaon (West) to the North of Aarey Road, (West) upto Kilachand Road excluding Madh-Marve Road, and including Mahatma Gandhi Road, Goregaon (West) except Unnat Nagar—Suction Tank supply.	... 7-30 P.M. to 12-30 P.M. ... 7-30 P.M. to 11-30 P.M.
	Malad West (Except Marve Road)	... 7-30 P.M. to 11-30 P.M.
	Malad (East) :	
	(a) Dattamandir Road, Bandongri (Sainath Pump)	... 8-00 P.M. to 11-30 P.M. (Pump).
	(b) Daftary Road, Pushpa Park	... 3-00 P.M. to 6-00 P.M.
	(c) Kurar Village, Dhanjiwadi and Khotwa areas.	... 11-00 A.M. to 4-00 P.M.
	Tulsi Supply :	
	(a) Goregaon (East)	... 6-30 A.M. to 11-00 A.M.
	(b) Quarry Road	... 11-00 A.M. to 4-00 P.M.
	(c) Aarey Colony	... 3-00 A.M. to 6-30 A.M.
	(d) Hajibapu Road, Nevatia Road, (Malad East) and Ghas Bazar, Goregaon East	... 4-00 P.M. to 2-30 A.M.
	(e) Orlem, Malvani, localities along Madh-Marve Road in Malad (West) upto Malavani Pump House.	... 4-30 P.M. to 11-00 P.M.
	(f) I. N. S. 'HAMALA', Erengal, Madh Island and properties West of Malavani Pump House.	... 11-00 P.M. to 3-00 A.M.
16	R	
	(a) Areas along S. V. Road, North of Borivli Rly. level crossing including Dahisar and Bhayandar and excluding Jai Hind Colony and Daulat Nagar.	... 4-30 P.M. to 7-00 P.M.
	(b) Borivli (East and West) to South of Borivli Railway level crossing and portion of Kandivli (West) upto North of Kilachand Road.	... 4-30 P.M. to 7-30 P.M.
	(c) Area on S. V. Road, South of Kilachand Road Kandivli (East) including Kilachand Road.	... 7-30 P.M. to 11-30 P.M.
17	T	
	(a) Mulund Colony	... 6-00 A.M. to 11-00 A.M. and 2-00 P.M. to 5-00 P.M.
	(b) From Hoechst Pharmaceuticals Ltd., towards North along Lal Bahadur Shastri Marg upto Check Naka and Mulund Town, both East and West of Railway Lines	... 2-30 A.M. to 10-30 A.M. (H. P.) and 10-30 A.M. to 2-30 A.M. (L.P.)
	(c) From May and Baker towards North along Lal Bahadur Shastri Marg upto Hoeschst Pharmaceuticals Ltd. including Bhandup Village and part of Kanjur Village	... 6-00 P.M. to 5-00 A.M.

APPENDIX XIX

Statement showing short supply complaints in the City (for the last 15 years.)

Months	1956-57	1957-58	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
April ...	1,549	1,320	316	231	255	455	1,277	1,487	4,471	3772	3,196	3,515	4,034	4,315	5,208
May ...	1,777	1,521	242	596	300	592	1,493	1,683	4,369	3822	3,419	3,154	3,910	3,704	4,327
June ...	1,423	3,159	187	596	258	786	1,549	1,602	4,879	3241	3,622	3,503	5,003	4,084	4,307
July ...	1,136	2,089	242	436	234	620	1,433	1,335	4,338	3155	3,660	2,885	4,182	3,292	3,496
August	980	440	224	305	409	452	1,295	1,130	3,750	3024	3,271	3,437	3,326	3,400	2,500
Sept. ...	852	759	246	308	448	663	1,199	1,194	3,666	3076	3,138	3,197	3,638	3,473	3,626
Oct. ...	971	1,572	235	275	505	831	1,616	1,351	4,064	3143	3,342	3,316	3,348	3,650	3,581
Nov. ...	968	683	222	271	508	899	1,376	1,342	3,850	3492	3,283	3,253	3,823	3,329	6,651
Dec. ...	970	1,076	192	345	617	865	1,282	1,479	3,915	3432	3,308	2,913	3,183	3,691	2,925
Jan. ...	1,016	572	242	243	634	665	1,463	1,700	3,983	3108	2,946	3,300	3,079	3,365	2,892
Feb. ...	998	916	179	108	670	816	1,722	1,360	3,574	3245	2,527	2,768	2,967	3,636	2,824
March	954	824	264	239	531	1,013	1,576	1,309	4,127	4008	2,964	3,525	4,380	3,626	3,365
Total ...	13,534	14,938	2,791	4,053	5,369	8,657	17,281	16,973	48,986	40,458	38,676	38,266	44,873	44,858	45,662

APPENDIX XIX-A

Short Supply Complaints in Suburbs & Extended Suburbs.

Month	1968-69		1969-70		1970-71	
	Suburbs	Extended Suburbs.	Suburbs	Extended Suburbs.	Suburbs	Extended Suburbs.
April ...	897	377	737	210	1,163	142
May ...	846	312	626	223	1,083	118
June ...	1,136	333	923	278	979	144
July ...	913	388	753	195	948	128
August ...	950	321	740	239	755	92
September ...	771	390	737	214	719	99
October ...	752	353	728	258	1,001	180
November ...	831	399	614	180	882	31
December ...	763	480	750	194	865	50
January ...	847	396	686	175	1,114	64
February ...	742	259	565	114	727	68
March ...	1,081	338	656	230	1,171	64
TOTAL ...	10,528	4,346	8,515	2,599	11,412	1,280

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 1-4-1970	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 31-3-1971
1	A	Municipal	1,926	1,728	152	34	...	...	2,044
		Private	692	287	37	31	15	...	698
2	B	Municipal	602	256	24	8	...	...	620
		Private	232	29	15	2	7	2	242
3	C	Municipal	1,092	493	45	2	...	...	1,131
		Private	268	59	34	...	1	...	302
4	D	Municipal	3,303	2,326	163	30	...	...	3,533
		Private	1,085	224	55	5	25	4	1,038
5	E	Municipal	1,565	951	90	3	...	...	1,631
		Private	753	183	26	...	4	...	736
6	F/S	Municipal	1,145	...	29	...	...	...	1,204
		Private	375	...	7	8	10	...	354
7	F/N	Municipal	1,404	869	54	11	...	...	1,469
		Private	1,048	282	11	17	93	...	1,042
8	G/S	Municipal	966	704	22	...	...	...	946
		Private	452	132	6	...	17	...	453
9	G/N	Municipal	1,497	575	81	13	...	...	1,582
		Private	1,053	11	47	197	20	11	1,102
Total for City		Municipal	13,500	7,902	660	101	189	17	14,160
		Private	5,958	1,207	238	260	...	...	5,967
		Total	19,458	9,109	898	361	189	17	20,127
10	H	Municipal	4,887	1,623	75	3	...	...	4,959
		Private	5,816	755	349	42	...	...	6,123
11	K	Municipal	3,717	1,942	13	11	...	...	3,719
		Private	5,107	1,427	412	74	...	...	2,603
12	L	Municipal	2,312	1,359	127	5	...	...	2,503
		Private	1,497	528	81	...	...	...	1,498
13	M	Municipal	1,383	8	148	647	201	46	1,949
		Private	1,898	1	51	546	...	...	3,482
14	N	Municipal	1,144	704	146	4	...	...	1,285
		Private	1,891	674	82	3	...	...	1,970
Total for Suburbs		Municipal	13,443	5,636	509	670	201	46	14,416
		Private	16,209	3,385	975	665	...	...	15,676
		Total	25,652	9,021	1,484	1,335	201	46	30,092
15	P	Municipal	1,552	668	69	14	...	...	2,106
		Private	2,839	575	167	...	...	...	2,513
16	R	Municipal	1,303	510	74	...	178	...	1,505
		Private	2,334	466	104	...	...	...	2,310
17	T	Municipal	757	450	59	...	...	...	813
		Private	2,415	...	73	469	...	...	2,485
Total for Ext. Suburbs.		Municipal	3,612	1,628	202	14	178	...	4,424
		Private	7,588	1,041	344	469	...	...	7,308
		Total	11,200	2,669	546	483	178	...	11,732
Grand Total :		Municipal	30,555	15,165	1,371	785	568	63	33,000
		Private	29,755	5,633	1,557	1,394	...	...	28,951
		Total	60,310	20,799	2,926	2,179	568	63	61,951

APPENDIX XXI

Details of the Works carried out by construction Division in City Suburbs and Extended Suburbs
(Main of sizes 80 mm. (3") and above)

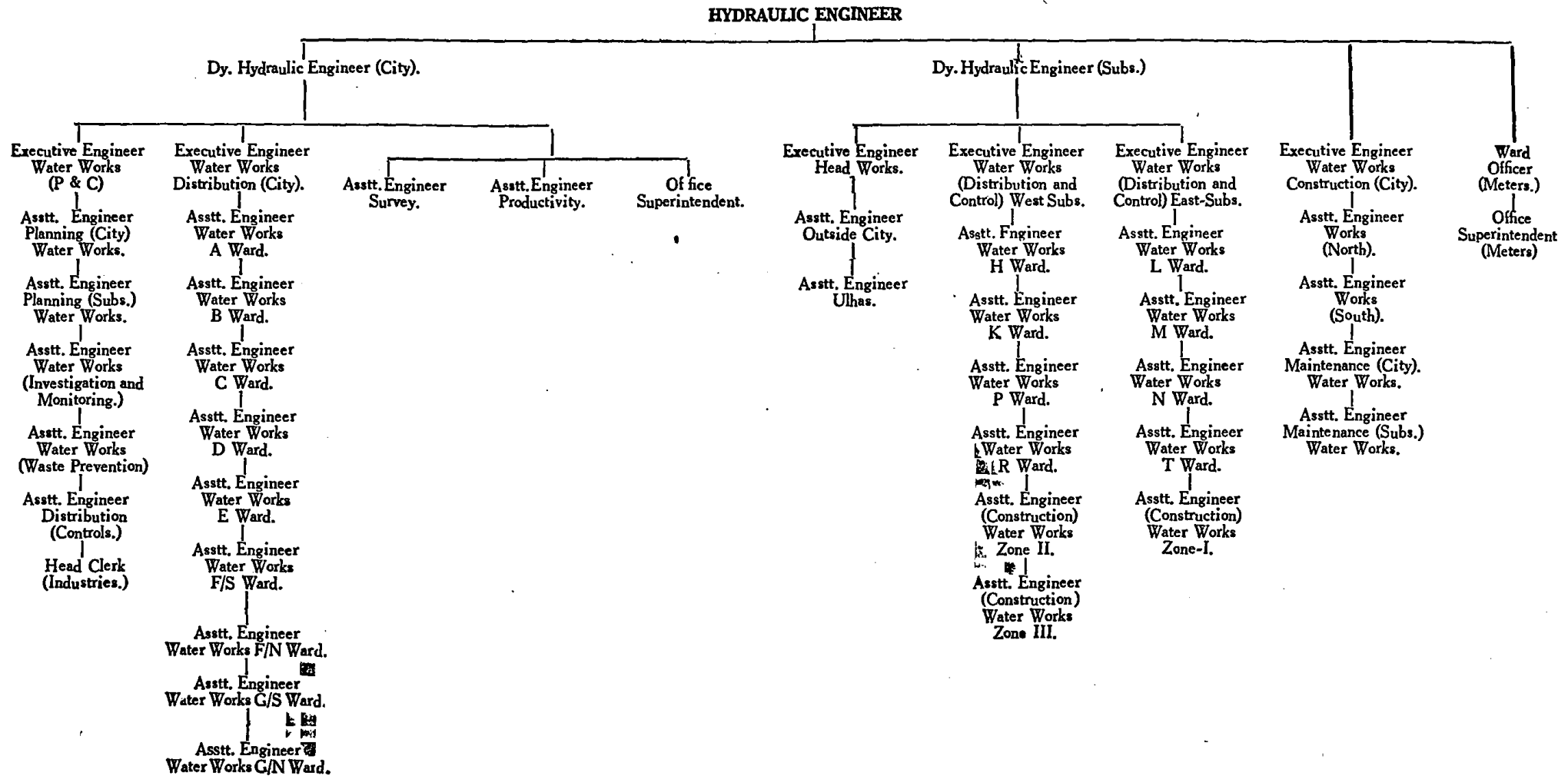
Size of pipes	CITY		SUBURBS		EXTENDED SUBURBS		TOTAL	
	Metres	Feet	Metres	Feet	Metres	Feet	Metres	Feet
80 mm. (3") ...	1,025	3,362	4,493	14,741	15	50	5,533	18,153
100 mm. (4") ...	1,536	5,040	3,266	10,715	3,813	12,510	8,615	28,265
150 mm. (6") ...	4,854	15,925	48,767	159,997	7,228	23,711	60,849	1,99,633
200 mm. (8") ...	...	...	...	...	...	...	...	...
250 mm. (9") ...	5,131	16,834	10,904	35,774	2,683	8,805	18,718	61,413
300 mm. (12") ...	790	2,592	16,089	52,785	3,386	11,110	20,265	66,487
400 mm. (15") ...	...	...	...	...	...	...	...	...
450 mm. (18") ...	720	2,362	1,247	4,091	15	50	1,982	6,503
600 mm. (24") ...	777	2,549	...	...	...	...	777	2,549
750 mm. (30") ...	576	1,890	...	...	...	...	576	1,890
900 mm. (36") ...	4	13	...	...	...	...	4	13
Total ...	15,413	50,557	84,766	2,78,103	17,140	56,236	1,17,319	3,84,806
		Rs.		Rs.		Rs.		Rs.
Cost of Scheduled works carried out (Departmentally and by contract)	18,68,856	...	26,55,354	15,40,685	60,64,935			
Cost of non-scheduled works carried out	14,58,333	...	4,17,531	1,22,008	19,97,872			
Total cost of the works carried out	33,27,189		30,72,925	16,62,693	80,62,807			

APPENDIX XXII

Details of stand pipes in City, Suburbs and Extended Suburbs.

Serial No.	WARD	No. of existing stand pipes on 1-4-1969.	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 31-3-1970.
1	A	...	3	...	3
2	B	...	...	...	...
3	C	...	...	...	...
4	D	...	1	2	3
5	E	...	...	...	...
6	F/S	...	66	2	61
7	F/N	...	43	27	70
8	G/S	...	36	...	36
9	G/N	...	80	20	100
	CITY TOTAL	...	229	51	273
10	H	...	479	49	528
11	K	...	657	28	684
12	L	...	267	24	281
13	M	...	123	3	117
14	N	...	328	71	399
	SUBURBS TOTAL	...	1,854	175	2,009
15	P	...	116	8	124
16	R	...	18	...	18
17	T	...	301	12	313
	EXTD. SUBS. TOTAL	...	435	20	455

APPENDIX XXIII
ORGANISATION CHART OF HYDRAULIC ENGINEER'S DEPARTMENT



BOMBAY FIRE BRIGADE

Shri S. Fredilis was in charge of the department during the year under report.

Fire Stations—

The total number of Fire Stations was 11 in City and 3 in Suburbs.

Fire Appliances and Equipments—

1	Motor Turn Table Ladder—								
	(a) of 100 feet extension with pump	...	...	...	...	...	...	...	2 Nos.
	(b) of 125 feet extension with pump	...	...	...	...	...	...	...	2 Nos.
2	Motor Pumps :—								
	(a) with Escapes of 50 to 60 feet Extension	...	...	...	...	...	...	...	21 Nos.
	(b) with Extension Ladders of 35 feet extension	...	...	...	...	...	...	...	14 Nos.
3	Fire Tenders with Extension Ladder	...	...	...	...	...	...	...	4 Nos.
4	Motor Emergency Tender with Special Gears	...	...	...	...	...	...	...	2 Nos.
5	Motor Emergency Tender-cum-Fire Tender	...	...	...	...	...	...	...	1 No.
6	Air Crash Tender with Special Gears	...	...	...	...	...	...	...	1 No.
7	Trailer Pump—								
	(a) Medium Type	...	...	...	...	...	...	...	13 Nos.
	(b) Light Type	...	...	...	...	...	...	...	2 Nos.
8	Water Tankers (7,200 litres capacity of each)	...	...	...	...	...	...	...	4 Nos.
9	Hose Laying Lorry-cum-Canteen Van	...	...	...	...	...	...	...	1 No.
10	Control Post Van	...	...	...	...	...	...	...	1 No.
11	Motor Ambulances	...	...	...	...	...	...	...	13 Nos.
12	Other vehicles	...	...	...	...	...	...	...	20 Nos.
13	Scooters	...	...	...	...	...	...	...	5 Nos.
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)	...	...	...	...	...	...	...	26,822 Metres.
17	Gas Masks of various types	...	...	...	...	...	...	...	18 Nos.

Out of the above appliances and equipments the following were purchased during the year 1970-71.

(1) Other vehicles (Station Wagon) 1 No.

Communications—

(A) Telephones—

In the year 1963-64 the six Emergency lines of the Brigade were split up as under t—

(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 exist 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 Telephony Sets (5 Static Sets, 38 Mobile Sets and 10 Walkie-Talkie Sets actually in use and 2 spare Welkie-Talkie Sets during the year under report.

(C) Fire Alarms—

The total number of Fire Alarms was 213 including 28 private ones.

Calls—

The Brigade responded to a total number of calls as shown below with comparative figures of the previous year.

	1970-71	1969-70	Difference
Total Calls	3,920	3,246	674 Increase
Actual Fires	2,124	1,747	377 "
Actual House Collapses	371	206	165 "
Rescue Services	429	359	70 "
Other Services	361	243	118 "
False Calls—			
Defective calls due to defects in Fire Alarm system	172	235	63 Decrease
Good Intent Calls	78	53	25 Increase
Malicious Calls	385	403	18 Decrease

Outside City Limit calls—

There were six such calls during the year.

Serious Fires—

There were 22 serious fires during the year (*vide* Appendix I).

House Collapse—

The Brigade attended calls to 371 fallen buildings as against 206 in the previous year. 29 persons lost their lives and 169 persons were injured. The figures of last 4 years are given below :—

	1966-67	1967-68	1968-69	1969-70	1970-71
House Collapse	179	256	182	206	371
Deaths	4	57	11	23	29
Injuries	108	79	105	124	169

Some serious House Collapses are mentioned in Appendix VI.

Other Services—

There were 361 calls for other services which included leakage of poisonous gases and dangerous fumes spilling of acids, falling of trees, shocks, due to leakage of electricity, vehicle accidents, etc., 40 persons lost their lives in such accidents and 149 persons received injuries.

Rescue Service—

The Brigade attended 429 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. 185 persons died in such cases and 204 were injured. Majority of deaths (147) were by drowning. The Brigade also rescued 109 animals and birds.

Burning Casualties—

There were 365 casualties due to fire out of which 47 lost their lives (17 males and 30 females). 318 persons received burns and subsequently recovered. Out of the total deaths, 28 cases (22 females and 6 males) were of suicide.

Fire Loss—

The total loss due to fires was approximately Rs. 5,89,96,893. out of this, the damage to the insured property was Rs. 3,99,17,794. The total property involved was worth Rs. 5,24,04,31,581.

Water Supply—

The approximate quantity of water used for extinguishing fires was about 1,34,81,057 litres. Out of which 1,15,13,992 litres were drawn from Municipal mains and rest from sea, wells ponds, etc.

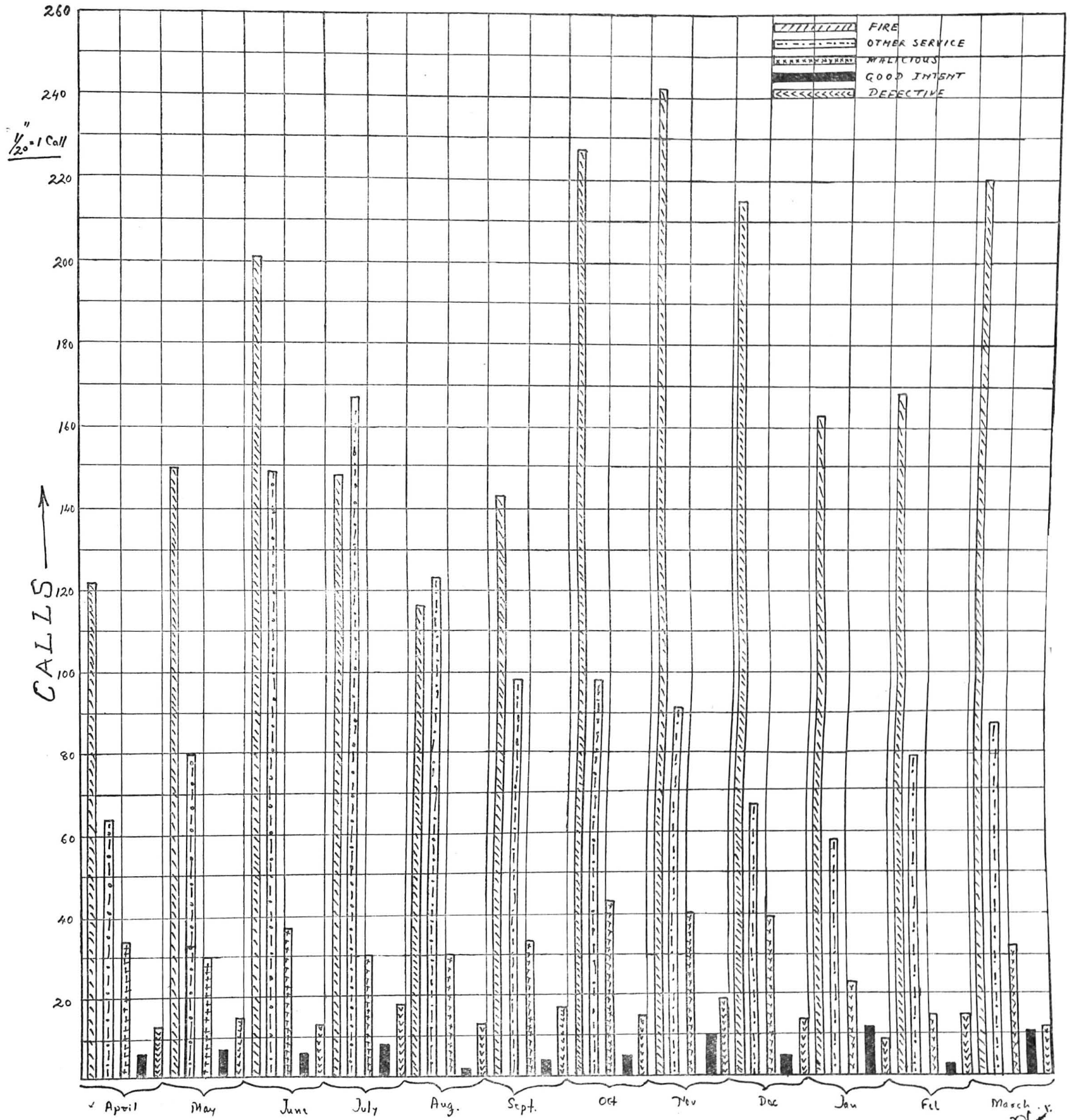
Hydrants—

The number of hydrants for City and Suburbs was 10,198.

Fire Prevention—

During the year under report 8333 cases were received as against 8213 in the previous year. Out of these 8002 cases were disposed of. The cases received included 6650 cases from Municipal Departments like Licence, Factory and Health, 480 cases for "No Objection Certificates" for buildings, 236 cases for "No Objection Certificates" for public entertainments, 120 cases for "No Objection Certificates" required by Commissioner of Police, Inspector of Explosives and Controller of Drugs, 290 cases of complaints and 316 miscellaneous cases including reminders.

CHART SHOWING NO. OF CALLS DURING 1970-71



OTHER ACTIVITIES

(1) Celebration of Fire Services Week :—

The Bombay Fire Brigade in co ordination with other Fire Services of the city celebrated the Fire Services Week from 8th April 1970 to 14th April 1970.

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 of Fire Services personnel by selling flags to the public on 14th April 1971. The most remarkable function of the week was the Prayer Meeting at Fire Brigade Head quarters in presence of Shri P. G. Kher, Hon'ble Minister for Urban Development, 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 :—

The Fire Brigade personnel participated in the ceremonial parade route march along with Defence and other services on 26th January 1971. The Fire Brigade personnel also participated in the Maharashtra Day parade on 1st May 1970.

(3) Annual Drill Competitions :—

As usual annual Drill Competitions were held. During the year, Competitions were held in (i) Fire Trailer Pump Drill and (ii) Extension Ladder and Motor Pump Drill. 33 teams from different Fire Stations participated. The finals were held on 19th January 1971 at Fire Brigade Headquarters. Shri R. G. Gulgule, Dy. Municipal Commissioner, presided over the occasion and distributed the prizes to the winning teams.

(4) Awards and Prizes :—

The award of Best Fireman of the year (cash prize of Rs. 100) was presented to Leading Fireman Appa Bhagwan Sarmalkar.

(5) Awards of Scholarships to Children of Brigade Employees :—

As in previous years during 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. 50 applications for the scholarship were received. Out of the above 28 applications, as per merits were considered for grant of scholarship as maximum number of scholarships was 28. The scholarships were distributed on 12th September 1970 and 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, has been deputed to Dubai Municipality as Assistant Fire Officer from 1st October 1970 for a period of one year.

(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.

(8) Vocational Service Award :—

Shri Narayan Dewji Tawde, Driver Operator, was selected for the Vocational Service Award of the Rotary Club of Bombay.

AMBULANCE SERVICE

The Ambulance Service attended calls as given below :—

Accidents	...	...	...	...	...	1,070
Maternity	...	...	...	...	...	686
Hire	...	...	...	...	...	4,886
Free Poor cases	...	...	...	...	...	20
						6,662

In all 6,330 persons were removed in Ambulances. First aid rendered on 184 occasions. The total receipts during the year on account of hire cases amounted to Rs. 53,096 including arrears as against Rs. 52,310 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 26,35,498.

S. FREDILIS
Chief Fire Officer.

APPENDIX No. I.
BOMBAY FIRE BRIGADE

Brief details of serious fires during the year 1970-71.

Date and Time.	Place	Business	Extinguished by	Description of Damage	Estimated Damage (Rs.)
1	2	3	5	5	6
1-5-1970 11-44 hours	920, Babula Tank Road, Noorbaug Naka.	Pulverising mills godown, stone cutting and resi- dential etc.	Firemen with two First-aid applian- ces and 11 Motor pumps.	Large quantity of scrap metal, cotton waste, gunny bags and rags, auto- batteries, battery ancillaries, old serviceable motor tubes, tyres, small quantity and medicinal articles, some small machineries, furniture, office records, electrical installation and household articles along with entire ground floored C. I. sheet structure seriously damaged by fire, heat, smoke and water.	1,54,000
13-5-1970 21:13 hours	Chhatrapati Shivaji Kutir Mandal, Lal Bahadur Shastri Marg, Kurla.	Dealers in lubricat- ing oils, old clothes and rags, cattle feed & manu- facturing plywood.	Firemen with seven lines of seven motor pumps.	Large stock of ply wood, rexine, old military uniforms, rain-coats, old clothes with tarpauline, large quan- tity of lubricating oil, coconut oil, empty drums, motor spare parts, one motor fire engine of Tata Mercedes, 100 bags of cattle feed, five cement bags, etc., severely damaged in eight sheds housed in a ground floored timber framed C. I. sheet partition wall with C. I. sheet roof structure area 30×24 metres (used as shops and dwellings).	1,17,100
9-6-1970 02-49 hours	36/38, Tank Pakhadi Street, Suleman Bros. Compound.	Bleaching & Dyeing Works, Flour Mills, metal scrap and charcoal shop, etc.	Firemen with five lines from four motor pumps.	About 100 bales of cotton yarn, loose cotton yarn, chemicals and dyes in drums, scrap metal, wooden boxes, charcoals, large quantity of fluo- rescent tube lights, tube holders, elec- tric motors and fans, gunny bags containing flour and seeds, cigarette boxes, household articles, etc., severely damaged in a ground floored, timber framed C. I. sheet structure area 80×40 metres.	1,45,000
16-6-1970 10-42 hours	Jawahar Dal & Flour Mills Compound, Ganapati Baug, To- kersi Jivraj Road, Sewree	Clearing agents, Lu- bricating Oil Dis- tributors, Manu- facturing tools, steel fabrication godown, etc.	Firemen with 8 jets, and six motor pumps.	Nearly 300 H. T. electric cable drums, large quantity of sodium hydro- sulphide, fertilizer, Rangolite about 1963 Cartoon, 325 drums lubricating oil and grease, machineries like hydraulic press machine, 2 lathe and drill machines and electric motors, compressors machine, hand sheering machine, 1 break press, 1 hydraulic press yarn, beam, wire severely damaged by fire, heat, smoke and water in a ground floored, brick walled and timber framed structure and C. I. sheet roof about 150×150 metres (used as godown).	40,47,470
12-7-1970 01-03 hours	Lavji Bhimji Chawl, Kuttiwadi, Dharavi Road.	Manufacturing lea- ther and plastic articles, exporters of animal products.	Firemen with six motor pumps.	Large stock of dried animal's, guts, bla- dders in bales, three manually opera- ted presses, office record and furni- ture, stock of fibre glass reinforced plastic rolls, loose and in cases, elec- tric fittings, etc., severely and few machinery slightly damaged by fire, heat, smoke and water. Woolen columns, beams, trusses, tiled roof, doors and windows, wall plaster, etc. of a ground floored structure severely damaged by fire, heat, smoke and water (used as factories, godowns and dwellings etc.)	2,55,000
13-7-1970 05-12 hours	Messrs. J. B. A. Print- ing Inks (Pvt.) Ltd., L. B. S. Marg, Bhan- dup.	Factory and Stores.	Firemen with five lines of four pumps.	Laboratory chemicals, ink and warnish, samples, instruments, two ink mix- tures, furniture, etc., from the labo- ratory, office files, records and furni- ture, electric installation, fans, of the office severely damaged by fire, heat, smoke and water. Windows, doors, ceiling and wooden partition also severely damaged by fire, heat, smoke and water on first floor of a two floored R. C. C. building (Used as factory, office and laboratory).	1,15,000
17-10-1970 02-13 hours	Laxmi Niwas Building, Mahatma Gandhi Road, Ghatkopar.	Cloth Shop.	Firemen with four lines of four motor pumps and one first-aid.	Large stock of cloth (such as cotton, terry-cotton, terylene, nylon and nylon series), hosiery articles in card board boxes, show cases, furniture, false ceiling, electric installation and fans etc., in the cloth shop housed in a room area about 13×7 metres in a ground floored of a five floored R.C.C. building (used as shops and dwellings only).	1,30,500

APPENDIX No. I—Contd.

Date and Time	Place	Business	Extinguished by	Damage	Estimated Damage
(1)	(2)	(3)	(4)	(5)	(6)
					Rs.
30-10-1970 06-57 hours	Mahalaxmi Industrial Estate, Drainage Channel Road, Worli, Bombay 13.	Readymade shirts manufacturing.	Firemen with three Motor Pumps.	Machineries like 26 sewing and 2 fusing pressing machines, one collar and two collar turning machine, 4 cutting machines, 44 electric irons, large stock of raw and finished materials, spare parts, electric fans, tube lights, electric installation and furniture etc., severely damaged by fire, heat, smoke and water, (2) Wooden door, windows and paint work of a four floored R. C. C. structure also severely damaged by fire heat smoke and water.	3,15,000
30-10-1970 11-22 hours	Messrs. Bright Brothers, 35, 'C' Tardeo Road.	Storage of plastic articles.	Firemen with seven (1) motor pumps.	Large stock of various types of plastic articles severely damaged by fire, heat, smoke and water., (2) Part of the roof severely damaged by fire, heat, smoke, water and breakage of a ground floored brick walled timber framed tiled roof structure of about 80×10 metres (used as offices and godowns).	3,10,000
28-10-1970 00-28 hours	Bail Bazar, Bharat Coal Compound, Kurla.	Manufacturing dyes, light fixtures & godown.	Firemen with five A lines of three pumps	reaction kettle, oven, filter press, large stock of drums containing raw material, gunny bags containing iron oxide black severely and lighting fixtures and packing material slightly damaged by fire, heat, smoke and water. Electric installation, wooden loft, doors, windows, portion of wooden roof also severely damaged.	1,43,500
8-12-1970 17-47 hours	Himanshurai Road, Dadi Seth Road Junction, Bombay Talkies Compound.	Mechanical work-shop, manufacturing bakelite goods, metal toys, etc.	Fireman with 7 engines lines of 7 motor pumps.	Moulding machines and metal parts, dyes, tin plates, finished and unfinished goods, 148 power loom machines, beams containing cloth, wooden loft, electric installation, office furniture, severely damaged by fire, heat, smoke and water. A. C. sheet walls, doors, metal angles and A. C. roof of a ground floored, A. C. sheet walled and roof shed area about 70×30 metres severely damaged.	3,07,000
25-12-1970 09-35 hours	Tulsiram Gupta Trust Estate, 4th Lane, Darukhana, Bombay 10.	Dealers in lubricating oil and adhesive, Manufacturing of metals in rolled sheet.	Firemen with 12 motor pumps, 10 engine lines.	About 47 drums of adhesive, 500 drums of lubricating oil, about 181 electric motors, few switch board of generator sets, boiler mountings, soot blower machines, steam engine, stock of boiler casing cover and packing materials, machineries like lathe, drill bending etc., one V. A. furnace, engineering goods, about 50 looms, wrapping and pirm machines, yarn cloth, furniture edible articles, crockery articles etc., severely damaged by fire, heat, smoke and water. A two floored wooden framed and tiled roof structure also severely damaged.	19,30,000
14-1-1971 10-50 hours	Messrs. Sadhana Textiles Mills Pvt. Ltd., Globe Mill Passage, Worli, Bombay 18.	Textile Mills.	Firemen with 2 lines from two motor pumps and one first-aid appliance.	(1) Nylon synthetic fabrics in rolls in dyeing machine, "Famatex" heat setting and stentering machine, electric motors, electric installation severely damaged by fire, heat, smoke and water, (2) Doors, windows, bamboos, stafolds and paint work also severely damaged of a four floored R. C. C. structure of about 150×50 metres (used as textile mills).	12,15,000
16-1-1971 18-34 hours	Seksaria Industrial Estate, Chincholi Road, Malad (W), Bombay 64.	Manufacturing paints, auto-parts, plastic granuals, Ball-pen etc.	Firemen with six lines of four motor pumps.	A. C. sheet of ice cabin, with office furniture, mixeer machineries like rolling, weighing, lathe, drill, a hack-saw machine, g. inder, oven, electric fixtures, stamping, holding and pressing machines, a rectifier, and polishing machines, office record, electric fans, lamps, wiring, finished goods, pens, butale and plastic powder articles window with glass panes and ceiling and three galas on each floor of the building severely damaged by fire, heat, smoke and water.	3,75,000
23-1-1971 12-02 hours	Santacruz Aerodrome, Vile Parle (East).	Air Transport.	Firemen with six motor pumps with 10 jets and Air Port Fire Service Unit with two foam engine lines.	Engines, carriage wheels, tool portion of the Aeroplane, passenger cabin including seats and other fittings, electric installations, air craft turbine and fuel tank etc., severely damaged due to crash and fire, heat, smoke and water, on north side of inter-section of runways 0523×1,423 metres of the Aerodrome.	3,00,00,000

APPENDIX No. I—(Contd.).

Date and Time	Place	Business	Extinguished by	Damage	Estimated Damage
(1)	(2)	(3)	(4)	(5)	(6)
					Rs.
8-2-1971 16-47 hours	Them's Pharmaceu- cals, 38, Suren Road, Mathuradas VasANJI Road, Andheri (E), Bombay 69.	Manufacturing me- dicines, drugs, etc.	Employees with 16 chemical extingui- shers and Firemen with 4 Jets of 4 Motor Pumps.	A few wooden and steel furniture, 6 steel cabinets, electrical installations, some machineries, L. P. Gas cylin- ders, laboratory equipments, chemi- cals like mono-chloro caustic soda, sodium and nitric acid, sodium chlo- ride in poli-thine and gunny bags, etc., severely damaged by fire, heat, smoke and water. Wooden frame and shutters of windows and doors, steel doors, A. C. sheetroof, brick walls and paint work of walls severely damaged by fire, heat, smoke and water.	1,62,000
2-3-1971 19-45 hours	Corridor Road, Gawan- pada, Chembur, Bombay 74.	Private.	Firemen with 8 pumps	Household articles, such as food grains, clothes, utensils, etc., bicycle, sewing machine, one radio set, bidi shop saloon, large number of drums and tins of paints varnish etc., in tem- porary C. I. Sheet, A. C. Sheet shed, wooden planks, structures of varied nature on an area of about 30×30 me- tres severely damaged by fire, heat, smoke and water.	1,70,000
12-3-1971 03-48 hours	L. B. S. Marg, Bhan- dup, Messrs. R. R. Paints Pvt. Ltd.	Manufacturing var- nishes paints and phenal.	Firemen with eight lines of six motor pumps.	Large stock of raw materials, large quantity of paints, empty tins, old machine parts, sign boards, furniture and packing material severely dama- ged by fire, heat, smoke and water. Electric installation, walls windows, doors, wooden loft and roof of the building severely damaged by fire, heat, smoke and water.	3,80,000
14-3-1971 14-56 hours	Plot No. 2-7, Dharavi Kachrapatti, Dharavi Road, Dharavi, Bom- bay.	Refining waste oil, metal and plastic scrap, etc.	Firemen with 13 lines of 8 motor pumps and Civil Defence Firemen with 2 lines of 2 motor pumps.	Some drums of lubricating oil, electri- cal, metal and plastic scrap goods, cotton waste and rags, empty barrels, gunny bags, cement tiles and sink, metal bhatti, large stock of cloth, printing table, rubber scrap, crocke- ries, caustic soda, soap, metal spare parts, household articles, furniture, office records, electrical installation etc., severely damaged by fire, heat, smoke and water in varied 149 ground floored, timber framed C. I. Sheet structures.	3,56,110
18-3-1971 13-51 hours	Oriental Transport Service, Plot No. 4, Godown No. 9, Me- ssent Road, Sewree, Bombay 15.	Warehouse Agents.	Firemen with four motor pumps, 4 engine lines.	Stock of chemicals like phenobactons, piperzaine, citrate, titanium dioxide, alkyle benzene, naphthol, A. S. G. phospheric acid lactic acid, ammonium carbonate, Acto Acetic cester etc. in drums and wooden cases. Large stock of film scrap severely damaged by fire, heat, smoke and water in a ground floored brick walled timber framed and tiled roof structure about 12×7 metres (used as chemical godown).	4,08,000
20-3-1971 06-55 hours	Andheri Kurla Road, Andheri.	Production of pic- tures.	Firemen with four lines of four pumps	Electric trollies, electric lights, costly bulbs, set materials, etc., of a film studio, two large settings, furniture, electrical installation severely dama- ged by fire, heat, smoke and water with complete shed about 36×25 metres used as film studio.	1,60,000
24-3-1971 22-45 hours	Messrs. Pannalal Silk Mill Compound, L. B. S. Marg, Bhan- dup.	Manufacturing paper box, plastic articles, laboratory and godown.	Firemen with six lines of five motor pumps.	Paper corrugating machines, card- board box manufacturing machines, 16 L. P. Gas cylinders, paper rolls, plastic goods, machines, 16 L. P. Gas cylinders, paper rolls, plastic goods, raw materials, window type air conditioner, large stock of P.V.C. cables, insulated cables, electric in- stallation, doors, R. C. C. roof, stock of plain paper rolls, wooden tables, severely damaged by fire, heat, smoke and water.	11,56,000

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 1970-71.

Sr. No.	STATIONS.	NUMBER OF FIREALARMS ATTENDED.		HOW CALLED			HOW ATTENDED														HOW EXTINGUISHED.								
							STATION APPLIANCES				AIDING APPLIANCES.																		
		Municipal.	Private.	By Strangers.	By Fire Alarms.	Control Room	Total.	Motor Pump carrying Escape or Ladder	Extension	Fire Unit	Escape	Extension	Motor Turn table Ladder.	Fire Unit.	Trailre Pumps.	Motor Emergency Tender.	Control Post	Hose Lorry	Sand.	Buckets.	Chemical Extinguishers.	Hand Pumps.	First Aid Appliances.	Hydrants.	No. of Motor Pumps.	No. of jets.	B. A Sets	Automatic Sprinkler heads actuated.	Foam Equipments.
1	Colaba	9	2	8	21	79	108	93	21	...	44	4	9	1	...	2	...	4	1	1	...	12	...	2	2	...	...	...
2	Fort	17	8	31	48	203	282	261	...	...	43	32	37	4	...	7	...	77	19	14	...	9	...	...	...	...	...	...
3	Memonwada	30	2	40	225	335	600	533	216	...	3	115	49	22	...	13	5	...	4	32	3	...	9	2	8	17	...	...
4	Gowalia Tank	27	2	29	129	275	433	403	7	...	198	116	73	3	1	13	2	1	101	48	10	...	16	2	...	5	...	...
5	Byculla	19	5	35	154	218	247	379	149	...	95	5	...	...	...	7	4	4	42	34	64	...	54	...	...	45	17	...	
6	Worli	10	...	30	85	162	277	243	9	69	55	112	...	3	...	10	2	2	32	38	197	1	38	17	29	63	...	9	...
7	Dadar	24	2	21	158	252	431	385	199	...	80	116	...	9	...	4	3	1	1	32	13	...	28	14	33	36	...	...
8	Shivaji Park	...	...	10	51	83	144	...	135	...	74	9	...	2	...	2	2	2	6	27	...	...	10	...	10	10	...	...
9	Alexandra Docks	17	2	5	54	90	149	64	164	...	100	4	...	12	...	2	...	...	1	13	5	...	49	...	1	1	...	...	4
10	Mandvi	12	1	8	73	87	168	143	64	...	103	34	20	2	...	7	3	3	1	8	...	...	13	2	28	26	8	...	...
11	Sewree	10	6	15	53	96	164	145	3	...	84	68	...	40	...	14	4	2	17	11	32	...	43	9	43	98	1	9	1
12	Andheri	10	...	9	27	467	503	...	419	80	7	82	...	10	...	9	3	...	10	2	27	...	28	...	79	116	...	...	...
13	Vikhroli	...	...	23	1	231	255	139	74	...	3	66	1	13	...	15	5	1	...	1	8	...	12	...	51	59	...	...	10
14	Chembur	...	...	19	1	150	170	...	184	...	6	16	...	3	...	8	...	1	1	...	...	...	30	10	34	41	...	...	1
	Total	185	28	283	1080	2728	4091	2788	1644	149	1895	779	189	224	1	113	33	17	297	237	574	1	341	74	318	509	26	18	16

Appendix No. III

Monthly summary of Fires and annual losses for the period from 1961-62 to 1970-71.

Year.	April	May	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Total.	Estimated Loss.	
	Rs.														
1961-62	...	141	104	87	101	56	82	120	187	109	137	119	125	1,358	82,24,968
1962-63	...	116	132	142	120	103	89	171	148	116	143	140	169	1,589	1,89,08,544
1963-64	...	169	149	155	122	107	140	157	160	184	210	170	143	1,828	73,25,612
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	1,752	11,12,000
1966-67	...	163	133	115	136	91	114	143	200	180	171	135	169	1,755	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	291	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

APPENDIX No. IV
BOMBAY FIRE BRIGADE

Types of Rescue	In Fires	In accidents.	Total
(1) Number of persons rescue alive with burns and/or injuries and subsequently recovered	316	521	837
(2) Number of persons rescue alive with burns and/or injuries but subsequently died	42	184	226
(3) Number of human lives lost before arrival of the Brigade ...	5	69	74
(4) Number of casualties amongst Fire Service Personnel ...	2	2	4
(5) Number of animal lives rescued	3	109	112

APPENDIX No. V
BOMBAY FIRE BRIGADE

Fire Risk Covered :

(a) Textile, Woollen, Silk and artificial Silk (Rayon etc. Mills)	...	...	160
(b) Ginning Mills	...	...	...
(c) Cotton Presses	...	...	9
(d) Oil Mills	...	...	26
(e) Petrol and Oil Storages and refineries	...	...	191
(f) Match factories, fireworks and explosives manufacturers	...	...	23
(g) Explosives stores	...	...	20
(h) Processes involving dangerous petroleum products	...	...	9
(i) Cinematograph films, Celluloid Plastics and Bakelite Works	...	...	201
(j) Timber and wood working paper manufacture	...	...	272
(k) Chemical Works	...	...	143
(l) Gas and Electricity Undertaking	...	...	48
(m) Docks, Railways, Air-Port installations	...	...	22
(n) Warehouses, Goods Yards, Goods Sheds	...	...	316
(o) Manufacture of Rubber Goods	...	...	233
(p) Manufacture of other goods	...	...	426

Water Facilities :

(1) Hydrants and approximate capacity	...	...	9,442
(2) Water ponds	...	...	1,744
(3) Refilling Places	...	...	26
(4) Wells, Rivers and Canals	...	...	759
(5) Other facilities like static tanks, storage tanks, etc.	...	...	150

AND
Sea Water
{ around the
| island of
{ Bombay.

APPENDIX No. VI.

Brief details of Serious House Collapses during the year 1970-71—

Date and Time	Place	Business	CASUALTIES		Details
			Death	Injury	
8-4-1970 16-01 hours	31, Navi Wadi, Dady Seth Agyari Lane, Bombay.	Private.	1	1	West side, first floored wall and wooden beams of the structure collapsed on road, injuring two ladies. One of the injured ladies died in hospital.
11-4-1970 1-05 hours	Tata Mansion, Alta Mount Road, Kemp's corner.	..	1	..	The balcony facing road-side on first floor of a four floored building gave way and one person was crushed to death. The dead body was removed from debris. Hanging portion of the building was pulled down and rooms on ground, first and second floors were vacated.
5-5-1970 14-54 hours	Municipal Market, Jawahar Road, Ghatkopar (East), Bombay.	Market ..	..	7	A ground floored, timber framed, C. I. sheets, roofed structure, area 12×12 metres had completely collapsed injuring 7 persons. All the injured persons were rendered first-aid by Brigade and removed to hospital.
16-6-1970 04-28 hours	Rear of O. B. Nagar, Dr. Ambedkar Road, Khar.	Private.	1	4	A stone masonry compound about 4 metres high on the south side compound collapsed on two bamboo strip walled huts injuring five persons sleeping in the rooms. All these five persons were removed to safe place by public. They were rendered first-aid by Fire Brigade staff and removed to hospital in Brigade Ambulance.
30-6-1970 08-54 hours	44-46, Kolsa Street, Pydhoni, Bombay.	Private ..	1	2	The entire rear portion consisting of living rooms and godown of a four floored brickwalled structure gave way trapping three girls under the debris. The girls were rescued and removed to J. J. Hospital. One of them died.
18-9-1970 18-41 hours	Saki Vihar Road, Pawai.	Contractor ..	..	10	A R. C. C. beam under construction of a building about 60×30 metres had collapsed along with the scaffolding injuring 10 persons. They were removed to hospital in a private car before arrival of the Brigade. They were treated and allowed to go.
11-7-1970 23-27 hours	6, Kamathipura, 15th Lane	Private	1	5	A small portion of the western external wall of second floor of a three floored building collapsed into a ground floored C. I. sheet roof structure burying six persons under the debris. The six persons were rescued from debris and were removed to hospital.
13-10-1970 02-28 hours	92-B Fatima House, Kandivli (W), Opp. Palsar Bridge.	Private.	1	3	The east side brick wall of a ground floored tiled roof structure gave way burying six persons under debris. The trapped persons were taken out by the members of the public before arrival of the Brigade. They were rendered first-aid and were removed to hospital in Brigade Ambulances.
5-11-1970 10-56 hours	69, Govt. Industrial Estate, Mahatma Gandhi Road, Kandivli (East).	Metal casting.	2	9	A steel framed platform used as a store iron scrap collapsed trapping two persons who were crushed to death. Nine other persons had received injury. One of them was removed to Hospital in private car and other eight were rendered first aid by Fire Brigade staff.
16-11-1970 10-36 hours	Boundry Road, 1st Avenue, near Sewrec Fire Station.	..	2	4	Beams and canopy of a ground floored garage under construction gave way injuring six persons. Two persons were removed from debris by Firemen and after rendering first-aid all six persons were removed to K. E. M. Hospital in Brigade Ambulance. Two of the injured persons died in Hospital.
30-12-1970 00-13 hours	55-57, Bapu Khote Street.	..	7	14	The north-west side living rooms and shops of a five floored brick-walled building completely collapsed injuring 21 persons. Out of them two persons were rescued by public and 18 others were rescued by Firemen from the debris. Seven persons were declared dead. Other nine persons were rendered first aid and were removed to hospital.
17-3-1971 12-25 hours	5, Raghunath Dadaji Lane, Off 41, Police Court Lane, Fort, Bombay I.	Trustees.	7	16	Entire rear portion of a five floored brick walled timber framed building had collapsed on two adjoining structures injuring 23 persons. Out of them, seven persons died on or before admission to the hospital. Other fifteen injured persons were rescued from underneath the debris and were removed to Hospital.

MUNICIPAL GARDENS

GARDENS (City).

The Department maintained 205 sites consisting of 71 gardens, 92 recreation grounds, 6 gardens attached to Municipal Buildings 8 fountains, 11 traffic islands, 6 Band Stands, 6 Box hedges and 5 Statues.

Veer mata Jijabai Bhosle Udyan

Veer mata Jijabai Bhosle Udyan continued to remain an attraction to the visitors of Bombay. The corner plot at the north-east of the garden was developed and is being extensively used as a play ground by the Children as well as adults. The area under the flower bed was increased. The statues which were lying scattered near the Museum have been arranged at proper places.

The cages and fencings have been painted. Animals and Birds were added to the Zoo according to the requirements. One Kangaroo, three peacocks, seven Sussex Bantam Fowl Chicks and one Gnu were born in the Zoo during the year under report. 94 birds were purchased and added to the Zoo. Only two European fellow dears and one male Rhea were obtained in exchange and added to the Zoo.

Botanical specimen were supplied to the colleges and institutions free of charges and facilities were given to the batches of students for study in the Garden.

ZOO SECTION

Total Number of Live Stock

Description		For Display	Laboratory Animals
(1) Mammals	...	189	Nil.
(2) Birds	...	670	Nil.
(3) Reptiles	...	40	...

Increase during the year

Description	Mammals.	Birds	Reptiles	Laboratory Animals
(1) Born	... 18	69	...	1,188
(2) Sold	... 2	6	Nil.	903
(3) Fed to snakes	... Nil.	14	Nil.	414
(4) Destroyed	... 3	Nil.	Nil.	Nil.
(5) Given in Exchange	... Nil.	1	Nil.	Nil.
(6) Given to Outside Parks	... 4	12	Nil.	Nil.

197 Wild Animals/Birds and Reptiles were treated in Zoo Hospital. 90 per cent. cages were painted. One Myna cage is under construction. Elephant, Camel, Pony and Boating Rides were main attractions of the gardens.

Open Air Theatre

The Open Air Theatre was hired out to the public on reasonable rent on 103 occasions during the year under report for dramas, social gatherings, and Tamashas, etc., and it is becoming popular day by day.

Shri S. K. Patil Udyan

Shri S. K. Patil Udyan at Maharshi Karve Road is very well used throughout the year by the residents from Girgaum and Kalbadevi area. In the garden an open air theatre has been constructed and handed over to the Education Officer for management. The Cinema-shows were held periodically under the management of P. R. O. twice in a week.

Jawaharlal Nehru Udyan (Sion Hill Fort Garden)

Land Scape Garden and fountain with water fall are the main attractive features of this garden, 7 new gardens and 22 playgrounds were developed during the year under report.

Games

Directed games were conducted at 3 main centres on Municipal playgrounds by the private institutions who were given all the facilities by the Department. All India Basket Ball and Boxing tournaments were conducted at the 2nd Peerkhan Street, Municipal Playgrounds. Maharashtra State Women's Council has also conducted directed games in many of the Municipal Gardens for the benefit of local children and they are giving very good service.

Schools

Municipal grounds, open spaces were also given to many schools and other public institutions for physical training activities and for their annual sports and tournaments.

GARDENS (Suburbs)

44 gardens, 2 playgrounds, 1 Band stand one traffic Island Garden were maintained in the Suburbs during the year under report. 5 new sites were developed in suburbs. The gardens at Kurla and Khar Danda are well patronised by the public.

Lions Park, Juhu (Santacruz)

This is the main attraction of the Suburbanites provided with modern type of childrens play apparata. Besides, water cooler is installed for giving cold water to the public. All the play apparata were painted.

Lions Garden, Kurla.

Lions Garden, Kurla on Bombay Agra Road was developed and being well patronised by the residents of the locality.

Lights and Play apparata

New lights and play apparata in most of the gardens have been provided according to the actual requirements.

Gardens (Extended Suburbs)

12 Gardens and one Staute and 1 Band Stand were maintained during the year under report.

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 the Hon. Shri 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 (1) Agriculture (2) Armoury (3) Cottage Industries (4) Ethnology (5) Fine Arts (6) Fossils (7) Indian Coins (8) Minerals (9) Old Bombay (10) Prehistory (11) Religion and Mythology and (12) Miscellaneous exhibits. Coin cabinet contains Ancient Indian Coins. Reference Library attached to the Museum contains books on Art, Archaeology, Old Bombay, History etc. The Museum remains closed on 8 important holidays and on every Monday. An admission fee of 5 paise is charged per visitor above 12 years of age on all the working days except Thursdays, when admission is free to all. *The Museum was kept closed to the public from 5th February 1970 to 4th April 1970 as the work of repairing and painting the Museum building was to be carried out. It was reopened to the public on 5th April 1970. The alterations made in the building as stated in the previous report have given desired effect. The old booking office was replaced by a new one. A new flag-staff was got erected at the suitable site and the old flag-staff which was defective was removed. The steel safe was got repaired. The plans of the Museum were renewed and displayed in a better way. The staff was provided with steel lockers and a chair with high seat for booking office.

Six Show-cases were transferred to the Municipal Urdu School, Mohd. Umar Rajab road. One old Show-case was renovated. The dummy of a Rajput Soldier was remodelled.

Two specimens of glass-bead designs (Gujrat), plaster model of Shiwaji as a part of proposed show-case on historical event, and the books like History of Indian Glass, Bombay Explosion, Mumbai and Mumbai-kar were purchased. On request Shri B. V. Dharap gave photographs of late Shri Dadaaheb Phalke, the pioneer of the Indian film and a scene from the first Indian film Raja Harishchandra, as a gift.

An application for the grant-in-aid for providing lights in the show-cases, Show-cases for exhibits and improved lighting system in and around the Museum was submitted to the Ministry of Education and Youth Services New-Delhi. The President of India has been pleased to sanction the Grant of Rs 10,000. The grant will be utilised for the aforesaid purpose when received.

The details as regards the number of visitors, sale proceeds of Admission Tickets etc., are given below—

Particulars:	1969-70	1970-71
Total number of days when the Museum was kept open*	... 259	299
Total number of visitors.	... 5,45,135	7,10,886
Sale proceeds of Admission Tickets	... Rs. 15,193.10	Rs. 19,844.55
Sale proceeds of Museum Broucheres and other minor receipts	... Rs. 114.21	Rs. 90.62
Fees for taking photographs of the exhibits	... Rs. 60.00	Rs. 60.00
Total expenditure	... Rs. 60,039.17	Rs. 65,886.00

V. N. BARVE,
For Curator of Museum.

MUNICIPAL FREE READING ROOMS & LIBRARIES

In the beginning of the year there were 23 Municipal Free Reading-Rooms and Libraries out of which 16 were being managed by the Mumbai Marathi Granthasangrahalaya. During the year one Municipal Free Reading-room and Library was opened at Byculla on 1-6-70 and two more Municipal Free Reading-rooms and Libraries at Mandvi and Lower Parel which were under supervision of the Chief Librarian were handed over to the Mumbai Marathi Granthasangrahalaya on 1-4-70 and 1-5-70 respectively (C. R. No. 1407 of 26-11-70). Thus out of 24 Municipal Free Reading-rooms and Libraries 18 Municipal Free Reading rooms & Libraries were being managed by the Mumbai Marathi Granthasangrahalaya up to the period ending 31-10-1970 on the terms and conditions underlying the C. R. 114 of 26-4-1965. The management of the 18 Municipal Free Reading-rooms & Libraries is continued by the same institution for a further period from 1-11-70 on the revised terms and conditions according to the S. C. R. No. 2771 of 2-1-1971 and C. R. No. 2256 of 18-3-71.

The remaining Municipal Free Reading Rooms & Libraries are directly under supervision of the Chief Librarian which are kept open from 7.30 a.m. to 11.00 a.m. and from 4.00 p. m. to 7.30 p. m. A reader can take the books for home reading against the deposit as per the rules in force. The Libraries remain closed on Mondays and eight important public holidays.

The details as regards books purchased, number of visitors, income, expenditure etc. are given below:

Particulars.	MUNICIPAL FREE READING-ROOMS & LIBRARIES					
	City.		Suburbs.		Extended Suburbs	
	1969-70	1970-71	1969-70	1970-71	1969-70	1970-71
Books purchased.	383	343	84	276	—	—
Cost of the books	Rs. 1,940	Rs. 1,926	Rs. 370	Rs. 1,522	—	—
Books received as donation	28*	1 †	—	—	—	—
Number of visitors.	1,29,627	74,660	24,708	17,412	—	—
Income including grant-in-aid received from the Government	Rs. 850	Rs. 754	Rs. 528	Rs. 652	—	Rs. 20
Grant-in-aid received from the Government	—	—	—	—	—	—
Expenditure excluding grant paid to the Mumbai Marathi Granthasangrahalaya.	Rs. 71,416	Rs. 62,012	Rs. 9,110	Rs. 9,618	—	—
‡ Grant paid to the Mumbai Marathi Granthasangrahalaya.	Rs. 41,250	Rs. 27,250	Rs. 6,000	Rs. 4,000	Rs. 6,000	Rs. 4,000

* The books are donated by Shri J. B. D'souza, Municipal Commissioner.

† Book presented by M/s. Parchure Prakashan.

‡ Grant was paid up to October 1970 as the revised agreement was to be executed.

V. N. BARVE,
for Chief Librarian.

CENTRAL STORES

A broad outline of the work handled by each of the six purchase sections is given below :—

Serial No.	Nature of work.	Purchase Section						Total
		1	2	3	4	5	6	
1	Tender invited	... 69	42	50	46	46	34	287
2	Quotations invited	... 62	29	104	47	8	25	275
3	Contracts awarded	... 95	52	98	54	81	72	452
4	Purchase Orders placed	... 717	104	747	1169	27	250	3014

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	...16,79,453.72	47,21,420.29	<i>Nil</i>
Average stock level in terms of months' consumption	... 2,880.00	8,083.00	<i>Nil</i>

(1) During the year under report 424 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 11 cases, risk and cost purchases were made, and in 5 cases tender or contract deposits were wholly or partly forfeited. Besides this, in cases where the suppliers failed to supply the materials within the stipulated delivery period, penalties were recovered from their bills.

(2) **Bills and accounts.**—During the course of the year, 3646 bills were received, 26,254 indents were executed, and 152 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. 2,384 and obsolets and surplus materials valued at Rs. 2,93,657.88 were disposed off by sale.

(4) **Establishment.**—The total strength of the department during the year was 81 superior and subordinate and 36 labour staff. The total expenditure on the establishment during the year was Rs. 5,22,432.73. In addition Rs. 89,339.93 were spent on printing, stationery, advertisement, postage, service charges, property maintenance and miscellaneous expenditure. A total revenue of Rs. 83,377.25 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 1970-71.

Particulars	CENTRAL STORES			
	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 1970.	43,35,255.27	14,00,152.87	62,230.24	57,97,638.38
Value of stores received including transfers during 1970-71 ...	77,82,119.78	75,32,509.71	Nil	1,53,14,629.49
Total ...	1,21,17,375.05	89,32,662.58	62,230.24	2,11,12,267.87
Less—Value of stores issued including transfer during 1970-71 ...	70,09,789.75	69,73,908.01	62,230.24	1,40,45,298.00
Balance on 1st April 1971 ...	51,07,585.30	19,58,754.57	Nil	70,56,339.87
Average Annual Inventory ...	47,21,420.29	16,79,453.72	Nil	64,31,989.13
Ratio of average inventory level to average monthly issue	8.083	2.880	...	5.495

K. S. PESINA,
Controller of Stores.

APPENDIX "O"

Statement "B" showing the details of stock held on 31st March 1970 and 1971 at Central Stores.

Particulars	Balance on 1-4-1970		Receipt during the year 1970-71		Total		Issued during the year 1970-71		Balance on 1-4-1971		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	2,29,776.67		8,00,850.92		10,30,627.59		9,95,303.94		35,323.65		1,32,550.16		82,942.00		1,598	month.	
(2) C. I. Pipes, Manholes, Hydrants Water and Drainage castings, etc.	33,46,484.87		49,61,593.58		83,08,078.45		40,59,217.62		42,48,860.83		37,97,672.85		3,38,268.14		11.225	"	
(3) M. S. Round Bars, Flats, Plates, C. I., G. I., Black Sheets, S. P. Tanks, etc.	70,028.04		2,11,928.02		2,81,956.06		1,51,652.75		1,30,308.31		1,00,165.68		70,637.73		7.926	"	
(4) Pipes, Stoneware and Hume	11,110.05		25,163.93		36,273.98		27,219.34		9,054.64		10,082.35		2,268.28		4.445	"	
(5) Galvd. Pipes and Fittings	3,92,351.18		11,70,164.24		15,62,515.42		11,83,007.04		3,79,508.38		3,85,929.78		98,583.92		3.915	"	
(7) Lead Pig and Lead Wool and Lead Pipes	2,49,322.36		5,60,923.36		8,10,245.72		5,10,385.29		2,99,860.43		2,74,591.40		42,532.11		6.456	"	
(6) Asbestos sheets, Pipes and fittings	36,182.10		51,495.73		87,677.83		83,003.77		4,674.06		20,428.08		6,916.98		2.953	"	
LINE SUSPENSE ACCOUNT																	
(8) Water Works Castings on the line	62,230.24		Nil		62,230.24		62,230.24		Nil		...		...		...	"
GENERAL ACCOUNT																	
(9) Spindle Brass and Fittings	1,80,816.12		3,75,829.35		5,56,645.47		3,02,203.93		2,54,441.54		2,17,628.83		25,183.66		8.642	"	
(10) Meter Parts	Nil		Nil		Nil		Nil		Nil		Nil		Nil		Nil	"	
(11) Bolts, Nuts, Rivets, Nails, Washers and Hardwares, etc.	67,284.84		2,02,913.04		2,70,195.88		2,05,296.29		64,901.59		66,093.22		17,108.02		3.862	"	
(12) Brooms Goa, Date and Brushes	20,110.42		1,93,689.08		2,13,799.50		1,72,083.22		41,716.28		30,913.35		14,340.27		2.156	"	
(13) Cables and Wires	61,293.99		69,807.01		1,31,101.00		89,904.59		41,196.41		51,245.20		7,492.05		6.840	"	
(14) Elec. accessories, bulbs, fans, Electrodes, Dry Cells, etc.	75,105.30		4,94,405.88		5,69,509.18		4,50,154.79		1,19,354.39		97,229.85		37,512.90		2.592	"	
(15) Files and Rasps	2,570.26		4,629.31		7,199.57		3,289.70		3,909.87		3,240.07		274.14		11.819	"	
(16) Oil Castors, Coconut, Sweet, Kerosene, Grease, Lubricating, etc.	10,968.78		3,03,356.17		3,14,324.95		2,90,708.05		23,616.90		17,292.84		24,225.67		0.714	"	
(17) Timber, ladders, shaft Bhendiwood, Nowghani Poles, Plywood Sheets, etc.	3,735.30		14,944.45		18,679.75		15,243.91		3,435.84		3,585.57		1,270.33		2.823	"	
(18) Clothing	4,25,266.11		23,30,188.35		27,55,454.46		20,78,754.25		6,76,700.21		5,50,983.16		1,73,229.52		3.181	"	
(19) Disinfectants, Tropical Chloride, Cleaning Powder, etc.	36,563.76		5,11,157.20		5,47,720.96		4,89,786.27		57,934.69		47,249.23		40,815.52		1.158	"	
(20) Tools, Machinery, Foot rules, spanners, drills, saws, Auger screws, etc.	33,040.12		78,273.20		1,11,313.32		87,753.10		23,560.22		28,300.17		7,312.76		3.870	"	
(21) Soap and Soda	24,915.97		3,99,703.17		4,24,619.14		3,78,895.59		45,629.55		35,272.76		31,582.47		1.117	"	
(22) Baskets Cane, Bamboo and Wooden	7,812.44		2,64,714.34		2,72,526.78		2,63,719.68		8,807.10		8,309.77		21,976.64		0.378	"	
(23) Buckets, Dust-bins, Ghamellas Enamelware, Hurricane Lanterns Glassware, etc.	1,64,092.59		4,84,628.33		6,48,720.92		4,57,510.64		1,91,210.28		1,77,651.44		38,125.89		4.659	"	
(24) Hose rubber, belting canvas	59,576.55		2,02,924.00		2,62,500.55		1,76,666.39		85,834.16		72,705.36		14,722.20		4.938	"	
(25) Wires, Brass Rods, Copper Sheets zinc sheets, etc.	83,676.70		3,68,366.01		4,52,042.71		3,00,358.25		1,51,684.46		1,17,680.58		25,029.85		4.702	"	
(26) Leather Hides, Chamois, Chappals Plungers, Boots and Other leather articles	40,958.00		1,05,647.28		1,46,605.28		1,36,984.47		9,620.81		25,289.41		11,415.37		2.215	"	
(27) Coir goods, cotton goods, yarn spun, waste cotten, packing asbestos etc.	34,715.65		1,93,001.81		2,27,717.46		1,87,840.36		39,877.10		37,296.38		15,653.36		2.283	"	
(28) Paints, Powders, Linseed Oils and Turpentine	32,036.97		2,34,299.39		2,66,336.36		2,22,782.28		43,554.08		37,795.53		18,563.19		2.036	"	
(29) Lacs of sorts	25,461.47		78,021.50		1,03,482.97		62,040.00		41,442.97		33,452.22		5,170.00		6.470	"	
(30) Miscellaneous articles (Polish,) Candles, Glue, Gum, Tiles, Powras, Showcls, Typewriters, etc.	10,151.53		6,22,012.84		6,32,164.37		6,01,838.25		30,326.12		20,288.83		50,153.19		0.404	"	
Total	57,97,638.38		1,53,14,629.49		2,11,12,267.87		1,40,45,928.00		70,66,339.87		64,31,989.13		5,81,159.00		5.495		

K. S. PESINA,
Controller of Stores

LICENCE DEPARTMENT

Licence Department functions in various wings viz., (1) Licence Section, (2) Encroachment Section, (3) Stall Board etc. projection Section, (4) Advertisement Section and (5) Shops and Establishments Section and deals with Sections 394, 412A, 393, 313(1), 313A, 313B, 314, 328, 328A of the Bombay Municipal Corporation Act, the Bombay Shops and Establishments Act 1948, Payment of Wages Act, 1936, Minimum Wages Act 1948 and Workmens' Compensation Act 1923.

(1) LICENCE SECTION.

This Section issues licences under Section 394, 412A and 393 of the Bombay Municipal Corporation Act, with a view to regulate the storages of hazardous and combustible commodities, trades, steam whistles and steam trumpets on recovery of fees as per the schedule sanctioned by the Corporation *vide* Corporation Resolution No. 72, dated the 2nd May 1967 and 2087 dated the 11th March 1968. Development control rules are being applied in cases where the storages and trades came up on or after 1st April 1963.

Licences under Section 394 for commodities and trades controlled by H.O.—H. O.'s Department finalises the cases of grant of licences to the commodities and trades controlled by that department upto the final stage of demand of fees including renewal fees. The entire administrative control over such commodities and trades vests with Health Department. The Licence Department only issues licences. The total No. of licences issued during the last 3 years under sections 394, 412A, and 393 of the Bombay Municipal Corporation Act, is shown in Appendix 'A'.

(2) ENCROACHMENT SECTION.

This Section functions with double purpose of controlling hawkers and squatters by licensing under Section 313A and 313B of the Bombay Municipal Corporation Act and removing unauthorised hawkers on the roads and footpaths under Section 314 with the help of the encroachment removal lorries. Since December 1970, no new licences are being issued. A committee appointed by the State Government is examining the issue of new licences with a view to have a solution for the hawkers problem.

Total number of licences issued to hawkers and squatters is shown in Appendix 'B'.

Auction sales.—During the year, 2671 auction sales of the articles seized by the encroachment removal staff but not redeemed by the parties were held, out of which 927 were in respect of non-perishable goods and 1744 in respect of perishable goods. Amount of Rs. 29,555.00 was realised as auction sale proceeds as against Rs. 26,003.79 last year.

(3) STALL BOARD ETC. PROJECTION SECTION.

The Section deals with issue of permissions for erection of various types of projections viz., Stall Board, Weather Frame, Overhanging Awning, Show Cases, Steps, Cupboard etc., under Section 313(1) of the Bombay Municipal Corporation Act. Total number of licences issued and the amount realised by way of licence fees during the year is given in Appendix 'C'.

(4) ADVERTISEMENT SECTION.

This Section enforces Sections 328, 328A of the Bombay Municipal Corporation Act and thereby regulates various types of advertisements in Greater Bombay.

Total number of permits issued during the last three years is shown in Appendix 'D'.

(5) PROSECUTION

During the year under report, 5,879 prosecutions were launched for the offences against the provisions of Sections 394, 412A, 328 and 328A of the Bombay Municipal Corporation Act. The details thereof along with the details of the preceeding two years are given in Appendix 'E'.

SHOPS AND ESTABLISHMENTS SECTION.

This Section administers Bombay Shops and Establishments Act, 1948, Payment of Wages Act, 1936, Minimum Wages Act 1948 and Workmens Compensation Act 1923.

The total number of establishments registered under Section 7 of the Bombay Shops and Establishments Act 1948, is given in Appendix 'F'.

The number of complaints pending at the close of the previous years, received and investigated during the year and pending at the end of the year is shown in Appendix 'G'.

A statement showing number of prosecutions launched, fines inflicted etc., during the preceeding year and the year under report is shown in Appendix 'H'.

Financial.—The Government sanctioned a total grant-in-aid of Rs. 3,41,126.00 for the year 1969-70 as part of expenditure towards administration of the Bombay Shops and Establishments Act 1948, during the year 1969-70. Out of the above grant, a share of Rs. 2,63,511.00 was allocated for City (Budget 'A' Divion I), Rs. 50,464.00 for Suburbs and (Budget 'A' Division II) and Rs. 27,151.00 for Extended Suburbs (Budget 'A' Division III). The income by way of registration etc., fees for the year 1969-70 was Rs. 2,40,981.82 for city, Rs. 58,452.34 for Suburbs and Rs. 31,781.25 for Extended Suburbs. The figures of income for the previous year were Rs. 2,31,941.60, Rs. 53,712.34 and Rs. 30,994.90 for City, Suburbs and Extended Suburbs respectively. The expenditure on account of the administration of the Bombay Shops

and Establishments Act, during 1970-71 was Rs. 5,77,654.00 for City, Rs. 1,54,630.39 for Suburbs and Rs. 82,312.58 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 I. During the year under report, 1 case was filed under the Act and the same was pending at the close of the year. The payment of wages authorities however ordered in this case on 30th April 1971 that the parties should deposit in the Court Rs. 4,191.00. within 15 days.

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	4,352	1,431	1,120
Commercial Establishments	2,360	289	490
Restaurants and Eating Houses	863	390	277
Theatres	13	19	1
TOTAL	7,588	2,129	1,888

As a result of intervention of the Inspector of this Section, an amount of Rs. 10,391 was distributed to 104 employees from City, Rs. 1,210 to 6 employees from Suburbs and Rs. Nil to Nil 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 'J'. During the year under report, no cases were filed under the Minimum Wages Act 40 cases were filed under the M. W. Act.

Workmens Compensation Act, 1923—During the year under report, no establishments were visited for the above purpose.

(6) MASS RAIDS.

During the year, 18 mass raides were taken and the results there of are shown in Appendix 'K'.

(7) PUBLICATIONS

1. A "Guide for licensing of storages and trades vis-a-vis Development Control Rules."
2. Policy and Procedure for Advertisement permits.
3. Citizens' questions on Licences, Advertisements, hawkers.

(8) GENERAL.

Renewal of licences under Section 394, 412A and 313A (Stall Board etc., projections) was done during the month of April 1970 as per the usual practice.

APPENDIX 'A'

Statement showing the No. of licences and permits issued and fees recovered in the years 1968-69 to 1970-71.

Particulars	NO. OF LICENCES AND PERMITS									AMOUNT OF FEES REALISED								
	CITY			SUBURBS			EXTENDED SUBURBS			CITY			SUBURBS			EXTENDED SUBURBS		
	1968-69	1969-70	1970-71	1968-69	1969-70	1970-71	1968-69	1969-70	1970-71	1968-69	1969-70	1970-71	1968-69	1969-70	1970-71	1968-69	1969-70	1970-71
(1) Commodities and trades including milk and its products (Section 394 and 412 A) ...	45,319	38,604	42,709	11,179	12,567	14,895	5,187	5,807	6,643	2,94,912.50	25,76,146.82	27,45,276	8,34,519.00	9,70,787.26	10,07,925	6,11,480.00	6,37,233.99	7,85,455
(2) Blowing steam whistle (Section 393) ...	53	52	52	31	33	33	8	11	11	1,530.00	975.00	1,005	625.00	1,403.35	1,390	65.00	360.00	355
(3) Factory permits (Section 390) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	45,372	38,656	42,761	11,210	12,600	14,928	5,195	5,818	6,654	2,96,442.50	25,77,121.82	27,46,281	8,35,144.00	9,72,190.61	10,09,315	6,11,565.00	6,37,593.99	7,85,810
(4) Transfer of fees (Section 394 and 412 A) ...	703	976	1,018	151	269	438	56	135	297	8,055.50	9,999.50	11,240	2,105.00	2,792.50	3,925	575.00	1,383.00	1,590
Grand Total ...	46,075	39,632	43,779	11,361	12,869	15,366	5,251	5,953	6,951	3,04,498.00	25,87,121.32	27,57,521	8,37,249.00	9,74,983.11	10,13,240	6,12,140.00	6,38,976.99	7,87,400

APPENDIX 'B'

Statement showing the number of Hawkers Licences issued and amount of fees collected during the years 1968-69 to 1969-70.

Description	Year	NO. OF LICENCES ISSUED			AMOUNT OF FEES COLLECTED		
		City	Suburbs	Extended Suburbs	City	Suburbs	Extended Suburbs
					Rs.	Rs.	Rs.
(1) Squatter's fees collected in the reserved areas (under Section 313).	1968-69 ...	56,581	6,403	141	13,06,124.00 (Total revenue of items 1 & 2)	2,56,870.00	34,505.00
	1969-70 ...	55,432	5,931	215	10,47,637.62 (Total revenue of items 1 & 2)	1,95,361.51	1,29,434.35
	1970-71 ...	56,538	6,310	222	11,85,452 (Total revenue of items 1 & 2)	2,16,270	1,77,232
(2) Fees received from itinerant hawkers licences (under Section 313-A).	1968-69 ...	14,379	5,217	159	...	60,195.00	22,230.00
	1969-70 ...	13,935	5,109	184	...	51,144.90	17,695.50
	1970-71 ...	14,890	5,735	207	...	57,260	22,435
Total of items land 2 ...	1968-69 ...	70,960	11,620	340	13,06,124.00	3,17,055.00	56,735.00
	1969-70 ...	69,367	11,040	399	10,47,637.62	2,46,506.41	1,47,129.85
	1970-71 ...	71,428	12,045	429	11,85,452	2,73,530	39,667
(3) Recovery of expenses (under Section 490) for removal of Encroachments under Section 314.	1968-69 ...	...	...	...	3,20,795.00	42,135.00	22,835.00
	1969-70 ...	...	...	...	3,06,835.05	70,343.50	19,597.00
	1970-71 ...	...	...	...	3,73,145.00	72,135.00	21,470
Final Total ...	1968-69 ...	70,960	11,620	340	6,26,919.00	3,59,200.00	79,570.000
	1969-70 ...	69,367	11,040	399	13,54,472.67	3,16,849.91	1,66,726.85
	1970-71 ...	71,428	12,045	429	15,58,597.00	3,45,665.00	61,137.00

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 1970-71

	NO. OF LICENCES ISSUED			AMOUNT OF FEE RECOVERED		
	City	Suburbs	Extended Suburbs	City	Suburbs	Extended Suburbs
				Rs.	Rs.	Rs.
	32,750	1,540	315	14,85,160.00	61,430.00	12,685.00

APPENDIX 'D'

Statements showing the number of permits for advertisements issued and amount of fees collected during the year 1968-69 to 1970-71 under Section 328, 328A.

Particulars	NUMBER OF ITEMS									AMOUNT OF FEES (INCLUDING COMPOSITION)								
	CITY			SUBURBS			EXTENDED SUBURBS			CITY			SUBURBS			EXTENDED SUBURBS		
	1968-69	1969-70	1970-71	1968-69	1969-70	1970-71	1968-69	1969-70	1970-71	1968-69	1969-70	1970-71	1968-69	1969-70	1970-71	1968-69	1969-70	1970-71
										Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	
(1) Wall posters boardings and boards ...																		
(2) Moveable boards and hand carts ...																		
(3) Illuminated advertisement skysigns ...	6,695	7,218	7,183	1,349	1,872	1,907	489	387	423	8,96,751	13,31,843.40	13,75,897.00	1,96,988	2,49,488.54	2,52,531.00	41,740	4,56,445	47,432.00
(4) Non-illuminated sky-signs ...																		
(5) Wall Paintings ...																		
(6) Ground rent ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total ...	6,695	7,218	7,183	1,349	1,872	1,907	489	387	423	8,26,751	13,31,843.40	13,75,897.00	1,96,988	2,49,488.54	2,52,531.00	41,740	44,564.45	47,432.00

APPENDIX—'E'

Statement showing the number of prosecutions launched during the years 1968-69 to 1970-71.

Year	Offence under Section	No. of cases remaining undischarged 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 resulted in acquittal			No. of cases remaining undischarged 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.							
1968-69	394	539	305	456	2,263	1,025	650	310	204	70	854	345	282	1,16,825.00	60,900.00	56,670.00	39	5	13	1,648	726	738
1969-70	394	425	668	324	2,986	779	643	764	146	53	936	424	159	2,34,150.00	84,500.00	1,03,955.00	68	11	05	1,853	879	692
1970-71	...	1,853	879	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
1968-69	... 328 & 328A	137	55	24	1,158	1,324	67	479	236	8	297	220	36	4,168.00	3,03.00	590.00	60	...	...	381	825	46
1969-70	...	202	820	05	1,114	338	48	401	165	9	174	63	14	1,557.00	1,452.50	200.00	5	1	...	598	929	30
1970-71	...	593	929	30	1,027	488	51	626	613	10	281	94	17	1,684	975	535	6	9	1	712	707	53
1968-69	... 313(1)	25	...	...	130	...	...	14	...	...	75	...	...	1,120.00	...	...	...	...	...	48	...	...
1969-70	...	...	...	4	594	109	62	67	...	8	299	39	15	4,725.00	535.00	310.00	...	...	...	211	70	43
1970-71	...	211	70	43	107	72	47	91	61	52	219	45	21	3,930	740	...	...	...	...	14	36	17

APPENDIX 'F'

Category	City	Suburbs	Extended Suburbs
Shops	60,346	19,090	8,839
Commercial Establishments	29,967	3,141	3,756
Residential Hotels	284	76	23
Restaurants and Eating Houses	5,668	1,977	893
Theatres etc.	80	24	12
Total	96,345	24,308	13,523

APPENDIX 'G'

No. of complaints	City	Suburbs	Extended Suburbs
Pending at the close of the previous year	77	9	3
Received during the year	1,157	280	90
Investigated during the year	1,183	280	92
Pending at the end of the year	51	9	1

APPENDIX 'H'

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>										Rs.	Rs.
1969-70...	4,902	6,750	7,837	25	26	...	...	7,888	3,764	2,76,521	35.28
1970-71...	3,764	6,596	6,604	28	9	...	...	6,641	3,719	2,36,861	35.87
<i>Suburbs</i>											
1969-70...	776	1,542	1,460	4	1	...	...	1,465	853	50,250	34.41
1970-71...	853	1,858	1,254	9	1	...	...	1,264	1,427	45,360	36.17
<i>Extended Suburbs</i>											
1969-70...	87	589	456	...	...	...	...	456	220	14,335	31.48
1970-71...	220	887	837	...	...	...	...	837	270	24,405	26.77

APPENDIX 'I'

Complaints	City	Suburbs	Extended Suburbs
Pending at the close of the previous year	2	1	...
Received during the year	164	42	10
Disposed of during the year	164	41	10
Pending at the end of the year	2	3	...

APPENDIX 'J'

Complaints	City	Suburbs	Extended Suburbs
Pending at close of the previous year	2	...	...
Received during the year	57	1	...
Investigated during the year	57	1	...
Pending at the end of the year	2	...	...

APPENDIX 'K'

Statement showing the results of 18 mass-raids taken during the year 1970-71.

Serial No.	Under Section	Total Number of Premises inspected	Total Number of licences	No. of cases in which infringements were detected	No. of new cases detected
1	394	1,936	1,172	115	320
2	313	337	243	10	93

Under Section 328 and 328A.

1. Total No. of advertisements detected 1,166

Under Section 313A.

(Mass-raids for removal of unauthorised encroachments and projections on footpath).

1. Total No. of items including hand-carts removed as encroachments : (2,096), 205 Loaded hand-carts, 37 Empty handcarts, 12 Sugarcane crushers, Items 1842.

APPENDIX 'L'

	City	Suburbs	Extended Suburbs
Shops and Establishments Act
Minimum Wages Act

MARKETS DEPARTMENT

(CITY)

Dr. V. Periyar, G.B.V.C., continued to hold the office of the Superintendent of Markets and Slaughter Houses till 13th January 1971. Dr. D. M. Bailur, B.Sc., (Vet.), M.R.C.V.S. was appointed as the Superintendent of Markets and Slaughter houses from 14th January 1971 and was in charge of the department.

(1) **Markets**—In all there were 45 Markets in the City 31 Municipal and 14 Private Markets (licensed by the Municipal Corporation of Greater Bombay). The licence fees recovered from the owners of these-private markets amounted to Rs. 93,660 as against Rs. 79,000 during the previous year.

(2) **Outside shops**.—There were 196 (192 meat and 4 fish) outside shops in the city licensed 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. 19,400. In all 86 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. 10,150.

(3) **Scale shed**.—During the year under report the total fees collected at the Scale-shed at Mahatma Jyotiba Phule Market amounted to Rs. 13,87,516 as against Rs. 13,28,636 during the previous year.

(4) **Fish Season**.—During the year under report the total quantity of fish brought to the Markets was about 32,932 Metric tons as against 41,341 Metric tons during the previous year. The arrival of fish was less during the year.

(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°F and one for vegetables 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 deodourising and disinfecting bacteria 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	
	1969-70	1970-71	1969-70	1970-71
	Kgs.	Kgs.	Rs.	Rs.
Fish	6,15,400	8,80,700	33,886,00	34,570,00
Fruit and Vegetable	16,60,200	18,70,400		
Mutton	2,04,500	2,36,400		
Eggs	6,25,200	4,90,800		
Milk and Milk products.	2,84,050	1,10,800		

The Mutton and Fish Sections of the Cold Storage were not working satisfactorily even though repaired and hence there was no appreciable increase in the income.

(6) **Receipts**.—The total receipts during the year amounted to Rs. 97,00,657 as against Rs. 94,47,796 during the previous year. The increase in the total receipts is due to increased activities of the department.

(7) The wholesale and retail fish sections at Mahatma Jyotiba Phule Market have been shifted to the ground floor of Shri Chhatrapati Shivaji Maharaj Market building from 12th January 1971.

Wholesale egg business has been started from 22nd February 1971 and the dealers are accommodated temporarily in the old fish section of the Mahatma Jyotiba Phule Market which was vacant due to its shifting.

(8) **Stalls and spaces in Markets**.—In all Markets in the city there were 4,429 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 488 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 throughout the year.

(9) 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 articles for sale of human consumption. During the year under report 4,01,668 Kilograms of unwholesome food articles in the aggregate were destroyed.

(10) **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 41,226 Kilograms of contraband meat was seized and destroyed. In all 1,246 seizures were effected in different parts of the city and 1,169 prosecutions were instituted. The fine imposed amounted to Rs. 34,421. The amount realised by selling seized animals and skin etc. was Rs. 8,227.70. In addition to this an amount of Rs. 1,370 was recovered by way of penalty from different parties, who were found importing animals into the city without requisite permits.

SLAUGHTER HOUSES

(11) Two main Municipal Slaughter Houses viz. one at Bandra for slaughter of Horned cattle, buffaloes, sheep and goats and other at Sanegurji Marg for slaughter of pigs were continued to be operated during the year. The slaughtering chamber at Sheep Market at N. M. Joshi Marg, meant for slaughter of sheep and goats for religious purposes, was continued during the year to meet the demands from the public. The Jhatka Slaughter House at Sane Guruji Marg which was owned privately and licensed by the Corporation was also in operation during the year as usual. The revenue derived from the source amounted to Rs. 28,06,068 as against Rs. 28,92,696 during the previous year.

Licences granted for slaughtering of frogs at Dharavi were further renewed during the year.

(12) The main slaughter House at Bandra being old and outdated, New Modern Slaughter-House was under construction at Deonar and is expected to be commissioned shortly.

(13) The number of animals brought to the fair ground at Bandra Slaughter Houses and at Pig Slaughter Houses at Sane Guruji Marg and the number of animals slaughtered at both the places, were as under :—

Year	Animals brought to the fair ground at Bandra Slaughter House and Pig Slaughter House at Sane Guruji Marg.					Animals slaughtered				
	Buffa- loes	Horned cattle	Sheep & goats	Pigs	Pigl- ings	Buffa- loes	Horned cattle	Sheep & goats	Pigs	Pigl- ings
1969-70	10,914	65,199	23,39,381	10,035	33	10,896	65,223	14,15,937	9,848	31
1970-71	11,612	72,160	21,99,285	10,439	67	11,483	71,586	13,31,804	10,186	63

(14) Government Veterinary staff as usual inspected the horned cattle and buffaloes in the Slaughter House as per the provisions of the Animal Preservation 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 Houses.

(15) The principal causes of ante-mortem rejection of animals were Emaciation, Exhaustion, Pregnancy, sheep-pox, footrot, Actinomycosis, Lenkernria, John's disease, Jaundice and Febrile conditions diarrhoea and other diseases of infectious 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 breedings, milch, farm or cart purposes.

(16) 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. The causes for rejection of pigs were tuberculos, cysticercous, Cellulosal, Bruises, Hydratodosis etc.

(17) The approximate weight of dressed carcass meat of buffaloes and cattle was 9,859.1 Metric tons, that of sheep and goats 13318.4 Metric tons and that of Pigs 306.00 metric tons. Most of this meat produced was for meeting the demand in the city. The quantity of the meat rejected and destroyed as unfit for human consumption was 40.01 Metric tons of beef, 17.09 Metric tons of mutton and 6.5 Metric tons of pork which worked out to 0.41, 0.31 and 2.12 per cent respectively of the total meat.

(18) Lectures and Demonstrations on Food Inspection Meat Hygiene etc., were given to Medical and Veterinary students of different Medical and Veterinary Colleges and also to the students preparing for Public Health Inspectors' Examination from Municipal Corporation of Greater Bombay and Local Self Government Institute.

D. M. BAILUR,
Ag. Superintendent of Markets
and Slaughter Houses.

APPENDIX 'A'

Statement showing the receipts under different terms during the year 1970-71 and the previous year.

Serial No.		1969-70	1970-71
		Rs.	Rs.
1	Stallages	29,05,656	29,26,754
2	Squatter fee	17,78,276	18,99,725
3	Admission fee collected at Bandra Slaughter House.	8,11,657	7,93,259
		(2,46,677 refunded to A.S.M.).	
4	Slaughter and removal fee collected at Bandra Slaughter House Sheep Market at N. M. Joshi Marg and Pig Slaughter House.	19,51,965	19,53,350
		(8,50,187 refunded to A.S.M.).	
5	Licence fees collected from stalls and shops in Municipal Markets.	18,932	19,404
6	Licence fees for doing different type of business at Bandra Slaughter House	32,332	32,838
7	Licence fees from Private Market Owners.	79,000	93,660
8	Licence fees from firms dealing in foreign frozen fish and imported meat ham bacon and sausages etc.	7,625	10,150
9	Licence fees from outside meat shops	20,400	19,400
10	Licence fees from Butchers in Private Market.	6,250	6,937
11	Licence fees from Kamatrees, slaughterers etc. in Pig Slaughter House and Jhatka Slaughter House.	2,544	1,235
12	Licence fees from Brokers in different Municipal Markets.	1,59,150	1,91,812
13	Scale fees at M. J. Phule Market	13,28,636	13,87,516
14	Sale of right of blood at Bandra Slaughter House	25,515	23,386
15	Sale of right of removing bone pieces at Bandra Slaughter House	1,000	2,000
16	Nokarnama fees	4,700	4,454
17	Cold storage fees	33,886	34,570
18	Law Charges	176	136
19	Ground Rent	72,426	80,888
20	Chawl Rent	69,761	74,645
21	Miscellaneous	1,37,909	1,44,538
	Grant Total	94,47,796	97,00,657

MARKETS DEPARTMENT
(Suburbs).

Shri M. G. Talim continued to hold the office of the Assistant Superintendent of Markets (Suburbs) during the year under report, except for the following period when he was on leave.

2nd September 1970 to	Shri J. K. Bomisha, Head Inspector, looked after the duties of Asstt. Supdt. of Markets (Suburbs) in addition to his own.
4th October 1970	
5th October 1970 to	Shri I. K. Ansari, Head Inspector looked after the duties of As. tt. Supdt. of Markets (Suburbs) in addition to is own.
8th March 1971 :	

(1) **Markets.**—There were 21 Municipal Markets and 2 Private Markets in the Suburbs during the year 1970-71. One Open Air Market at Janta Colony at Jogeshwari was started from 1st November 1969.

(2) **Out side Shops.**—There were 246 outside meat shops in Suburbs (161 for sale of mutton, 73 for beef and 12 for pork) licensed by the Corporation during the year under report. Besides, 50 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 chambers during the year was 1 and 4 respectively. The total number of animals brought for slaughter at present Slaughter Houses and slaughtering chambers in Suburbs and number of animals slaughtered thereat after ante-mortem 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.	
1969-70	...	7,543	811	1,96,260	7,383	811	1,95,529
1970-71	...	7,166	827	2,07,300	7,160	827	2,07,180

The approximate weight of dressed meat of buffaloes and horned cattle was 2207.8 metric tons and that of sheep and goats was 1,657.44 metric tons.

The total meat destroyed at Kurla Slaughter House was 3894 Kgs. during the post mortem examination.

The unwholesome articles of food such as fish, fruits, vegetables, meat, etc. weighing 25,572 metric tons were destroyed during the year in different markets.

The total meat destroyed was 11.275 metric tons as against 10.338 metric tons during the last year.

In all 337 raids were carried out for detecting unauthorised slaughter of animals in the Suburbs. In all 312 cases were filed in which 240 accused were convicted and fined. The amount of fines inflicted during the year was Rs. 10,154.

The total amount realised in auction sale of confiscated animals and sale of skins etc. was Rs. 4,457.

The following improvements were made in the Municipal Markets and slaughter houses during the year under report.

- (1) Cement concreting of fish section at Andheri Market.
- (2) Repairs to roof of Vakola Market.
- (3) Levelling and consolidation of plot acquired for market at Navalkar's plot at Jogeshwari.
- (4) Rewiring of fish and beef section of Khar Market.
- (5) Repairs to fish platform at Pali Market.
- (6) Replacement of storage tank over W. C. Block at Santacruz Market.
- (7) Providing roof at Bazar Ward Market, Kurla.
- (8) Providing Inspector's chowky at Horse Shoe Valley Market, Ghatkopar.
- (9) Providing turn-style gates at Andheri Market.
- (10) Providing electric lights at Marol Market.
- (11) Providing new shed in Vegetable Market, Ghatkopar.
- (12) Providing tin A. C. Sheet roof for temporary squatters sitting behind C. C. Section at Khar Market.
- (13) Providing open channel drainage at Bazar Ward Market, Kurla.
- (14) Providing water troughs and dumping receptacles at Takia Market Slaughter House.
- (15) Replacement of roof and providing C. I. Sheets compound wall at Takia Market, Kurla.

Statement showing the receipts under different items during the year 1970-71.

Serial No.	Particulars	Amount received		
		1969-70	1970-71	
1	Stallage charges	...	4,31,367.71	4,31,079.19
2	Squatters' fees	...	3,85,523.73	3,92,586.83
3	Slaughter fees	...	1,91,460.00	7,76,706.50
4	Miscellaneous receipts	...	36,241.77	38,925.94
5	Licence fees	...	39,174.00	42,344.40
6	Share of enhanced entrance fees	...	...	1,25,768.91
Total		...	10,83,767.21	18,06,768.91

D. M. BAILUR
Ag. Superintendent of Markets
and Slaughter Houses.

EXTENDED SUBURBS

(1) **Markets.**—There were in all 10 Municipal Markets including 3 Open Air Markets and 6 Private Markets licensed by the Corporation.

(2) **Out side shops.**—There were 91 outside meat shops during the year, out of which 80 were mutton shops, 10 for beef and 1 for sale of refrigerated pork and pork products.

(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 47,535. The total number of animals slaughtered was 44,995 as against 32,733 slaughtered in the previous year.

During the year 32 kgs. Beef, 835 Kgs. Mutton, 2,357 Kgs. Fish, 1,877 Kgs. Vegetables and 725 Kgs. fruits were destroyed on inspection in the Markets.

In all 35 raids were carried out for detecting unauthorised slaughter and sale of animals in the Extended Suburbs during the year. In all 30 cases were filed and 27 resulted in conviction. Total fines inflicted were Rs. 738. Besides 600 Kgs. of meat was seized and destroyed as unwholesome during the year.

The following improvements were made in the Municipal markets and slaughtering houses during the year under report:—

- (1) Providing electric services to the cabins at Sainath Road Market, Malad.
- (2) Providing semi-permanent structure for vegetable bakada holders at Sainath Road Market, Malad.
- (3) Providing lights in vegetable section at Malad Market.
- (4) Construction of an open drain and providing S. W. Pipes in Mulund Vegetable Market (West).
- (5) Construction of compound wall around fish market at Sainath Road Market, Malad.
- (6) Construction of roof for fruit stalls, chillies, banana and vegetable stalls at Sainath Road Market.

Statement showing the receipts under different items during the year 1970-71.

Serial No.	Particulars	Amount received during 1969-70	Amount received during 1970-71
1	Stallage charges	2,28,474.54	2,18,074.98
2	Squatters' fees	1,82,494.90	2,02,129.05
3	Slaughter fees	432.00	25,917.00
4	Miscellaneous receipts	5,664.49	3,266.50
5	Licence fees	9,965.95	17,757.10
	Total	4,27,031.88	4,66,244.63

D. M. BAILUR,
Ag. Superintendent of Markets
and Slaughter Houses

MUNICIPAL PRINTING PRESS

Shri A. G. Hemmadi was in charge of the Press during the year 1970-71.

During the period under report 291½ Metric tons of paper was purchased from the market to meet with the requirements of the various departments.

The statement of 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.	1969-70		1970-71	
	Jobs.	Pages.	Jobs.	Pages.
Departmental Printing	...	8,492	...	10,183
Departmental Stationery	...	2,058	...	1,357
Private Parties Printing	...	33	...	26
Private Parties Stationery	...	2	...	5
B.E.S. & T. Undertaking Printing	...	11	...	5
Corporation and its Committees	31,106
Corporation Record	10,383
		10,596		41,489
				11,576
				41,470

The total quantity of paper consumed during the year under report was 384½ Metric tons as against 394½ Metric tons and 412½ Metric tons in the preceding two years.

Description of paper.	1968-69		1969-70		1970-71	
	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. 2.07	236	Rs. P. 2.17	277½	Rs. P. 2.35	244½
Badami	1.78	21	1.81	7½	1.84	15½
Other Kinds	2.35	155½	2.56	109½	2.64	124½
		412½		394½		384½

Transaction of the Press of the year closed with working Surplus of Rs. 59416 on the total turnover of Rs. 33,04,830 as against deficit of Rs. 2,26,688 (1969-70) and deficit of Rs. 3,50,894 (1968-69) on turnover of Rs. 26.54 lacs and Rs. 26.50 lacs respectively for the previous two years.

The work carried out through Outside Agencies was worth Rs. 39,137 as against Rs. 1,02,052 for the previous year.

The Press has started the work of L.R.G.P. & Markets etc., Committees in Marathi Letter Press with the existing staff and machinery in the year under report.

The number of labour staff responding to Incentive Bonus Scheme is 72 as against 78 for the previous year.

The Labour staff as on 28-2-1971 consisted of 295 workers as against 274 workers on 28th February 1969 and 270 workers on 28th February 1970. The Press is working in two shifts and the Press-Labour relations were very cordial as their grievances were redressed on the spot where practicable.

A. G. HEMMADI,
Officer on Special Duty,
Municipal Printing Press.

MUNICIPAL PRINTING PRESS
Profit and Loss Account as at 31st March 1971

EXPENDITURE					INCOME		
Dr.	Rs.	P.	Rs.	P.	Cr.	Rs.	P.
<i>Materials—</i>							
Paper, etc., stock at the beginning ...	3,45,329.59				Amount charged to Departments ...	32,84,736.48	
Do. Add Purchases ...	6,04,701.51				Amount charged to Private Parties ...	20,093.16	
Do. Outstanding Liabilities ...	35,273.39					33,04,829.64	
	9,85,304.49						
Do. Deduct stock at the end ...	1,25,142.72		8,60,161.77				
Ink-stock at the beginning ...	434.99				Deduct—Work in progress at the beginning of the year ...	10,68,071.50	
Do. Add Purchases ...	2,798.47					22,36,758.14	
Do. Deduct stock at the end ...	3,233.46 862.56		2,370.90				
Binding Materials stock at the beginning...	32,670.51				Add—Work in Progress at the end of the year	6,55,378.85	28,92,136.99
Do. Add Purchases ...	59,651.05						
Do. Deduct stock at the end ...	92,321.56 22,922.13		69,399.43		Revenue Miscellaneous ...		17,842.37
Mono Metal stock at the beginning ...	1,39,808.88						
Do. Add Purchases ...	0.00						
	1,39,808.88						
Do. Deduct stock at the end ...	1,32,818.44		6,990.44				
Lino Metal stock at the beginning ...	1,30,836.32						
Do. Add Purchases ...	50.00						
	1,30,886.32						
Deduct stock at the end ...	1,31,942.00		6,944.32				
Materials Non-consumable and Books and Dead Stock balance as per last year ...	1,67,259.52						
Do. Add Purchases ...	690.10						
	1,67,949.62						
Do. Deduct Stock at the end ...	1,45,385.40		22,564.22	9,68,431.08			
Outwork ...			37,058.95				
Do. Outstanding Liabilities ...			1,649.00	38,707.95			
Wages ...			9,49,768.53				
Do. Outstanding Liabilities ...			10,000.00	9,59,768.53			
<i>Departmental Expenses—</i>							
Rent ...	4,350.00						
<i>Repairs and Maintenance—</i>							
(a) Building ...	0.00						
(b) Machinery ...	9,819.05						
Do. Outstanding Liabilities ...	319.60						
Lighting ...	9,910.23						
Gas Charges ...	3,614.44						
Electric Charges ...	17,876.56						
Debt Charges ...	4,04,875.87						
Depreciation ...	111.31	4,44,877.16					
<i>General Expenses—</i>							
Staff Salaries ...	2,76,036.09						
Outstanding Liabilities ...	3,000.00						
Provident Fund, Pension, etc. ...	45,792.82						
Contingencies (Miscellaneous) ...	38,015.47						
Do. Outstanding Liabilities ...	11,725.34						
Telephone Charges ...	3,637.10						
Advertisement Charges ...	3,973.90						
Printing ...	2,426.87						
Do. Outstanding Liabilities ...	2,904.49						
Stationary ...	494.56						
Do. Outstanding Liabilities ...	171.10						
Transport Charges ...	26,713.10						
Do. Outstanding Liabilities ...	7,924.25						
Private Works ...	15,963.90	4,38,778.99	8,83,656.05				
			28,50,563.61				
			59,415.75				
Net Surplus ...			29,09,979.36				29,09,979.36

MUNICIPAL PRINTING PRESS

Balance Sheet as at 31st March 1971

LIABILITIES		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
(3) 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
(3) —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 & 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
	18,38,936 74		(15) Plant & Machinery purchased out Special Fund Item No. 10 ... 1,39,800 00
Less Amount Repaid ...	9,78,557 33	8,60,369 41	18,38,936 74
			9,78,567 33
			8,60,369 41
			6,55,378 85
			1,48,927 41
			1,39,808 88
			6,990 44
			1,32,818 44
			1,38,836 32
			50 00
			1,38,886 32
			6,944 32
			1,31,942 00
			1,40,748 99
			233 20
			1,40,982 19
			17,834 66
			1,23,147 53
			26,510 53
			456 90
			26,967 43
			4,729 56
			22,237 87
			28,25,953 82
			7,800 36
Outstanding Advances as on 31-3-1971 ...	40,48,206 28		28,33,754 18
	49,08,575 69		40,48,206 28
			49,08,575 69

A. G. HEMMADI,
Officer on Special Duty,
Municipal Printing Press.

Seth G. S. Medical College and K. E. M. Hospital

(Seth G. S. Medical College)

In the year 1970-71 the King Edward VII Memorial Hospital and Seth G. S. Medical College have completed 45 years of Service, the hospital rendering Medical Relief to the sick and the college imparting Medical Education to the students.

Dean

Dr. T. H. Rindani, M.D., D.Sc., F.R.Sc., F.A.M.S., held the Post of Dean throughout the year.

Assistant Dean

Dr. R. B. Redkar, M.B.B.S., D.A. held the Post of Assistant Dean throughout the year.

Professorial Staff.

Dr. Smt. M. M. Kekre, M.B.B.S., D.P.H. has been promoted to the post of Associate Professor of Preventive and Social Medicine from 30th November 1970 *vice* Dr. R. C. Mahajan M.D. D.P.H. on leave abroad.

Dr. R. N. Nayak M.D., has been promoted to the Post of Ag. Assistant Professor of Pathology and Bacteriology from 27th November 1970.

Dr. A. K. Vaidya, M.D. has been promoted to the Post of Assistant Professor of Pathology and Bacteriology from 27th November 1970.

Dr. Smt. V. N. Dadkar, M.D., has been promoted to the Post of Assistant Professor of Pathology and Bacteriology from 20th January 1971.

Dr. Smt. S. S. Nayampallim, M.D., has been promoted to the post of Assistant Professor of Pharmacology from 17th February 1971.

Dr. I. M. Mehra, M.B.,B.S., M.Sc., (Med.), has been promoted to the post of Assistant Professor of Anatomy from 1st August 1970.

Dr. Smt. S. Chandwani, M.B.,B.S., M.Sc. (Med.), has been promoted to the post of Assistant Professor of Physiology.

Dr. Smt. R. J. Minina, M.B.,B.S. M.Sc. (Med.) has been promoted to the Post of Assistant Professor of Physiology from 20th July 1970.

Dr. B. D. Dastur, M.B.,B.S. (Lond.), D.C.H. (Lond.) D.T.M.R.H. (Lond), M.R.C.P. (Lond.), has been promoted to the Post of Assistant Professor of Medicine from 1st June 1970.

Dr. (Smt.) M. D. Gurjar, M.D. has been promoted to the Post of Assistant Professor of Anaesthesiology from 1st October 1970.

Dr. R. D. Bapat, M.S., has been promoted to the Post of Assistant Professor of Surgery from 1st December 1970.

Dr. C. B. Purandare, M.D., has been promoted to the Post of Assistant Professor of Obst. and Gynaec. from 9th October 1970.

Dr. S. L. Balse, M.D., M.R.C.P.E., D.C.H., D.T.M. and H., has been promoted as Ag. Honorary Physician and Ag. Honorary Professor of Medicine *vice* Dr. M. D. Motashow on leave from 1st November 1969.

Dr. L. N. Vora, M.S., F.R.C.P.S., has been promoted to the Post of Honorary Orthopaedic Surgeon and Honorary Professor of Orthopaedic Surgery from 12th July 1970 in the vacancy caused due to retirement of Dr. A. K. Talwalkar, F.R.C.S., M.Ch.

Dr. M. L. Vaze, M.S., F.R.C.S. was promoted to the Post of Honorary Surgeon and Honorary Professor of Surgery from 1st December 1970 in the vacancy caused by demise of Dr. C. S. Worah, M.S.,

Dr. K. S. Goleria, M.S.F.R.C.S., has been promoted to the Post of Honorary Surgeon and Honorary Professor of Plastic Surgery in the vacancy caused due to demise of Dr. G. J. T. Pinto.

Dr. D. K. Karanjawalla, M.S., F.R.C.S., has been promoted to the Post of Honorary Urologist from December 1970.

Dr. P. D Rege has been promoted to the Post of Honorary Dental Surgeon and Honorary Professor of Dental Surgery from 1st July 1970 in the vacancy caused due to retirement of Dr. N. H. Moghe.

Dr. R. V. Mehta, B.D.S, has been appointed to the Post of Honorary Assistant Dental Surgeon from 17th August 1970.

Dr. P. V. Pradhan has been appointed to the Post of Honorary Assistant Psychiatrist from 1st June 1970.

Dr. M. S. Joshi, M.D., D.M.R.E., has been appointed to the Post of Honorary Assistant Neuro-Radiologist from 10th February 1970.

Dr. I. J. Pinto, M.D., M.R.C.P. (Lond.), has been promoted to the Post of Temp. Honorary Physician and Honorary Professor of Medicine (Cardiology) from 1st December 1970 in the Post of created due to retirement of Dr. K. K. Datey.

Dr. S. D. Store, M.D. Honorary Chest Physician has been appointed to the Post of Temp. Honorary Physician and Honorary Professor of Medicine from 28th August 1970.

Dr. C. K. Parikh has been appointed as Temporary Honorary Lecturer in Medical Jurisprudence and toxicology on 16th November 1970.

Dr. B. N. Purandare, M.D., F.R.C.S., has been appointed as Emeritus Professor Director in Obstetrics and Gynaecology from 27th October 1969.

Dr. P. Raghavan, M.D. has been appointed as Emeritus Professor/Director in Medicine from 16th November 1967.

Dr. K. K. Datey, B.A., M.D., M.R.C.P., D.C.H., D.T.M. and H. has been appointed as Emeritus Professor/Director in Cardiology from 7th August 1970.

Study Tour

Dr. P. K. San, M.S., F.A.M.S., Professor/Director of Surgery was deputed to attend 11th International Congress of Diseases of Chest held in Swizerland in August 1970.

Educational Programme

160 Students were admitted during the year under report. Five of the students who came from outside India were nominated by Government of India to the reserved seats and two were taken from schedule caste and backward class community.

The number of undergraduates students on the roll at the close of the year was 883 out of which 356 were lady students. The number of Post-graduates students including Research students was 432 out of which 153 were Lady students. There are 1315 students on the roll. There are 79 overseas students on the roll.

In addition to under graduate teaching, Post-graduate Course also conducted for M.D., M.S., D.O.M.S., D.A., D.V.D., D.P.H., D.P.M., M.Sc. (Biochemistry) M.Sc. (Animal Physiology), M.Sc. (Mycology), etc.

Special classes were held for occupational and Physio-therapy students and for the Nursing Staff.

For the First two weeks the newly admitted students were taken in batches to K. E. M. Hospital Wards to acquaint themselves with Medical Relief activities. Few introductory lectures and demonstrations were given before regular classes were started in the Department of Anatomy and Physiology.

The Teaching in the subjects of Anatomy, Physiology and Biochemistry were integrated as far as possible as that all the three Departments were tackling the same topic simultaneously.

Lectures were arranged for Basic Medical Science Course.

A programme of Medical Check-up and Medical Care for the Students of this College was continued during the year 1970.

Scientific and Educational films were shown during the year to the Teaching Staff, Students and members of 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 Council of Scientific and Industrial Research, The K. E. M. Hospital and Seth G. S. Medical College Staff 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 Students Hostel has 125 accommodation, Ladies Hostel has 36 rooms accommodation and Hostel situated at Naigaum meant for Interns has 44 rooms accommodation 527 male student and 146 female students had taken advantage of this hostel accommodation.

General

Professor J. C. Scadding of Institute of Diseases of Chest, Brompton of London was invited to deliver "Dr. N. D. Patel Lecture" on Tuesday the 3rd November 1970.

on 'Patterns of Respiratory Insufficiency'.

Dr. Frank Grover Ellis Consultant Surgeon Guy's Hospital was invited to deliver Dr. K. G. Munsif Memorial Lecture on 30th January 1971.

on "Horizons in Surgery Renal Transplantation."

Dr. E. J. De'souza, Professor of Anatomy at T. N. M. C. College Bombay, was invited to deliver Dr. R. G. Dhayagude Memorial Lecture on Friday the 15th January 1971. on Histo chemical Method Its evolution and Application.

Shri K. K. Shah Honourable Minister for Health and Family Planning Government of India, addressed to the students and Staff of Institution on 30th June 1970.

The following eminent Medical personnel visited these Institutions during the year under report.

- (1) 14-1-1970 Prof. R. W. D. Turner
- (2) 22-1-1970 Dr. D. V. Nair.
- (3) 11-2-1970 Dr. John Hall.
- (4) 11-2-1970 Dr. Relton.
- (5) 26-2-1970 Prof. Spillcae.
- (6) 26-2-1970 Dr. Claus Janson.
- (7) 5-3-1970 Mr. James Lister.
- (8) 16-4-1970 Prof. Victor Mckusick.
- (9) 29-6-1970 Dr. Allan J. Rayan.
- (10) 23-8-1970 Prof. J. Watts.
- (11) 25-7-1970 Dr. M. C. Daniels.
- (12) 6-8-1970 Dr. Kalaynaraman.
- (13) 20-8-1970 Dr. R. G. Desai.
- (14) 16-9-1970 Prof. N. J. Field.
- (15) 21-11-1970 Dr. Aearl Walkar.
- (16) 6-2-1971 Dr. Alexander Kessler, Chief, Humon Reproduction Unit W. H. O.
- (17) 6-2-1971 Dr. P. N. Wahi, (Director General, I.C.M.R. Delhi).
- (18) 3-11-1970 Professor J. C. Scadding of Institute of Diseases of Chest Brompton London.
- (19) 30-1-1970 Dr. Frank Grover Ellis, Consultant Surgeon Guy's Hospital, London.
- (20) 15-1-1971 Dr. E. J. Desouza, Prof. of Anatomy T. N. M. C. Bombay.
- (21) 30-6-1970 Shri K. K. Shah, Honorable Minister, for Health and Family Planning Govt. of India.
- (22) 6-11-1970 Dr. H. Bohme, a specialise in Internal, Medicine in Leipzig.
- (23) Shri Razak Tegally, Mayor of the town of Beau Basain Rose Hill.
- (24) 5-2-1971 Professor Flaminio Fidanza University of Deglia Studi Di Perugia.
- (25) 25-2-1971 Dr. Simon visiting Surgen from New York.

During the year under report the following persons who have been appointed as Pool Officers by C. S. I. R. were working in this Institute.

Dr. Smt. S. S. Palav (Gynaecology & Obst.)	... 17-11-1969 to 31-12-1970.
Dr. C. V. Patel	... 1-10-1970 Surgery.
Dr. S. S. Seshia	... 4-2-1971 Neurology.
Dr. S. D. Ghate	... 1-1-1971 to 31-1-1971.
Dr. Raghavendra Rao	... 9-2-1970 to 15-12-1970 Cardiology.
Dr. J. H. Shah	... 3-11-1969 to 3-11-1970 Paediatric Surgery.

Artists Section (Pathology)

In the Artists Section following works has been carried out during the year under report.

(1) Photographs of patients ...	...	...	...	...	...	352
(2) X-Ray Prints ...	...	...	...	...	...	268
(3) Nurses Photos ...	...	...	...	...	...	194
(4) Specimens ...	...	...	...	...	...	36
(5) Photomicrographs ...	...	...	...	...	...	108
(6) Slides ...	...	...	...	...	...	1,886
(7) Graphs for Research work ...	...	...	...	...	...	137
(8) Diagrams ...	...	...	...	...	...	26
(9) Miscellaneous... ..	...	...	...	...	...	250
					Total	3,257

Department of Surgery

(1) Clinical Cases Photographs ...	...	...	...	...	...	305
(2) X-Ray Reproduction ...	...	...	...	...	...	1,281
(3) Micro Photograph ...	...	...	...	...	...	71
(4) Specimen Photographs ...	...	...	...	...	...	177
(5) Lanterns Slides 35 mm. of Microphotograph, X-Ray Specimen drawing charts, etc....	...	...	...	...	...	2,718
(6) Graphs and lettering charts ...	...	...	...	...	...	585
(7) Operation photos in coloured ...	...	...	...	...	...	243
(8) Enlargements for publications ...	...	...	...	...	...	938
(9) Book Reproduction for slides for teaching ...	...	...	...	...	...	1,110
(10) Miscellaneous... ..	...	...	...	...	...	33
					Total	7,461

Library

Additional budget provision was made to purchase more books and to subscribe for new periodicals. This helped both undergraduate and postgraduate students, 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 252. This includes 12 new Journals added during this year.

During the year under report 708 books were added to the Library.

The following books were presented to the Library.

	Books
In memory of late Dr. J. L. Patel	1
University Grants Commission	63
CIBA of India	9
UNICHEM	4
Dr. S. D. Deodhar and M. L. Vaze	1
Hamilton Baiyy Memorial Fund	13
Dr. S. D. Deodhar	1
U. S. I. S.	1
In Memory of Shri N. J. Vasaikar	21
World Health Organisation	1
Dr. R. J. Sabnis	2
Total ...	117

Gymkhana

- (1) National days were celebrated.
- (2) Annual College week was celebrated from 3rd February 1971.
- (3) Dr. T. H. Rindani, Dean Presided over the Annual Prize Distribution Function held on 23rd January 1971.
- (4) Annual sports Day was held on 23rd January 1971 when Chief Guest was Shri Vijay Merchant.

DEPARTMENT OF ANATOMY

Research Publications

- (1) Ectopia Vesicae : Its Genesis and Semantics, "Journal of Postgraduate Medicine" (pp. 1-4), January 1970. (By Dr. M. L. Kothari, Lopa Mehta, M. L. Mehta, and Meena L. Kothari).
- (2) "The raison d'etre of LYMPHATIC ABSORPTION OF LIPIDS: A DESIGN IN LIPID HOMEOSTASIS"
Journal of Indian Journal of Medical Sciences January 1970 (pp. 26-30), By: (Dr. M. L. Kothari, Lopa Mehta and Meena K. Kothari).
- (3) "TIME EVOLUTION AND MAN."
Journal of Postgraduate Medicine April 1970, (pp. 51-64.), (By : Dr. M. L. Kothari and Lopa A. Mehta).
- (4) "FUNCTIONAL SIGNIFICANCE OF THE EVOLUTION, AND THE ANATOMY OF THE MAMMALIAN THORACIC DUCT"
Indian Journal of Medical Sciences July 1970. (pp. 414-418), (By : M. L. Kothari, Lopa Mehta, Jyoti Kothari and Meena Kothari).
- (5) "A UNIFYING CONCEPT OF AGING, SENESCENCE (Cancer, Blood vessel Disease, Diabetes Mellitus and Altered Cell-Immunocyte Interaction*) AND DEATH IN MAN**"
- (6) "THE NATURE OF DIABETES MELLITUS — A POINTS OF VIEW."
Indian Journal of Medical Science — October 1970(pp. 661-677), (By M. L. Kothari and Lopa A. Mehta.).
- (7) "DRACONTIASIS IN MAN Biology of the worm and Pathology of Lesions."
Indian Journal of Surgery. October 1970. (pp. 462-470), (By M. L. Kothari, D. S. Pardhanani, M. P. Anand, Lopa A. Mehta, D. L. Kothari.).
- (8) "Management of Dracontiasis"
Indian Journal of Surgery — October 1970 (pp. 479-484), (By M. L. Kothari, D. S. Pardhanani, M. P. Anand, Lopa Mehta, D. L. Mehta.)

Department of Pathology

During the year under report the following researches were undertaken in the Department.

- (1) Bacteriology of Urinary tract Infection.
- (2) Bacteriology of Ear Infections.
- (3) Bacteriuria in Pregnancy and in Women taking oral contraceptive pills.
- (4) Vaginal flora of woman taking oral contraceptive pills.
- (5) Study of Hospital Infections.
- (6) Studies on salmonella para Typh A bacteriophage.

Department of Pharmacology

The Pharmacological research Unit of C. S. I. R. and Clinical Drug trial Unit of C. S. I. R. actively collaborated with various clinical departments of K. E. M. Hospital and other institutes as before.

Screening new compounds received from C. D. R. I. (Central Drug Research Institute), R. R. L. (Regional Research Laboratory and Haffkine Institute for their pharmacological actions on Central Nervous System and other properties like anti-inflammatory, analgesic anti-convulsant, diuretic, etc.

Total number of compounds screened: 328.

During the year, the third unit of 10 beds for clinical trials financed through outside grants was put into operation.

Total number of beds in the Clinical Pharmacology now is 30.

Considering the growing need for adequately trained Clinical Pharmacologists a post doctoral course in Clinical Pharmacology (D. Cl. Ph.) has been started under the auspices of the College of Physicians and Surgeons, from August 1971.

As a further active contribution to the clinical side a monthly bulletin entitled 'Drug Information Bulletin' has been started in this division and circulated to resident and honorary Medical Staff including departments of Medicine and Surgery. The bulletin is also available to other institutions on request.

Many of the members participated and read papers in different scientific conferences during the year.

One project on OPD services and hospital dispensary was completed under the guidance of Dr. S. M. Karnadikar. The findings and suggestions are likely to help the administrators for further improvements in these areas.

List of Publications from the 1st January 1970 to the end of December 1970

- (1) Anti-inflammatory and other pharmacological studies of N-B(3,4 Dimethyl Phenylethyl) Anthranic acid (RH-15) ; A nonsteroidal anti-inflammatory agent. K. C. Gupta, E. N. Rupawalla and U. K. Sheth. Indian J. Med. Res., 58, 110-118, 1970.
- (2) Effect of stress on pentobarbital sleeping time in Rats, Vimala H. Shethy, S. R. Naik and U. K. Sheth. Indian J. Med. Res. : 58, 352-357, 1970.
- (3) Studies on rat brain Acetylcholine and cholinesterase Part I. Effect of body weight, Sex, stress and CNS depressant drugs. S. R. Naik, R. K. Anjaria and U. K. Sheth. Ind. J. Med. Res. 58, 473-479, 1970.
- (4) Studies on Rat brain acetylcholine and cholinesterase part II. Influence of centrally acting drugs S. R. Naik and U. K. Sheth. Ind. J. Med. Res. : 58; 480-486, 1970.
- (5) Indigenous diuretics—A review. U. K. Sheth and Vimala H. Sethy. [Advances in Research in Indian Medicine, 1970. Banaras Hindu University (Publishers.)
- (6) Effect of Guanethedine on pentobarbital sleeping time. S. R. Naik P. Y. Naik and U. K. Sheth. Ind. J. Med. Res., 58, 1475-79, 1970.
- (7) Antinflammatory activity of thiamine and nicotinic acid. S. R. Naik, Eliza N. Rupawala and U. K. Sheth. Biochem. Pharmacol. : 10, 2867-73.
- (8) The effect of Drugs Influencing Amine Synthesis on the Analgesic Action of tremorine. Vimala H. Sethy, S. R. Naik and U. K. Sheth. Psychopharmacologia, November 1970.
- (9) Effect of d-Amphetamine sulphate in combination with CNS depressants on spontaneous motor activity of mice. Vimala H. Sethy, S. R. Naik and U. K. Sheth, Psychopharmacologia, 18, 19-25, 1970.
- (10) Role of brain Amines in the Analgesic action of Meperidine Hydrochloride. Vimala H. Sethy, Ratan J. Pradhan, S. S. Mandrekar and U. K. Sheth. Psychopharmacologia, 17, 320-326, 1970.
- (11) Role of catecholamines in morphine and meperidine of Analgesia Vimala H. Sethy, Ratan J. Pradhan, S. S. Mandrekar and U. K. Sheth. Ind. J. Med. Res. 58, 1453-58, 1970.
- (12) Usefulness of amiloride hydrochloride (MK 870) as an adjuvant in long term treatment of hepatic cirrhosis. V. H. Sethy, J. M. Mehta and U. K. Sheth. Journal of Clinical Pharmacology and New Drugs. December, 1970.

List of Papers sent for Publications

- (1) Study of factors affecting serum FFA, Blood sugar, Blood Cholesterol and adrenal ascorbic acid in rats. P. Y. Naik and U. K. Sheth. Sent to Ind. J. Pharmacol.
- (2) The role of central mono-amines in decapitation convulsions of mice. Usha G. Kamat and U. K. Sheth J. of Neuropharmacology.

(3) Synthesis and C. N. S. Depressant Activity of N-arykyl nicotonic acid amide. P. B. Sattur and N. Bhanumati, U. K. Sheth, and S. M. Mandrekar. Sent to J. Med. Chem.

(4) Effects of anti-inflammatory drugs on glutathione levels and liver succinic dehydrogenase activity in carrageenin oedema and cotton pellet granuloma. S. R. Naik, S. G. Kalyanpur and U. K. Sheth. Sent to Biochem. Pharma.

(5) Effect of Dinitrophenol and fasting on carrageenin induced oedema. S. R. Naik, S. M. Karandikar and U. K. Sheth. Sent to Jap. J. Pharmac.

Clinical Pharmacology Division

During the year the following projects were completed.

- (1) M. K. 910—Amoebicidal drug.
 - (a) Tolerance studies on volunteers.
 - (b) Efficacy studies on patients with intestinal amoebiasis.
- (2) Septrin in Respiratory infections.
- (3) U. C. B. 1414 as a hypnotic.
- (4) H. R. T. granules as combined anthelmintic.

The Projects that are continuing.

- (1) Go 4416 B—a hypotensive agent.
- (2) Go 2330—an antidepressant.
- (3) Go 6050—a hypnotic.
- (4) Flagyl—as a single dose treatment in amoebiasis, giardiasis, and *Trichomonas Vaginalis*.
- (5) Zaroxolyn—a new diuretic.
- (6) Cephelexin in urinary tract infections.
- (7) Cephelexin in respiratory tract infections.
- (8) Salbutamol in Bronchial Asthma.

The Laboratory Investigations done :

(1) Clinical Pathology 3,569

Biochemistry :

(1) Liver function tests 6,916
 (2) Renal Function tests 2,718
 (3) Miscellaneous tests 2,067
 (4) Microbiology 862

Statement showing the investigations carried out at Radio-isotope Laboratory during the period 1st January 1970 to 31st December 1970.

Description of Test	No. of Tests
---------------------	--------------

Tracer techniques and isotope therapy :

(1) Radio-iodine tracer studies 481
 (2) Treatment with radio-iodine 48
 (3) Treatment with radiogold—Au 198 1
 (4) Pituitary implantation with yttrium—90 1
 (5) Blood volume and cardiac out-put studies by (RISA) (Animal) 50
 (6) Radio active Vit. B.12 studies.

Biochemical estimations :

(7) Basal metabolic test 750
 (8) Serum calcium 171
 (9) Serum creatinine 76
 (10) Serum phosphorus 109
 (11) Urine calcium 230
 (12) Urine Phosphorus 92
 (13) Urine Creatinine 232
 (14) Serum sodium 65
 (15) Serum potassium 65
 (16) Serum chloride 65
 (17) Urine urea 130
 (18) Urine uric acid 130
 (19) Haemoglobin 13
 (20) P. C. V. 13
 (21) Serum total protein 13
 (22) 17 keto steroid 10
 (23) 17 ketogenic steroid 10
 (24) Serum alkaline phosphatase 102

Table showing the total amount of radioisotope used during the year

Isotopes :						
(1)	Iodine I ¹³¹	...	...	...	...	432.7 mc.
(2)	CO58 Vit. B12	...	...	...	...	43.4 mc.
(3)	Yttrium 90	...	...	...	...	19.5 mc.
(4)	Gold Au198	...	...	...	...	127.8 mc.
(5)	RI ¹³¹ SA	...	...	...	...	7.48 mc.
(6)	Chromium Cr.51	...	...	...	...	1.9 mc.

Three new instruments were installed in Radioisotope Laboratory which will facilitate working.

Preventive and Social Medicine Department

The Department of Preventive and Social Medicine has now completed Twelve and half years. A large number of extramural activities to initiate the trainees in the principles and practice of community Medicine was continued during the year 1970.

Services :

1. Family Health Clinic

Total number of days the clinic worked	...	...	...	...	250
Total number of cases treated during the year 1970-71	...	...	...	...	6,683
Daily average...	...	...	...	...	26

2. Family Health Centre

Total number of days centre worked	...	...	...	...	70
Total number of cases given full medical Check-up	...	...	...	...	182
Daily average...	...	...	...	...	2

3. Laboratory Investigations.

R. B. C.	...	...	...	...	444
H. B.	...	...	...	...	550
W. B. C. (T)	...	...	...	...	479
W. B. C. (D)	...	...	...	...	479
E. S. R.	...	...	...	...	102
URINE	...	...	...	...	387
Stool	...	...	...	...	184
SPUTUM	...	...	...	...	10
SEMEN	...	...	...	...	2

Total ... 2,637

(4) Parel Diagnostic Centre of F/South Ward started functioning from 15th December 1970.

Provides :

- (A) Service in the form of diagnostic dispensary service and routine Lab. investigations and screening.
- (B) Training : (i) of interns as a part of Urban internship Programme in community Health, General Practitioner's Survey and Health drive. (ii) Lab. Assistants in routine Lab. Work. (iii) Refresher course for G. Ps. in Family Planning.
- | | | | | | |
|--|-----|-----|-----|-----|-----|
| (C) Total attendance of Patients | ... | ... | ... | ... | 360 |
| Total Pathological Investigations | ... | ... | ... | ... | 217 |
| Screening | ... | ... | ... | ... | 215 |
| Referrals for expert opinion | ... | ... | ... | ... | 110 |
| Attendance of G. Ps. for Refreshers Course | ... | ... | ... | ... | 5 |

(5) Slum Welfare project at Sewree Started from April 1970.

Provides :

- (A) Service to slum dwellers of the Colony as dispensary service, Immunizations viz. oral polio, Triple antigen, TABC and small Pox and referrals to K. E. M. Hospital for expert opinion.
- (B) Training of interns as a part of Urban internship-programme in community Health and F. P. Surveys. Training of S. N. D. T. Nurses in domicillary visits.
- (C) Supervision of Milk and Bread distribution Scheme at the Colony under Govt. of Maharashtra Nutrition Programme.
- (D) Supervision of treatment of T. B. Patients under organised Home treatment Scheme.

Administration—

(1) Internship Programme

The department continued to organise the general Internity Programme in 1970-71.

- (2) Dr. D. N. Pai is in charge of the Urban Health Internship Programme for the Medical interns from all the city Corporation Medical Colleges.
- (3) Dr. Smt. Bhalerao Participated in the Rural Health internship Programme for 1970-71.
- (4) Since August 1970, Medical Social Service department is under the Central administration of the department of preventive social Medicine. Members of the staff of department of preventive and social Medicine take active part in the meetings case conferences, etc. of Medical Social Workers.

IV.—Research (In Progress) :

- (1) Incidence of Infective Hepatitis in fertile age group of Women admitted at K. E. M. Hospital and Kasturba Hospital by Dr. Bhalerao.
- (2) Incidence of Anaemia and its environmental Etological factors in the population coming from F/South Ward at Diagnostic Centre, by Dr. Smt. V. Desai.
- (3) Health and Family Planning survey of slum dwellers at the 2nd October Colony—Sewree by Dr. Smt. Pochkhanwale.
- (4) Socioeconomic Health and Family Planning dwellers at Parel by Dr. Smt. Kekre.
- (5) Demographic Survey of women delivering in municipal maternity Institutions by Dr. D. N. Pai.

Department of Medicine

The Department of Medicine consisting of six general Medical Units (One full-time Unit and five Units under Honorary Professor and Assistant Professors) carried on its clinical, teaching and research work during the year in its various sections, viz., Gastroenterology Clinics, Renal Unit, Neurophysiology Section.

The Endocrinology and Gastrointestinal Sections attached to the Department of Medicine continued to function as before. The Professorial surgical unit collaborates in the clinic.

The laboratory section attached to the Gastrointestinal clinic and functioning under the Department of Medicine and Surgery carried out a variety of specialised investigative studies as detailed below :—

(1) Complete Haemogram	1,540
(2) Urine Analysis	1,365
(3) Stool Analysis	1,864
(4) Gastric Analysis	155
(5) Fasting Gastric Aspiration	52
(6) Sigmoidoscopy Examination	185
(7) Serum Iron	20
(8) Co 58 B12 Schilling Test	82
(9) Fecal Fat.	88
(10) D'Xylose	25
(11) G. T. C.	12
(12) L. T. C.	10
(13) Serum Amylase	45

Endocrine Clinic, besides continuing to do the useful work as before, on hypophysectomy with radioactive y90 for patients of achromegaly, continued to treat cases of inoperable malignancies of breast with the aid to the Atomic Energy Establishment and the surgical unit. The Clinic actively collaborates with the radio-isotope Laboratory of the Deptt. of Pharmacology.

The Renal Unit and its artificial kidney division has made tremendous strides during the year under report. The haemodialyser unit donated by Dr. P. V. Cherian Artificial Kidney Trust has been put to use for managements of patients of chronic renal failure by intermittent dialysis. The figure of total dialysis done has reached 1190 with a record of more than 400 dialysis in the year under report itself. An additional donation of one unit each from Wadia Charities and from Dr. P. V. Cherian Artificial Kidney Trust are due to arrive during the next year. With these facilities, an addition of chronic peritoneal dialysis has also been made to augment further the treatments of renal failure patients, so as to convert this section into nephrology, dialysis and renal transplanatation unit in the Department of Medicine.

The Neurophysiology section with its EEG laboratory continued to do vital studies with the help of 16 channel electroencephalography. The long awaited Faraday Cage has been installed and has been very valuable in removing outside electrical interference.

The Pulmonary Function Laboratory continued its useful activities. It has now been divided into two parts : One housed at the Cardiovascular and Thoracic Centre to offer investigative facilities to the chest clinic and the thoracic surgery department; and second which continues to be housed in a Laboratory in the main Department of Medicine has the gas analysis section together with facilities for evaluation of patients suffering from various diseases of respiratory function.

The work done in the Bio-chemical Laboratory and for Gastric Analysis is as under :—

(1) Blood Urea Nitrogen	4,260
(2) Blood Creatinine	4,330
(3) Blood Sugar	1,040
(4) Uric Acid	80
(5) Total Proteins	210
Electrophoratic Pattern	130
(6) Serum bilirubin	370
(7) S. G. O. T.; S. G. P. T.	220
(8) Creatinine clearance	130
(9) Urine Urea	115
(10) Electrolytes (Serum, Urine fluids)	4,510
Na	4,580
K	4,510
U ... ..	...
(11) Co 2 Content (Van Slyke)	2,100
(12) Cholesterol	52
(13) Barbiturate	70
(14) Blood and Urine Osmolarity	70

(15) Miscellaneous :—

Urine, P. H; B. S. P. Clearance, Blood Ammonia Sulphanamides Urobilinogen, Methaemo calculi, Globin.

Full Time Department of Surgery

The full-time Department of Medicine and Surgery which have been created at these institutions in 1956-57 with the help of the Rockefeller Foundation, New York have continued to do progress during the year under report.

Biochemical sections of the Department of Medicine and Surgery. Total work handled during the peiord 1st January 1970 to 31st December 1970.

	No. of samples
Blood chemistry :—	
(BUN, Creatinine, Plasma Protein, Electrophoresis pattern, Electrolytes, Uric Acid, Amylase, Cholesterol, Bilirubin, all enzymes, G. T. C _s , etc.)	36,714
Haematological Estimations :	
(PCV, ESR, RBC, WBC (Tl. and diff.); B. T. C. T., Prothrombin time, Iron and Vit.	
B12	10,753
Routine urine	1,385
Routine stool	1,885
Gastric analysis and Biochemistry	342
Oxymetry	3,064
Special Studies :	
Blood volume studies	8
Blood and Urine barbiturates	70
Hep. Protamin titration	468
Osmolarity	70
Sulpha compound	2
Blood Amm.	37
Urine Acetone Bodies and Urobilinogen	50
Urinary Calculi	1
Total	54,849

Workload for the period of 1st January 1970 to 31st December 1970.

X-Ray Department :

Cardiac investigations	133
Angio-Cardiogrames	96
Aortogrames	113
Cine Angio	3
Arteriogrames	13
Lymphangiogrames	12
Venogrames	22
Bronchogrames	64
Intracardiac Pacemaker Catheter	11
Spleno-portogrames	68
I. V. Pyelogrames	31
Barium meal	8
Tomogrames	49
Y 90 Implantation in pituitary gland	2
Routine work including unsuccessful investigations	1,782

Thoracic Surgery Theatre :

	Operations.
(1) Mitral valve replacement under cardiopulmonary bypass	9
(2) Aortic valve replacement under cardiopulmonary bypass... ..	5
(3) Closure of ASD under Cardiopulmonary bypass	22
(4) Total correction of Fallot's Tetralogy under cardio-pulmonary bypass	3
(5) Mitral and Aortic Valvotomy under C. P. Bypass	7
(6) Excision of Aneurysm under C. P. Bypass	8
(7) Excision Medlasthan Tumour	1
(8) Extra Vorporeal Blood circulation	1
(9) Liver transplant	1
(10) Pericardectomy	1
(11) Limb. Perfusion	1
(12) Mitral commissurotomy	46
(13) Blalock Tausg's shunt	7
(14) Ligation of P. D. A.	4
(15) Lung. Operations	3
(16) Vascular Surgery (Operation)	5
(17) Miscellaneous	30
Total	154

Experimental Laboratory (T. S. T.):

(1) Liver Transplant	...	...	...	...	...	...	41
(2) Vagotomy testing	...	...	...	...	...	...	18
(3) Lang Transplant	...	...	...	...	...	...	18
(4) Vasectomy	...	...	...	...	...	...	18
(5) Vasoplasty	...	...	...	...	...	...	10
(6) Excision of Bilateral Testis	...	...	...	...	...	...	3
(7) Thoracotomy	...	...	...	...	...	...	1
(8) Pneumonectomy	...	...	...	...	...	...	1
(9) Aortic cannulation	...	...	...	...	...	...	3
(10) Aorto-Aortic shunt	...	...	...	...	...	...	5
(11) Jugular—carotid Grafting	...	...	...	...	...	...	4
(12) Ligation of coronary artery	...	...	...	...	...	...	11
(13) Accupuncture of Heart	...	...	...	...	...	...	5
(14) Injection of flurocin to the heart	...	...	...	...	...	...	1
(15) Coronary flow measuring	...	...	...	...	...	...	1
(16) Total Heart Transplant	...	...	...	...	...	...	2
(17) Heart Lung Transplant	...	...	...	...	...	...	1
(18) Abdominal Heart Transplant	...	...	...	...	...	...	23
(19) Removal of Ligation of Coronary Artery	...	...	...	...	...	...	1

Experimental Laboratory :

(20) Mitral Commissurotomy	...	...	...	...	...	...	1
(21) Production of P. P. M.	...	...	...	...	...	...	3
(22) Pulmonary Artery Anaeritosis	...	...	...	...	...	...	1
(23) Angiogram ...	...	...	...	...	...	...	2
(24) Injection of radio-opaque substance to the Heart	...	...	...	...	...	...	2
(25) Heart perfusion	...	...	...	...	...	...	7
(26) Creation of Portal Hypertension	...	...	...	...	...	...	2
(27) Thoracic Duct Cannulation	...	...	...	...	...	...	7
(28) Pulmonary Artery Lidgation	...	...	...	...	...	...	2
(29) Mitral valve replacement	...	...	...	...	...	...	1
(30) Aortic Valve replacement	...	...	...	...	...	...	1
(31) Liver perfusion	...	...	...	...	...	...	1
(32) Aorto Pulmonary Shunt	...	...	...	...	...	...	3
(33) Porto-Caval Shunt	...	...	...	...	...	...	2
(34) Hyperthermic Limb perfusion	...	...	...	...	...	...	13
(35) Exploratory Laparotomy	...	...	...	...	...	...	1
(36) Resection anaeritosis of colon with Gastrostomy	...	...	...	...	...	...	1
(37) Kidney Transplant	...	...	...	...	...	...	11
(38) Splenectomy	...	...	...	...	...	...	3
(39) Skin Grafting	...	...	...	...	...	...	12

Research enquiry "Study of occlusive diseases of the aorta and its branches" under the auspices of the National Institute of Health, U. S. A., conducted under Dr. P. K. Sen was in progress.

A Seminar on "Extracorporeal Circulation" was conducted under the auspices of the University Grants Commission and the University of Bombay in September-October 1970. 64 participants from different Medical Colleges and Hospitals, all over India attended the Seminar. The Seminar which was for 20 days consisted of lectures, symposia, demonstrations and visits to other medical institutions in the city.

The Department of Anaesthesiology for the Year 1970-71.

The department continued to function satisfactorily giving its services to all the operation theatres during this year. Besides conducting cases, there was a heavy demand on cases needing I. P. P. R. These were attended to. A new Vaporiser to relieve pain during labour was tried-out successfully. A new ventilator for resuscitation of pediatric cases was added.

The department took an active part as teacher participant in reorientation programme for extra-corporeal circulation under the auspices of University grants commission.

The work on the following problems was done :

1. Blood Gas Analysis under Air other anaesthesia.
2. Anaesthetic management of cases of renal failure.
3. Study of an indigenous vaporiser.
4. Experimental study of lung transplant.
5. Study of indigenous humidifier.
6. Electro-anaesthesia.

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 1,333. As usual there was constant overcrowding in the hospital particularly in the Children Wards and Medical and Surgical Wards for females.

During the year 1970, the average number of In-patients in the hospital was 1,798, as against 1,820 and 1,667 during the year 1969 and 1968 respectively indicating the increasing the demand for the hospital beds. Even after imposing restriction to routine admission in order to control overcrowding, the total number of patients admitted for hospitalization during the year under report was 60,761 as against 61,011 and 57,989 respectively during the two preceding years. The average stay of In-patients was 10.8 days during the year under report as against 10.6 and 10.5 days in the 1969 and 1968.

Results of Treatments of Indoor Patients

Out of the total number of 62,500 patients including 1,739 brought over from the previous year 3,151 discharged as cured, 47,102 were Relieved and 6,090 left the hospital either against Medical advice or were otherwise discharged and 4,396 died (excluding 399 Still Borns and Neonatal deaths.). At the end of the year 1,761 patients were in the hospital under treatment.

Death Classified

Out of 4,396 deaths, 1,520 died within 24 hours of admission, 320 after 24 hours but within 72 hours of admission and the rest 2,556 deaths took place after three days from the date of admission. The figures are exclusive of 399 Still Borns and Neonatal Deaths. Death rate was 7 as against 7.3 during the last year.

Total number of autopsies performed during the year under report was 1,820 including 19 autopsies performed on the bodies received from the Nowrojee Wadia Maternity Hospital as against 1,858 and 1,705 for the year 1969 and 1968 respectively. Autopsy rate was 41.36 for the year 1970 as against 40.93 and 43.1 for the year 1969 and 1968 respectively.

Confinements

During the year under report, the total number of confinements were 6,086.

Operations

25,849 Operations were performed on In-patients and 45,209 Operations were performed on Out-patients.

OUT-PATIENT DEPARTMENT :

Issue of New O. P. D. Case Papers

In order to eliminate the waiting time for obtaining O. P. D. Case papers, when the patients attend the hospital for second and subsequent occasions, it was decided to hand over the O. P. D. Case papers to the patients themselves. This practice was started from January 1970. The patients are also issued with the Polythine (Plastic) bags alongwith the New O. P. D. Case papers to enable them to preserve the Case papers safely.

Decentralization

The Registration Section (New O. P. D. Cases) has been decentralised and the New Case papers are now being issued from a few Departments themselves from May 1970 on a trial basis as detailed below :—

Department of Dermato-Venereology
 Department of Psychiatric
 Orthopaedic Centre
 All O. P. D.s held at C. V. T. C.

As this system is found to be working very satisfactorily further decentralisation in other Departments is under consideration.

Out Patients particulars

The total number of New cases issued during the year under report was 3,66,994 as against 3,45,096 and 3,42,112 in 1969 and 1968. The total number of Out-patient attendance (New and Old Cases including Casualty Cases) was 7,17,150 bringing the average total attendance 2,351 per day.

Casualty cases registered during the year were 44,644 as against 65,163 and 78,769 during the year 1969 and 1968 respectively. The minor cases such as nail injury or stone injury, etc., reported to the Casualty are now-a-days not recorded in the Casualty Register and hence the fall in the number of Casualty Cases in comparison with figure of the previous year.

The highest number of patient treated on a single day was 1,821 (excluding old cases) on 29th June 1970. The highest number of Casualty Cases treated on one day was 194 on 20th October 1970.

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	...	...	...	...	...	966
(2) Session Courts	...	...	...	...	...	55
(3) Coroner's Court	...	...	...	...	...	9
(4) Motor Accident Tribunal	...	...	...	...	...	27
(5) Other Courts	...	...	...	...	...	19

During the year approximately 1,720 depositions were filed in the Coroner's Court.

Medical Certificates :

(1) Under Workmen's Compensation Act	...	...	...	...	304
(2) Medical Opinion Certificate	...	...	...	...	4,806
(3) Injury Certificates to Police in Medico-legal Cases (Free)	...	...	...	...	2,068
(4) Injury Certificate to patients in Medico-legal Cases	...	...	...	...	172
(5) Certificates to Municipal Employees for Injury leave (Free)	...	...	...	...	64
(6) Certificate for Insurance purposes	...	...	...	...	60
(7) Essentiality certificates for i. e. imbursements of Medical expences to Governments	...	...	...	...	1,200
(8) Accident Insurance Certificate	...	...	...	...	223

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.

The following figures will give an account of the Medical Social work done through the Department during the year under report :—

(1) Material help : Costly Medicines, Calipers, Protheses, Milk, Clothes, Financial and [for transport, high protein diet, etc.	...	...	...	...	...	2,552
(2) Social Case work	...	...	...	...	...	288
(3) Social History	...	...	...	...	...	1,591
(4) Discharge, Institutionalization and Placement	...	...	...	...	...	180
(5) Rehabilitation	...	...	...	...	...	129
(6) Follow-up of old cases	...	...	...	...	...	279
(7) Referral to other agencies viz., Port Trust Railways	...	...	...	...	...	59
(8) Referral to organised home treatment Clinic for Family screening, ECG, etc.	...	...	...	...	...	154
(9) Adoptions arranged	...	...	...	...	...	3
(10) Child Guidance Clinic	...	...	...	...	...	12
(11) Mental deficiency Children's Clinic	...	...	...	...	...	145
(12) Psychotic Patients' relative group	...	...	...	...	...	12
(13) Number of Institutions visited for blood donation	...	...	...	...	...	48
(14) Vountary blood donors	...	...	...	...	...	3,871
(15) Total number of relative donors	...	...	...	...	...	2,367
(16) Incidental Service	...	...	...	...	...	8
Total					...	11698

This Department is now centralised for proper distribution of work under the Professor of Preventive and Social Medicine.

Neuro-Surgical Department

During the year under report 1,257 New patients and 1650 repeat patients were treated at the Out-patient Department and 512 inclusive of 34 cases transferred from other Services were admitted as In-patients.

Specialised Radiological investigations were carried out in the Department during the year under report.

The following figures will give an account of Radiological and operative procedures done in the Department.

(1) Operations Major	...	...	...	...	...	231
(2) Operations Minor	...	...	...	...	...	768
(3) Radiological investigations	...	...	...	...	...	2,269

Neurology Department

During the year under report 1,413 New patients were treated at the Out-patient Department and 593 patients were admitted as In-patients. 250 New cases were treated at the Epilpsy Clinic of the Department of Neurology. These figures exclude the cases referred by other Services.

Cardiology Department.

The Intensive Cardiac Care Unit was started in this hospital in December 1966. This Unit is now having 10 beds.

The following is the statement which will give the account of the work done in cardiology department during the year 1970 :—

Cardiac Out-patient Department :

(1) Total Number of new cardiac patients.	...	...	...	...	Patients	2,093
(2) Total number of follow-up cases	...	...	...	...	...	10,290
(3) Cardiac cases treated in Wards (including referred cases from other Section)	...	...	...	...	...	920
(4) Total number of Electro-cardio-Graphs taken during the year	...	...	...	...	...	23,000

Intensive Cardiac Care Unit :

(1) Cases admitted	...	...	...	...	...	481
(2) Reuscitations from Cardiac arrest	...	...	...	...	...	81

Pacing :

							Patients
(1) Elective Bipolar Pacemaker Implantation	...	...	...	...	...	...	27
(2) Emergency Bedside Transvenous	...	...	...	...	...	...	20
(3) Permanent Implantation	...	...	...	...	...	...	1
(4) Emergency Transthoracic	...	...	...	...	...	...	6

Cardioversion :

(1) Elective	...	...	...	...	...	...	18	Episodes
(2) Emergency	...	...	...	...	...	...	290	"
Intracardiac Electrocardiography	...	...	...	...	...	...	22	Patients
Oesophageal Electrocardiography	...	...	...	...	...	...	40	"

Cardiac Catheterization :

(In collaboration with department of Diagnostic Radiology)—

Number of Cardiac Catheterization	...	...	...	...	...	...	133
Number of Angiography :							
Angiocardiography	...	...	...	...	...	...	96
Arterial Angiography	...	...	...	...	...	...	113
Oxymetry	...	...	...	...	...	...	127

Biochemistry Section :

Biochemical Investigations	20,736
----------------------------	-----	-----	-----	-----	-----	-----	--------

Gynaecology and Obstetric Department

During the year under report 10,960 and 7,803 New Cases were treated at the Out-patients Departments of Gynaecological and Obstetrics respectively, and 2,894 and 7,867 patients were admitted in Gynaec and Obstetric Wards respectively during the year under report.

Dr. N. A. Purandare Gynaec and Obstetric Reserach Centre.

In Dr. N. A. Purandare Gynaecological and Obstetric Reserach 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.

Family Planning Centre

The total attendance of the Centre was 2,846 during the year under report and the total number of cases registered was 815. As regards the contraceptives, accents was mainly on Condon and Jelly method. 133 Vasectomy operations and 666 Sterilization operations were performed during the year under report.

Some of the patients were referred to Dr. N. A. Purandare, Gynaecological and Obstetric Reserach Centre for oral contraceptive.

School Clinic Department.

Municipal School Clinic worked in five Departments, viz., Medical Ophthalmic, Aural, Skin and Dental where the children from various Municipal School are medically examined 1,825 New children and 22,576 Old children were treated in the School Clinic Department in addition to 1,657 referred cases making a total 26,058.

Common complaints were Anaemia, Bronchitis, Roundworm, Tonsillitis, Caries teeth and Vitamin 'A' Deficiency.

The total expenditure incurred on School Clinic Department, K. E. M. Hospital amounted to Rs. 57,447 during the previous year.

Paediatric (Medical) Department

During the year under report 25,658 New Cases were treated at the Out-patient Department and 6,207 were admitted as In-patients.

Diabetic Clinic

The Diabetic Clinic was established in 1958. During the year under report the total attendance at the Clinic was 19,251 out of which 1,799 were registered as New cases.

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.

During the year under report 1,799 New patients were registered at the Clinic. The total number of attendance of the Clinic was 19,251 and 890 patients were admitted for Diabetic treatment. The patients attending this Clinic were advised various treatments as detailed below:—

(1) Only on Diet	...	...	...	...	...	...	685
(2) Insuline Injection	...	...	...	...	...	...	4,154
(3) Oral anti-diabetic drugs	...	...	...	...	...	...	8,034
(4) Insuline Injection and Anti Diabetic drugs	...	...	...	...	...	...	3,091

Department of Dermatology and Venerology

During the year under report 32,772 New cases inclusive of referred cases from other Sections and 33,398 old cases were treated in the Out-patient department and 506 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 out 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.	690
(2) Blood count	150
(3) Urine Examination	400
(4) Skin Biopsy	110
(5) Allergy patch testing	75
(6) Tzank test	50

Leprosy Clinic.

A leprosy clinic is attached to the department of Dermatology and venerology which is conducted by the Greater Bombay Leprosy control scheme and the patients suspected to the suffering from Leprosy are examined at this Clinic. 749 New cases were treated and the total attendance of the patients at the Clinic was 2,514. The average attendance of patients was 54 per day. 1,096 Biopsies were taken.

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	27,720
P. E. Cs.	59
Angiography	37
Mylograms	68
I. V. Ps.	640
Barium-meal X-Ray	2,424
Total	30,948

K. E. M. Hospital (Department of Diagnostic Radiology):

Cardiac Investigations	133
Angio-cardiograms	96
Aorotograms	113
Cine Angio	3
Arteriograms	13
Lymphangiograms	12
Venograms	22
Bronchograms	64
Intracardia Pacemaker Catheter	11
Spleno-portograms	68
I. V. Pyelograms	31
Barium Meal	8
Tomograms	49
Y 90 Implantation in pituitary gland	2
Routine X-Rays	1,782
Total	2,407

Orthopaedic Centre (Radiology Department):

Plain X-Rays	28,945
---------------------	--------

C. V. T. C. (Radiology Department):

Plain X-Rays	4,990
Barium-meal X-Rays	4
I. V. Ps.	715
Total	5,709

Medical Check-up Centre

The Centre is gathering attention of the public and as many as 425 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 is a joint venture of the Government of Maharashtra and the Municipal Corporation for Greater Bombay: Corporation sharing the major portion of expenditure. 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 New students were admitted in July 1970 bringing the total number of students undergoing training in 1969. 22 students were graduated in April 1970 and 23 passed the examination held in October 1970.

13,870 patients were referred to the Centre and the total number of treatment given was 2,02,165.

Occupational Therapy Centre and School

The total number of patients treated at the Centre was 8,335 and 1,19,609 treatment were given in the Wards and the Centre. The following are the other Centres recently established :—

(1) Andheri, (2) Mulund, (3) Chembur, (4) Ghatkopar, (5) Kurla, and (6) Bandra.

The work in the Weaving, Tailoring and Printing Sections is being carried out satisfactorily.

40 New students were admitted during the year under report. This year result of the final year was 50 per cent. and first year was 63.7 per cent.

Prophylactic Immunization Centre

The total number of patient treated during the year at the Centre was 28,056 as against 35,593 in the previous year.. 8,106 New cases were registered during the year under report. On 30-3-70, 152 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

Centre Clinical Laboratory :—

1,06,992 Laboratory investigations were carried out during the year 1970 in the Central Clinic Laboratory (Apart from Ward and O.P.D. Laboratories) on the material sent from the hospital as against 90,955 and 89,575 in the year 1969 and 1968 respectively. These investigations are grouped under the following heads :—

(1) Pathological Investigations	...	...	...	...	...	49,598
(2) Bacteriological Investigations	...	...	...	...	...	24,928
(3) Skin Tests	...	...	...	...	...	23
(4) Biochemical Investigations	...	...	...	...	...	32,443

Following table shows the number of Paraffin blocks prepared for histological examination from the autopsy material and surgical tissues from 1st January 1970 to 31st December 1970 together with the figures for the previous two years :—

Year	Block of Post-mortem Organs	Blocks of tissues from the Surgical side of K. E. M. Hospital and from outside	Total
1970	15,031	13,725	28,756
1969	13,424	12,159	25,583
1968	21,296	12,300	33,596

Food Handler's Scheme

2,170 persons were directed for examination by H. O.'s Department from 1-1-1970 to 31-12-1970 out of which only 869 persons attended for examination. 429 persons did not give their stools, blood etc., for Pathological examination and hence their reports are still pending. In all 405 fit and 35 unfit Certificates were issued during the year under report.

Neuropathology Department

(1) Surgical number of specimens received from hospital	...	...	...	303
(2) Number of blocks	...	...	...	449
(3) Number of slides	...	...	...	1,347
(4) Number of Post-mortem specimens	...	...	...	161
(5) Number of blocks	...	...	...	594
(6) Number of slides	...	...	...	650
			Total	3,504

SHANTILAL MATHURADAS BLOOD BANK

(Bombay Municipal Blood Centre)

The total number of blood samples including those from voluntary donors was 11,041. Out of Blood samples collected 3,784 were from voluntary donors and 2,375 from relative donors and 4,149 from Professional donors and 733 were the samples brought from other Hospitals. An amount of Rs. 60,352.11 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 donors and other incidental charges.

Dr. Jivraj N. Mehta Pharmaceutical Laboratory

The details of the manufacturing work done in the Laboratory during the year 1970 are given below :—

1. Production :

(a) Transfusion Bottles 500 m..	...	...	...	...	...	85,514 Nos.
(b) A. C. D. Bottles	...	...	...	...	...	10,275 Nos.
(c) Other Bottles :						
(i) Distilled Water 500 ml.	...	...	...	...	9,200	
(ii) Dialysis Fluid 500 ml.	...	...	...	...	248	
(iii) Flushing solution 500 ml.	...	...	...	...	381	
(iv) Balanced Salt Solution 500 ml.	...	...	...	...	17	
(v) Hypertonic Saline 25 per cent. 500 ml.	...	...	...	...	37	
					-----	9,883 Nos.
				Total	...	1,05,672
(d) Vials 10, 50, m 100 mls. (14 different types)	...	...	...	...	...	17,424 Nos.
(e) Sterile Solutions (5 types)	...	...	...	...	...	244 Lts.
(f) Stains and Solution for clinical use (11 types)	...	...	...	...	...	412 Lts.
(g) Miscellaneous items :						
(i) Biofler (diuretic)	...	...	...	...	...	325 Lts.
(ii) Enema and Hand Soap	...	...	...	...	...	3,330 Lts.
(iii) Bone Wax (Surgical)	...	...	...	...	...	2.48 Kgs.
(iv) Repacking from bulk	...	...	...	...	...	1,284 Units
(h) Transfusion Sets	...	...	...	...	...	34,221 Nos.
(i) Bleeding Sets	...	...	...	...	...	14,770 Nos.

2. Central Sterile Supply Service :

Sterilization of following articles :—

(a) Drums	42,787 Nos.
-----------	-----	-----	-----	-----	-----	-------------

Sterilization of following articles :

(b) Trays	...	...	...	...	...	16,923 Nos.
(c) Flasks, Jars, Pots and Theatre bottles	...	...	...	...	...	7,846 Nos.
(d) Boxes (Transfusion and Bleeding sets)	...	...	...	...	...	15,222 Nos.
(e) Transfusion bottles and other bottles	...	...	...	...	...	1,50,672 Nos.
(f) Vials	...	...	...	...	...	17,424

3. Control Laboratory :

(a) Sterility Tests	...	...	...	...	...	413 Nos.
(b) Pyrogen Tests	...	...	...	...	...	202 Nos.
(c) Tests for contents	...	...	...	...	...	619 Nos.

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	5,03,016	21,836	35,079	5,59,931
(2) In-patients	64,834	3,491	7,817	76,142
(3) Ordinary	6,793	33	173	6,999
Total	5,74,643	25,360	43,069	6,43,072

Advisory Medical Board

During the year under report, the Advisory Medical Board held 6 meetings of the Honorary and Professarial Staff.

Staff Society Clinical Meetings

The Staff Society of the K. E. M. Hospital and Seth G. S. Medical College held 10 meetings during the year, when papers on the various subjects were presented.

Nursing Staff

During the year under report 128 nurses were sent up for General Nursing Part I Examination, 122 nurses for Part II Examination and 83 nurses for Midwifery Examination. Out of these 100, 78 and 77 nurses respectively have been declared 'Passed' in the respective examinations held by the Maharashtra Nursing Council.

Smt. Sultana S. Kazi from this Hospital stood first in the State in Midwifery Examination held in May 1970.

The Bi-annual Conference of the Trained Nurses Association of India was held at Lucknow in October 1970 and two delegates from this hospital attended the Conference.

The arrangement of sending Nurses to the Kasturba Hospital for training in the Infectious Diseases was continued during the year. Four students nurses were directed to the Kasturba Hospital every month for training for a period of one month.

Smt. D. J. Mehta, Sr. Asst. Matron was deputed on study leave (Not debitable to her account) for about one year for prosecuting "Nursing Administration Hospital Course" in U. K. under the Columbo Plan. She joined duty after successful completion of the course in October 1970.

Smt. N. P. Upponi, Sister Tutor was deputed on study leave for 1 year and 7 months for prosecuting "Paediatric Nursing Course" and "Premature Baby Nursing Course" in U. K. under Lady Mountbatten scholarship.

Smt. K. D. Upadhye, Sister Tutor has been deputed on study leave for 2 years for Post Basic B.Sc. Nursing Course at the College of Nursing, J. J. Hospital Bombay from July 1970.

Staff Nurse Shahapurkar is sent for B. Sc. training to Ahamadabad in 1969. She is expected to complete the course in June 1971.

39 Family Quarters have been allotted to the Nursing Staff of the hospital during the year at different places namely at Tuslipipe Road, Andheri and Dharavi.

11 Nurses of this hospital were granted special casual leave for 10 days for attending the excursion for the Nursing Staff at Rajasthan and Gujrat in February 1971, 50 per cent. cost of which was borne by the Corporation.

The total number of Nursing Staff during the year 2 was 738 inclusive of the Superior Staff.

The cost of the Nursing Establishment worked out to Rs. 272.14 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 Rs. 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 and Seth G. S. Medical College Employee's Co-operative Credit Society

The Society worked satisfactorily during the year under report. The total numbers on the roll at the end of June 1970 was 1687. The share capital amounted to Rs. 5,36,918. On 30th June 1970 as against Rs. 5,55,663 on the corresponding date of the previous year.

The accounts of the Society upto 30th June 1970 were audited by the Government Auditors and the Society was awarded 'A' Certificate.

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. Khemibai 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 the Philanthropic Institutions and persons.

Expenditure out of Poor Box Charity Fund

Besides the expenditure incurred from Municipal Funds a sum of Rs. 99,652.39 was spent out of the Poor Box Charity Fund in the year 1970-71 as against Rs. 80,710.67 in the previous year. This amount was mostly spent on costly drugs, blood transfusion, surgical appliances travelling expenses of patients, etc. for the poor and deserving patients of the hospital.

Donations to the extent of Rs. 70,080.71 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 1970-71 including liabilities at the end of the year but exclusive of the cost of extension scheme amounted to Rs. 1,77,43,760 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 for maintenance and repairs of the building.

New Construction and Expansion and Extension**Works in Progress :**

- (1) Extension of Cardio-vascular Thoracic Centre. works completed.
- (2) Extension of R. M. O.'s Quarters.

T. H. RINDANI,
M.D., D.Sc., F.A. Sc., F.A.M.S.,
Dean, K. E. M. Hospital and Seth
G. S. Medical College, Parel, Bombay-12.

APPENDIX No. 1.

Statement showing distribution of beds according to classification of Departments and Sex.

Department.	Male	Female	Children	Unspecified	Total	
(1) Medical	120	72	...	...	192
(2) Surgical	...	108	36	...	144	
(3) Ophthalmic	...	20	12	...	32	
(4) Gynaec	56	...	56	
(5) Obstetric	176	...	176	
(6) Skin and Venereal	...	12	8	4	24	
(7) Orthopaedic	...	120	80	40	240	
(8) Aural	...	12	8	28	48	
(9) Psychiatric	...	30	6	6	42	
(10) Neuro-Surgical	...	25	2	2	29	
(11) Neurology	...	14	6	4	24	
(12) Paediatric Medical	80	80	
(13) Plastic Surgery and Burns	...	16	14	10	40	
(14) Thoracic	...	10	6	...	16	
(15) Isolation	...	2	1	...	3	
(16) Resuscitation	...	4	1	...	5	
(17) Tetanus	...	5	3	2	10	
(18) Cardio-Vascular and Thoracic Surgery	40	40	
(19) Cardiology	...	10	8	...	28	
Chest Clinic	...	12	10	...	22	
(20) Paediatric Surgery	40	40	
21) Drug Trial (Ciba)	10	10	
22) Drug Trial (Unichem)	10	10	
23) Drug Trial (Cipla)	10	10	
Total	...	520	505	216	92	1,333

APPENDIX No. 2

Statement showing the particulars of Indoor and Out-door patients, the number of Operations performed etc. during the years 1970, 1969 and 1968.

Particulars	1970	1969	1968	
(a) In-patients—				
(1) Schedule strength of beds	...	1,333	1,232	1,187
(2) Daily average number of In-patients	...	1,798	1,826	1,667
(3) Total number of new In-patients admitted	...	60,761	61,011	57,939
(4) Average number of days each patient was resident	...	10.8	10.6	10.5
(b) Out-patients—				
(1) Total number of new Out-patients attendance	...	3,66,994	3,45,096	3,42,112
(2) Daily average number of new Out-patients	...	1,203	1,135	1,118
(3) Total number of Out-patients attendance New & Old	...	7,17,150	6,71,070	7,04,423
(4) Daily average number of Out-patients attendance	...	2,351	2,207	2,690
(5) Number of Casualty Patients	...	44,644	65,165	78,769
(c) Operations—				
(1) Total number of Operations on In-patients	...	25,849	24,411	22,512
(2) Total number of Operations on Out-patients	...	45,209	41,292	40,119

APPENDIX No. 3

Statement showing the In-patients treated in the K. E. M. Hospital during the year 1970 with the classification according to Depts. Sex, Age, Discharges & Deaths.

Departments	Unit	Sex	In the Hospital at the mid-night of 31st Dec. 1969	Admitted during the year 1970	Total treated	Discharg- ed during the year	Died during the year	In the Hospital by the mid night of 31st Dec. 1970
Medic I	.. I	Male	77	1,763	1,840	1,609	179	52
		Female	31	785	816	713	79	24
Medical	.. II	Male	42	1,529	1,571	1,348	176	47
		Female	20	773	793	686	76	31
Medical	.. III	Male	64	1,671	1,735	1,510	189	36
		Female	32	882	914	816	83	15
Medical	.. IV	Male	50	1,500	1,950	1,605	279	66
		Female	19	942	961	784	150	27
		M/Child	3	324	327	197	125	5
		F/Child	2	192	194	111	83	...
Medical	.. V	Male	29	1,235	1,264	1,100	141	23
		Female	15	614	629	538	79	21
Medical	.. VI	Male	37	1,366	1,403	1,202	171	30
		Female	18	620	638	559	63	11
Surgical	.. I	Male	50	1,559	1,609	1,492	79	38
		Female	16	527	543	470	63	10
Surgical	.. II	Male	42	1,812	1,854	1,712	107	35
		Female	9	614	623	554	56	13
Surgical	.. III	Male	35	1,363	1,398	1,290	87	21
		Female	8	428	436	380	45	11
Surgical	.. IV	Male	21	1,723	1,744	1,595	102	47
		Female	3	476	479	406	62	11
Surgical	.. V	Male	32	1,627	1,659	1,551	85	23
		Female	3	467	470	422	38	10
Surgical	.. VI	Male	23	1,463	1,486	1,314	143	29
		Female	6	477	483	404	73	6
Ophthalmic	.. I	Male	13	397	410	405	...	5
		Female	7	322	229	223	...	6
		M/Child	1	32	33	30	...	3
		F/Child	...	21	21	21	...	...
Ophthalmic	.. II	Male	11	395	396	385	...	11
		Female	5	342	247	238	...	9
		M/Child	...	28	28	28	...	...
		F/Child	...	23	23	23	...	...
Gynaec	.. I	Female	13	769	782	763	7	12
		F/Child	...	...	...	...	...	...
Gynaec	.. II	Female	17	895	912	895	4	13
		F/Child	...	...	...	...	...	...
Gynaec	.. III	Female	2	560	562	541	3	18
		F/Child	...	...	...	...	...	...
Gynaec	.. V	Female	12	670	682	651	5	16
		F/Child	...	...	...	...	...	...
Skin & Venereal	.. I	Male	8	344	352	327	6	19
		Female	4	74	78	72	1	65
		M/Child	...	23	23	22	...	1
		F/Child	...	19	19	16	1	2
Aural	.. I	Male	8	568	576	565	5	6
		Female	6	473	479	477	1	1
		M/Child	2	361	363	358	2	3
		F/Child	2	326	328	326	1	1
Aural	.. II	Male	7	487	494	484	2	8
		Female	3	418	421	417	1	3
		M/Child	...	306	306	304	1	1
		F/Child	...	282	282	279	2	1
Orthopaedic	.. I	Male	104	719	823	692	24	107
		Female	63	347	410	333	18	59
		M/Child	15	185	200	191	...	9
		F/Child	6	135	141	132	...	9
Orthopaedic	.. II	Male	67	650	717	610	33	74
		Female	63	269	332	280	10	42
		M/Child	7	143	155	142	1	12
		F/Child	1	83	84	75	2	7
Orthopaedic	.. III	Male	76	840	916	818	24	74
		Female	37	340	377	321	13	43
		M/Child	10	224	234	222	1	11
		F/Child	15	126	141	139	...	2

APPENDIX No. 3—(concl.d.)

Departments	Unit	Sex	In the Hospital at the midnight of 31st Dec. 1970	Admitted during the year 1970	Total treated	Discharged during the year	Died during the year	In the Hospital by the mid-night of 31st Dec. 1970
Psychiatric	.. I	Male	13	226	295	285	1	9
		Female	5	122	127	120	1	6
		M/Child	...	11	11	9	...	2
		F/Child	...	1	14	15	...	...
Psychiatric	.. II	Male	13	282	295	285	1	9
		Female	5	166	171	165	3	3
		M/Child	2	14	16	16	...	...
		F/Child	...	13	13	13	...	...
Neurology	..	Male	12	343	355	325	12	18
		Female	7	155	162	150	7	5
		M/Child	5	60	65	60	2	3
		F/Child	2	35	37	34	1	2
Neuro-surgery	..	Male	21	264	285	237	30	18
		Female	7	117	124	102	17	5
		M/Child	4	65	69	53	11	5
		F/Child	1	32	33	21	9	3
Paediatric (Medical)	.. I	M/Child	21	1,273	1,294	1,117	159	18
		F/Child	17	967	984	825	133	26
Paediatric (Medical)	.. II	M/Child	14	1,217	1,231	1,020	197	14
		F/Child	11	865	876	695	165	16
Paediatric (Medical)	.. III	M/Child	20	1,072	1,092	876	198	18
		F/Child	14	813	827	666	153	8
Obstetric	.. I	Female	29	2,217	2,246	2,191	5	50
Obstetric	.. II	Female	22	2,290	2,312	2,269	5	38
Obstetric	.. III	Female	27	1,598	1,625	1,593	3	29
Obstetric	.. IV	Female	24	1,762	1,786	1,751	6	29
Plastic-surgery	..	Male	27	273	300	274	1	25
		Female	9	106	115	105	1	9
		M/Child	5	98	103	95	2	6
		F/Child	4	74	78	73	1	4
Thoracic-Surgery	..	Male	22	237	259	194	32	33
		Female	23	154	177	139	18	20
		M/Child	1	38	39	29	7	3
		F/Child	3	36	39	30	5	4
Cordiology	..	Male	7	361	368	317	33	18
		Female	6	137	143	117	16	10
		M/Child	2	13	15	13	1	1
		F/Child	...	8	8	7	1	...
Asthama	..	Male	11	526	537	508	12	17
		Female	8	260	268	253	8	7
		M/Child	...	5	5	5	...	...
		F/Child	...	2	2	2	...	...
Paediatric-Surgery	..	M/Child	28	2,217	2,245	2,144	79	22
		F/Child	14	1,091	1,105	1,015	73	17
Urology	..	Male	...	7	7	7	...	...
		Female	...	2	2	2	...	...
		M/Child	...	...	...	...	...	...
		F/Child	...	...	...	...	...	...
Total	..	Male	922	25,920	26,842	23,984	1,955	903
		Female	584	21,970	22,554	20,910	1,025	619
		M/Child	140	7,714	7,854	6,931	786	137
		F/Child	93	5,157	5,250	4,518	630	102
Grand Total			1,739	60,761	62,500	56,343	4,396	1,761

APPENDIX No. 4.

Statement showing the 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.
Medical	Male	44,918	1,824
	Female	23,542	876
	M/Child	126	283
	F/Child	72	167
Surgical	Male	64,078	13,409
	Female	22,763	3,212
	M/Child	...	...
	F/Child	...	...
Ophthalmic	Male	13,639	2,820
	Female	5,255	321
	M/Child	1,150	281
	F/Child	873	108
Gynaec	Female	10,959	26
	F/Child	1	9
Dental	Male	9,834	75
	Female	6,054	14
	M/Child	1,174	9
	F/Child	873	7
Skin-Veneral	Male	16,623	29
	Female	6,468	3
	M/Child	3,597	5
	F/Child	2,736	1
Aural	Male	11,980	585
	Female	7,005	173
	M/Child	3,346	407
	F/Child	2,714	302
Orthopaedic	Male	12,135	7,321
	Female	5,837	1,778
	M/Child	2,333	2,276
	F/Child	1,315	1,021
Psychiatric	Male	3,406	14
	Female	2,126	6
	M/Child	219	1
	F/Child	126	...
Neuro-Surgery	Male	660	...
	Female	349	...
	M/Child	153	...
	F/Child	95	...
Neurology	Male	773	...
	Female	399	...
	M/Child	139	...
	F/Child	102	...
Paediatric (Medical)	M/Child	14,617	427
	F/Child	11,041	244
Obstetric	Female	7,803	121
Dispensary Service	Male	10,122	...
	Female	4,543	...
	M/Child	1,644	...
	F/Child	1,111	...
Thoracic-Surgery	Male	349	...
	Female	238	...
	M/Child	71	...
	F/Child	59	...
Cardiology	Male	1,133	...
	Female	736	...
	M/Child	59	...
	F/Child	44	...

APPENDIX No. 4

Statement showing Out-Patients (New O. P.D. Casualty) in the K.E.M. Hospital during the year 1971
Classification according to the Department, Sex and Age

Departments	Sex	O.P.D. New Cases	Casualty
Diabetic-Clinic	... Male	692	...
	... Female	408	...
	... M/Child	6	...
	... F/Child	7	...
Gastro-intestinal Clinic	... Male	115	...
	... Female	33	...
	... M/Child	4	...
	... F/Child	1	...
Endocrinology	... Male	103	...
	... Female	188	...
	... M/Child	17	...
	... F/Child	15	...
Epilepsy	... Male	123	...
	... Female	65	...
	... M/Child	37	...
	... F/Child	25	...
Asthma Clinic	... Male	648	...
	... Female	419	...
	... M/Child	39	...
	... F/Child	22	...
Paediatric-Surgery	... M/Child	12,878	4,371
	... F/Child	7,230	2,118
Plastic-Surgery	... Male	139	...
	... Female	104	...
	... M/Child	82	...
	... F/Child	71	...
Urology	... Male	6	...
	... Female	...	...
	... M/Child	...	...
	... F/Child	...	...
Total	... Male	1,91,476	26,077
	... Female	1,05,294	6,530
	... M/Child	41,691	8,060
	... F/Child	28,533	3,977
Grand Total	...	3,66,994	44,644

New O.P.D. 3,66,994

Old O.P.D. ... 3,50,156

Total ... 7,17,150

APPENDIX No. 5

Statement showing the relative cost per In-patient and Out-patient per day during the year 1970-71
and previous two years

Particulars	1970-71	1969-70	1968-69
	Rs.	Rs.	Rs.
(a) Average cost per In-patient per day	... 19.46	18.47	15.71
(b) Average cost per In-patient admission	... 217.78	192.14	172.05
(c) Average cost per Out-patient attendance	... 6.64	5.69	3.60
(d) Average cost per Out-patient admission	... 12.20	11.07	4.43

APPENDIX No. 6

Statement showing the details of cost per In-patient for the year 1970-71 and previous two years.

Year	Diet	Drugs Dressings etc.	Stores and Linen	Heating and Lighting	Misce-llaneous	Estab-lishment	Repairs to Building and Engineer-ings	Total
	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
1970-71	...	4.32	1.72	0.42	2.13	8.42	0.69	19.46
1969-70	...	4.82	0.97	0.34	1.30	8.92	0.37	18.47
1968-69	...	3.30	0.68	0.31	0.69	8.80	0.36	15.71

APPENDIX No. 7

Statement showing the average cost of each New Out-patient admission for the year 1970-71 and previous two years.

Year	Drugs Dressings etc.	Stores and Linen	Heating and Lighting	Misce-llaneous	Estab-lishment	Repairs to Building Engineering	Total	
	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	
1970-71	...	2.52	0.57	0.03	0.93	7.84	0.40	12.39
1969-70	...	2.20	0.56	0.03	0.33	7.69	0.26	11.07
1968-69	...	1.89	0.50	0.04	0.14	4.60	0.18	7.43

APPENDIX No. 8

Statistical Information

Average age of students.	Year 1970-71	Year 1969-70
I. At the time of admission	19 Years	19 Years
II. At the time of Matriculation	17 Years	17 Years
<i>Marital state at the time of admission :</i>		
I. Married	...	...
II. Betrothed	...	...
III. Single	Yes	Yes
<i>Occupations of parents or guardians :</i>		
Service	50%	50%
Medical Profession	15%	8%
Legal Profession	5%	2%
Engineering	5%	2.5%
Miscellaneous occupations	25%	37%

APPENDIX No. 9

Annual Cost and Revenue

	1970-71	1969-70
	Rs.	Rs.
Total expenditure including expenditure on hostels	27,25,016.00	25,53,305.00
Dearness Allowance (included in the above figures)	9,33,730.00	9,67,535.00
Revenue from tuition fees, Hostel rent and Miscellaneous receipts	3,37,788.00	3,62,675.00
Revenue from Post-graduate fees	82,761.00	91,720.00
Gross cost per student	2,072.26	1,720.62
Net cost per student	1,753.21	1,380.31
Income from Hostel	50,944.00	50,520.00
Expenditure on Hostel	79,680.00	66,910.00

APPENDIX No. 10

PARTICULARS REGARDING STUDENTS

Number of students in the different classes:

Class	Male student	Female student	Total
1st M.B., B.S. 1st year	108	52	160
1st M. B., B. S. 2nd year	24	5	29
2nd M.B., B.S. (I, II, & III term)	164	127	291
3rd M.B., B.S. (I, II, & III term)	138	104	242
Interns	93	68	161
Total number of Undergraduates	527	356	883
Post graduates including Research students	279	153	432
Grand Total	806	509	1,315

APPENDIX No. 11.

Results of various Examinations.

Name of the Examination.	April 1970		October 1970	
	Appeared	Passed	Appeared	Passed
Ist M.B.B.S.	16	13	155	135
IInd M.B.B.S.	153	130	42	32
IIIrd M.B.B.S.	66	47	158	114
M.D. Medicine	14	4	18	7
M.D. Path and Bact.	2	Nil.	3	2
M.D. Obst. and Gyn.	18	3	13	7
M.D. Pharmacology	1	1	1	1
M.D. Tuberculosis	2	1	10	3
M.D. Paediatrics	16	4	2	1
M.D. Skin Diseases	2	Nil.	7	5
M.D. Anaesthesia	6	2	4	1
M.D. Radiology	3	1	5	1
M.D. Prev. and Sec. Med.	Nil.	Nil.	Nil.	Nil.
M.D. Psychology	3	1	3	1
M.D. Human Physiology	Nil.	Nil.	Nil.	Nil.
M.D. Neurology	Nil.	Nil.	Nil.	Nil.
M.D. Cardiology	Nil.	Nil.	Nil.	Nil.
M.S. Gen. Surg.	14	7	10	4
M.S. Orthopaedics	6	1	5	Nil.
M.S. E.N.T.	4	1	5	5
M.S. Ophthalmology	3	1	3	2
M.S. Human Anatomy	Nil.	Nil.	Nil.	Nil.
M.S. Neuro Surgery	Nil.	Nil.	Nil.	Nil.
M.S. Thoracic Surg.	Nil.	Nil.	Nil.	Nil.
M.S. Plastic Surgery	Nil.	Nil.	1	1
M.Sc., Medical Human Anatomy	Nil.	Nil.	Nil.	Nil.
D.A.	7	2	13	10
D.V.D.	1	1	1	Nil.
D.P.H.	3	3	1	Nil.
D.P.M.	Nil.	Nil.	Nil.	Nil.
D.M.R.D.	Nil.	Nil.	1	1
M.Sc. Bioch. by Papers	9	7	Nil.	Nil.

APPENDIX No. 11-2 (Concl.)

Results of various Examinations.

Name of the Examination.	April-1970		October 1970	
	Appeared	Passed	Appeared	Passed
M.Sc. (Bioch. by Research) ...	2	2	Nil.	Nil.
M.Sc. Micrology Research ...	Nil.	Nil.	Nil.	Nil.
M.S. Applied Bio. by Reserach ...	Nil.	Nil.	Nil.	Nil.
M.Sc. Animal Physiology ...	Nil.	Nil.	Nil.	Nil.
Ph.D. Applied Biology ...	Nil.	Nil.	1	1
Ph.D. Biochemistry ...	Nil.	Nil.	1	1
Ph.D. Animal Physiology ...	Nil.	Nil.	Nil.	Nil.
Ph.D. Micrology ...	Nil.	Nil.	Nil.	Nil.
Ph.D. Medical ...	Nil.	Nil.	Nil.	Nil.

Result of the College of Physician and Surgeons of Bombay.

Nome of the Examination.	April 1970		October 1970	
	Appeared	Passed	Appeared	Passed
M.C.P.S. ...	4	2	3	2
F.C.P.S. ...	7	6	4	1
D.G.O. ...	19	12	16	11
D.C.H. ...	23	7	18	5
D.F.P. ...	7	6	Nil.	Nil.
D.O.M.S. ...	25	2	1	1
D.P.M. ...	1	1	Nil.	Nil.
D.M.R.E. ...	1	1	1	1
D.D.V. ...	1	1	Nil.	Nil.
D.O.R.L. ...	12	5	7	4
D.Orth. ...	4	Nil.	4	2
D.A. ...	Nil.	Nil.	2	Nil.

E. N. T. HOSPITAL

The Ear, Nose and Throat Hospital was started at the improvement Trust Building 7, Navier Road Fort, Bombay I. On the December 1962 for providing medical and Surgical treatment to patients suffering from Ear, Nose and Throat diseases.

The scheduled bed strength of the hospital is 100, and all 100 beds were commissioned for in-patients admitted in the hospital during the year 1970 was 5,483. The average stay of an in-patient in the hospital was 3.36 days during the period. Out of the total number of 5,483 in-patients 124 cured, 5,084 were relieved 194 were otherwise discharged, 19 died leaving 62 patients under treatment in the hospital on the last day of the year. 31 went against medical advice.

The highest number of patients admitted on a single day was 29 on 29th January 1970.

Out Patient Department

The total number of new case papers issued during the year 1970-71 was 35,825 and the total number of out patient attendance (New 35,825 and 47,957 was 83,782 bringing the daily average attendance of out-patients to 264.85. The highest number of Out-Patients on a single day was 426 on 2nd May 1970.

Operative Work

4,745 operations were performed on In-patients during the year.

Pathology Department

19,173 Clinicopathological investigations were performed in the year. The post of part-time pathologist remained vacant for the major part of the year since there was no response to the advertisement.

Radiology Department

2,678 X-Ray cases radiological investigations were done during the year 1970-71.

Audiology Clinic

2,036 audiograms were recorded during the year. An audiology room for full comprehensive hearing tests of handicapped individuals is ready now. Services 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. 23,650.55 was collected for the fund through these boxes during the year 1970-71. 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 expended is, the payment for blood transfusion where the patients generally do not afford to pay. In cases of poor and deserving patients, blood is supplied at part/nil cost.

The hospital is to be renamed as per the deed of agreement in respect of donation of Rs. 2½ received from Seth Mangoomal Atmasingh Managing Trustees of Seth Atmasingh Jesasingh Charitable Trust.

Staff

Dr. M. J. Nerukar M.S.(Bom), who was in charge of hospital administration continued to hold the post of Asstt. Medical Officer of the hospital from 1-4-1970 to 18-10-1970. On his promotion Dr. (Miss) S. R. Mudbhalkar who took charge of hospital from 6-1-1971 continued to hold the post of Asstt. Medical Officer.

The medical staff consisted of 5 Honorary Surgeons, 3 Honorary Asstt. Surgeon (Part-time), 3 E. N. T. Registrars, 4 House Surgeons, 2 (Part-time) Anaesthetists, 2 Casualty Medical Officers, 1 Hon. Asstt. Radiologist.

Nursing Staff consisted of 1 Senior Sister, 6 Sisters and 24 Staff Nurses.

Dr. (Miss) S. R. MUDBHATKAL,
Municipal E. N. T. Hospital.

APPENDIX I

Statement showing the particulars of Outdoor patients treated during the year 1970 at the E. N. T. Hospital:—

(1) No. of new cases	...	...	...	35 825
(2) No. of old cases	...	...	...	47,957
(3) No. of higher attendance on single day	...	...	...	476 on 2nd May 1970
(4) Daily average No. of out-patients' attendance	...	...	...	264.85

Statement showing out-patients (new and old) treated in the E. N. T. Hospital during the year 1970 with classification according to sex:—

Sex	O.P.D. New Cases.	O.P.D. Old Cases.	Total Attendance
Male	17,176	23,203	40,379
Female	9,326	14,844	24,107
Male-Child	5,014	4,664	9,678
Female-Child	4,309	2,246	6,555
Total	35,825	44,957	80,782

APPENDIX II

Statement showing the Indoor-patients, Operations done, etc., during the year 1970 at the E. N. T. Hospital.

(1) Scheduled strength of beds	...	...	...	100
(2) No. of beds commissioned	...	...	...	100
(3) Total No. of new patients admitted	...	...	...	5,483
(4) Average No. of days each patient was resident	...	...	...	336 days
(5) Total No. of operations on indoor patients	...	...	...	4,745

Statement showing the in-patients treated in the E. N. T. Hospital during the year 1970 with classification according to Sex etc.

Sex.	Admitted.	Discharged.	Died.	In the Hospital.
Male	2,140	2,093	14	33
Female	1,444	1,417	5	22
Male-Child	975	972	...	3
Female-Child	924	920	...	4
Total	5,483	5,402	19	62

Bai Yamunabai L. Nair Charitable Hospital & Topiwala National Medical College

BOMBAY-8

Hospital

Bai Yamunabai L. Nair Charitable Hospital has at present a bed accommodation of 713 with good comforts.

The hospital has a large out-patient department with facilities for examination and treatment in various departments and also provides a number of Specialised Clinics, from 11.30 a. m. to 1.30 p. m. once or twice a week. The Special Clinics include Neurology, Neuro-Surgery, Cardiology, Cardiac Surgery, Gastroenterology, (Medical and Surgical), Thyroid Surgery, Plastic Surgery, Endocrinology. A special clinic of Eye Bank has been added. Anti-Rabic treatment Centre is also functioning at this Hospital.

The Hospital has a large Central Clinical Laboratory, Blood Bank, a full-fledged X-ray Dept. and an up-to-date Pharmacy Dept, which manufactures a number of injections and solutions and provides central sterile service, and an evening dispensary service has also been provided for the benefit of those who are unable to attend the hospital in the morning hours.

Shri Gagalbhai Audiology Clinic at the Bai Yamunabai L. Nair Charitable Hospital came into existence in 1963 for the diagnosis and treatment of the various speech and hearing disorders. A school for training of speech and hearing therapists has now been started from August 1966 at the clinic to impart scientific and specialised knowledge in the subject.

This is a regular course leading to a degree in the subject and is recognised by the Bombay University.

The minimum qualification for admission to the course is I. Sc. 'B' Group.

Second Phase Of Extension Programme

During the year it is proposed to build a hospital with 300 beds, Nurses Home with School of Nursing, Kitchen and Diet Stores, Mortuary Block and R. M. O.'s quarters at an estimated total cost of about Rs. 3 crores.

Administrative Staff

Dr. E. J. DeSouza, Professor and Head of the Department of Anatomy continued to hold charge of the Office of the Dean to look after the work of the Hospital and Topiwala National Medical College upto 23-8-1970. Dr. C. K. Deshpande, M. B., B. S., M. D. (Path) held the post of the Dean from 2-1-1970 and Dr. V. B. X. Almeida continued to help the former in the hospital work till 18-5-1970 and on his proceeding on leave preparatory to retirement, Dr. V. S. Shevde, M. B., B. S. helped in carrying out hospital work from 25-5-1970.

A short report in general and work done in the various departments of the hospital is given below:—

Indoor Patients

The total number of patients admitted during the year was 30909 as against 26987 and 25519 during the year 1969 and 1968 respectively.

On an average, the daily number of inpatients was 773.90 as against a Schedule bed strength of 713.

Some Surgical cases were treated at Dr. Bhajekar Hospital and more complicated cases were operated at the Nair Hospital which caused a slightly higher average stay of the patients.

The highest number of in-patients on one *Single day* was 953 and highest number of admission on a Single day was 150.

Out of total number of 31654 in-patients including 745 brought from the previous year's balance, 28903 were discharged, 1889 died leaving a balance of 862 patients at the end of the year.

Out of 1889 deaths 417 were within first 24 hours of admission, 304 were after 24 hours but within 72 hours of admission and the remaining 1168 died after a period exceeding 3 days from admission.

Out Patient Department

The total number of O. P. D. attendance including casualty patients during the year was 710921 as against 452775 for the year 1969 giving a daily average of 233.89 as against 1479.66 for the previous year.

The highest number of attendance on any one day was 4137 as against 2047 for the previous year. The highest number of new and old cases on one single day was 1008 and 3261 respectively.

From December 1969, onwards O. P. D. case papers are handed over to patients for quick service and in order to reduce the waiting time of patients standing in the queue. Only Medico-legal case papers are kept in the Out-patient Department.

Appendix No. 6 to 9 shows the number of patients (Indoor and Out-door) treated in various clinics of this hospital.

Department of Medicine

The Department of Medicine consisting of Six Medical Units, Two Full time Units and four Units under Honorary Professors and Asst. Professors, carried out on its clinical, teaching and research work during the year in its various sections viz, Cardiology, Gastro-enterology, Neurology etc.

The following research work and papers published by the Doctors.

Dr. V. V. Shanbhag, Prof. of Medicine "Nephrotic Syndrome in Adults" J. Post. Grad. Medicine, 16 : 149, 1970. Co-worker : Dr. Vidyut Oza, Dr. Prabha Sundaram, and Mr. A. G. Pradhan.

Dr. (Miss) V. R. Panjabi, Asst. Prof. of Medicine. "Peritoneal rub heard in a patient of amoebic liver abscess (A case report published in J. of Post-graduate Medicine, Oct. 1970). Co-worker : Dr. V. V. Shanbhag.

Dr. Prabha Sundaram. Tutor in Medicine.

1. Clinical observation of Toxicity of Anti-Tubercular Drugs in 6,420 patients suffering from Pulmonary Tuberculosis. Current Med. Practice, 14 : 257 : 1970 :—Dr. N. M. Shah.

2. "Nephrotic Syndrome in Adult's. V. V. Shanbhag, Dr. Vidyut Oza, and Mr. A. G. Pradhan. J. Post. Grad. Medicine 16 : 149; 1970.

Department of Surgery

The department of Surgery consisting of Six Surgical Units (One full time unit and 5 units under Honorary Professors and Asst. Professors, carried out on its clinical, teaching and research work during the year in its various sections, viz, Cardiac Surgery, Neuro-Surgery, Gastro-enterology Surgical Service, etc.

Clinical Research by Dr. S. K. Bhansali, M. S.

On aberrations of Thyroid function and Morphology following operations on the gland a prospective study based on a longitudinal follow up. This work is carried out under the aegis of Thyroid Clinic.

Publications

A. Papers read at Scientific meeting by Dr. S. K. Bhansali, M. S.

1. "Acute Pancreatitis : An appraisal of 42 cases", read at 4th World Congress of Gastro-enterology, Copenhagen, Denmark, July 1970.

2. Primary Carcinoma of Liver. A study of 39 cases, read at 4th World Congress of Gastro-enterology, Copenhagen, Denmark, July 1970.

3. Invited to Participate as one of the Principal Speakers in Symposium on Liver Tumours—Organised by Prof. Stucke, at Copenhagen on 13th July 1970.

4. Some aspects of Disorders of Thyroid Gland. Read at 67th quarterly Scientific meeting of B. Y. A. Nair Ch. Hospital and T. N. Medical College, Staff Society, Sept. 1970.

5. Invited to initiate symposium on Thyrotoxicosis at 33rd Annual Meeting of Association of Surgery of India, Scheduled for December, 1972.

B. Papers published or under Publication by Dr. S. K. Bhansali, M. S.

1. Intestinal Obstruction : Indian Journal of Surgery 1970

2. Volvuls : A Clinical study of 47 cases.
Journal of Post-grad. Medicine, 1970.

3. Primary Carcinoma of liver— A study of 39 cases. To be published in Indian Journal of Cancer.

4. Acute pancreatitis. An appraisal of 42 cases. To be published in American Journal of Gastroenterology 1971.

5. Some aspects of disorders of Thyroid Glands. To be published in Bombay Hospital Journal April 1971.

C.—Chapters in Books by Dr. S. K. Bhansali, M.S.—

- | | |
|---|--|
| (1) Tumours of Oesophagus. | } In Text book of Medicine Ed. Dr. R. J. Vakil, M.D., F.R.C.P., etc., published by Association of Physicians of India, 1969. |
| (2) Tumours of Small Intestine. | |
| (3) Tumours of rectum and Anal Canal. | |
| (4) Problem of Abdominal Tuberculosis. | } In Indian Year Book of Medical Science, 1969. Eds. Dr. R. J. Vakil and M. M. Desai (in Press). |
| (5) Recent trends in Surgery of Peptic Ulcer. | |
| (6) Use of Radio-active Iodine in Diagnosis and treatment of Diseases of Thyroid Gland. | |

Department of Obst & Gynaecology

The Department of Gynaecology and Obst. consisting of 3 units, (one full time Unit and two Units) under the Hon. Prof. and Asst. Profs. Each unit functions twice a week from 8 a.m. to 10 a.m. in the morning session and antenatal clinic from 2 p.m. to 4 p.m. in the afternoon session.

Research work

The following research work done by the Department.

1. Vaginal Cytology.
2. Colposcopy.
3. Menstrual blood culture in Genital Tuberculosis.
4. Placental studies in Abnormal pregnancy.

Publications

1. A study of forty consecutive cases of Transverse lie in Labour accepted for publication in Indian Journal of Obst. and Gyn. by Dr. E. J. Sequeira, Hon. Prof.
2. Vaginal Stenosis: Accepted for publication in Indian Journal of Obst. and Gyn. by Dr. (Mrs.) S. Nanavati, Hon. Prof.
3. Successful repair of a large vesico-vaginal fistula published in Indian Journal of Obst. and Gyn. December 1970 by Dr. (Mrs.) Merchant, Hon. Prof.
4. (1) Spontaneous Colporrhaphies—Case report given for publication in Indian Journal of Obst. and Gyn. by Dr. (Mrs.) S. K. Shah, Hon. Prof.
(2) Evaluation of cases of Vesicular mole—given for publication in Indian Journal of Obst. and Gyn. by Dr. (Mrs.) S. K. Shah.
5. A New Antispasmodic analgesic Gynaecological practice current Medical Journal 1970 December by Dr. S. S. Thakur, Hon. Prof.
6. Testicular Feminization Syndrome. Post-graduate Journal of Medicine in 1970 by Dr. (Mrs.) P. R. Vaidya, Asst. Prof.
7. (1) A Critical Study of Thirty-four consecutive cases of repeat Caesarean Section. Accepted for publication in Current Medical Practice, by Dr. M. Y. Rawal.
(2) A study of Forty Consecutive cases of Transverse lie in labour. Accepted for publication in Indian Journal of Obst. and Gyn. by Dr. Rawal.
(3) A review of 150 cases of Caesarean Section accepted for publications in Current Medical Practice.
(4) Vaginal Stenosis accepted for publication in Indian Journal of Obst. and Gyn. by Dr. (Mrs.) U. L. Verma.

The following papers were read at Seminars arranged by C. P. S.

1. Spontaneous Colporrhaphies.
2. Septic abortion.
3. Combined Uterine and rectal prolapse.

1st Orientation-cum-Training Course in human productive physiology and Family Planning for medical teachers was attended by Dr. M. M. Domadia held at Central Family Planning Institute, Delhi from 10th August 1970 to 3rd October 1970.

Department of Paediatrics

The department of Paediatrics consisting of 2 units one full time unit and one unit under the Hon. Prof. and Asst. Prof. carried out all clinical, teaching and research work. Each unit functions on alternative days from 8 a.m. to 10.30 a.m.

Tuberculin testing, B. C. G. Vaccination and Screening are carried out in O. P. D. In addition wherever required patients are referred for (i) Routine Laboratory investigations (ii) Histopathological investigations and Radiological investigations. Parents are also advised regarding diet, hygiene and immunizations.

Neonatal Ward

Total deliveries	2468
Still births	117
Neonatal deaths	137

All the normal new borns are given B. C. G. and smallpox vaccination on 2nd or 3rd day.

The premature room has been started in June 1970. It has 2 incubators and 2 cribs for the isolation and treatment of low birth weight babies.

Diagnostic Centre (Soutter Street)

The Centre functions on Mondays and Thursdays from 2.30 p.m. to 4 p.m. The cases referred from the Municipal Dispensary (Soutter Street) are examined and treated here. Advice regarding diet, immunizations and hygiene is given.

130 New cases and 435 old cases were seen in the Centre. Whenever necessary the children are referred to the Nair Hospital for investigations and/or admission.

Child Guidance Clinic

The clinic works on Monday, Wednesday and Friday from 2.00 p.m. to 5 p.m.

New cases	111
Old cases	317

The following cases were seen in the clinic.

Mental retardation	24
Behaviour problems	16
Scholastic Backwardness	14
Enuresis	7
Deaf and Dumb	2
Delinquency	4
Hysteria	3
Psychosis	2
Psychosomatic	3
Diagnosis not known	1
I. Q. Testing	35

The children are examined, their behaviour is studied and they are treated with play therapy. The parents are interviewed and advised regarding care and management of these children.

CHILD WELFARE CENTRE.

New Registrations	...	194
Total attendance	...	1,194
Milk distribution	...	120

Immunization.	1st dose	2nd dose	3rd dose	Booster
Oral Polio	562	341	288	103
Triple Injection	117	110	67	21
Health talks to mothers with illustrations				
Home visits by Public Health Nurses				

RESEARCH WORKS

1. Small-pox in children.
2. Pattern of infections in the neonatal ward.
3. Serum iron levels in newborns.
4. SGOT, SGPT levels in newborns.
5. Stuffy nose in newborns.
6. Hypertension in children.
7. Liver biopsy in hepatomegaly.
8. Unconscious child.
9. Assessment of maturity in newborn.
10. Fallot's Tetralogy.

PUBLICATIONS

1. Cirrhosis of liver : Bharat Med. J. 2 : 130, April 1970.
2. A study of Tetanus in children : The Bombay Hospital J. 12 : 64 : Oct. 1970.
3. Problems at Child Welfare Centre : Current Med. Pract. 14 : 72, March 1970.
4. Chloramphenicol by rectal route : Ind. J. Pharma, September, 1970.
5. Rickets : A study of 300 cases : Indian Pediatrics, 6 : 792, Dec. 1969.
6. Acute Glomerulonephritis : The Bombay Hosp. J. 12 : 32, 1970.

DEPARTMENT OF DERMATOLOGY AND VENEREOLCGY

The department functions three a week (Tuesday, Thursday and Saturday) from 8.30 a.m. onwards.

The following investigations are undertaken in the Department.

1. Skin Biopsy	258
2. Bl. Serology—V. D. R. L.	1,950
3. Direct Examination ROH Solution for detecting fungi	1,072
4. Routine Bl. Counts	793
5. Smear for onococci	283
6. Routine examination of Urine	910
7. B. E. S. R.	...
8. Clinical photographs taken of interesting and academic cases.	...

The following special therapy is undertaken in Department of Dermatology and Venereology.

1. Electric Cauterisation.
2. Sup. X-Ray Therapy.

Medical Research

Problems being investigated in the Dept. are essentially of Clinical nature. They are : (1) Psoriasis (2) Leucoderma (Vitiligo) (3) Drug reactions (4) Dermadromes due to Systemic Diseases. Besides a regular register of interesting and rare cases, and cases of academic interest is being maintained. Some of these cases are often published with Photographs in Indian Journal of Dermatology and Venereology. Dept. also maintains following important records.

Classified attendance, interesting cases, Special problems, Histopathology, treatments carried out in the Dept. E. G. Sup-X-ray, Cautery, etc. Reprints of articles by foreign authors, projection transparencies and photographs.

Publications

1. Familial Benign Chronic Pemphigus (Hailey and Hailey) A report of recurrent herpetiform dermatitis repens in a family by Dr. T. K. Mehta, Dr. L. Marquis and Dr. S. M. Mathur.

Leprosy Clinic :

The Clinic is open on Thursdays at 11-30 a.m. onwards.

During the year 1970, 1517 patients attended the Clinic. Individual attendance was 490. 207 New cases were seen at the clinic. 12 cases were transferred from A. L. Hospital. 28 cases were kept for observation. 39 cases were detected as non-leprosy cases. 15 cases (New) contacts were examined. Prophylactic treatment for the contacts was given to 29 patients. Sweat function test was done in 37 cases.

DEPARTMENT OF ANAESTHESIOLOGY**Publications :**

1. Clinical experience with Haemaccel by Dr. J. S. Anand and Dr. J. H. Mehta.
2. Cardiac arrest following Succinylcholine in a burned patient by Dr. J. S. Anand and Dr. (Mrs.) D. Chugh and Dr. J. H. Mehta.
3. Anaesthetic problems in Mitral Valvotomy by Dr. J. S. Anand, Dr. (Mrs.) Vyas, Dr. S. Kotwal and Dr. J. H. Mehta.
4. Cardiac Arrhythmias during Anaesthesia in Surgery by Dr. J. S. Anand and Dr. (Miss.) Manage.
5. Accidental pneumothorax in a neonate following intubation by Dr. J. S. Anand.
6. Cardiac arrest following the use of tubocurarine in a child by Dr. J. S. Anand and Dr. (Mrs.) Vyas.
7. Cardiac arrest following 1/v succinylcholine in a burned patient by Dr. J. S. Anand and Dr. (Miss.) R. Manage.

Papers Read by Dr. J. S. Anand, Dr. (Miss.) Kotwal and Dr. (Miss.) R. D. Manage.

1. Role of Hypothermia in Intra Cardiac Surgery.
2. Trimeprazine Tartrate (Velargen) as permedication in Cardiac Surgery.
3. Serum-K changes subsequent to succinylcholine with different induction Techniques.
4. Simple aid to monitoring.
5. Review of Cardiac arrest in the Theatre for the last 5 years. This paper was adjudged the best paper of the year at the XXIst Annual Conference of Anaesthesiologist held at Jubbalpur in 1970.

RESEARCH:

1. Intravenous Morphia as sole Anaesthetic agent in Intracardiac Surgery. (Dr. J. S. Anand).
2. Electrolyte changes during Cardiac Pulm. by pass Dr. J. S. Anand and Dr. (Miss.) R. K. Mehta.

SPECIALISED DEPARTMENTS**1. Cardiology Medical and Surgical Services—**

The Out-patient clinic is open on Mondays and Fridays from 11-30 a.m. to 1-30 p.m.

During the year 1970, 529 new cases and 1889 old cases were examined and treated at O. P. D. 96 patients were admitted for Indoor treatment.

The following Research projects and papers were presented and published by the Department.

1. Propranol in Angina Pectoris—A double blind study present at A. P. I. Meeting January 1970.
2. Straight Back Syndrome—A Study of 22 cases presented at A. P. I. Meeting, January 1970.
3. Unusual manifestations in cirrhosis of liver presented at the A. P. I. Meeting, January 1970.
4. Mephentermine in treatment of Shock and Cardiac Arrhythmias—presented at the A. P. I. Meeting January 1970.
5. High carbohydrate diet and atherosclerosis—an experimental study in rabbits—Angiology, March 1970.
6. Diet and Coronary Heart Disease—Symposium Dr. V. V. Shah attended as an expert on the committee of I. C. M. R. A. paper on this topic was also presented by him.

RESEARCH PROJECTS :

1. Long terms study of University Professors an epidemiologic study for the detection of Coronary disease, Hypertension and Diabetes—In progress.
2. Establishment of Cardiac Museum—1st phase of Coronary Disease is almost finished.
3. Papaverine Nicotinate in againa pectoris—a double blind trial. Study is over the results are being analysed.
4. Serum Electrolytes and Urinary electrolytes in C. C. F. study in progress.
5. Study of Modified Intensive Coronary care in acute Myocardial infarction—35 cases studied.

Biochemistry.—Catacholamine estimation technique is standardised.

During the year under report 8512 cardiograms were taken as against 7573 during the previous year.

Statement showing the number of electro-cardiograms taken during the year 1970 according to disease wise.

Diseases.	Total.
1. Coronary Thrombosis	968
2. Hypertension	373
3. Mitral Diseases	434
4. Auricular Fibrillation	116
5. C. C. Failure	155
6. Cor-pulmonale	174
7. Angina Pectoris	90
8. Aortic Stenosis	93
9. Rheumatic Disease	58
10. Anaemia	72
11. Myocarditis	34
12. Pericarditis	39
13. A. S. D.	68
14. V. S. D.	92
15. P. D. A.	11
16. Fallot's Tetralogy	33
17. Heart Block	109
18. Diabetes	169
19. Pulmonary Stenosis	38
20. I. H. D.	57
21. Normal	2870
22. Pain in chest	235
23. Miscellaneous	2224
Total ...	8512

DEPARTMENT OF CARDIAC SURGERY :

The Out-patient clinic opens on Mondays and Fridays from 11-30 a.m. to 1-30 p.m.

During the year the following Cardiac operations were performed.

A. 1. Closed Mitral valvotomy	50
2. Open heart operation	49
3. A. Valve replacement	12
Aortic valve replacement	7
4. Prosthetic	4
5. Homovalve	2
6. Autovalve	1
B. Mitral valve replacement	5
C. Aortic Valvotomy	2
D. Mitral Valvotomy	6
E. Correction of V. S. D.	10
F. Correction of A. S. D.	8
G. Total correction of Fallot's Tetralogy	10
H. P. D. A.	1
Division of P. D. A.	3
Blalock Toussing Shunt	4
Pericardiectomy	3
Exploratory Cardiotomy	3

GASTRO ENTEROLOGY MEDICAL SERVICE :

The Out-patient clinic is open on Wednesdays and Saturdays from 11-30 a.m. to 1-30 p.m.

During the year 1970, 686 new cases and 1165 follow-up cases were examined and treated at the O. P. D. 305 patients were admitted for indoor treatment.

A regular follow up is undertaken of all the cases. The department carried out routine investigations in addition to special investigations such as Peritoneoscopy, Sigmoidoscopy, Gastric Biopsies, Jejunal Biopsies, Colon Biopsies, Oesophagus Biopsy and Gastroscopy.

Work was carried out on the following projects.

1. Pepsin, Parietal and Non-parietal secretion in Gastric Juice.
2. Tropical sprue and Protein Malnutrition (ICMR Project).

The following papers were published.

1. Desai H. G., Zaveri M. P. and Antia F. P.—Comparison of dose response curve with subcutaneous and I. V. Histamine, *Gastroenterology*, 59, 701, 1970.
2. Desai H. G., Gupte U. V., Pradhan P. K., Thakkar, K. D. and Antia, F. P. Incidence of Lactose deficiency in control subjects from India Role of Hereditary factors. *Ind. J. Med, Sci.* 24, 729, 1970.
3. Desai H. G., Zaveri M. P. and Antia F. P., I. V Histamine tests with Scand, *J. Gastro*, 5, 617, 1970.

GASTRO ENTEROLOGY SURGICAL SERVICE

The Out-patient clinic is open on Wednesdays from 11-30 a.m. to 1-30 p.m.

During the year 54 new cases and 943 old cases were examined and treated at the O. P. D. 611 cases were admitted for indoor treatment. During the year 344 operations were performed, and the type of operations are given below :—

Vagotomy and Gastrojejunostomy	...	...	...	...	...	...	71
Appendectomy	...	...	...	...	...	...	113
Liver and spleen operations	...	...	...	...	...	...	29
Hernia	...	...	...	...	...	...	16
Exploratory Laparotomy	...	...	...	...	...	...	107
Ileo-transverse colostomy	...	...	...	...	...	...	8

Dr. J. S. Shah was elected as President of Indian Society of Gastroenterology and presided at the 11th Annual Conference at Delhi at All India Institute of Medical Science. Shri K. K. Shah, the Honorable Union Minister of Health inaugurated the conference.

Dr. J. S. Shah led the delegates on behalf of Indian Society of Gastro-enterology at 4th World Conference of Gastro-enterology at Copenhagen.

Dr. V. K. Desai attended the above conference as a delegate.

The following papers were read at the above conference.

- (a) Peptic perforation—A review of 140 consecutive cases. Dr. V. K. Desai and Dr. J. S. Shah.
- (b) Typhoid perforation—A study of 100 cases. Dr. J. S. Shah.
- (c) Obstructive lesions at the duodeno-jejunal Flexure Dr. V. K. Desai and Dr. J. S. Shah.
- (d) Cold water test for stomal function. Dr. J. S. Shah.

STUDY TOUR :

Dr. J. S. Shah went on a study-cum-lecture tour in Gastroenterology round the world During his tour he addressed the students and discussed with the staff problems of G. E. Surgery at the following University centres.

- (a) Cleavland.
- (b) Chicago.
- (c) Mount Sinai.
- (d) Presbyterium Hospital.
- (e) University of Glasgow.
- (f) University of London-various Hospitals.
- (g) University of Edinburgh.

NEUROLOGY SERVICES :

The clinic is open on Tuesdays and Thursdays from 11-30 a.m. to 1-30 p.m.

During the year 225 new cases were treated and examined in addition to 273 old cases coming for follow up. 181 cases were admitted for indoor treatment. 564 referred cases were examined and treated in the O.P.D.

The following special investigations were done.

Angiography	...	...	...	...	...	...	111
P. E. G.	...	...	...	...	...	...	30
Myelography	...	...	...	...	...	...	76
C. S. F.	...	...	...	...	...	...	600
Brain cutting	...	...	...	...	...	...	700
(Neuropathological work)							

VISITS :

- | | Date of visit. |
|---|----------------|
| 1. Prof. Lensney-Charles University of Prague, Czechoslovakia | ... |
| 2. Prof W.A. Cobb, Head of Dept. of EEG, National Hospital for Nervous system, London | 2-2-1970 |
| 3. Prof. Spillane, Head of Dept. of Neurology, University of Wales | 18-2-1970 |
| 4. Dr. Randall Thompson, NIH Science Representative visited the dept. to scrutinize the NIH projects carried out at these institutions. | 25-2-1970 |

Publications:

1. Some observations on Thrombolysis in Vitro, J. Assoc. Phys. India, 18: 775, 1970.
2. Fibrinolytic mechanisms and Thrombolysis (in press).

Special Projects :

Two research projects financed by NIH, USA under PL-480 funds entitled "Collaborative Neurologic Investigations of Cerebrovascular Diseases" under Dr. P. M. Dalal, Hon. Prof of Neurology and "Comparative study of Intracranial Cerebral Atherosclerosis" under Dr. S. C. Sheth, Emeritus Prof. in Medicine have been continued for the second year.

Recently this unit has been allotted 17 beds and hence it is considered a full-fledged unit recognised by the Bombay University for Post-graduate Students in M. D. Neurology.

NEURO. SUGERY :

The Out-patient department is open on Tuesdays and Thursdays from 11-30 a.m. to 1-30 P.m.

During the year 354 new and old patients were treated at the O. P. D. 133 patients were admitted through this O. P. D. 145 operations were performed.

The following specialised investigations were done.

Carotid Angiogram	...	...	...	...	...	...	62
Air Studies	...	...	...	...	...	...	63
Myelograms	...	...	...	...	...	...	22

RHEUMATIC AND COLLEGEN DISEASES DEPARTMENT :

The O. P. D. is held every Saturday and on an average the attendance is 80 patients. Out of this about 10 patients are new cases and the remaining follow up cases. Patients are referred to the Radiology Department and Pathology Department for various investigation whenever required.

Physiotherapists and Occupational Therapists also attend the O. P. D. and patients requiring physiotherapy and Occupational Therapy are referred to the Department.

Drugs obtained from the hospital are supplied to the patients.

DEPARTMENT OF CHEST DISEASES AND THORACIC SURGERY :

This department was started on 22nd January 1964 as a special department with a view to step up the care of the patient suffering from Chest Diseases.

The department has one O. P. D. session on every Friday at 11-30 a.m. onwards, where all the members of the Dept. (Medical and Surgical) meet and discuss the cases jointly and follow up is also done at the same time. This system has been found to be of great benefit to the patients.

The department is provided with a additional special 5 beds for Medical and 5 beds for Surgical side.

On an average per year 162 patients are seen in O. P. D. 193 operations were performed. Average number of cases admitted under the care of Thoracic Medical Dept. is 172 per year out of which 19.1 per cent. are referred every year for thoracic Surgical treatment.

Since 1967, the Department is also provided with a well equipped "RESPIRATORY PHYSIOLOGY LABORATORY" and 716 Respiratory Function tests were done during the year. The department has improved the treatment of both Medical and Surgical chest Diseases and has helped post-graduates to learn more about Chest Diseases.

GENITO URINARY SURGICAL SERVICE :

The O. P. D. clinic is open on Saturdays from 11-30 am. to 1-30 p.m.

During the year 206 new and 350 old cases were examined and treated. 156 cases were admitted for indoor treatment and 215 operations were performed. Attendance and response from other departments is on increase.

The following investigations were done by the Dept.

(A) Routine cystoscopy	...	...	...	...	...	...	105
(B) Special—							
1. Ascending pyelography	...	...	...	...	...	...	15
2. Micturating Cystourethrogram	...	...	...	...	...	...	25
3. Cystometry	...	...	...	...	...	...	6
4. Cystolithotrite	...	...	...	...	...	...	6
5. Resectoscope	...	...	...	...	...	...	5

A special study on Catheterless Prostatectomy is under taken by the Department.

Following are the publications and papers by Dr. K. C. Mehta.

1. Simple technique for re-anastomosis after Vasectomy. British Journal of Urology, June 1970.
2. Non Specific inflammatory strictures of ureter. Annual Conference of Urology Section: Association of Surgeons of India at Jaipur.
3. Prostatectomy—review of 200 different operations. Annual Conference of International College of Surgeons at Hyderabad.

EYE BANK :

The O. P. D. function on Thursdays from 12-30 p.m. onwards.

During the period from 1-1-1970 to 31-12-1970, 29 patients were admitted for indoor treatment and 29 Keratoplasty operations were performed.

Publications of papers published by the following staff of Ophthalmology Department.

1. A Technique for removal of a posteriorly dislocated lens: Dr. A. M. Gokhale and Dr. P. A. Dikshit, Journal of All India Ophthalmological Society, Bombay published in November 1969 issue.
2. Conjunctival Tuberculosis—Review and a case report. Dr. S. Mirchandani, Dr. P. A. Dikshit and others, Indian Journal of Tuberculosis, April 1970 issue.
3. Probenazine in Ophthalmology, Dr. A. M. Gokhale and Dr. S. A. Gokhale, British Journal of Ophthl. October 1970.

Following papers read at All India Ophthalmic Conference held at Patna, February 1970.

1. Topical Corticosteroids and Heredity in Primary Open Angle Glaucoma. Dr. A. R. Patel and Dr. B. D. Telang, Bombay.
2. Implantation of Muscle strip by Partially modified Agarwal's Temesis Method in Retinitis pigmentosa. Dr. Ashok R. Patel and Dr. R. Abreu, Bombay.
3. Correction of Ptosis by the use of Scleral sling. Dr. Ashok R. Patel and Dr. R. Abreu, Bombay.
4. Eye Manifestations in Leprosy. Dr. Ashok Patel and Dr. B. P. Patel. Papers read at Bombay Ophthalmic conference in December 1970.
5. Correction of Ptosis by Scleral implantation. Dr. A. R. Patel and Dr. R. Abreu. Papers read at Bombay Ophthalmic conference in December 1970.

FAMILY WELFARE PLANNING CLINIC :

During the year 1923 persons attended the clinic and 3257 persons were visited at home for new contact and follow up. Contraceptives costing about Rs. 5335 were supplied to the persons attending the clinic. During the year 19 vasectomy and 272 sterilisation operations were performed.

DEPARTMENT OF RADIOLOGY :

During the year under report the following diagnosis Therapeutic work was done in the Department.

Routine X-rays	...	...	...	...	...	...	33062
Carotid Angio	...	...	...	...	...	...	305
Renal Angio	...	...	...	...	...	...	39
Bronchial Angio	...	...	...	...	...	...	26
Ventricular graphy	...	...	...	...	...	...	31
Myelogram	...	...	...	...	...	...	123
P. E. G.	...	...	...	...	...	...	46
Spleenogram	...	...	...	...	...	...	70
Aorticogram	...	...	...	...	...	...	41
Lumbar Aortogram	...	...	...	...	...	...	2
Vertebral angio	...	...	...	...	...	...	12
Cerebral angio	...	...	...	...	...	...	3
Cerebral catheterisation	...	...	...	...	...	...	4
Lymphangiography	...	...	...	...	...	...	3
Bronchogram	...	...	...	...	...	...	118
I. V. Cholangiogram	...	...	...	...	...	...	2
Oral Cholecystogram	...	...	...	...	...	...	92
Pelvimetry	...	...	...	...	...	...	74
Barium meal	...	...	...	...	...	...	819
Barium swallow	...	...	...	...	...	...	336
Barium Enema	...	...	...	...	...	...	169
I.V.P.	...	...	...	...	...	...	497
Ziologram	...	...	...	...	...	...	12
Pleurogram	...	...	...	...	...	...	5
Sinusogram	...	...	...	...	...	...	21
Palatogram	...	...	...	...	...	...	22
Cisternogram	...	...	...	...	...	...	2
Cysto-urethrograph	...	...	...	...	...	...	45
Ascending pyelography	...	...	...	...	...	...	16
Arthrogram	...	...	...	...	...	...	1
Gynaecography	...	...	...	...	...	...	2
Placentalography	...	...	...	...	...	...	9
Tomogram	...	...	...	...	...	...	16
Ovarian Cystography	...	...	...	...	...	...	1
Nasopharyngography	...	...	...	...	...	...	1
Pneumoperitoneography	...	...	...	...	...	...	4
P. C. Cholangiography	...	...	...	...	...	...	4
Peri-renal insufflation	...	...	...	...	...	...	3
Total X-Ray plates							65704

ANTI RABIC DEPARTMENT :

The Clinic is open everyday between 3-00 p.m. to 5 p.m. On Sundays and holidays between 10-00 am. to 12 noon.

ISOTOPE UNIT AND THYROID CLINICS :

The isotope unit in B. Y. L. Nair Charitable Hospital was started from 1-4-1967 for undertaking thyroid investigations and medical and radioactive treatment of the patients referred to this unit. Due to the ever increasing demand and increased clinical material thyroid clinic a collaborative project between Departments of Pharmacology, Medicine and Surgery with the Professor of Pharmacology is overall charge of the Clinic was started from 25-10-1969. From the start till March 1970 the total attendance to the clinics was 238 cases. Of which 53 were new and 107 evaluation cases and 78 follow up cases.

The work load on the department has since then increased tremendously as can be seen from the report submitted below of the work done from 1-4-1970 to 15-3-1971.

A. THYROID CLINIC ATTENDANCE :

New cases	...	...	...	325	(78 New, 247 Referred).
Evaluation cases...	...	...	...	293	
Follow up cases	...	...	...	200	
Total				...	818

Similarly the investigation load also since then has increased as seen below:—

B. INVESTIGATIONS :

	No. of Patients
1. I 131 uptakes	300
2. P. B. I131 Studies	300
3. Thyroid scan...	96
4. Liver scan with Rose Bengal, Au. 198	20
5. B. M. R. Studies	40
6. Serum Cholesterol	322
7. Serum Sodium Potassium Estimation	483
8. Serum G. O. T. and G. P.T. Estimation	111
9. Serum Potein	30
10. B. O. M. Estimation	30
11. Schilling's test with Cobalt—58 Vit. B-12	142
12. Peptic Acidity Gastric Juice with R. I. S. A.	50
13. Protein Studies as Pilot Studies	5
14. Intrinsic Factor Antibodies	168

(New 260 Repeat-40).

T3 RBC uptake studies with T3 labelled, I 131 which were done initially were discontinued later.

C. THERAPY :

Radio active I 131 therapy	...	...	...	...	...	12
Radioactive P32 therapy	...	...	...	...	...	1

Other drugs like thyroid tablets and Vit. B complex which were dispensed initially to save the patients trouble of waiting in queue were stopped temporarily due to shortage of supply.

As the load in the department had increased in the beginning of 1970 the I 131 Capsules strength was increased from 10 to 15 in order to reduce the waiting period for appointments but as the cases lessened the load was again reduced to 10 capsules. From 13-7-1970 owing to the increased load, the capsules strength has been again raised to 15.

ENDOCRINOLOGY DEPARTMENT :

The Clinic is open on Mondays and Fridays between 2-00 pm. to 5 p.m.

During the year 198 new cases and 1212 old cases were examined and treated at the O. P. D.

Types of patients seen during the period.

	Patients
1. Sterility (Male)	18
2. Sterility (Female)	16
3. Pit. disorders...	2
4. Pit. Ovarian disorders	43
5. Ovarian disorders	7
6. Adrenal	11
7. Growth disorder	7
8. Thyroid	8
9. Male Hypogonadism	12
10. Patients for clinical trials on Anti fertility compounds	50
11. Undescended testis	2
12. Genetic disorders	1
13. Miscellenous endocrine disorders	15

LABORATORY INVESTIGATIONS :

1. 17 Ks.	179
2. K. Gs.	181
3. Cervical mucus-	19
4. Oestriol	45
5. Prgnandiol	45
6. Pregnancy test	21
7. Gonadotrophin	151
8. Sex Chromatin	35
9. Vag. Smear	68
10. End. Biopsies	82
11. Liver function tests	82
12. Post coital test	31
13. Creatinine	115
14. A. I. H.	2

Seman Analysis :

1. Maltose activity	18
2. Fructose Activity	73
3. Sialic acid	70
4. Count mortility	73

LIPID METABOLISM :

1. Cholesterol	91
2. Tr glyceride	91
3. Free fatty acid	91
4. E. F. A.	91
5. Routine tests	119

Animal House performance :

1. Maintenance and Breeding of rat and their colony.
2. Sialic acid and Ascorbic Acid metabolism in rat reproductive tissues.
3. Histochemical changes in rat endocrine and reproductive tissues.
4. Use of rats and mice in Bioassays and Urinary gonadotrophins and for standardising the gonadotrophin extracts obtained from Human Pituitaries.
5. Implantation experiments in rats.

Publications :

The following papers published by Dr. Shahani.

1. Invited participant at "Noble Foundation Symposium on fertility at Stockholm in May 1970.
 2. Visited various Research centres and Endocrine laboratory in Europe in May June 1970.
- Spent one month (June-July) 1970 in New York at the Institution of Population Council to learn methods of Radioimmunoassays for gonadotrophin at Cornell Med. School Endocrine Department and Bio-Med. Laboratory of Population council, New York.
3. September 3-5th 1970, invited as Guest Lecturer for a "Lecture-seminar course for teachers in Obst. and Gyn." in Delhi organized by Central Family Planning Institute and W. H. O.
 - Spoken: 1. Disorders of ovarian function.
 2. Use of hormones in Menstrual disorders.
 4. October 19-22nd: W. H. O. seminar on Human reproduction in Bangalore. Dr. Shahani was an invited participant and Chaired the 1st session.
 5. Paper read before 1st conference of Bombay Obst. and Gyn. Society on 19-20th December 1970. "Induction of ovulation with Human gonadotrophin.
 6. Recent advances in management of Infertility " talk given before Bombay Med. Union on 24th March 1971.

DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE ;

The Department provided clinic service to two types of socio-occupational groups—Sweepers at Arthur Road and Office goers at Gilder Lane.

The record of clinic service for the year 1970 is as follows :—

	Community	No. of clinic sessions held	No. of first visits	No. of revisits	Total
Arthur Road	...	192	17	4237	4254
Gilder Lane	...	15	...	32	32
	Total	207	17	4269	4286

In addition to follow up care at the Clinics, a proportion of patients were referred to Hospital out-patients departments for consultation and investigations.

HOME MEDICAL CARE :

This was continued in 1970. In this year physiotherapy was also introduced.

The following is the record for 1970.

No. of patients carried forward from previous year	...	...	...	...	1
No. of new patients enrolled in 1970	...	...	...	...	10
No. of visiting days	...	...	...	...	119
Total number of visits	...	...	...	...	366
Average no. of visits per visiting day	...	...	...	...	3.1

TUBERCULIN TESTING AND B. C. G. VACCINATION :

Tuberculin testing was carried out on 5921 patients attending Pediatric O. P. D. and School Clinic of Nair Hospital. The drop in numbers tested this year was compared to the previous years in due to the fact that the Govt. B. C. G. Centre supplied very limited quantities of the testing material P. P. D. as they now advocate direct B. C. G. to all under 20 years without prior testing.

B. C. G. vaccination was carried out on 1733 neonates and 1283 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.

HEALTH SUPERVISION OF SCHOOL CHILDREN :

Work on medical inspection of school children belonging to Standards I and III of the Upper Primary School at Agripada was continued in 1970. 830 children were inspected during this year.

COMMUNITY HEALTH SERVICE AT BANDRA :

This project in collaboration with Sodality House was continued in 1970. Medical relief undertaken in the 10,000 strong community residing at the Behrampada slums in Khernagar at Bandra.

SOCIAL SERVICE :

1. Total no of cases referred was 1405.
2. Case work was done on 426 patients. These patients were referred from the Departments of Preventive and Social Medicine, Tuberculosis, Pediatrics, Orthopedics, Psychiatry, Obstetrics and Gynaecology, Speech Therapy etc.
3. Medicines were supplied to 263 patients referred from the various departments.
4. Appliances were provided to 85 patients, e.g. crutches, Hearing aids, calipers, surgical boots, surgical belts etc.
5. Home visits were made in 74 cases.
6. Agencies, Institution and Employees were visited in 86 cases.

RESEARCH PROJECTS :

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 1970 are as follows :—

Group	No Under observation	Total No. of visits	Average-Visit per infant-or child
Infants	37	190	6.13
Pre-school children	74	192	2.59

Psycho-social studies on Coronary Heart disease and prospective studies on University professors.

The records for 1970 are as follows :—

90 Professors (New cases)

130 Professors (Old cases).

Follow up of infants and children vaccinated with B. C. G. vaccination was continued.

SCHOOL CLINIC :

The clinic worked in three services viz. Paediatric, Aural and Ophthalmic from Monday to Friday between 2-30 p.m. to 4-30 p.m.

ATTENDANCE OF PRIMARY SCHOOL CHILDREN :

Services.	New	Old	Total	Referred.
Paediatric	1016	10813	11829	—
Ophthalmic	316	2819	3135	86
Aural	752	7547	7299	294
Grand Total	2084	21179	23263	380

ATTENDANCE OF SECONDARY SCHOOL CHILDREN

Services.	New	Old	Total	Referred.
Paediatric.	103	338	441	—
Ophthalmic	100	436	536	25
Aural	21	208	229	44
Grand Total	224	982	1206	69

Statement showing the number of Children operated and glasses given to School Clinic Primary schools for the year 1970.

PARTICULARS.	PRIMARY SCHOOL Children.	Secondary School Children.
Operated for Tonsil	133	6
Operated for Mastoid	3	—
Operated for Eye diseases	3	—
Other operations.	8	3
Glasses given	125	—

AUDIOLOGY AND SPEECH THERAPY DEPARTMENT.

Audiology and Speech Therapy School admits 10 students every year in the month of June for two years training programme leading to B. Sc. (Audiology & Speech Therapy) of Bombay University. In the year 1970, 9 students appeared for B. Sc. degree examination of Audiology and Speech Therapy out of these 5 students were declared successful. Nine students appeared for First year B. Sc. (U. S. A.) Examination.

This School and Centre is selected by All India Institution of Speech and Hearing, Mysore, for Internship training programme for those student who have completed the M. Sc. in Audiology and Speech Pathology. Students come for a period of one month by rotation and so far 18 students have taken the benefit of this institution for the clinical work and this specially under the supervision of staff members of Audiology and Speech Therapy School.

New cases are seen twice a week by previous appointment and cases are seen daily between 9.00 a. m. to 4 p.m. except on Saturday when the cases are seen from 9 a. m. to 12.30 p. m. On an average the department treated 45 to 50 cases per day. The total number of patients seen in the year 1970 is 2033 as per statement given below :—

Diagnosis.	Total.
1 Audiogram	1130
2 Deafness	238
3 Stammering	211
4 Dyslalia	72
5 Delayed speech	59
6 Cleft palate	14
7 Dysphonia	13
8 Laryngectomy	16
9 M. R.	65
10 Cerebral palsy	8
11 Aphasia	27
12 Not confirmed	89
13 Dysarthria	24
14 Primary Hesidancy	4
15 Voice case	24
16 Observation	1
17 New cases	7
18 Short palate	1
19 Nasality	3
20 Infant test	1
21 Puberphonia	12
22 Submucos cleft palate	1
23 Miscellaneous	13
Total.	2033

DEPARTMENT OF OCCUPATIONAL THERAPY :

Total number of patients	...	...	...	...	...	...	3,462
Total number of patients—							
Attendance	...	...	...	...	...	...	32,987
Indoor new patients	...	...	...	...	...	...	754
New Out—patients	...	...	...	...	...	...	945

The department of Physical Medicine was started in 1955 with one occupational Therapist looking after both Occupational Therapy and Physio-therapy.

Patients are referred from all units in the Hospital for treatment in Occupational Therapy. They include Orthopedic, Medical, Surgical, Neurological, Burns, Plastic Surgery, Psychiatric, Pediatric, etc. Many crafts are taught for treatment purpose and then sold.

Under graduates students from K. E. M. Hospital and Postgraduates from all India Institute of Physical Medical and Rehabilitation come for training. Medical students and Nurses are also sent for Orientation.

DEPARTMENT OF PHARMACY :**Dispensary :**

During the year 1970 the hospital dispensary has dispensed 3,80,280 out-door case papers and 16877 in-door case papers.

Total quantity of stock prepared for Indoor and Out-door patients is given below :

1. Quantity of stock solution prepared	...	...	...	...	...	...	43,627
							Lits.
2 No. of Tablet packet made.	...	...	...	...	...	...	16,39.56
3 No. of powders wrapped	...	...	...	...	...	...	4,33,827
4 Special prescription	...	...	...	...	...	...	23,065
5 No. of O. P. D. prescription dispensed	...	...	...	...	...	...	11,3723.

MANUFACTURE OF PHARMACEUTICALS :

1. Transfusion Bottles	...	...	...	...	...	...	11,0122
2 Vials	...	...	...	...	...	...	21,083
3 Ampules	...	...	...	...	...	...	6044
4 Tablets.	...	...	...	...	...	...	16,37,806

GLASS BLOWING :

Following glass articles are prepared during the year.

1 Murphy's drips	...	...	...	...	...	...	670
2 Saline set tubes	...	...	...	...	...	...	5120
3 Drainage bottle tubes	...	...	...	...	...	...	843
4 Needle cover tubes	...	...	...	...	...	...	669
5 Connection for oxygen— delivery	...	...	...	...	...	...	826
6 Other articles	...	...	...	...	...	...	1668

The glass articles are prepared for the set service of Pharmacy Dept. and the glass blower's service are also given to the Theatres and college side department.

EDUCATION :

1 8 Students of Diploma in Pharmacy from Amravati and Jalgaon Polytechnic College have taken their Practical training of 750 hours.

2 Two Drug inspectors from Mysore State are under training in Hospital Pharmacy for 4 months.

3 In-charge of Kasturba Hospital Pharmacy is under training in this Dept. under the Suptd. of Pharmacy.

4 Suptd. of Pharmacy has been deputed for the Inspection of the Tablet Manufacturing Concerns at Madras on 16, & 17. 11. 70.

5. Suptd. of Pharmacy has sent an article on "CENTRAL STERILE SUPPLY IN HOSPITAL" on the request of the 22nd All India Pharmaceutical Congress held at Calcutta in Dec. 1970.

VISITORS :

40 Students of Diploma from Amravati College of Pharmacy visited the Dept.

Drug Inspector from Maharashtra state visited the Dept. on 6.2.70.

About 50 students of 2nd year B-Pharm from the U. Dept. of Chemical Technology visited the Pharmacy Dept. on 20th August 1970.

DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

The following changes occurred in the teaching staff during the year.

Dr. S. M. Purandare, M. D., was appointed as Prof. of Path. & Bact. from 24-8-1970.

CHEMICAL PATHOLOGY SECTION :

The following investigations were carried out in the Chemical Pathology Section during the year 1970.

Blood Urea nitrogen ...	6273
Serum uric acid ...	237
Serum creatinine ...	327
Creatinine clearance ...	17
Urea clearance ...	17
Concentration and dilution tests	5
Urine albumin quantitative	5
Serum proteins ...	2,453
Serum Albumin ...	2,453
Serum globulins ...	2,453
Serum Alkaline Phosphatase ...	1,960
Serum Thymol turbidity ...	1,535
Serum Cephalin Cholesterol ...	1,535
Serum Vanden Bergh reaction ...	2,701
Serum Ictems Index ...	2,702
Serum Bilirubin total ...	1,289
Serum Bilirubin Direct ...	1,289
Plasma Prothombin time and Index	2,016
Plasma Fibrinogen ...	227
Serum Brom-sulphthalein test ...	26
Serum S. G. O. T. ...	835
Serum S. G. P. T. ...	830
Urine urobilinogen ...	30
Blood sugar ...	10,648
Glucose Tolerance test ...	264
Serum Amylase ...	64
Serum Cholesterol ...	2981
Serum Acid Phosphatase ...	165
Serum Calcium ...	522
Serum Phosphorous ...	2,215
Serum Iron ...	147
Serum Electrophoresis ...	350
Serum R. A. Test ...	407
Serum total lipids ...	25
Serum triglycerides ...	25
Serum phosphelipids ...	21
Serum B. glucuronidase ...	23
C. S.F. sugar ...	2,064
C. S. F. chlorides ...	2,064
Gastric analysis ...	326
Examination of urinary calculi ...	2
Urine calcium ...	3
Urine Phosphorous ...	2
Urine Porphyrine ...	2
Colleidal gold curves ...	3
Congo red test ...	2

Total : 53,543

MICROBIOLOGY SECTION

I. Routine examination for Smear and Culture:

1. Urine	...	...	...	...	...	...	...	4,147
2. Cerebro spinal fluids	...	...	...	...	...	...	...	866
3. Aspirated fluids (Miscellaneous)	...	...	...	...	...	...	...	73
4. Ascitic	...	...	...	...	...	...	...	88
5. Pleural fluids	...	...	...	...	...	...	...	204
6. Peritoneal fluids	...	...	...	...	...	...	...	26
7. Pericardial fluids	...	...	...	...	...	...	...	17
8. Hydrocele fluids	...	...	...	...	...	...	...	15
9. Jejunal fluids	...	...	...	...	...	...	...	20
10. Intestinal fluids	...	...	...	...	...	...	...	18
11. Synovial fluids	...	...	...	...	...	...	...	22
12. Miscellaneous swabs from Aspirates	...	...	...	...	...	...	...	42
13. Pus	...	...	...	...	...	...	...	1,521
14. Wound swabs	...	...	...	...	...	...	...	233
15. Umbilical swabs	...	...	...	...	...	...	...	19
16. Ulcer swabs	...	...	...	...	...	...	...	94
17. Abscess swabs	...	...	...	...	...	...	...	32
18. Sputum	...	...	...	...	...	...	...	1,913
19. Bronchial aspirates and swabs	...	...	...	...	...	...	...	48
20. Throat swabs	...	...	...	...	...	...	...	343
21. Nasal swabs	...	...	...	...	...	...	...	68
22. Pharyngeal swabs	...	...	...	...	...	...	...	2
23. Laryngeal swabs	...	...	...	...	...	...	...	8
24. Swabs from lips, tongue, palate, etc.	...	...	...	...	...	...	...	8
25. Ear swabs	...	...	...	...	...	...	...	336
26. Cystic fluids and swabs	...	...	...	...	...	...	...	43
27. Swabs from Kidney, Liver, Lung etc.	...	...	...	...	...	...	...	139
28. Lymph nodes	...	...	...	...	...	...	...	30
29. Stool and rectal swabs	...	...	...	...	...	...	...	75
30. Conjunctival and Corneal Swabs	...	...	...	...	...	...	...	72
31. Miscellaneous swabs from eye	...	...	...	...	...	...	...	4
32. Cervical and Vaginal swabs	...	...	...	...	...	...	...	432
33. Gastric Lavages	...	...	...	...	...	...	...	15
34. Urethral, Prostatic and Endometrial swabs	...	...	...	...	...	...	...	38
35. Miscellaneous	...	...	...	...	...	...	...	27
								11,038

II. Routine Cultural Examinations:

1. Blood and Blood clots	...	...	...	...	...	...	1,498
2. Stool and Rectal swabs	...	...	...	...	...	...	298
3. Throat and Nasal swabs	...	...	...	...	...	...	23
4. Cerebro—spinal fluids	...	...	...	...	...	...	70
5. Pus	...	...	...	...	...	...	50
6. Wound swabs	...	...	...	...	...	...	16
7. Miscellaneous swabs and aspirates	...	...	...	...	...	...	17
								1,972

III. Smear and Cultural examination for Anaerobes

1	Wound swabs	...	...	...	...	...	...	...	233
2	Pus	...	...	...	...	...	...	...	402
3	Swabs from kidney Liver, etc.	...	...	...	...	...	...	...	19
4	Material for testing sensitivity	...	...	...	...	...	...	...	254
5	Ear swabs	...	...	...	...	...	...	...	52
6	Miscellaneous	...	...	...	...	...	...	...	22

 982

IV. Smear and Cultural examination for Fungus

1	Skin scrapings	...	...	...	...	...	...	...	5
2	Vaginal and Cervical swabs	...	...	...	...	...	...	...	375
3	Sputum and Bronchial swabs	...	...	...	...	...	...	...	28
4	Urine	...	...	...	...	...	...	...	95
5	Ear swabs	...	...	...	...	...	...	...	85
6	Cerebro-spinal fluids	...	...	...	...	...	...	...	296
7	Vegetations	...	...	...	...	...	...	...	5
8	Swabs from Lips, Throat, etc.	...	...	...	...	...	...	...	4
9	Intestinal and Jejunal fluids	...	...	...	...	...	...	...	23
10	Miscellaneous swabs and aspirates	...	...	...	...	...	...	...	25

 941

V. Smear and Culture for M. Tuberculosis

1	Sputum	...	...	...	...	...	...	...	45
2	Urine	...	...	...	...	...	...	...	25
3	Cerebro spinal fluids	...	...	...	...	...	...	...	402
4	Pleural fluid	...	...	...	...	...	...	...	325
5	Ascitic fluid	...	...	...	...	...	...	...	28
6	Synovial fluid	...	...	...	...	...	...	...	—
7	Gastric larvae	...	...	...	...	...	...	...	—
8	Pus	...	...	...	...	...	...	...	328
9	Vaginal, cervical, endometrial, swabs, etc.	...	...	...	...	...	...	...	12
10	Lung, swabs, Bronchial swabs, etc.	...	...	...	...	...	...	...	33
11	Miscellaneous	...	...	...	...	...	...	...	15

 1,240

VI. Cultivation with carbondioxide

1	Urine	...	...	...	...	...	...	...	50
2	Prostatic and Urethral swabs	...	...	...	...	...	...	...	45
3	Vaginal and Cervical swabs	...	...	...	...	...	...	...	78
4	Pus	...	...	...	...	...	...	...	45
5	Cerebro-spinal fluids...	...	...	...	...	...	...	...	150
6	Swabs from Brain, Lung, Kidney, etc.	...	...	...	...	...	...	...	23
7	Miscellaneous and aspirates	...	...	...	...	...	...	...	61

 452

VII. Examination of Smears only

1	Smears from Lung, Kidney, spleen, etc.	...	...	...	...	...	...	...	5
2	Skin scrapings	...	...	...	...	...	...	...	—
3	Wet film preparations for Trichomonas, of vaginal and cervical swabs.	...	...	...	...	...	...	...	332
4	Wet film preparations of urine	...	...	...	...	...	...	...	475
5	Wet film of stools and rectal swabs	...	...	...	...	...	...	...	210
6	Wet film of liver aspirates.	...	...	...	...	...	...	...	25
7	Urethral and prostatic smears	...	...	...	...	...	...	...	5
8	Vaginal and cervical smears	...	...	...	...	...	...	...	5
9	Miscellaneous	...	...	...	...	...	...	...	18
10	Sputum of A. F. B. Direct Method	...	...	...	...	...	...	...	1,023
11	Sputum for A. F. B. concentration Method	...	...	...	...	...	...	...	125
12	Hanging Drop Preparations	...	...	...	...	...	...	...	55

 2,278

Details of slides prepared:

1	Dr. Bhajekar Hospital	...	...	...	...	...	59
2	G. E. Department	...	...	...	...	...	237
3	Skin Department	...	...	...	...	...	18
4	Tata Hospital (Unstained)	...	...	...	...	...	12
5	Duplicate Slides	...	...	...	...	...	220
6	Special stains	...	...	...	...	...	109
7	Practical class	...	...	...	...	...	301
8	Request from staff members	...	...	...	...	...	31
9	Dr. R. N. Cooper Hospital	...	...	...	...	...	53
10	Autopsies performed during the year	...	...	...	...	...	832

PHOTOGRAPHY AND ART SECTION:

Following work was done in the Photography and Art Section for the different department of the college and Hospital during the year 1970.

Snap	...	...	...	...	...	...	8,310
Enlargements	...	...	...	...	...	...	8,310
Black and white slides (Positive)	...	...	...	...	...	...	6,960
Coloured Photographs	...	...	...	...	...	...	140
Developing roll for X-ray Dept.	...	...	...	...	...	...	310
Sketching, Posters, black and white charts blackboard	...	...	...	...	...	...	615
Writing and drawing etc.	...	...	...	...	...	...	615

FOOD HANDLERS SCHEME:

The following investigations carried out in the Food Handlers scheme from 1. 1. 70 to 31. 12. 70.

Blood—Widal	...	...	...	...	...	...	1,651
Blood—V. D. R. L.	...	...	...	...	...	...	1,651
Stool examination	...	...	...	...	...	...	1,035
Urine examination	...	...	...	...	...	...	1,532
							<hr/> 5,869
Total Food Handlers examined:	...	...	...	...	...	...	1,741

SEROLOGY SECTION:

The following investigations carried out during the year 1970.

Blood V. D. R. L.	...	...	...	...	...	...	11,162
CSF V. D. R. L.	...	...	...	...	...	...	1,077
Blood Widal	...	...	...	...	...	...	12,74
Blood well felix	...	...	...	...	...	...	475
Blood Paul Bunnell	...	...	...	...	...	...	3,714
Blood Brucellosis	...	...	...	...	...	...	90
Blood Formal gel	...	...	...	...	...	...	2
							<hr/> 14,444

Statement showing the investigations done for School Clinic Children for the year 1970.

Hb.	...	...	...	...	...	...	582
W. B. C.	...	...	...	...	...	...	250
B. T. C. T.	...	...	...	...	...	...	323
E. S. R.	...	...	...	...	...	...	214
Urine	...	...	...	...	...	...	336
Stool	...	...	...	...	...	...	98
Sputum	...	...	...	...	...	...	1
							<hr/> TOTAL: 1,804

BLOOD BANK :

During the year approximately 5,620 transfusion (excluding plasma transfusions) were administered as against 4,040 for the previous year.

Response from the voluntary donors was found to be quite encouraging as 1,135 voluntary donors were bled during the year as against 990 during the previous year.

Statement showing the work done by the Blood Bank :

No. of Donors bled in 1970	...	...	...	...	...	...	5,443
No. of Voluntary donors bled	...	...	...	...	...	...	1,135
No. of blood brought from outside	...	...	...	...	...	...	309
No. of grouping done	...	...	...	...	...	...	7,570
No. of crossmatching done	...	...	...	...	...	...	6,991
No. of Rh-typing done	...	...	...	...	...	...	5,061
No. of Transfusions given	...	...	...	...	...	...	5,620
No. of Coomb's tests done	...	...	...	...	...	...	42
No. of ant. body titers done	...	...	...	...	...	...	36
During the year 1970, 832 post-mortems were performed.							

RESEARCH WORK :**Publication of Papers :**

The following papers were read and published during the year 1970.

(1) Mesonum Peritonitis : Dr. Purandare and Dr. Prabhu.

(2) Dr. D. U. Antani :

- (i) 'Gastroenteritis in Bombay—bacteriological Study. This paper was presented and read at the National Conference in infectious Diseases held at Aurangabad in November 1970. The paper is being sent for publication.
- (ii) 'A critical evaluation of post catheterization Syndrome'. This work was done in collaboration with the department of Obstetric and Gynaecology. The paper was read at the conference of Bombay Obstetrics and Gynaecological Society held in Bombay in Dec. 1970.
- (iii) Study of liver function in enteric fever. Attempt is being made to study liver function in culture positive cases of enteric fever. The work is still in progress.
- (iv) Assessment of Widal reaction in enteric fever. Serial widal tests are being done in culture positive cases of enteric fever to assess its clinical significance. The work is still in progress.

(Smt.) L. M. Joshi :

- (i) Streptomycin resistance in *S. Paratyphi*. Analysed by transduction by Leela Joshi.
- (ii) Virulence in *S. Paratyphi* by Dr. C. K. Deshpande, Leela Joshi and Anjali Karandikar. Paper 1 and 2 were presented at the 10th International Congress of Microbiology which took place at Mexico in August 1970. The summaries of the papers are presented in the proceeding of this conference.
- (iii) 'Genetic Analysis and mapping of the serine requiring mutants of salmonella typhimurium'. This paper was presented at the 1st National Congress in Juman Genetics held at Poona, in April 1970. Paper on 'Transduction in Salmonella Paratyphi "A"' was presented at the Seminar held by the Indian Council For Medical Research on 'Genetics and our health' at New Delhi in April 1971. This paper will be published shortly in the proceedings of the seminar on 'Genetics and Our Health'.

RESEARCH PROBLEMS BEING TACKLED

- (1) Smt. L. M. Joshi
I. C. M. R. Project on "Conjugation Studies in Salmonella Paratyphi "A".
Principal Investigator: Smt. Leela Joshi.
- (2) Dr. S. M. Purandare
Pulmonary changes in experimental animals (days) following heart lung shunts (in collaboration with Department of Surgery).

DEPARTMENT OF ANATOMY

Dr. E. J. DeSouza, held the post of Professor and Head of the department of Anatomy.

Special departmental activities carried out by the department are as follows :

- (1) Multiple choice examinations to evaluate student performance.
- (2) Objective types of assessment for practical examinations.
- (3) Electives for undergraduate students based on specialised techniques involving simple histochemistry, etiology, photomicrography and colorimetry.
- (4) Most of the photomicrographs of the whole institution, whether for department, teaching, publication or conferences and research are photographed in this department both in black and white colour.

The following is the research work carried out by Dr. E. J. deSouza :

- (1) Exfoliative cytology, hormonal, cancer screening and Barr Bertram study.
- (2) Histochemistry.
 - (a) Experimental and investigation on diseased tissue
 - (b) Enzyme histochemistry applied studies.
 - (i) Fungi
 - (ii) Diseased conditions.
 - (c) Elastic tissue staining.
 - (d) Sulphated Mucopolysaccharides.
- (3) Fluorescence and Phase Contrast Microscopy and Photomicrography.

DEPARTMENT OF PHYSIOLOGY

Dr. J. V. Bhatt holds the post of Professor of Physiology. Research work carried out by the department is as under :

- (1) Mechanical and electrical activity in frog heart perfused with electrolyte free solution. Read by Dr. J. V. Bhatt at 16th Annual Conference of A. P. P. I. in December 1970.
- (2) T-wave changes in electrocardiogram on administration of ice cold water. Read by Dr. (Mrs.) V. G. Parulkar at 16th Conference of A. P. P. I. in December 1970.
- (3) Perfusion of isolated frog's heart with liquid paraffin. Work in progress by Dr. V. A. Rane.
- (4) Estimation of calcium and potassium with frog's heart perfused with liquid paraffin. Work in progress by Dr. V. A. Rane.
- (5) Comparison of the effect of fatigue on a frog's nerve muscle preparation in ringer solution and liquid paraffin work in progress by Dr. V. A. Rane.

DEPARTMENT OF PHARMACOLOGY

Administration Report for the year 1970.

STAFF: Dr. B. V. Telang, Assistant Professor resigned with effect from 15th February 1971.

Dr. Mrs. S. S. Nayampalli was transferred on promotion as a Assistant Prof. at Seth G. S. Medical College from 15.2.71.

Dr. V. B. Dhume and Dr. (Miss) L. Venkateshwaran were appointed as lecturers from 10th Dec. and 15th Dec. respectively.

Dr. (Miss) P. Sundaram was appointed as Tutor in Thyroid Clinics from 1st Nov. 1970.

Dr. Srinivasan. P. T. Demonstrator's services were discontinued from 5th January 1971 as a full time lecturer was appointed from that date.

Research: POSTGRADUATE SEMINARS ETC.

The following research projects were carried out during this year :

- (1) Central mechanism of Cardiac arrhythmias.
- (2) Effect of oral contraceptives and tranquillisers on the different parameters of Thyroid function.
- (3) A long term project: Phytochemical and Pharmacological screening of Western Indian Plants.
- (4) Biological assaying of certain drugs received from the Pharmacy dept.
- (5) Absorption of chloromphenical per rectal route.
- (6) Resistance of chloroform sweet taste to blockade by (*Gymnema sylvestre*).
Gymnema Sylvestre—Abstract accepted for publication in the conference number of Indian Journal of Physiologists and Pharmacologists.
- (7) Protective actions of some of the newer antihypertensive agents in Carbon tetrachloride liver toxicity in mice and its probable mechanism. Paper presented at the third Annual Conference of Indian Association of Pharmacologists.
- (8) Effected adrenaline an urine output of rats. Indian J. of Physiologists and Pharmacologists Vol. 14, 31-34, 1970.

TEACHING.—Lectures, tutorials practicals and seminars for the under graduate students were held as usual.

SEMINARS.—The following seminars were held for Post-graduate students.

- (1) Cellular effects of drugs.
- (2) Absorption, Distribution of drugs.
- (3) Prostaglandins.
- (4) Synergism.
- (5) Drug-Receptor Interaction.
- (6) Molecular conformations in Pharmacology.
- (7) Biotransformation of drugs.
- (8) Biological effect of magnetic fields.
- (9) Geriatric Pharmacology.
- (10) Biochemical basis of mental disorder.
- (11) False transmitters.
- (12) Drugs and temperature regulation.
- (13) Valency.

Journal reviews were held on Tuesdays and Trigger meetings on Diabetes and Congestive Cardiac failure were held.

LIBRARY.—The department is equipped with an up-to-date library of about 220 books useful both for under-graduate teaching and Post-graduate students.

EQUIPMENT.—Spectronic 20, Electrophoresis apparatus and E. C. G. Machine were received this year.

NURSING STAFF.—During the year 28 students passed the General Nursing Examination Part II and 22 Students passed the mid-wifery examination.

POOR PATIENTS FUND.—Donations to the extent of Rs. 14,008 were received during the year in addition to Rs. 25,459 collected from the boxes kept in the wards and O. P. D. of the Hospital.

An amount of Rs. 18,641 were spent from the fund towards Medicine, Drugs, appliances, etc. for the poor patients.

A person who desired to remain anonymous had donated an amount of Rs. 15,000 to this hospital in memory of (i) Smt. Khemibai Vishindas Ramchandani and (ii) Smt. Parvatibai R. Ramchandani.

The interest thereon is credited to the Poor patients' Fund and utilised for the poor and needy patients.

HEALTH CHECK UP CENTRE.—329 Citizens took benefit of this facility during the year. The health check-up centre is open on week days from 6-00 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. 99,12,234 as against Rs. 76,85,965 for the previous year.

Appendices 1 to 9 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 B.Sc. (Med.) Degree 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 Examination on temporary basis.

ADMISSION

The number of undergraduate students on the roll at the close of the year was 657 out of which 204 were lady students. The number of postgraduate students was 300 including 103 ladies. Students registered for Diploma courses of the College of Physicians and Surgeons of Bombay were 152 including 62 lady students.

UNIVERSITY AND COLLEGE PRIZES

Name of the Student	Name of the prize awarded
1. Shri Y. P. Vajalia	... Dr. L. H. Hiranandani, Entrance Scholarship for 1970.
2. Shri S. B. Pandit	... Dr. D. V. Patel Scholarship for 1970.
3. Shri Francis Almeida	... Mrs. Jane Patrao Scholarship for 1970.
4. Shri H. K. Bhika	... Dr. C. S. Shankar Narayan Iyer's Scholarship for 1970.
5. Shri J. D. Fernandes	... Dr. A. L. Nair Memorial Scholarship for the year 1970.
6. Smt. G. P. Talreja	... (1) Dr. D. D. Variava's Prize (2) Dr. D. D. Shathaye's Prize, (3) Mahatma Gandhi Memorial Prize and (4) Dr. A. L. Adiga Prize at the I M.B.B.S. examination held in October 1970. (5) Dr. S. B. Parchure's Prize at the I M.B.B.S. examination held in October 1970 (equally shared).
7. Shri I. B. Bandoorkwala	... Dr. S. B. Parchure's Prize at the I M.B.B.S. examination held in October 1970 (equally shared).
8. Shri V. R. Ambiyé	... Dr. G. P. Nair Scholarship in Embryology at the competitive examination held in September 1970.
9. Shri A. G. Kothari	... (1) Dr. W. B. Bhawe Memorial Prize, (2) Shri Doongarshi A. Karia's Prize, (3) Dr. Meneck Billimoria Prize, (4) Dr. V. G. Rele's Scholarship, and (5) Dr. S. S. Rao's Prize at the II M.B.B.S. examination held in April 1970.
10. Smt. R. F. Almeda	... Dr. H. A. Maniar's Prize at the II M.B.B.S. Examination held in April 1970.
11. Shri G. I. Keri	... Dr. Lalkaka Prize in Psychiatry at the competitive examination held in November 1970.
12. Shri S. M. Sawardekar	... Dr. P. F. Soonawala Gold Medal at the III M.B.B.S. examination held in October 1970.
13. Smt. A. M. Borges	... (1) Dr. A. Nair Memorial Gold Medal, (2) Dr. D. B. Pandya's Prize in Books, (3) Smt. Gopikabai Narayan Karande's Prize, (4) Snehalrani Ranade Paritoshika for girl student, and (5) Dr. Parab Memorial Prize at the III M.B.B.S. examination held in October 1970.

LIBRARY :

The total number of books added to the library during the year was 868 as against 1007 during the previous year. Out of these, 115 were donated to the library.

The library subscribed to 244 periodicals as against 325 during the last year. 80 periodicals were received gratis from the publishers, the Honorary Staff of the Nair Hospital and others. The library, therefore, had 324 current periodicals as against 341 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 postgraduates, teachers and research workers from other institutions was 102621 as against 97,546 during the last year.

3185 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 2680 during the last year. 65 bound volumes of periodicals were borrowed from the various institutions participating in the inter-loan scheme and 21 were loaned out to them.

11 books were written off. 526 bound volumes of periodicals were added to the library.

The library had at the end of the year 17220 books as against 16363 of the previous year and 7873 bound volumes of periodicals as against 6347 of the previous year.

RESEARCH SOCIETY

The Research Society is functioning at these Institutions since September, 1964. Being Registered under Societies Registration Act and Public Trust Act, the Society is exempted from paying income tax under Section 35 and 80 C.

The assistance of the Society is made available to the members of the staff for their Research Activities by the sanctioning of suitable grants and arranging facilities for typing of manuscripts etc.

The affairs of the Society are managed by an Executive Committee comprising of 15 members including Dean, as *Ex-Office* President, Municipal Commissioner as *Ex-Officio* member and three co-opted members.

A Bimonthly "NEWS LETTER" is published giving information about departmental activities of an academic nature, news about awards or fellowships, scholarships etc., awarded to staff members, new appointments, resignations and retirements and also the arrival of new books in the library.

16 Research projects were under taken by the Society during the year under report.

A sum of Rs. 28,735 was received from Seven Different Pharmaceutical firms during the year under report for carrying out clinical trials on their-products under the auspices of the Society.

A grant of Rs. 25,000 was received during the year under report as a grant in-aid from Municipal Corporation of Greater Bombay.

An amount of Rs. 138 was spent to help the investigators in typing out their manuscripts during the year under report.

During the year under report 6 new members were enrolled as ordinary members and 4 members enrolled as life members.

ANNUAL COST AND REVENUE

The total expenditure of the College amounted to Rs. 33,18,099.88 during the year ending report as against Rs. 20,13,012.00 during the previous year. The net revenue of the college by way of Tuition fees, Miscellaneous receipts etc. amount to Rs. 3,40,792 as against Rs. 3,32,504 for the previous year.

Dr. C. K. DESHPANDE,
Dean,
B. Y. L. Nair Charitable Hospital
and Topiwala National Medical
College Bombay 8.

Dr. Bhajekar (Surgical) Hospital

This hospital with a scheduled bed strength of 45 is functioning as the Surgical wing of B. Y. L. Nair Charitable Hospital, and is under the overall administrative control of the Dean, B. Y. L. Nair Charitable Hospital.

Patients attending Nair Hospital and needing Surgical Operations, such as Hydrocoele, Hernia, Piles, Fistula, Fissure, Varicose vein, Appendix, Vasectomy etc., are admitted and operated at Dr. Bhajekar Hospital. An Out-patient department also functions on Saturdays at Dr. Bhajekar Hospital and patients are admitted. Out of 45 beds, 11 beds are reserved for Orthopedic cases.

The Honorary Surgeons from Nair Hospital attend to the patients at Dr. Bhajekar Hospital, in rotation. A. M. O. at the Nair Hospital looks after the general supervision under the control of the Dean.

During the year 1970, 383 new cases were examined at O. P. D. 1255 patients were admitted for indoor treatment out of which 123 were Orthopedic. Total number of operations performed during the year was 1094.

Three rooms on the 1st floor have been got vacated in July, 1970 and arrangement is being made to utilise the same space for the hospitalization of 15 orthopedic patients from Nair Hospital.

The expenditure of the hospital for the year 1970 amounted to Rs. 1,46,850 including repairs.

Dr. C. K. DESHPANDE,
Dean,
B. Y. L. Nair Charitable Hospital.

APPENDIX No. 1
Distribution of Beds.

Unit	Male	Female	Child	Total
Medical	125	42	...	167
Surgical	112	37	...	149
Gynaec	...	40	...	40
Obstetric	...	55	...	55
Paediatric	...	...	46	46
Orthopedic	26	10	...	36
E. N. T.	22	10	...	32
Ophthalmic	22	10	...	32
Skin & V. D.	12	4	...	16
Tuberculosis	16	...	...	16
Dental	3	2	...	5
Psychiatry	16	...	...	16
Tetanus	6	2	...	8
Gas roenterology (Medical)	3	2	...	5
Gastroenterology (Surgical)	3	2	...	5
Card .logy	3	2	...	5
Cardiology Surgery	3	2	...	5
Neurology	5	2	...	7
Neuro Surgery	3	2	...	5
Thoracic Surgery	3	2	...	5
Plas'ic Surgery	3	2	...	5
Genito Urinary Surgical Service	3	2	...	5
Rheumatic & Collegen Disease	3	2	...	5
Keratopla ty	2	2	...	4
Chest Diseases	3	2	...	5
Chronic Cases	11	...	...	11
Medical Students	10	8	...	18
Intensive Care	6	...	...	6
Total	423	244	46	713

APPENDIX No. 2

Particulars of in-door and out-door patients treated during the year 1970 and 1969, Number of operations, etc.

Particulars.	FIGURES FOR	
	1970	1969
'A' In-patients		
(1) Scheduled strength of beds	713	667
(2) Daily average number of in-patients	773.90	611.74
(3) Total number of new in-patients treated	30,909	26,987
(4) Average number of days each patient was resident	8.37	8.37
'B' Out-patients		
(1) Total number of new out-patients	2,11,406	1,76,614
(2) Daily average number of new out-patients	693.13	577.17
(3) Total number of out-patients attendance (excluding Casualty cases)	7,00,514	4,40,668
(4) Daily average number of out-patients attendance	2,330.89	1,479.63
(5) Total number of Casualty patients	10,407	12,107
'C' Operations		
(1) Total number of Operations on in-door patients	10,449	8,174

APPENDIX No. 3

Relative cost per In-patient and Out-patient per day during 1970-71 and previous two years.

Particulars	1970-71 1969-70 1968-69		
	Rs. P.	Rs. P.	Rs. P.
In-patient	25.3	23.85	20.43
Out-patient	4.15	3.37	2.80

APPENDIX No. 4

Statement showing the details of cost per In-patient per day for 1970-71 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.
1970-71 ...	2.55	7.92	1.18	0.90	12.48	25.03
1969-70 ...	2.39	7.82	0.89	0.98	11.89	23.85
1968-69 ...	2.40	6.06	0.71	0.51	10.75	20.43

APPENDIX No. 5

Statement showing the Average Cost per Out-patient per day for 1970-71 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.
1970-71 ...	1.54	0.23	0.14	2.24	4.15
1969-70 ...	1.95	0.22	0.12	1.03	3.37
1968-69 ...	1.21	0.11	0.09	1.39	2.80

APPENDIX No. 6

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.		
	1970-71	1969-70	1970-71	1969-70	
Male	7,675	8,658	1,398	1,507	
Female	1,474	1,660	527	496	
Children	Male	842	1,236	321	416
	Female	416	553	193	172
Total	10,407	12,107	2,439	2,591	

APPENDIX No. 7.

Statement showing the number of Deliveries conducted at this hospital during the last 10 years.

Year	No. of Deliveries
1960	2368
1961	2661
1962	2482
1963	2490
1964	2621
1965	2540
1966	2694
1967	2696
1968	2667
1969	2093
1970	2488

APPENDIX No. 8

Summary of In-patients classified according to Department and Sex for the period from 1-1-1970 to 31-12-1970.

Department.	Sex.	In the Hospital on Mid-night of 31-12-69.	Admitted during 1970.	Total.	Discharged during 1970.	Deaths.	In the Hospital on Mid-night of 31-12-70
Medical	Male	137	5,685	5,823	5,114	547	162
	Female	77	2,386	2,463	2,139	241	83
	Total	214	8,072	8,286	7,253	788	245
Surgical	Male	119	4,156	4,275	3,879	271	125
	Female	36	1,309	1,345	1,183	118	44
	Children—						
	Male	9	60	69	668	21	10
	Female	6	260	265	253	8	5
Total		170	6,415	6,585	5,983	418	184
Ophthalmic	Male	22	524	546	522	2	22
	Female	8	238	246	233	...	13
	Children—						
	Male	3	45	48	47	...	1
	Female	2	33	35	34	...	1
Total		35	840	875	836	2	37
Gynaecology	Female	33	1,410	1,443	1,387	10	46
	Children—						
	Female	...	1	1	1	...	...
Total		33	1,411	1,444	1,388	10	46
Skin and Venereal Diseases	Male	9	169	178	167	1	10
	Female	2	43	45	41	1	3
	Children—						
	Male	3	13	16	15	1	...
	Female	...	9	9	9	...	...
Total		14	234	248	232	3	13
Aural	Male	15	972	988	950	23	15
	Female	5	724	729	709	6	14
	Children—						
	Male	2	473	475	465	4	6
	Female	1	432	433	428	...	5
Total		24	2,601	2,625	2,552	33	40
Orthopedic	Male	51	1,142	1,193	1,120	20	53
	Female	27	526	553	508	6	39
	Children—						
	Male	9	218	227	216	2	9
	Female	4	139	143	138	...	5
Total		91	2,025	2,116	1,982	28	106
Paediatric	Male	29	1,967	1,996	1,708	244	44
	Female	22	1,468	1,490	1,245	226	19
	Total	51	3,435	3,486	2,953	470	63
Maternity	Female	56	4,255	4,311	4,230	18	63
	Total	56	4,255	4,311	4,230	18	63
T.B.	Male	17	497	514	411	76	27
	Female	...	4	4	4	...	...
	Total	17	501	518	415	76	27

APPENDIX No. 8—Contd.

Department	Sex	In the Hospital on Mid-night of 31-12-69	Admitted during 1970	Total	Discharged during 1970	Deaths	In the Hospital on Mid-night of 31-12-70
Dental	Male	1	24	25	22	...	3
	Female	1	18	19	18	...	1
	Children—						
	Male	1	9	10	10	...	...
	Female	1	7	8	7	...	1
Total		4	58	62	57	...	5
Cardiology (surgical)	Male	6	51	57	40	11	6
	Female	...	33	33	24	7	2
	Children—						
	Male	...	8	8	6	1	1
	Female	...	4	4	3	1	...
Total		6	96	102	73	20	9
Gastro-Enterology	Male	6	159	165	159	3	3
	Female	...	58	58	57	1	...
	Children—						
	Male	...	2	2	2	...	...
	Female	...	2	2	2	...	...
Total		6	221	227	220	4	3
Psychiatric	Male	13	187	200	182	4	14
	Female	...	5	5	5	...	...
	Children—						
	Male	1	1	2	1	1	...
	Female	...	...	...	...	...	...
Total		14	193	207	188	5	14
Rheumatic and Collegan Disease	Male	...	16	16	16	...	...
	Female	...	16	16	16	...	...
	Children—						
	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
Total		...	32	32	32	...	...
Neurology	Male	3	132	135	126	4	5
	Female	1	33	34	33	1	...
	Children						
	Male	...	5	5	5	...	...
	Female	...	3	3	3	...	...
Total		4	173	177	167	5	5
Neuro-surgery	Male	...	20	20	18	2	...
	Female	...	14	14	12	2	...
	Children						
	Male	...	2	2	1	1	...
	Female	...	2	2	2	...	...
Total		...	38	38	33	5	...
Plastic Surgery	Male	...	25	25	25	...	...
	Female	...	2	17	19	19	...
	Children						
	Male	...	5	5	5	...	...
	Female	...	8	8	8	...	...
Total		2	55	57	57	...	...

APPENDIX No. 8—Contd.

Department	Sex	In the Hospital on Mid-night of 31-12-69	Admitted during 1970.	Total	Discharged during 1970	Deaths	In the Hospital on Mid-night of 31-12-70
Gastro-Enterology Surgical Service Children	Male	...	44	44	43	1	...
	Female	...	16	16	16	...	...
	Male	...	1	1	1	...	...
	Female	...	...	...	...	...	...
Total		...	61	61	60	1	...
Thoracic-Surgery Children	Male	...	2	2	2	...	...
	Female	...	1	1	1	...	...
	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
Total		...	3	3	3	...	...
Genito-Urinary Surgical Service Children	Male	...	3	108	109	...	2
	Female	...	1	37	38	3	...
	Male	...	...	7	7	...	...
	Female	...	...	4	4	...	...
Total		4	156	160	155	3	2
Thyroid Clinic Children	Male	...	2	2	2	...	...
	Female	...	1	1	1	...	...
	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
Total		...	3	3	3	...	...
Cardiology Medical Children	Male	...	18	18	18	...	...
	Female	...	10	10	10	...	...
	Male	...	2	2	2	...	...
	Female	...	1	1	1	...	...
Total		...	31	31	31	...	...
Grand Total		745	30909	31654	28903	1889	862

APPENDIX No. 9

Summary of out-patients classified according to Departments and sex for the year 1970

Department	Sex	O. P. D. New cases	Casualty cases	O. P. D. Old cases	Total Attendance
Medical	Male	35,181	473	57,366	93,020
	Female	16,891	226	24,372	41,489
	Total	52,072	699	81,738	1,34,509
Surgical	Male	32,070	6,101	56,758	94,929
	Female	8,799	1,055	23,651	33,505
	Male	8,936	659	19,212	28,807
	Female	4,690	304	17,793	22,787
Total		54,495	8,119	1,17,414	1,80,028

APPENDIX No. 9—Contd.

Department		Sex	O. P. D. New cases	Casualty cases	O. P. D. Old cases	Total Attendance
Ophthalmic	...	Male	7,806	151	9,692	17,649
		Female	3,082	5	7,416	10,503
	Children	Male	957	4	6,109	7,070
		Female	695	...	5,658	6,353
	Total	...	12,540	160	28,875	41,575
Gynaecology	Children	Female	5,875	2	18,365	24,242
		Female	2	...	...	2
	Total	...	5,877	2	18,365	24,244
Skin and Venereal Diseases	...	Male	10,414	3	12,080	22,497
		Female	4,052	1	8,507	12,560
	Children	Male	2,979	...	7,023	10,002
		Female	2,267	...	6,595	8,862
	Total	...	19,712	4	34,205	53,921
Aural	...	Male	7,173	46	9,234	16,453
		Female	4,196	5	7,631	11,832
	Children	Male	2,851	10	6,970	9,831
		Female	2,305	3	6,673	8,981
	Total	...	16,525	64	30,508	47,097
Orthopedic	...	Male	4,936	872	11,270	17,078
		Female	2,249	118	7,757	10,124
	Children	Male	1,233	78	6,655	7,966
		Female	730	26	6,038	6,794
	Total	...	9,148	1,094	31,720	41,962
Paediatric	...	Male	11,759	83	20,538	32,380
		Female	9,208	80	19,743	29,031
	Total	...	20,967	163	40,281	61,411
Maternity	...	Female	5,958	59	16,521	20,538
	Total	...	3,958	59	16,521	20,538
T.B.	...	Male	1,114	1	5,878	7,023
		Female	540	...	4,449	4,989
	Children	Male	3	...	87	90
		Female	3	...	62	65
	Total	...	1,690	1	10,476	12,167
Psychiatric	...	Male	890	1	12,818	13,709
		Female	619	...	6,447	7,066
	Children	Male	73	...	4,578	4,651
		Female	26	...	4,185	4,211
	Total	...	1,608	1	28,028	29,637
Cardiology	...	Male	250	..	927	1,177
		Female	189	..	698	887
	Children	Male	57	..	159	216
		Female	33	..	105	138
	Total	...	529	..	1,889	2,418
Gastro-Enterology (Medical)	...	Male	160	...	965	1,125
		Female	68	...	747	815
	Children	Male	7	...	117	124
		Female	2	...	58	60
	Total	...	237	...	1,887	2,124

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	28		84	112	
	Female	10		52	62	
	Children	Male			7	7
		Female			3	3
	Total		38		146	184
Anti-Rabic	Male	478	26	1,868	2,372	
	Female	117	3	1,151	1,271	
	Children	Male	192	8	908	1,108
		Female	71	2	557	630
	Total		858	39	4,484	5,381
Gastro Urinary Surgical Service	Male	111		136	247	
	Female	18		69	87	
	Children	Male	2		7	9
		Female			3	3
	Total		131		215	346
Preventive and Social Medicine	Male	7		392	399	
	Female	4		1,721	1,725	
	Children	Male	4		1,222	1,226
		Female	5		934	939
	Total		20		4,269	4,289
Rheumatic and Collagen Diseases	Male	62		711	773	
	Female	63		512	575	
	Children	Male	1		26	27
		Female	1		26	27
	Total		127		1,275	1,402
Neurology	Male	194		705	899	
	Female	95		517	612	
	Children	Male	6		29	35
		Female	5		12	17
	Total		300		1,263	1,563
Neuro-Surgery	Male	59		599	658	
	Female	40		429	469	
	Children	Male	15		41	56
		Female	9		13	22
	Total		123		1,082	1,205
Plastic Surgery	Male	2			2	
	Female	2			2	
	Children	Male	2			2
		Female				
	Total		6			6
Thoracic Surgery	Male					
	Female	3			3	
	Children	Male				
		Female				
	Total		3			3
Physiotherapy	Male			23,341	23,341	
	Female			9,972	9,972	
	Children	Male			6,046	6,046
		Female			5,467	5,467
	Total			44,826	44,826	

APPENDIX No. 9.—Contd.

Department	Sex	O.P.D. New Cases	Casualty Cases	O.P.D. Old Cases	Total Attendance
Dental	Male	...	1	...	1
	Female	...	...	...	...
	Children ... Male	...	...	...	...
	Female	...	1	...	1
	Total	...	2	...	2
Thyroid Surgery	Male	13	...	26	39
	Female	20	...	17	37
	Children ... Male	...	...	3	3
	Female	2	...	2	4
	Total	35	...	48	83
Grand Total		200999	10407	499515	710921

APPENDIX No. 10

TOPIWALA NATIONAL MEDICAL COLLEGE

Number of students as on 31st March 1971 :—

Class	Male	Female	Total
III M.B.B.S. ... III Term	27	21	48
Do. ... II Term	53	51	104
Do. ... I Term	28	13	41
II M.B.B.S. ... III Term	77	35	112
Do. ... II Term	17	9	26
Do. ... I Term	76	25	102
I M.B.B.S. ... III Term	1	...	1
Do. ... II Term	113	27	140
III M.B.B.S. ... Casuals	20	14	34
I M.B.B.S. ... Casual	38	7	45
I M.B.B.S. ... Cond. Casuals	1	1	2
I M.B.B.S. ... (Irregular)	2	...	2
Total	453	204	657

THE NAIR HOSPITAL DENTAL COLLEGE

The College conducts four years' Course in Dentistry leading to the Degree of the Bombay University. The College also conducts Post-graduate Course in 7 subjects since June 1959.

The College is recognised as Training Centre in India to train candidates for L.D.S., R.C.S. (Eng.) Examination and Fellowship in Dentistry Examination of the Royal College of Surgeons, England and Edinburgh.

The admission standard for student is Inter-mediate Science Examination B. Group of the Bombay University and the course extends for four years.

During the year 1970-71 under report, 57 students including 20 ladies have passed the Final B.D.S. and 7 male and 1 female candidates passed M.D.S. Examinations.

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.

The College has 97 Dental Chairs, 77 Dental Units, 4 Dental X-Ray Units and other equipments to give Dental Treatment on most modern lines.

Students' Gymkhana.

The College has provided all facilities for indoor and outdoor sports.

Resume of Work done in the Clinic.

The total number of patients treated during the year 1970-71 under report was 86,028 including School Children (both in the morning and evening Clinics), which included 37,533 males and 25,184 Children. Details of the work done, operations performed, etc., are given in Appendix 'A', 'B', 'C', 'D' and 'E'.

During the year under report total revenue of Rs. 1,67,984 was collected by way of fees from students and charges from patients as against Rs. 1,74,625 during the preceding year. The total expenditure incurred came to be Rs. 13,51,604 as against Rs. 8,63,038 during the preceding year.

During the year under report 808 sets of upper and lower Artificial Teeth, 553 Partial Sets of Teeth and 144 Repairs of Sets of Teeth were given free to poor deserving patients from the Poor Box Funds. The total collection of the Poor Box Funds was Rs. 22,372.80 at the close of the year.

7,716 Municipal School Children were treated in the Clinics during the year.

Dr. M. S. N. GINWALLA,
L.D.Sc., D.D.S., M.Sc., F.I.A.O.S., F.A.M.S.,
Dean,
Nair Hospital Dental College.

APPENDIX 'A'

Prosthetic Department.

Clinical Yearly Report for 1970-71.

Particulars.				Total.
New Patients	...	...	...	747
Old Patients	...	...	...	4,658
Total Patients	...	...	...	5,405
Male Patients	...	...	...	3,544
Female Patients	...	...	...	1,734
Children	...	...	...	127
Consultations	...	...	...	1,715
Impressions	...	...	...	1,552
Bites	...	...	...	482
Trials	...	...	...	190
Settings	...	...	...	430
Laboratory Work	...	...	...	493
Muscle Trimming	...	...	...	448
Peripheral Sealing	...	...	...	448
		Paid.	Free.	Total.
Full Dentures	...	403	809	1,212
Partial Dentures	...	200	553	753
Repair Dentures	...	117	144	261
Rebasing and Relining	...	...	...	4
Ob-turators, Sp'ints, Cleft Palates, Speech appliances etc.	...	...	...	34
Total Amount	...	...	Rs. 19,092.00	

APPENDIX 'B'

Maxillo-Facial and Plastic Surgery Department.

List of Operations done during 1970-71.

Serial No.	Description.	Nos.
1	Impaction	2
2	Biopsy	14
3	Oroantral Fistula	10
4	Cyst	21
5	Fracture	77
6	Cald-wel-luc.	7
7	Benign Tumours	26
8	Plastic Reconstructive Surgery	18
9	Apicectomy	5
10	Alveolectomy	7
11	Alveolar Abscess	14
12	Hemi Mandibulectomy	1
13	Cleft Palate	1
14	Osteoarthroplasty	4
15	Curettage	30
16	Transplantation of Canine	3
17	Vestibuloplasty	2
18	Hare Lip.	3
19	Skin Graft	7
20	Bone Graft	4
21	Extra O al Sinus	9
22	Osteotomy	7
23	Gland Excision	2
24	Maxillectomy	4
25	High Condylectomy	1
26	Nerve Avulsion	1
	Operations under Local Anaesthesia	430
	Operations under General Anaesthesia	50
	Total	480

Lokmanya Tilak Municipal General Hospital and Annapurnabai Deshmukh Hospital for Women & Lokmanya Tilak Municipal Medical College

Sion, Bombay 22

ADMINISTRATION REPORT

1970-71

The Lokmanya Tilak Municipal General Hospital, Sion has completed 23 years of its existence in the year 1970-71. 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 month of May 1970, first batch of students from this College has completed its internship training and institution is now looking forward, for its proper growth and development, to the liberal sanction of grants and considerate attitude of parent body and sister institutions during this crucial period of its teething trouble. The report about staff, departments and the work done during the year 1970-71 in these institutions is given below :—

Administration

Dr. V. N. Panse, M.D., M.P.H. (Columbia), Professor of Preventive and Social Medicine, Lokmanya Tilak Municipal Medical College, Sion, continued to look after the duties of the Dean of these institutions in addition to his own Professorial work. For a short period of time between 20-7-1970 To 23-8-1970, Dr. C. K. Deshpande, now Dean of B. Y. L. Nair Hospital and T. N. M. College was appointed as Dean of these institution and was later transferred to his present position. Dr. V. N. Panse was looking after the duties of Dean except for the Period mentioned above.

Dr. (Smt.) A. S. Punde, M. D. (Bombay) held the post of Superintendent of the Lokmanya Tilak Municipal General Hospital, Sion, during the year under report.

Teaching and Administrative Staff

New Appointments, transfers, promotions, study leaves.

New appointments during the Period from 1-4-70 to 31-3-71

- | | | |
|--|-------------------------|----------------------------|
| (1) Dr. M. V. Divekar, Prof. of Medicine | ... M. D. | Appointed from 16-6-1970. |
| (2) Dr. (Smt.) Shanti Pant-Vaidya, Asstt. Prof. of Pathology. | M.B.B.S.,
M.D., D.A. | Appointed from 16-7-1970. |
| (3) Dr. (Smt.) K. P. Kolhatkar, Asstt. Prof. of Prev. and Social Medicine. | M.B.B.S.,
D.P.H. | Appointed from 30-11-1970 |
| (4) Dr. S. D. Sule, Asstt. Prof. of Pharm. | ... M.D. (Pharm.) | Appointed from 21-9-1970. |
| (5) Dr. G. H. Tilve, Asstt. Prof. of Medicine | ... M. D. | Appointed from 14-10-1970. |
| (6) Dr. (Smt.) L. N. Bhide, Asstt. Prof. of Surgery | ... M.S., F.R.C.S. | Appointed from 2-10-1970. |
| (7) Dr. (Smt.) S. D. Kanitkar, Prof. in Obst. and Gyn. | ... M.D., F.C.P.S. | Appointed from 22-3-1971. |
| (8) Dr. (Smt.) V. M. Divekar, Prof. of Anaesthesia | ... M.D., D.A. | Appointed from 19-3-1971. |

Promotions

Dr. (Smt.) M. M. Kekre, M.B.B.S., D.P.H., Asstt. Prof. of Prev. and Social Medicine. Promoted as Associate Professor in Preventive and Social Medicine at G. S. M. College from 30-11-1970.

On leave for Training Abroad

- | | |
|---|--|
| (1) Dr. A. K. Kale, M.D. (Pharm.) Asstt. Professor of Pharmacology. | On leave for training in abroad for 1 year from 26-6-1970.
Fellowship offered by the Ford Foundation, Women's Hospital, California. |
| (2) Dr. R. L. Thatte, M.S. Honorary Asstt. Surgeon | On leave for training in abroad for two years from 25-5-1971.
Cook Country Hospital, Chicago. Fellowship in Burn Surgery. |
| (3) Dr. A. B. Mehta, M.D., Hon. Asstt. Physician. | On leave for study purposes from 1-6-1970 to 31-5-1971.
U. S. A. |
| (4) Dr. R. C. Khokhani, M.D. Hon. Asstt. Physician | On leave for one year from 1-12-1970 to 30-11-1971.
Smith and Nephew Fellowship Victoria Embankment, London. |
| (5) Dr. B. V. Mehta, M.S. Hon. Assistant Orth. Surgeon. | On leave for one year from 26-6-1971. Resident Fellowship at the United Hospital, Orth. Centre, New York, U. S. A. |

Lokmanya Tilak Municipal Medical College, Sion.

The College has been temporarily affiliated to the University of Bombay for teaching the courses of studies leading to M. B. B. S. degree examination. Permanent affiliation is pending for want of College building and such other requirements stipulated by the University. Work of building construction was held up for considerable length of time due to some technical difficulties. It has just commenced since the month of March 1971.

Admissions

Number of admissions per year continued to be sixty students. Number of undergraduate students on the roll on March 1971 was 300 out of which 124 were lady students. Students for the post-graduate degree and Diploma courses continued to get their registration through T. N. M. College. Number of post-graduate students studying under the teachers working in this institution but recognised through T. N. M. College was 15.

Educational Activities.

Besides regular teaching programme for undergraduates, monthly clinicopathological conferences and clinical cardiology conferences were held regularly. Scientific and educational films were shown to the staff and students by the courtesy of Parke-Davis.

Administration continued to organise the general internship programme for all departments for the year 1970-71, this training was conducted at L. T. M. G. Hospital, Kasturba Hospital and Borivali Health Centre.

During the year, college was inspected by Inspectors appointed by Indian Medical Council and their recommendations will be implemented as early as possible.

Institute also aspires for recognition to start postgraduate courses. In this connection various commissions appointed by the University of Bombay have inspected teaching facilities in different departments. Their reports are eagerly awaited.

Performance of students at various University Examinations continued to be good. Results of different examinations are shown in Appendix—I.

Students have also won various prizes for their academic performance. List is given in Appendix—II.

Pre and paraclinical departments continued their stay in the building originally constructed for hospital O. P. D. List of useful research work conducted in these departments is given in Appendix—III.

With the appointment of full time Professor of Medicine a full-fledged full time department of Medicine has started functioning since 29-6-1970. It has a full time staff of Professor and head of the department of Medicine, one Assistant Professor and one Senior Registrar. The teaching and clinical duties were carried on as usual availing the collaborative help from honorary staff. Appointment of full time Professor of Anaesthesiology on 19-3-1971 marks the beginning of full time department of Anaesthesiology.

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 up to the level of Sr. Registrar, Tutor, Lecturers are members of the society. Annual subscription for each member is Rs. 25/-. Total number of membership on 31st March 1971 was 100.

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 staff for their research activities by sanctioning suitable grants and arranging the typing of their research papers.

Up to the end of March 1971 society has sanctioned 36 projects with a total grant of Rs. 1,36,700/- out of which study grants worth of Rs. 79,900/- were received from pharmaceutical firms. Society has been fortunate in receiving grant-in-aid of Rs. 25,000/- from Municipal Corporation of Greater Bombay during the month of September 1970.

Society also arranges monthly scientific meetings and lectures by eminent personalities in the field of medicine and allied subjects.

Library

Working hours of the Library are from 8.30 A. M. to 10.00 P.M. on week days, and from 8-30 A.M. to 7-00 P.M. on Saturdays. Library remains closed on Sundays.

Total number of books added to the library was 442 against 568 during previous year. College subscribes 250 periodicals as against 234 during the last year. 11 periodicals were presented to the library. In all library had 261 periodicals as against 234 during last year.

The number of books and periodicals issued on the premises was 49,100 against 54,331 during the previous year. 2,100 books and periodicals were issued for home reading as against 2,000 during last year.

The sum of Rs. 10,000/- was sanctioned to this library for the year 1970-71 for the purchase of books by U. G. C. Amount sanctioned by Corporation for the same period, was Rs. 65,000/-. The college library at the end of year had 6314 books as against 5872 of previous year.

Gymkhana and other Activities

National days were celebrated, Annual Sports day was celebrated on 13-1-1971, when Mr. R. G. Nadkarni (Bapu Nadkarni) famous cricketer was the Chief Guest. Annual college day was celebrated on 15-3-1971 when Hon. Mr. Shanti Patel, His Worship the Mayor of Bombay Municipal Corporation, was the Chief Guest. College also participated in Inter Collegiate Debate Competition and various other tournaments. List of prizes won is given in Appendix-IV.

Hostel

Some of the old barracks which previously used as O. P. D. have been converted into temporary hostels for students. Though there is heavy demand for hostel accommodation only 28 girls and 40 boys can be given benefit of this facility. Examination going students were therefore given first preference.

Annual Cost and Revenue

The total expenditure of college amounted to Rs. 2,46,160/- during the year ending report as against Rs. 3,82,804 during previous year. The net revenue of the college by way of tuition fees and Miscellaneous receipts, etc. amounted to Rs. 99,855 as against Rs. 1,32,895 for previous year.

Afternoon Out Patient

The following four afternoon out-patient Departments have been started from 6-10-1969. The working hours are from 2-00 P.M. to 6-00 P.M.

- (1) Medical.
- (2) Surgical.
- (3) Orthopaedics.
- (4) Paediatrics.

Indoor Patients

The Scheduled bed strength of this Hospital is 507. The distribution of beds according to the departments is shown in Appendix-V. 44755 patients were admitted for indoor treatment during this year as against 40,541; 39,346 and 37,381 during the preceding 3 years respectively.

The departmentwise distribution of 44,755 admitted patients plus 900 patients of previous year remaining as on the 31-12-1969 is given below along with the respective figures of previous year.

Serial No.	Name of the Department	PATIENTS TREATED IN	
		1970	1969
1	Medical ...	11,659	10,457
2	Surgical ...	10,005	9,141
3	E. N. T. ...	1,647	1,552
4	Ophthalmic ...	887	781
5	Skin ...	102	41
6	Dental ...	4	6
7	Paediatrics ...	7,932	6,304
8	Psychiatrics ...	226	144
9	Orthopaedic ...	2,043	1,544
10	Gynaec ...	1,746	1,706
11	Obstetrics ...	8,504	8,865
	remaining as on 31-12-1969.	900	remaining as on 31-12-1968.
		<u>45,655</u>	<u>41,392</u>

Following gives the results of treatment

Hospital.	Cured.	Relieved.	Otherwise	Delivered	Left before delivery.	Expired	Remaining as on 31-12-70
L. T. M. G. Hospital	2,728	26,059	2,779	...	...	2,928	795
Annapurnabai Deshmukh Hospital for Women	350	2,554	467	5,803	1,019	32	141
Total	3,078	28,613	3,246	5,803	1,019	2,960	936

In addition to 2,960 deaths among adults, there were 617 deaths due to prematurity, still birth and other causes of prenatal and neonatal mortality. The classification of deaths according to their time of admission is given below :—

Within 24 hours of admission	After 24 hours of admission but within 3 days	After 3 days of admission	Total Deaths
1,442	316	1,202	2,960

Out Patient

The Out Patient Department have worked for 305 days during the year under report. The system of handing over the O. P. D. papers to patients has been started since December 1969. 2,31,513 new patients have taken treatment from the various out patient departments in addition to the old patients as against 3,68,202, 4,12,927 and 5,83,870 (which include new as well as old O. P. D. attendance) during the preceding 3 years.

The highest in-patient and out-patient attendance (only new attendance) on a single day was 1,020 and 1,242 respectively.

Paying Patients

The scheme was given effect from 1st September 1951. Rs. 6 per patient per day are being charged for general paying ward. The number of patients admitted under the scheme during the year under report as compared with last two years is given below :—

Particulars	1968	1969	1970
(1) General Paying Ward	1,213	1,112	1,057
(2) No. of Operations performed on Paying patients :—			
(a) Major	247	239	225
(b) Minor	281	282	278

Casualty Department

29,974 accidents and other emergency cases were treated in the Casualty Department during the year under report.

Minor Surgery Department

9,357 minor operations were performed in the Minor Surgery Department during the year under report.

Pathology Department

2,45,768 investigations were carried out in the Department of Pathology and Bacteriology in 1970. 587 investigations were carried out for K. B. Bhabha Hospital, Bandra. 1,184 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 10,077.

Electro Cardiography Department

8,278 electro-cardiographic tracings were taken during the year under report including 342 vectocardiograms.

Health Check up Centre

The Centre works from 6.00 P.M. to 7.30 P.M. on week days and from 2.00 P.M. to 4.00 P.M. on Saturday. It is closed on Sunday and Bank Holidays. The health of 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 218 persons have taken advantage of the same.

X-Ray Department

The work done in the X-Ray department during the last 3 years is as follows :—

Serial No.	Particulars	1970	1969	1968
1	X-Rays (No. of patients)	26,057	17,364	21,365
2	Screening	23,542	32,925	38,728
3	Barium Meals and Enemas	1,217	1,147	925
4	Special investigations	1,302	1,022	889
5	Cerebral Angiography	17	36	15
6	Aortography	27	22	21
7	Bronchography	35	32	43
8	Other misc. investigations	1,223	932	810
9	Deep X-Ray (machine out of order)	...	...	195

Dental Department

16,712 patients were treated in the Dental Department during this year for various tooth troubles.

Blood Bank

The total number of blood samples collected including those from voluntary donors was 4,736. The number of blood samples supplied for transfusion during the year was 4,887.

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	10,116	94,959
2	Occupational Therapy Department	8,744	83,607

A Sheltered Workshop has been started in December 1969, for severely disabled patients including paraplegics and amputees. In February 1970, four paraplegics took part in the paraplegic sports and won three first prizes.

Audiology & Speech Therapy Department

This department has been started from January 1970. During the year 1970, 751 patients have taken advantages of this department and the total number of visits were 1,996.

Family Planning Centre

A family planning centre is also 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	126
2	No. of Sterilization operations performed	481
3	No. of loops inserted	21

Contraceptives such as Jelly, Foam tubetests, Applicators, Diaphragm and Condom were also given.

School Clinic Department

School Clinic Department has started from 8-7-1965 at this hospital. 2,259 new and 7,044 old cases from 321 different Municipal Schools from the suburbs, 21 City Schools; 150 new and 261 old cases from 13 different Secondary Schools were treated during the year under report. 55 tonsil operations and 5 other operations were performed on School Children. Spectacles have been given to 68 students. Medicines worth Rs. 3,466.03 were supplied to the children during the year.

Medico Social Service Department

The work done by the Medico Social Service Department during the year 1970 is as follows :—

1	No. of cases given medical help	...	...	...	...	...	21,749
2	No. of T. B. cases handled for medical help and follow-up	...	...	...	...	...	767
3	No. of physically handicapped cases, illegitimate cases etc., for rehabilitation	...	...	...	...	...	708
4	No. of cases for spectacles donated by Lions Club of Sion	...	...	...	...	...	54
5	No. of cases given milk powder, wheat and high protein diet donated by Catholic Charities of India	...	...	...	...	...	66

5 recreational programmes were arranged for ward patients'. 'Dietitions' talks and food demonstrations were arranged for T. B. patients each month. Recreational activities for the ward children; circulating library for the indoor patients and tutions to the individual patients were arranged with the help of the volunteers from Vishwa Hindu Parishad, cosmopolitan ladies Association and students coming under N. S. S.

Medico Legal Cases

During the year under report the Resident Medical Officers attended the following courts for giving evidence in Medicolegal cases.

1	Presidency Magistrates Courts in Bombay	...	...	...	...	...	527
2	Sessions Courts	...	...	...	...	...	42
3	Coroner's Courts	...	...	...	...	...	3
4	Thana Court	...	...	...	...	...	6
5	Mahad Court	...	...	...	...	...	1
6	Shahapur Court	...	...	...	...	...	1
7	Diwa Railway Court	...	...	...	...	...	1

1972 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 needs immediate special attention such as supply of oxygen, blood transfusion or hospitalization a call can be made on phone 471257 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 97 calls.

Dispensary

The dispensary work carried out in the Dispensary of this hospital during the year under report is as follows :—

(1)	Out-patients	...	...	...	...	...	3,52,126
(2)	In-patients	...	...	...	...	...	1,811
(3)	Special prescriptions	...	...	...	...	...	812

Department of Pharmacy

Various types of parenteral fluids are being prepared in the Pharmacy department of this hospital. During the year under report 56,681 bottles (of 500 cc each) and 5,916 vials (20 cc, 50 cc & 100 cc) of various types of fluids were manufactured. In addition to this other miscellaneous items such as liquid soap, Enema soap, Dressing drums etc. are also prepared.

Nurses Training School

During the year under report 47 students nurses were admitted for training in General Nursing and 34 for midwifery. 52 and 36 nurses were sent for General nursing and Midwifery examination out of which 28 and 33 have passed respectively.

Ambulance Service

The Casualty Department have been shifted in the College building from 21-9-1970 and an around 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 31-3-1970 stood at Rs. 1,75,020.22, collection from Boxes, donations, sale of drugs and injections and other miscellaneous receipts during the year amounted to Rs. 1,36,139.62, and expenditure through the Poor Box Charity Fund was Rs. 94,862.57. The total amount in the Fund as on 31-3-1971 stood at Rs. 2,16,297.27.

The list of persons who have donated over Rs. 50 is given in Appendix VII.

Certificates

4,523 certificates of different types were issued to the patients during the year under report.

Gift Shop

A Gift shop for the benefit of the patients has been started in the Dispensary of this Hospital, which has been considered as 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. 17,004.71 were sold from the Gift Shop.

Expenditure

The approximate expenditure of the Hospital for the year 1970-71 was Rs. 96,35,076.85. The details of the expenditure per patient per day as compared with last 2 years is given below :-

Expenditure per Out-Patient per day.

Year	Medicines Drugs Equipment	Stores & linen	Heating & Lighting	Miscella- neous	Repairs to Bldgs.	Establi- shment	Total
1968-69	... 0.76	0.89	...	0.09	0.02	1.95	3.71
1969-70	... 1.08	0.31	0.02	0.30	0.03	2.15	3.89
1970-71	... 1.16	0.28	0.07	0.11	0.01	2.30	3.93

Expenditure per In-Patient per day.

Year	Diet	Medicines & Drugs Equipment	Stores & linen	Heating & Lighting	Miscel- laneous	Repairs to Bldgs.	Establi- shment	Total
1968-69	... 1.70	3.80	4.45	...	0.45	0.10	9.75	20.25
1969-70	... 1.92	5.40	1.55	0.10	1.50	0.15	10.75	21.37
1970-71	... 2.08	5.80	1.40	0.35	0.55	0.05	11.50	21.73

M. S. Kekre
Dean,
L. T. M. G. Hospital,
Sion.

APPENDIX I

Results of different examinations.

Name of Examiner						No. of students sent up	No. of students declared successful
1st M. B. B. S.	April	...	...	...	...	15	11
	October	...	...	...	...	62	46
2nd M. B. B. S.	April	...	...	...	...	67	61
	October	...	...	...	...	16	16
3rd M. B. B. S.	April	...	...	...	...	43	28
	October	...	...	...	...	49	41

APPENDIX II

List of college prizes won in academic field.

Name of students	Name of prize awarded
(1) Smt. S. G. Gadre	Dr. N. R. Tembe Prize Rs. 100.
(2) Smt. S. G. Gadre	Smt. Shantabai K. Rao, Prize Rs. 240.

APPENDIX III

List of Research Project in pre and paraclinical deptt.

- (1) Published papers by Dr. R. S. Satoskar, Professor of Pharmacology.
 - (1) Kale A. K. and Satoskar R. S.; Modification of the central Hypotensive effect of alpha methyl dopa by reserpine, imipramine and tranylepromine. *Europ. J. Pharmacol* 4,120, 1970.
 - (2) Jathar V. S., Kamath S. A., Parikh N. M., Rege D. V. and Satoskar R. S.—Vitamin B12 folic acid and protein levels in serum and milk in Indian mother's Arch. *Dis. Childhood*, 45,236, 1970.
 - (3) Pimparkar B. D., Kinare S. G., Satoskar R. S. and Raghavan P.—Gastrointestinal function in ankylosomiasis. *Trans. Roy. Soc. Trop. Med. & Hyg.* 64, (5), 703, 710, 1970.
 - (4) Jathar V. S., Patrawalla S. P., Doongali D.R. Rege D. V., and Satoskar R. S. : Serum Vitamin B12 levels in Indian Psychiatric patients *Brit. J. Psychiat.* 117 : 699-704, 1970.
 - (5) Satoskar R. S. and Mayer D. L.—Use of Thymidine-214C in the study of spermatogenesis in Rabbit. Paper presented at the II annual Conference of Society of Nuclear Medicines, India, Delhi, 1970.

Completed Research Work

Factors governing reduced long term reproductive performance in unilaterally ovariectomised mice.

- (1) Following papers were presented at the meeting of teaching pathologists of Bombay held here in August 1970.
 - (1) Sinus thrombosis in pregnancy.
 - (2) Evaluation of urinary track infection.
 - (3) Case report on vaccinia gangrenosa.
- (2) A paper on "Unusual Complications of amoebic liver abscess" was presented (Jointly with Deptt. of Medicine) at World medical congress held at Delhi in October 1970.

Work in Progress

- (1) Physiological factors governing sex ratio.
 - (2) Mechanism underlying Natriuresis following acute volume expansion.
 - (3) Effect of Vit. B12 on blood volume.
 - (4) Effect of city life on adrenocortical activity.
 - (5) Thymus in different age groups.
 - (6) Incidence of latent prostatic Cancer in Indians.
 - (7) Blood Group isoantibody titres in diseases.
 - (8) Antibodies in Tropical essenophilia.
- (2) Liver necrosis in rats and protective influence of certain Indian Herbs on its progress. Research project under staff research society grant.

APPENDIX IV

List of prizes won in different tournaments.

Name of students	Name of Prize awarded
(1) Bhansali Dalal A. K.	... Runners up in the all India Inter-medical Table-Tennis Tournaments.
(2) D. D. Dave	... Heavy Weight-Weight Lifting Champion of the University.
(3) M. H. Mehta	... Runner up in the Inter-Collegiate Chess Tournament (Males).
(4) Miss Krishnan Kamala Miss Vasanti Kotibhaskar.	... Runners up in the Inter Collegiate Chess Tournament (Ladies).

APPENDIX V

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	3	23
Gynaec and Obstetric ...	...	90	...	90
Ear, Nose and Throat ...	12	4	8	24
Ophthalmic ...	12	8	4	24
Skin ...	7	7	3	17
Paediatric ...	...	...	48	48
Psychiatric ...	9	8	...	17
Total ...	174	198	75	447
(B) Paying Beds:—				
Medical ...	12	6	...	18
Surgical ...	13	6	...	19
Gynaec and 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	75	507

APPENDIX VI

Summary of In-patients, Out-patients and Operations.

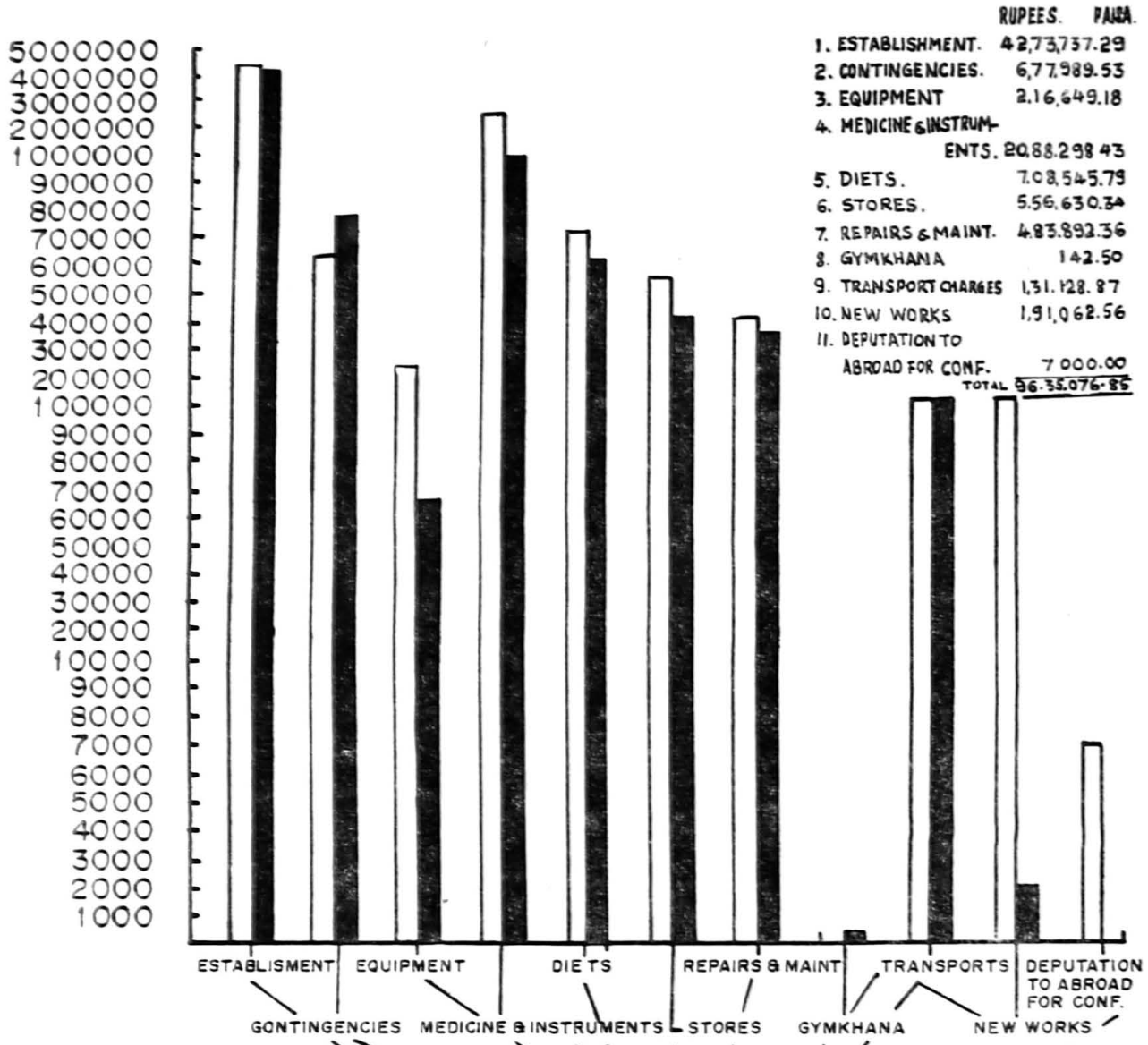
(A) In Patients:—				
(1) Schedule Strength of Beds	...	...	...	507
(2) Daily average No. of In-patients	...	...	...	933.4
(3) Total No. of Indoor Admissions	...	...	...	44,755
(4) Daily average No. of Admissions	...	...	...	122.6
(5) Highest Indoor patient on a single day	...	...	...	1,020
(6) Average No. of days each patient was resident	...	...	...	7.6
(B) Out Patients:—				
(1) Total No. of O. P. D. Patients (New)...	...	...	...	2,31,513
(2) Daily average No. of O. P. D. Patients	...	...	...	759
(3) Highest O. P. D. Attendance on a single day	...	...	...	1,242
(C) Operations:—				
(1) Total No. of Operations performed on In-patients	...	...	...	14,811
(2) Total No. of Operations performed on Out-patients	...	...	...	9,357

APPENDIX VII

List of persons who have donated more than Rs. 50 during the year 1970-71.

Serial No.	Name of the Donor	Amount
		Rs.
1	Ambesnath	51.00
2	S. B. Shah	101.00
3	Rajani Sathe	51.00
4	Prabhadayal Nandram	101.00
5	The American Women's Club of Bombay...	500.00
6	N. M. Wadia	200.00
7	Gurnamsingh Lalsingh	101.00
8	Kabirji Ladhu	101.00
9	Shanaben Bhatt	51.00
10	Bipin Vora	51.00
11	Pushpa Vishing	105.00
12	Indian Pharmaceuticals Works	101.00
13	D. S. Wagle	101.00
14	N. P. Nair	101.00
15	B. P. Adwani Charitis	175.00
	Total	1,891.00

ALLOCATION OF GRANTS FOR THE YEAR 1970-71



YEAR	O.P.D. PATIENTS	IN PATIENTS	OPERATIONS	DELIVERIES
1969	368202	40541	31309	6205
1970	231513	44755	27556	5803

GROUP OF T. B. HOSPITALS, SEWRI

Administration Report for the year 1970-71

Dr. S. A. Shah, M. D., D.M.R.E., D.P.H., T.D.D., F.C.C.P., held the post of the Medical Superintendent through out 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	Children	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	325	175	...	500*
TOTAL	852	531	35	1,418

* 100 additional beds were hired at Sarvodaya Hospital, Ghatkopar from 1st March 1971.

Group of T. B. Hospitals, Sewri, 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 10,412.

The total number of patients in the various stages of Pulmonary Tuberculosis treated during the year was 7078, out of these 5848 discharged as improved 118 discharged as Non-Tuberculosis cases 494 left against Medical advice 618 died and 807 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 8.7%. Major Lung operations were performed during the year in 685 cases.

Follow up of Discharged Cases

The total number of patients who attended the Group of T. B. Hospitals for Follow up examination after discharge from the hospital was 3400 during the year.

Refill Work

134 Pneumo—Peritoneum Refills were given in the wards to the indoor patients of Group of T. B. Hospitals. Discharged Patients penumo-peritoneum Refills treatment continued subsequent pneumo-peritoneum Refills at the Group of T. B. Hospitals, 138 Pneumo-Peritoneum 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 postgraduate 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 & Surgeons, Bombay as well as for the degree course i.e. M.D. (Tuberculosis) by the University of Bombay.

Research Work

The following Research Work is undertaken at G.T.B. Hospitals.

- (1) Efficacy & toxicity of Thiacetay-zone plus Isonizid Regimen in Greater Bombay. This work is being carried out in the Medical unit of Dr. S. A. Shah, Medical Superintendent, Group of T. B. Hospitals.
- (2) Therapeutic effects of Streptomycin in different dosages in view of toxic effects of Streptomycin on vestibular and cochlear functions of patients.
- (3) Relative effects of Prednisolone Therapy for 3 months in selected cases.
- (4) Effects of steroids in selected cases of Pulmonary T. B. having collapsed lobe of a lung.
- (5) Study of gastric lavage aspiration in children with Pulmonary T. B., with smear & culture for A.F.B., with reference to typical atypical microbacteria with the help of Haffkine Institute.

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 542, of these 132 were discharged as improved, 210 as not improved, 136 left against medical advice and 64 died and 76 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 and Clinic Dadar from 2nd June 1970 for conducting domiciliary treatment scheme of 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 the Scheme.
246	184	162

Municipal T. B. Clinics

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 Servodiaya 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 6,911.

Total number of out-patients attended and treated at the T. B. Clinics during the year was as below:—

Name of T. B. Clinic	Total No. of patients attended	T. B. Cases	Non. T. B. cases
(1) R. D. T. B. Clinic, Dadar ...	14,383	8,805	5,578
(2) Princess Street T. B. Clinic ...	19,370	3,378	15,992
(3) Foras Road T. B. Clinic ...	7,520	2,815	4,705
(4) Khar T. B. Clinic ...	16,113	4,834	11,279
Total ...	57,386	19,832	37,554

Expenditure

The average expenditure per patient per day at the G. T. B. Hospitals was Rs. 15.95. The expenditure on diet per patient per day was Rs. 2.93. The total annual expenditure on the Group of T. B. Hospitals amounted to Rs. 59,98,694 as against Rs. 60,62,981 during the previous year.

The rate of charges for the patient hospitalized at Sarvodaya 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. 15,51,750 against Rs. 19,24,678 for the previous year. The total expenditure on the four T. B. Clinics attached to the Group of T. B. Hospitals, Sewri, was Rs. 10,92,240. Thus the total expenditure incurred by the Corporation on Tuberculosis Services was Rs. 70,90,934.

Poor Box collection including fees for issue of Medical certificates was Rs. 12,511. This collection is utilised for the benefit of the poor and needy patients and incidental expenses in consequence.

S. A. Shah,
Medical Superintendent Group
of T. B. Hospitals Sewri,

LEGAL DEPARTMENT

During the year under report, the Legal Department attended to the litigation of the Corporation or rendered legal services as under :—

I.— <i>Supreme Court</i> —							
Appeals	...	...	...	...	...	...	21
II.— <i>High Court</i> —							
(1) First Appeals	...	...	...	...	...	...	451
(2) Second Appeals	...	...	...	...	...	...	Nil.
(3) Appeals from Orders	...	...	...	...	...	...	151
(4) Letters Patent Appeals	...	...	...	...	...	...	9
(5) Civil Revision Applications	...	...	...	...	...	...	7
(6) Special Civil Applications	...	...	...	...	...	...	Nil.
(7) Civil Applications	...	...	...	...	...	...	Nil.
(8) Long Cause Suits	...	...	...	...	...	...	42
(9) Appeals before Division Bench	...	...	...	...	...	...	19
(10) Insolvency matters	}	...	...	...	...	...	89
(11) Company Petitions		...	...	...	...	...	198
(12) Writ Petitions	...	...	...	...	...	...	125
(13) Criminal Revision Applications & Criminal Appeals	...	...	...	...	...	...	27
(14) Notice of Motion	...	...	...	...	...	...	3
(15) Land Acquisition References	...	...	...	...	...	...	1
IIA.— <i>NEW DELHI HIGH COURT</i> —							
Writ Petition	...	...	...	...	...	...	1
IIB.— <i>ALAHABAD HIGH COURT</i> —							
Insolvency Matters	...	...	...	...	...	...	1
IIC.— <i>JODHPUR HIGH COURT</i> —							
Insolvency Matters	...	...	...	...	...	...	1
III.— <i>CITY CIVIL COURT</i> —							
(1) Suits—							
(a) Suits filed by the Corporation	...	...	...	...	...	...	7
(b) Suits filed against the Corporation	...	...	...	...	...	...	1,759
(2) Miscellaneous Appeals	...	...	...	...	...	...	119
IV.— <i>Small Causes Court</i> —							
(1) Suits	...	...	...	...	...	...	180
(2) Appeals against Rateable value	...	...	...	...	...	...	325
(3) Garnishi Notices	...	...	...	...	...	...	4
(4) References under Section 503 of Bombay Municipal Corporation Act	...	...	...	...	...	...	326
(5) Licence and Octroi Appeals, Set Back Compensation Petitions	...	...	...	...	...	...	174
(6) Appeals from orders of payment of Wages Court	...	...	...	...	...	...	Nil
(7) Full Court Applications	...	...	...	...	...	...	41
V.— <i>Police Courts</i> —							
(1) Complaints instituted for offences against Municipal Laws	...	...	...	...	...	...	43,505
VI.— <i>Labour and Industrial Courts</i> —							
(1) References before Industrial Tribunals	...	...	...	...	...	...	5
(2) Applications before Payment of Wages Courts	...	...	...	...	...	...	124
(3) Applications before Labour Courts	...	...	...	...	...	...	34
(4) Applications before Motor Accidents Claims Tribunal	...	...	...	...	...	...	26
(5) Cases before Arbitrators	...	...	...	...	...	...	1
(6) Applications before the Workmens' Compensation Courts	...	...	...	...	...	...	4
(7) Complaints under Sec. 33 of Industrial Disputes Act.	...	...	...	...	...	...	1
VII.— <i>Municipal Inquiry Courts under Sec. 105-B of the Bombay Municipal Corporation Act</i> —							
Cases during the year 1970-71	...	...	...	...	...	...	6,206
VIII.— <i>Documents Completed during the year</i> —							
(1) Conveyances	...	...	...	...	...	...	15
(2) Leases	...	...	...	...	...	...	5
(3) Certificate of Transfers	...	...	...	...	...	...	51
(4) Deeds of Transfers	...	...	...	...	...	...	2
(5) Dæds of Licence	...	...	...	...	...	...	56
(6) Agreements	...	...	...	...	...	...	76
(7) Indemnity Bonds	...	...	...	...	...	...	40
(8) Cases for compensation for set-back land	...	...	...	...	...	...	781
(9) Cases for compensation in T. P. Scheme	...	...	...	...	...	...	119
(10) Advice matters in respect of stamp duty, Town Planning, set-back, P. F. Claims etc.	...	...	...	...	...	...	150
IX.— <i>References Received from Departments or Outside Parties.</i>							
...	...	...	...	...	...	...	32,105

K. N. Patel
W. O. (Legal).

EDUCATION DEPARTMENT

Smt. Madhuri R. Shah, B.A. (Hons.), M.Ed., Ph.D. (Bom.), Ph. D. (Lond.), continued to hold the office of the Education Officer during the year 1970-71.

I.—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 1970				As on 31st March 1971				
	City	Suburbs	Extended Suburbs	Total	City	Suburbs	Extended Suburbs	Total	
Schools	...	498	298	123	919	490	316	128	934
Classes	...	44	55	20	119	46	45	23	114
Total	...	542	353	143	1,038	536	361	151	1,048

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	...	2	3	4	9
Number of schools opened	2	4	6
Number of classes converted into schools	15	2	17
Number of schools converted into classes	...	2	...	1	3
Number of schools/classes amalgamated	...	2	...	...	2
Number of classes closed	...	6	...	...	6
Number of classes taken over	2	...	2
Number of schools taken over	1	...	1

On the principle of providing higher standards for 35 children or more in the City and Suburbs and 25 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	...	16
Standard VI	...	10
Standard VII	...	14

The total number of upper primary (including Vocational) and Lower Primary schools and classes was 644 and 404 respectively as against 645 and 393 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 5,03,047 as against 4,95,286 in the previous year (*Vide Appendix I*). Thus, there was a net increase of 7,761 pupils in Municipal Schools and classes. The average attendance throughout the year was 4,60,491 as against 4,52,592 in the preceding year.

Teachers in Municipal Schools

The total number of teachers in Municipal Schools during the last year was 14,146 out of which 651 were special teachers. The number stood at 14,525 (Special Teachers 669), during the year under report. Out of 13,856 ordinary teachers, 13,639 (*i.e.* 98.4 per cent.) were trained as against 13,214 out of 13,495 (*i.e.* 97.9 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 1969-70. 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	...	30
Gujarati	...	8
Urdu	...	6
Hindi	...	4
South Indian	...	3
Sindhi, English Primary	...	1
Total	...	52

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 1970 as per rules.

Written examination of the pupils of Standards I to VII was held in the months of March and April 1971 Substitute by a Central Examination Board which included Superintendent, Assistant Research Officers, Inspectors, Instructors and Teachers.

The following factors, inter alia, hampered the progress of 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 1048 schools and classes, about 706 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 existing 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 Teachers' Junior College of Education, Imamwada.

During the year under report, there were 78 trainees for D. Ed. course of 2 years. The teaching staff included (1) One Head Mistress, (2) three full-time instructors, (3) three part-time Instructors for teaching Science, Mathematics and Physical Education and (4) three part-time teachers for teaching special subjects like Drawing, Music and Sewing.

Seventy-eight trainees were sent up for the First Year D. Ed. Examination held in April 1971.

Municipal Urdu Teachers' Junior College of Education, Mahim.

During the year under report, there were 40 trainees for D. Ed. course of 2 years. The teaching staff included (1) One Head Master, (2) one full-time Instructor (3) two part-time Instructors for teaching Science and Mathematics, and (4) Four part-time Instructors for teaching crafts, music, drawing and physical education.

Thirty-six trainees appeared for the First Year D. Ed. Examination held in April 1971.

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. 7,33,270. Four new school buildings were added to the existing number of 211 during the year under report bringing the total number of 215 in Greater Bombay. Wherever possible additional floors were constructed on some Municipal School Buildings, thereby increasing the number of class-rooms as additional accommodation for classes.

The school buildings at seven places are under construction and extension in respect of certain school buildings are in progress. 599 schools (including classes) were accommodated in Municipal-owned school buildings, 421 schools (including classes) were accommodated in rented buildings and 28 schools (including classes) were housed in rent-free buildings.

II Municipal Aided and Recognised Schools.

Aided Schools.

On 31st March 1971, the number of Aided Schools was 207(119 in City, 55 in Suburbs and 33 in Extended Suburbs) as against 201 (117 in City, 53 in Suburbs and 31 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 59146 to 61633.

The average number of pupils on roll in Aided Schools during the year under report was 62122 as against 56857 in the previous year.

The average daily attendance was 55744 (89.7 per cent.) as against 51799 (91.1 per cent.) of the previous year.

The total number of teachers in Aided Schools as on 31st March 1971 was as under :—

	City	Suburbs	Extended Suburbs	Total
Ordinary Teachers ...	812	454	347	1613
Special Teachers ...	124	85	34	243
Total ...	936	539	381	1856

Out of 1856 teachers, 1350 were trained and 506 were untrained, as against 1761 teachers in the preceding year, out of whom 1324 were trained and 437 were untrained. The percentage of trained teachers worked out to 72.7 which compares unfavourably with the percentage of trained teachers in Municipal schools which was 98.4.

A lecture on "New Trends in Education in U. S. A., U. K. and Japan" was arranged at Birla-Kreed Kendra, Chowpatty and was delivered by Dr. (Mrs.) Madhuri Shah, Education Officer, in August 1971, on her return from the tour of these countries. Shri Haldankar, Senior Supervisor, Physical Instruction, also spoke about his experiences.

As the revised syllabus was going to be introduced in Std. IV from June 1970, introductory talks were held in English, Gujarati, Marathi and Hindi. The teachers of Std. IV were acquainted with the revised syllabus and new books by eminent educationists from the City. These talks were held in July 1970.

"Guidelines for teachers" of Std. II and III were printed and published by the department in November 1970. This is the first attempt of its kind in the direction of guidance to teachers in the whole of Maharashtra.

Problem-solving seminars were held later in the year where all the difficulties of the teachers of Std. IV in the teaching of the revised syllabus were solved. These seminars were held in January and February 1971 in English, Gujarati, Marathi and Hindi. There were no lectures of any kind; the difficulties of the teachers who had actually taught the books for one full year were discussed thoroughly and solved by experienced teachers, principals of schools and training college lecturers.

In collaboration with Somaiya Vidyavihar Training Collage, at Ghatkoper, the department arranged lecture-demonstrations in New Mathematics for Std. I to IV on 22-2-1971 and 24-2-1971.

A full-time course for the teachers of handicraft was organized by the department from 1st of February to 28th of February. 40 teachers from private schools attended the course and certificates were given at the end of the course.

A lecture on "What is new about New Mathematics" was held at Gilder Tank by the visiting-lecturer Dr. Mrs. Sarah Burkhart in the month of April which was attended by all the heads of the schools who have introduced New Mathematics.

Unaided and Recognised Schools.

Besides Aided Schools there were 381 (203 in City, 122 in Suburbs and 56 in Extended Suburbs) Recognised Schools as against 372 (206 in City, 113 in Suburbs and 53 in Extended Suburbs) in the previous year. The number of teachers in these Schools was 4021 as on 31st March 1971 as against 3923 teachers as on 31st March 1970. The number of pupils increased during the year from 1,24,513 to 1,26,957.

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.

All the lectures were attended by 900 teachers in 20 different schools, in all wards.

II.— Vocational Guidance in Secondary Schools is given to students of Std. X in 18 Secondary Schools in all Wards. Lectures on the following topics were attended by 4600 pupils :—

- (i) How to cultivate proper study habits.
- (ii) How to choose a career.
- (iii) Medical careers

"Pupils' Questionnaire" was filled in by about 1000 students. They also sought the co-operation of their parents in filling in "Parents' Questionnaire". "Interest Inventory" was given to students to find out their fields of interest. "Career Conferences" were held in five secondary schools. Each conference consisted of (1) lectures by eminent personalities (2) Careers Exhibition and (3) Display of career films. These conferences were attended by nearly 2500 pupils from municipal and nearby non-Municipal secondary schools.

III B—Vocational Education.

There are 33 vocational classes in 22 Vocational Schools—16 Carpentry, 12 Tailoring, 1 Sign-board Painting, 1 Printing, 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* :—383 teachers including 245 lady teachers attended the Refresher Classes organised on zonal basis in July and August 1970. The object of the class was to acquaint the teachers with the syllabus of physical education and organisational aspects of sports and competitions.

(2) *Physical Training Class*.—A Residential Class on full-time basis was organised at Aarey Colony Camp site under canvas from 21st December 1970 to 13th January 1971. 86 teachers including 39 women teachers attended the class. The syllabus consisted of various drills, minor and major games, lesson planning principles of physical education, etc. The emphasis was laid on practical and organisational aspects. An examination was held at the end and the result was 94.18%.

(3) *Annual Sports* :—Annual Sports were conducted at 126 centres. About 1,10,000 children participated in the sports, which included running, skipping, etc., and in athletic events like jumping, throwing etc. The finals were organised on St. Xavier's College Gymkhana Ground, Parel.

(4) *Model Schools*.—About 30,000 pupils from more than 150 schools participated in the programme consisting of Mass P. T., March-Past, Lezim, Fancy Drills, Asanas, Pyramids, etc.,. The programmes were held at 24 centres.

(5) *Mass Drill* :—Mass Drills were organised at 2 centres. About 15,000 children participated in the Mass Drill, which evoked appreciation from guests.

(6) Some Schools participated in the celebrations organised on the Republic Day, 26th January, by the Central Committee appointed by the Government of Maharashtra.

(7) *Drills and Games Competitions* :—This year competitions in drills and games were held in each ward as a first stage. Semi finals were held at zonal levels and finals were held at the central level.

- (a) Drill : (i) Squad Drill/Marching.
(ii) Asanas/Namaskars.
(iii) Pyramid/Stunts.
(iv) Frolicks.
- (b) Games : (i) Kabaddi, Kho-Kho and Langadi for Boys.
(ii) Kho-Kho, Langadi and Dodge Ball for Girls.

(8) *Educational Excursions*.—Excursions were arranged during the period from the 17th November 1970 to 23rd March 1971 to Jija Mata Garden, Kamala Nehru Park, Taraporwala Aquarium, Gateway of India, Birla Kreedha Kendra, etc. About 67,196 pupils of the Std. III participated in the programme and they were accompanied by 2,478 teachers. The participants were provided with lunch and transport and the cost for the same was borne by the Municipal Corporation.

(a) *Balbhavan Centres*.—The number of centres was 29. Each centre was in-charge of a trained Instructor assisted by a helper. Competitions and exhibitions were organised at all the centres and finals at a central place.

V—Scouts and Guides Movement

Statistical Information :—

No. of Cub Masters—	237	No. of cubs.	...	4545
No. of Scout Masters—	245	No. of Bulbus,	...	3919
No. of Flock Leaders—	205	No. of Scouts.	...	5047
No. of Guide Captains.—	197	No. of Guides.	...	4307

The following are some of the important activities that were conducted during the year under report:—

(1) *Three week-end Camps for President's Scouts/Guides and First Class Souts/Guides* :—In the first Week-end Camp 400 Scouts and Guides participated and in the other two camps only 200 selected Scouts and Guides were trained. These camps were organised in the month of July, August and September 1970.

(2) *Explanatory Training Camp for Teachers*.—256 Scout/Guide teachers attended the training camp conducted in the month of August 1970. The object was to train teachers for different activities of the Scout/Guide movement.

(3) *The President Scout/Guide Rally.*—A Contingent of 8 president's Scout and one Scouter participated in this rally organised by the National Head Quarters, Bharat Scouts and Guides, at New Delhi from 15th November to 19th November 1970. Certificates were awarded to the participants by the President of India.

(4) *Patrol Leaders Training Camp.*—About 2000 scouts/Guides attended Patrol Leaders Training Camp. They were given training which prepared them for the test of First Class badges and selection of President's Scout/Guides. The emphasis was given on training in leadership. These camps were conducted in the month of November 1970.

(5) *Cub/Bulbul Excursions.*—About 2,000 Cubs and Bulbuls participated in one day excursions to the Aarey Milk Colony Camping Ground organised in the month of December 1970.

(6) *Hikes for Scouts and Guides.*—About 1000 Scouts and Guides participated in hikes during the period from 2nd December to 10th December 1970. Ten trails were laid down around the camp site in Aarey Colony. Minimum distance that was required to be covered by each group was 15 K. M. These hikes brought them many opportunities for training in map reading, map drawing, compass reading, etc. The participants stayed over-night in the camp and left the camp next morning.

(7) *Special Refresher Training Course.*—A special refresher training course was organised, from 11th to 17th December 1970 at Aarey Milk Colony Camping Ground to train the Scout/Guide especially for helping the organisers for the VI All-India Jamboree.

(8) *First-Class Scout/Guide Rally.*—A contingent of 197 Scouts/Guides/Scouter/Guider attended this rally, organised by the Maharashtra State Bharat Scouts and Guides Just prior to VI National Jamboree at Aarey Milk Colony from 24th to 26th December 1970. This helped much in bringing together all the participants from the Education Department.

(9) *VI National jamboree.*—It was an unique opportunity for our Scouts and Guides to participate in the VI National Jamboree held this time in Maharashtra at Aarey Milk Colony, from 27th to 31st December 1970. 197 Scouts/Guides/Scouters/Guiders participated in the Jamboree from the Education Department. Our Scouts and Guides represented the Maharashtra State contingent and took part in all activities. An exhibition on Scout/Guide Movement was arranged by our Scouts/Guides and Scout/Guide teachers on a very large scale. It was highly appreciated by all the distinguished visitors and especially by the Education Minister—Shri Madhukarrao Chaudhary.

(10) *Scout/Guide Week.*—Scout/Guide Week was celebrated from 21-11-1970 to 6-12-1970. During week, camp fire, Scout/Guide rallies, Cub-Bulbul revel, Parents' Meetings and Khari-Kamai were organised on zonal level. Our Scouts and Guides collected Rs. 13,943.53 through "Khari-Kamai".

(11) *Zonal Spots.*—Scout/Guide sports were organised on zone-wise basis at 8 different places. About 12,000 scouts/guides/bubs/bulbuls participated in the sports. The Final Sports were organised at Aarey Milk Colony Camping Ground from 29th January 1971 to 2nd February 1971.

(12) *Scout/Guide Rallies.*—This year 7 zonal Rallies were organised. At each zonal Rally 2,000 to 3,000 Scouts/Guides/Cubs/Bulbuls participated. March Past, Folk Dances and Display in Scout/Guide activities formed part of the programme. The final Rally was organised on St. Xavier's College Gymkhana, Parel on 22-2-1971 and nearly 8,000 Scouts/Guides/Cubs/Bulbuls and Scout/Guide Teachers participated.

VI.—A Audio Visual Education.

The Projectionists of this Section arranged 1,997 film shows in various municipal school halls. Film shows were attended by more than 5 lakhs pupils. Educational films were exhibited at Mathematics and Science Workshop and Refresher English Classes. Several Sharad Utsav programmes were recorded on magnetic tapes. The Audio Visual Section helped electrifying models and charts and recording themes of exhibits in the VI All India Jamboree Exhibition arranged at Aarey Milk Colony Camping Ground.

VI B.—Teaching Aid Centre.

Nearly 600 teachers in batches of 20 attended the centre and prepared 1,500 charts, models and various teaching aid material. About 150 teachers were trained in Handicrafts who will help to conduct the courses in different beats. In addition to this, some materials were prepared for Science and Mathematics Workshop being conducted at Gilder Tank Building with the financial assistance from the National Council for Science Education, New Delhi.

VII.—Finance.

The principal sources of income of Primary Education Department are (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 balances and (7) Other Miscellaneous Receipts.

The Opening Balance as on 1st April 1970 was Rs. 100,43,635. 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	6,44,94,910	71,95,460	1,43,06,168	8,76,254

The total expenditure for the year amounted to Rs. 8,81,94,656. The closing balance as on 31st March 1971 (after taking into account increase in Renewed Grant) was Rs. 93,80,496.

VIII.—RESEARCH UNIT (EDUCATION).

The Research Unit (Education) carried out the following studies during the year 1970-71.

1. The Language Development Project was continued in Stds. I-IV in model schools of different wards to vitalise the routine classroom teaching in language and to help children to learn habits of oral and written communication. The remedial follow-up work and presentation of remedial materials were taken up in order to minimise the learning gaps and common errors of children in their oral and written expressions.

Tests under the "Language-Development" Project were administered to the samples of children of Stds. I-IV to evaluate and compare the language ability of children under this experiment and of those in non-experimental classes. The reports of Stds. I, II, III and IV are ready for circulation.

2. "Supervision-Project" in multilingual schools was continued in almost all wards.

3. The experiment in "Ungraded Unit" course had been extended to Stds. I-IV with a view to reducing the number of failures resulting in stagnation, drop-outs and wastage. A study of the progress of children under the "Ungraded Unit" course in Stds. I, II, III and IV was made on the strength of the data regarding progress of children who had educational lag in their studies. A report of this study of Stds. I-IV is under progress and will soon be ready for circulation.

4. Preparation of Graded Assignments in Language and Arithmetic for Std. II (New Syllabus) under progress. The same will be ready for distribution soon.

5. Analysis of the results of the Annual Examination held in 1970 of some sample schools from different wards had been undertaken to study the overall performance of children in different school-subjects of the curriculum of Stds. I-VII with a view to bringing out the weak points to the notice of the teachers involved and suggesting the remedies. The work is still under progress.

6. In-service Training Classes for teachers teaching Science to Stds. I-VII had been organised and workshops were conducted during the year wherein over 400 teachers were given orientation in Science. In addition to this, classes in Mathematics, Languages and Social Studies were organised for about 300 teachers and a class for 'Hindi' Teachers in Marathi, the regional language, had also been organised during the year.

7. Science and Mathematics Curriculum Improvement Programme:- This programme has been undertaken by the Department since 1967 and during the year of reporting the different workshops in Science and new Mathematics had been conducted for teachers and officers with a view to (a) give them orientation training in modern Science teaching and modern Mathematics at primary level and (b) preparing enrichment materials in new Science syllabus for the guidance of teachers. In these workshops more than 300 teachers and officers participated.

The experimental lay-out of the materials thus prepared was organised in a few selected schools during the year so as to evaluate the suitability and validity of the same.

IX.—Secondary Schools.

During the year under report, no new secondary schools were opened due to paucity of funds. The second batch of S. S. C. students from 25 schools appeared for S. S. C. examination held in March 1971.

The number of Secondary Schools, divisions etc. is given below :-

							As on 31st March 1970	As on 31st March 1971
No. of Schools	...	...	...	...	...	...	27	27
No. of Divisions	...	...	...	...	...	...	403	402
No. of Pupils	...	...	...	...	...	...	17,010	17,214
No. of Teaching Staff	...	...	...	...	...	...	602	610

X.—General

During the year under report the total No. of children examined in the Municipal Primary Schools was 1,34,314. No. of children found defective was 1,13,367.

The Health Visitors (Schools) paid 8,322 domiciliary visits and 532 re-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, full time dental clinic at Nair Hospital and Juhu Dental Clinic at Vile Parle Municipal School. During the year 76,066 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 against Typhoid, Cholera, Small-pox, Diphtheria and Tetanus and Tuberculosis was carried out in the Municipal Schools by the Special Inoculation Staff under Medical Officer (Schools) and by Mobile Health Unit as per programme. Total number of children immunized is as shown below :—

Typhoid—2,44,925.

Diphtheria and tetanus.—1st dose 67,526; 2nd dose 52,875.

B. C. G. (Tuberculosis).—46,803.

Small Pox.—2,06,229.

The following activities also were carried out by Medical Officer (Schools) :—

(1) Health Education (2) Health Ministry (3) Health Trophy, (4) Health Parades, (5) Supply of milk to the children attending school clinics, (6) Emergency care at the time of sports.

All the Municipal Schools were supplied with emergency outfit (First Aid Medicines).

Total number of children medically examined in 27 Municipal Secondary Schools during the year under report was 14,986.

XI.—Municipal Teachers' Library.

There are three Teachers Libraries at Gilder Tank, Santacruz and Ghatkopar. Total number of books at the end of the year was 40,609 (28,570 at Gilder Tank, 8,507 at Santacruz and 3,532 at Ghatkopar) as against 36,538 in the previous year. Total number of newspapers and periodicals subscribed was 142 as against 140 in the previous year. 9,138 books were issued during the year by Gilder Tank Library, 7,945 by Santacruz Library and 2,774 by the Ghatkopar Library. 301 new members (180 at Gilder Tank, 72 at Santacruz and 49 at Ghatkopar) were enrolled during the year under report.

A Children's Corner was started at the Gilder Tank Library during the year. Now there are three children's corners attached to the three teachers' libraries. The number of books exclusively for children in these children's corners at Gilder Tank, Santacruz and Ghatkopar are 6,037, 7,078 and 4,598 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 with the consent of the landlords of the premises concerned.

XIII.—Extra curricular Activities.

(a) Sharad Utsav (Autumn Festival).—8 centres of cultural Programmes, 2 centres of Exhibitions, 7 Divisionwise competitions, 4 school hall programmes, 2 open Air Programmes, 1 Central Function and 1 Final Competition, (b) School Anniversaries, Dassara Festival, Independence and Republic Days were celebrated in a number of school where special invitations were given to the parents so as to bring them into close contact with schools. Variety entertainment programmes were arranged on such occasions. (c) Educational Seminars and Exhibitions were organised in which Municipal Teachers of 50 beats took part. (d) Vacation Libraries were conducted at 50 centres for the benefit of school children.

XIV.—School Feeding Programme

Under this programme, all the children of Municipal Primary Schools in Standards 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. The children were divided into two groups and each group got milk on either of one of the sessions only. A very few schools in suburbs and extended suburbs do not get the benefit of free supply of milk as the milk vans do not get access to the school premises. During this year about 2,50,000 children used to get 15 to 16 gms. of biscuits containing 15 per cent. proteins, manufactured by the Britannia Biscuit Co. Ltd., on every alternate school working day. Besides nearly 90,000 children have been catered with peanuts (groundnuts) each boy getting 20 gms. of baked and salted peanuts (groundnuts). Under Buns Programme, the beneficiaries were about 50,000 children. Each child was supplied with a sweet bun of 50 gms. each, manufactured by the Modern Bakeries (Indai) Ltd.

MADHURI R. SHAH,

Education Officer.

APPENDIX No.1
Municipal Schools and Pupils

Language	As on 31st March 1970			As on 31st March 1971		
	Schools	Classes	Pupils	Schools	Classes	Pupils
CITY						
Marathi	228	1	1,67,668	228	2	1,65,588
Gujarati	79	11	27,066	70	11	25,672
Urdu	95	8	34,931	95	8	35,393
Hindi	47	4	16,673	48	4	16,747
Tamil	7	8	2,434	7	8	2,580
Telugu	10	3	3,951	10	3	4,012
Kannad	13	9	3,288	13	9	3,160
English Primary	17	...	6,281	17	1	6,551
Sindhi	2	...	344	2	...	324
Total ...	498	44	2,62,640	490	46	2,60,027
SUBURBS						
Marathi	120	...	95,697	124	...	99,802
Gujarati	46	10	21,474	45	11	21,014
Urdu	65	3	22,131	67	2	23,604
Hindi	38	14	16,960	43	10	17,792
Tamil	3	10	1,944	8	5	2,048
Malayalam	1	3	305	1	3	308
Telugu	3	4	616	3	5	704
Kannad	15	5	4,723	15	5	4,922
Eng. Primary	5	4	1,381	7	2	1,613
Sindhi	2	2	1,605	3	2	1,542
Total ...	298	55	1,66,835	316	45	1,73,349
EXTENDED SUBURBS						
Marathi	52	1	34,272	53	2	37,049
Gujarati	27	2	17,930	28	2	18,295
Urdu	13	1	2,758	14	3	3,057
Hindi	22	2	7,325	21	4	7,742
Tamil	2	6	943	4	5	1,034
Telugu	1	1	211	1	1	220
Kannad	1	5	1,117	2	4	1,108
English Primary	2	1	498	2	1	471
Sindhi	3	1	756	3	1	695
Total ...	123	20	65,810	128	23	69,671
Grand Total ...	919	119	4,95,286	934	114	5,03,047

APPENDIX No. II

Statement showing the number of Trained and Untrained Teachers in Municipal Schools according to Sides

Side	As on 31st March 1970			As on 31st March 1971		
	Trained	Untrained	Total	Trained	Untrained	Total
CITY						
Marathi	4,740	33	4,773	4,783	38	4,821
Gujarati	867	9	876	834	3	837
Urdu	990	36	1,026	1,017	30	1,047
Hindi	474	5	479	488	2	490
Tamil	70	6	76	68	6	74
Telugu	83	25	108	103	18	121
Kannad	91	3	94	90	3	93
English Primary	128	50	178	142	34	176
Sindhi	10	1	11	11	2	13
Total	7,453	168	7,621	7,536	136	7,672
SUBURBS						
Marathi	2,598	14	2,612	2,707	13	2,720
Gujarati	617	2	619	605	7	612
Urdu	610	31	641	632	28	660
Hindi	471	9	480	497	3	500
Tamil	53	3	56	55	4	59
Malayalam	10	...	10	10	...	10
Telugu	17	...	17	21	...	21
Kannad	132	1	133	139	1	140
English Primary	27	6	33	43	3	46
Sindhi	45	9	54	45	3	48
Total	4,580	75	4,655	4,754	62	4,816
EXTENDED SUBURBS						
Marathi	960	14	974	1,069	4	1,073
Gujarati	513	2	515	542	1	543
Urdu	74	3	77	87	3	90
Hindi	194	8	202	214	7	221
Tamil	25	1	26	29	...	29
Telugu	7	...	7	6	1	7
Kannad	30	...	30	34	1	35
English Primary	10	2	12	11	2	13
Sindhi	19	8	27	26	...	26
Total	1,832	38	1,870	2,018	19	2,037
Grand Total	13,855	281	14,146	14,308	217	14,525

APPENDIX No. III

Municipal Recognised and Aided Schools and Pupils.

Language	Recognised Schools as on 31-3-1970		Recognised Schools as on 31-3-1971		Aided Schools as on 31-3-1970		Aided Schools as on 31-3-1971		
	No. of Schools	Pupils	No. of Schools	Pupils	No. of Schools	Pupils	No. of Schools	Pupils	
City									
Marathi	...	22	8,855	23	8,825	25	5,796	25	5,905
Gujarati	...	57	9,310	57	9,602	32	7,344	31	6,873
Urdu	...	3	957	3	1,421	6	1,676	6	1,822
Hindi	...	1	112	...	...	11	3,120	12	3,265
Sindhi	...	1	39	1	27	4	502	4	553
Tamil	...	2	244	2	270	3	883	3	846
Telugu	1	118	1	120
Malayalam	...	1	74	1	78	2	465	2	457
Kannad	...	1	72	...	...	1	381	2	466
English	...	109	42,991	106	42,097	22	6,188	23	6,123
Bengali	1	179	1	196
Miscellaneous...
Iranian	...	1	29	1	34	...	...	...	...
Marathi Night	1	142
Kannad Night	1	80	7	1,044	6	452
English Night	...	8	1,032	8	1,096	2	218	2	240
Total	...	206	63,785	203	63,530	117	27,914	119	27,460
Suburbs.									
Marathi	...	17	4,468	22	5,416	12	4,429	13	5,003
Gujarati	...	18	3,180	21	4,559	13	6,375	12	5,666
Urdu	1	209	1	244
Hindi	...	1	53	2	164	10	2,497	10	2,572
Sindhi	3	381	3	360
Tamil	2	561	2	542
Malayalam	...	1	411	...	...	1	199	2	612
English	...	75	36,810	76	35,754	11	3,109	11	3,405
English Night	...	1	72	1	72	...	...	1	350
Total	...	113	44,994	122	45,965	53	17,760	55	18,754
Extended Suburbs									
Marathi	...	5	1,315	5	1,167	9	2,955	9	3,213
Gujarati	...	21	5,064	22	5,396	13	7,867	14	9,181
Hindi	...	2	302	2	367	6	1,630	6	1,711
Tamil	...	1	290	1	270	...	...	...	...
Malayalam	...	1	155	1	145	...	...	...	...
Kannad	...	1	177	1	177	...	...	...	...
English	...	22	8,431	24	9,940	3	1,020	4	1,314
Total	...	53	15,734	56	17,462	31	13,472	33	15,419
Grand Total	...	372	1,24,513	381	1,26,957	201	59,146	207	61,633

APPENDIX No. IV

Information re: Physical Education in Municipal Schools

Total number of schools and classes	...	...	...	1,048
Number of schools imparting physical education on playgrounds	...	...	...	152
Number of schools imparting physical education in open spaces	...	...	...	576
Number of schools imparting physical education in class-rooms	...	...	...	320
Total number of pupils	...	...	...	5,03,047
Total number of pupils taking physical education	...	...	...	All
Total number of trained teachers in physical education	...	...	...	1,285
Special Teachers in Physical Education	...	...	...	194
Total number of untrained teachers in physical education	...	...	...	12,377

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 31-3-1969 (4,91,332)	... 168.01
City, Subs. & Ext. Subs. :	
According to the number of pupils on roll as on 31-3-1970 (4,95,286)	... 162.87
City, Subs. & Ext. Subs. :	
According to the number of pupils on roll as on 31-3-1971 (5,03,047)	... 175.32

LABOUR DEPARTMENT

Administration Report of the Labour Department for the year 1970-71.

The Labour Officer dealt with 5154 individual grievances of Labour Staff.

Trade Unions.—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.

TABLE I.

Name of the Union.	Date of Establish- ment.	Date of Registration	Registered Number	Membership as on	
				31-12-1968	31-12-1969
Municipal Worker's Union ...	27-2-1935	29-3-1935	90	2,368	2,360
Bombay Sweepers' Union ...	30-7-1946	7-9-1951	1,118	2,282	2,292
Bombay Municipal Subordinate Staff Union ...	2-8-1946	30-1-1948	483	3,462	4,078
Municipal Mazdoor Union ...	...	...	2,100	15,332	15,397
Bombay Municipal Engineer's Union ...	Recognition granted on 21-7-1956	...	3,281	441	477
Bombay Municipal Kamgar Sangh ...	1-4-1933	28-6-1962	4,212	2,275	3,404
The Administrative Officer's Association (B. M. C.) ...	...	...	6,008	...	88
Bombay Municipal Executive Staff Union	21-6-1955	21-5-1966	1,806	2,183	2,176
The Greater Bombay Nurses' Association	...	...	3,780	495	I. N. A.
Bombay Municipal Health Visitors' Asso- ciation ...	18-1-1951	18-1-1951	1,001	93	95
Maharashtra State Nurses' Welfare Asso- ciation ...	...	...	4,638	...	...
Mahamumbai Nagarpalika Prathamik Shikshak Sangh ...	...	...	2,426	3,333	...
Brihan Mumbai Nagarpalika Special Shikshak Sangh ...	...	...	3,593	115	I. N. A.
Bombay Municipal Urdu Teachers' Asso- ciation ...	...	...	1,356	295	245
Municipal Qualified Overseers' Union ...	...	...	4,977	200	I. N. A.
Bombay Fire Services Union ...	Recognition granted on 18-4-1969	...	479	474	474
Bombay Fire Fighters' Services Union ...	Recognition granted on 18-4-1969	...	6,019	77	141
Mahamubai Municipal Marathi Shikshak Sangh	Recognition granted on 24-3-1970	...	...	...	...
Association of Inspectors (School) ...	...	...	...	...	...
The Municipal Secondary Teachers' Asso- ciation ...	Recognition granted on 1-9-1970	...	...	...	...
Municipal Head and Dy. Head Teachers' Association ...	Recognition granted on 31-8-1970	...	...	...	...
Bharatiya Kamgar Sena ...	Recognition granted on 25-2-1971	...	6,142	...	I. N. A.

Industrial Relations.—There was no occasion on which the provisions of the Bombay Municipal Servants Act, 1890 had to be brought into effect. Four new Unions were recognised during the year under report viz. (1) Association of Inspectors (School) (2) Municipal Head and Dy. Head Teachers Association, (3) Municipal Secondary Teachers Association and (4) Bharatiya Kamgar Sena. Recognition granted to (1) Bombay Municipal Engineering Officials Association (2) Bombay Municipal Hindi Shikshak Parishad (3) Municipal Primary Sindhi Teachers' Association. (4) Bombay Municipal Peons Union was withdrawn as they have failed to produce the record and receipt books for verification for the year 1968-69 which amounted to violation of Rule No. 5 of the Rules and Regulations for recognition of the Associations or Unions.

Nine applications under Section 33(2)(b) of I. D. Act, 1947 were submitted to Shri G. K. Patankar, the Industrial Tribunal by the Administration for approval to the actions of dismissal or removal proposed by it against the delinquent employees and were heard by the respective authorities and approval order in case of all applications were received from them during the year under report.

The following Awards under Industrial Dispute Act and Reports were received and published during the year under report.

(1) Award of Shri N. L. Abhyankar, Industrial Tribunal in Ref. (IT) No. 231 of 1968 in the dispute between the Bombay Municipal Corporation and the Workmen employed under it in Rota Printing Unit.

(2) Award of Shri R. D. Tulpule, Industrial Tribunal in Ref. (IT) No. 59 of 1969 in the Adjudication between the Bombay Municipal Corporation and the Workmen (Nursing Staff) employed under them in R. D. T. B. Hospital and Clinic regarding filling up the post of Jr. Asstt. Matron, and supply of family quarters.

(3) Award of Shri R. D. Tulpule, Industrial Tribunal in Ref. (IT) No. 199 of 1969 in the matter of Pay Scale adjustments, uniforms and working allowance of the Municipal Nursing Staff.

Labour Management Co-operation.—With a view to promote cordinal 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 grievance procedure is continued to redress the grievances of the employees in all Municipal Departments. The grievance Committee consist of the representatives of the 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 Unions were of various nature. The following table gives the number and the nature of the grievances received and dealtwith by the Labour Officer.

TABLE II.

Nature of cases.	Total		Grievances redressed		Not genuine		Pending cases.	
	City	Subs.	City	Subs.	City	Subs.	City	Subs.
Recruitment and Retrenchment, etc. ...	889	402	765	391	112	11	12	Nil
Promotions, Transfers, Confirmations and Annual Increments etc.	415	146	328	137	81	7	6	2
Fines, Reversions, Suspensions, dismissal and other punishments	308	35	216	31	88	4	4	Nil
Delay in payment of wages (wages leave) and allowance ...	217	217	176	206	36	8	5	3
Delay in settlement of Provident Fund and other retirement benefits ...	203	124	159	117	37	5	7	2
Non-supply of equipment and uniform ...	378	46	318	42	56	4	4	Nil
Delay in sanctioning leave due ...	94	51	71	49	20	2	3	Nil
House Rent, accommodation and transfer of quarters ...	638	87	560	69	72	17	6	1
Miscellaneous ...	360	544	258	495	54	42	8	7
Departmental references, etc. ...	10,610	798	10,610	798	...	...	...	...
	14,112	2,450	13,501	2,335	556	100	55	15

The Scholarship to the Children of Municipal Employees.—During the year, 628 applications for scholarships were received and 214 Scholarships were granted to applicants for higher education and 269 for secondary education. The total amount given by way of scholarships to the Municipal Employees was Rs. 29,887.

Medical Assistance Scheme to the Municipal Employees.—252 employees applied for medical assistance under the above scheme. 244 employees were given aid amounting to Rs. 20,560.

Inter Centre Tournaments.—Inter Centre Tournaments for Volley Ball and Kabaddi were held at K. E. M. Hospital grounds in February and March 1971. Prizes were given to winners and runners-up.

Inter Centre Dramatic Competitions.—Inter Centre Dramatic Competitions were held at Birla Krida Kendra in November 1970. Shri M. N. Desai, Municipal Commissioner, presided over the function and Smt. Sumantai Desai distributed the prizes to the Best Actor, Best Actress and Best Director. Trophies were given to the first three dramas. 21 Welfare Centres participated in the competitions. 7 entries were selected for the final competitions.

Different Functions.—Combined Ganpati Festivals were organized during the year under report instead of separate functions at different centres. Cultural items, competitions, etc. were held during the festivals and prizes were distributed to the participants taking parts in the programme. Haldi Kumkum functions were held at 22 Welfare Centres. Fancy dress Competition was held in May 1970 at K. E. M. Hospital and prizes to the best items were given.

Opening of New Centres :—Four new Welfare Centres were opened during the year one each at Powai, Tansa, Vaitarna and Municipal Staff quarters at Khar

Milk Scheme :—Milk is distributed to the children of municipal employees. The milk powder is donated by Catholic Relief Fund.

Film Shows :—Documentary film shows were organized daily at the Centres during the year.

Picnics :—Excursion for Agra Road employees was organized at Poona Nasik, Shirdi. 50 employees participated. Number of picnics were also organized during the year for children of different welfare Centres.

Excursion for Nursing Staff :—Excursion for the Nursing Staff was organized in the month of February 1971 to Jaipur, Udaypur, Ajmeer and Ahmadabad. 66 Nurses of different Hospitals and Maternity Homes participated in the excursion. When the excursion party was at Jaipur and had gone to see a movie, a portion of the Balcony of the theatre collapsed and as a result, one Asstt. Labour Officer and one worker-in-charge of the Bapty Road Welfare Centre who were accompanying the excursion party were succumbed to injuries.

Daily Attendance :—The average daily attendance of adults and children at the different Welfare Centre during the-year was 2400 adults and 2580 children as against 2392 and 2286 in the previous year.

Scouting and Guiding :—The total strength of the scouts and guides section was 4311 in the year.

The organization gave the following outstanding services during the year under report. They carried out Traffic duties and assisted in maintaining law and order at the time of several celebrations, Urus, Fruit and Flowers Show and other Festivals in the City. Rovers services was also rendered before and after the Jamboree.

The Scouts/Guides, Scouters and Guiders participated in several Scout activities in the City and the Scout Guide Weekend Camp fires of the Bharat Scouts and Guides. Our guides won the winners Trophy in the Inter Company Elocution Competition of the West Bombay D. A. Our Scouts, cubs, guides, and Bulbuls also participated in the Sports and won the Championship cups in the cubs and Bulbuls section.

Training Camps :—Training Courses in Second Class and Proficiency Badges were conducted at K. E. M. Hospital for preparing the Scouts and Guides for the VI All India Jamboree.

Inauguration of the Scout/Guide Campsite :—After the completion of the 1st phase of construction, the Scout and Guide Camp was declared open by Dr. Shanti Patel, the Mayor of Bombay on 10th December 1970. A Rover's Camp of the Rovers from different Welfare Centres was organized on the said occasion.

APPENDIX 'A'

Serial No.	Name of the Union	Department concerned	Categories attached	Referred to	Nature of Dispute
1	Municipal Mazdoor Union.	H. S. ..	Labour Staff	Asstt. Conciliation Officer	Rotation of Labour Staff for the purpose of weekly off in the Conservancy Department.
2	Do.	A. E. Asphalt ...	Do.	Asstt. Commissioner of Labour	The dispute regarding the Notice of Change for increasing working hours of the Labour Staff under A. E. Asphalt, Worli.
3	Do.	H. S. ...	Do.	Asstt. Conciliation Officer.	Dispute regarding the withdrawal of contract system in Conservancy Branch.
4	Do.	I. O. ...	Do.	Asstt. Commissioner of Labour	The Notice of Change regarding increasing the working hours of the Labour Staff working in I. O. 's Department.
5	Do.	M. M. P. ...	Do.	Do.	P. F. Scheme of Municipal Printing Press.
6	Municipal Workers Union.	Do. ...	Do.	Do.	Notice of Change Increasing the working hours for the purpose of granting O. T. on Sunday to the Workmen of M. M. P.
7	Do.	G. T. B. H. ...	Nursing Staff	Do.	Appeal of Smt. J. Issak; Nurse of G. T. B. Hospital.
8	Bombay Municipal Executive Staff Union	Mobile Health Unit ...	Staff of Mobile Health Unit	Asstt. Conciliation Officer	Dispute regarding—Notice of Change regarding Holiday to the Mobile Health Unit.
9	Do.	I. O. ...	Superior Staff	Asstt. Commissioner of Labour	Dispute regarding the Notice of Change regarding increasing the working hours of Superior Staff of I. O. 's Department.
10	Do.	A & C.	Inspector	Do.	Withdrawal of punishment order served on Shri D. V. Bhide, Inspector of A & C's Department.
11	Greater Bombay Nurses Association.	Suburban Hospital ...	Nursing Staff	Industrial Tribunal	Greater Bombay Municipal Corporation The Workmen (Nursing Staff) employed under them in the Municipal Hospital at Borivali, Kherwadi and Bhabha Hospital (I.T.No. 146 of 1970).
12	Do.	Do. ...	Do.	Asstt. Commissioner of Labour	Grievances of Nursing Staff of the Suburb and Municipal Hospitals and Maternity Homes.
13	Maharashtra State Nurses Welfare Association.	Do. ...	Do.	Do.	Demand and grievances of Maharashtra State Nurses Welfare Association.
14	Do.	R.D.T.B.H. ...	Do.	Industrial Tribunal	Dispute regarding filling up the post of Jr. Asstt. Matron and Supply of family quarters.

PUBLIC RELATIONS DEPARTMENT

Shri N. A. Mistri, M.A., D.J., Dip. S.W., Public Relations Officer continued to be in charge of the department during the year 1970-71 excepting the period from 22nd March 1971 to 31st March 1971 when he was on earned leave. Shri K. T. Pandit, M.A. was in charge of the post of Public Relations Officer during the earned leave period of Shri N. A. Mistri.

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 1971" containing useful information on civic affairs was brought out in English, Marathi and Gujarati. In addition, two other publications viz. "Civic Services" and "Civic Guide" were also published in English and Marathi. List of Municipal Councillors and Officers was brought out twice in the year in English and Marathi.

A Press Room equipped with lockers was put into commission for the first time which enabled the press reporters as well as the department to keep proper liaison 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 for the respective visits. A good coverage was secured in the newspapers through this activity for Civic installations, services, institutions etc.

The department participated in the observance of World Health Day, National Cleanliness Day, World Leprosy Day, Prohibition Fortnight, Social Education Week, Sharad Utsav, Family Planning Fortnight, All India Local self Government Day, Fire Services Day and also in various Health Drives and Exhibitions organised by the Lions Clubs, Bombay Civic Trust, Citizens Welfare League, Bhagini Samaj, Consumers Guidance Society and such other Social Welfare Organisations.

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.P.'s, information both in write ups and pictures was called, collated and furnished to various foreign countries, many of them coming through the Mayor. A number of central functions, official public meetings and press conferences were also organised in connection with the opening of various civic projects.

K. T. PANDIT,
Public Relations Officer.

Municipal Swimming Pools.

Administration report for the year 1970-71.

M. G. M. O. SWIMMING POOL.

- (1) 6302 new members joined the Swimming Pool during the year under report.
- (2) 3397 Beginners were trained during the year.
- (3) 50152 casual swimmers including labourers & factory workers availed of the facility of swimming.
- (4) Seven educational institutions availed of the swimming facility at concessional charge of Rs. 100/- per month, during the year.
- (5) 23 members of the M. G. M. O. Swimming Pool participated in the Poona Aquatic Meet held at Poona in June 1970.
- (6) 13 members participated in the Indore Aquatic Meet held in May 1970 at Indore.
- (7) 16 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 Bangalore in October 1970.
- (8) The Inter collegiate swimming competitions were held at the M. G. M. O. Swimming Pool in September 1970.
- (9) Free Swimming facilities were provided for the Blind persons by granting reservation of the Pool for two hours in a week.
- (10) 50% concession in fees to the school going children up to the age of 18 years is allowed for the first time since January 71.
- (11) Eight crippled children availed of free swimming facility at the Pool during the year under report.
- (12) Collection of fees during the year was Rs. 305861/- as against Rs. 262789/- during the previous year.
- (13) Private parties reserved the swimming Pool for 727 hours by which a revenue of Rs. 15,740/- was collected.
- (14) The total annual expenditure was Rs. 146386/- including the establishment cost of Rs. 86890/- during the year under report.
- (15) 18th 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 Smt. Patel at the prize distribution function held on 27-4-70 as Dr. Shanti Patel, Mayor of Bombay was indisposed.
- (16) 15th Long Distance Sea Race from Dadar Chowpatty to Bandra point and back was held on 7-2-1971 Prizes were distributed to the winners by Dr. V. K. Sukthankar.
- (17) The quality of the water was maintained fit for swimming by effective filtration and chlorination. Samples of the water were tested every week in the Municipal Laboratory.

SARDAR VALLABHBHAI PATEL SWIMMING POOL.

- (18) The new small size Municipal Swimming Pool at Kandivali was opened for the public on 17-7-1970 by Dr. Shanti Patel, Mayor of Bombay. It is named after Sardar Vallabhbhai Patel.
- (19) 4488 Members joined this Swimming Pool during the year for the first time out of which 2537 were Beginners.
- (20) 5396 Casual Swimmers including Labourers & Factory workers availed of the Swimming facility at Kandivali.
- (21) Collection of fees during the year from this Pool was Rs. 1,58,856/- during the year under report.
- (22) Total expenditure for this Pool during the year including the establishment cost was Rs. 68,310/-.
- (23) Private parties reserved the Pool for 10 hours by which a revenue of Rs. 400/- were collected.

S. N. PINGE

Manager

M. G. M. O. SWIMMING POOL.

Administrative Officer (Enquiries)

1970-71

Details of investigations work done by Enquiries and Investigations Branch and Security Branch.

I.— Investigation of—

(a) Cases of alleged acceptance of illegal gratification and Misappropriation of Municipal money by the Municipal Staff	18
(b) Cases of theft or pilferage of Municipal Property or materials... ..	64
(c) Cases of irregularities of serious nature on the part of Municipal Employees such as misconduct, misbehaviour, rude behaviour and assaults, harassment to patients in the Hospitals, taking leave under false pretext, driving or allowing to drive Municipal vehicles by unauthorised persons, gross dereliction of duties, etc.	212
(e) 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... ..	384
Total No. of cases investigated...	678

The actions taken in the above cases investigated are summarised as under :—

	No. of Employees.	No. of Cases.
(1) Dismissal	8	} 94
(2) Removal from service	8	
(3) Promotions withheld ... ..	...
(4) Demotion	4	
(5) Withholding of increments	41	
(6) Fines imposed	26	
(7) Censures and warnings	28	
(8) Recoveries made for loss of Municipal property ... ..	...
Total	115	
(9) Sent to departments for conducting Departmental Enquiries ... ..	...	68
(10) Sent to Departments concerned for necessary remedial actions ... ..	...	236
(11) Filed as the allegations were found to be either false or too vague ... ..	...	202
(12) Exonerated as the charges were not proved ... ..	...	6
(13) Enquiries in progress at the end of the year ... ..	...	72
Total	678	

I.— The split up according to the status of the delinquent 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	Increments withheld
Sub-Engineers	1	4
Medical Inspectors	1
Ward Inspectors	1	...	1
Licence Inspectors	2
Market Inspectors...	2
Surveillance Inspectors	1
D. S. Inspectors	1
Meter Readers	2
Chawl Superintendents	1
Rent Collectors	3
Jr. Overseer Dog Licencing	1
Clerks	1	...	1
Teachers	4
Store Attendants	1	...	...	...
Labour Staff	7	5	3	17
Total	8	8	4	41

II.—(a) The Classification of very serious offences for which punishments of dismissal, removal from service and withholding of increments was resorted to and 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) Demand and acceptance of illegal gratification etc.	2	1	1	5
(2) Pilferage of Municipal property such as store articles, dietary articles etc.	1	1	...	3
(3) Temporary misappropriation of Municipal money	1	2	...	2
(4) Misbehaviour, misconduct etc.	3	...	...	2
(5) Disorderly behaviour while on duty, Assault, Threatening etc.	1	...	...	...
(6) Misuse of Municipal property, Vehicles and handing over vehicles to unauthorised persons etc. ...	...	2	3	1
(7) Accepting private jobs, doing private business, trade etc. while in service or on leave ...	...	...	...	1
(8) Other offences. ... ..	...	2	...	20
Total	8	8	4	41

Other work done by Enquiries Section—

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.	156
(2) Attending sale by auction of Municipal Property or rights etc.	162
(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.	1,195

Work done by the Stock Verification Section.—Verification of Dead stock and 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 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 off as per procedure laid down. Plant and Machinery statements received from various departments were scrutinised and the physical verification of various items was also carried out. Auctions, sale of goods and delivery of materials in the departments were attended to.

From this year the following new procedure was adopted for stock verification—

- (1) An inventory of various stores in all the departments was prepared and they were classified according to the importance of the materials stocked.
- (2) A yearly programme of Stock Verification was prepared in order that no store should be missed.
- (3) Coverage of items was evenly distributed according to the importance and percentage of audit was increased.

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.

C. K. PATEL

A. O. (Enquiries)

The Bombay Municipal Security Force.

The Bombay Municipal Security Force continued to be under the supervision of the Administrative Officer Enquiries. Shri G. H. Salunke, B.A., Assistant Security Officer held over the charge of the post of Security Officer till the appointment of Shri B. R. Sawant, Dy. Superintendent of Police, INT. C.I.D. to the post of Security Officer from 10-3-1971.

The work done by the Bombay Municipal Security Force was as under :—

Total Number of cases.		Total Property involved.		Total Property Recovered.	
		Rs.	P.	Rs.	P.
	206				
Detected	77	77,631.46		61,188.66	

Hospitals			Others		
Cases	Property lost	Property reco.	Cases	Property lost	Property reco.
	Rs. P.	Rs. P.		Rs. P.	Rs. P.
81			125		
Detected 38	6,343.50	1,354.00	Detected 39	71,287.96	59,834.66

I.—Municipal Employees involved ...	54	I.—Municipal Employees involved ...	91
(a) Municipal Employees against whom departmental action was taken ...	23	(a) Municipal Employees against whom departmental action was taken ...	55
(b) Municipal Employees against whom departmental action is pending ...	31	(b) Municipal Employees against whom departmental action is pending; ...	36
II.—Municipal Employees against whom Police cases are pending ...	3	II.—Municipal Employees against whom Police cases are pending ...	3

During the period under review, many important cases were brought to the notice of the authorities concerned by the Bombay Municipal Security Force. With the tightening of the security measures at various installations, pilferages, threat have been checked. Some of the security personnel have shown initiative or done work during the period under review.

4. During the year under report, the Security Personnel exercised an efficient security control in a very critical situation at the Pumping Stations of the Water Works Department at Pogaon and Mohane which were endangered by the communal riots at Bhiwandi in May 1970.

5. The Industrial Unit of the Home Guards continued to function during the year.

6. The security measures were also taken by the Bombay Municipal Security Force at all Corporation Meetings and Morchas at the Corporation Hall and important functions of the Corporation.

7. The Security Force renders services at the time of Morchas and demonstrations at the Head Office and the Ward Offices.

8. The Bombay Municipal Security Force is conducting a Training School for the Security Guards and during the year under report 165. Security Guards were imparted training.

C. K. PATEL
Bombay Municipal Security Force.

THE BOMBAY CIVIC JOURNAL

Shri N. A. Mistri, M. A., D.J., Dip. S. W. continued to work as Editor, Bombay Civic Journal, during the year under report, excepting the period from 22nd March 1971 to 31st March 1971, when he was on earned leave. Shri K. T. Pandit, M.A., was in-charge of the department during the earned leave period of Shri N. A. Mistri.

The Journal was hitherto being published only in English though it had entered 17th year of its publication. As decided by the Corporation, a Marathi section was introduced for the first time from March 1970. A new series entitled 'Know Your Ward' has also been introduced, giving detailed information about the various wards, serially. Municipal Councillors were interviewed on various problems, and such interviews were also published in the Journal.

All the issues of the Journal aimed at giving the reader a variety of interesting matter veering around civic affairs and civic services and metropolitan matters.

During the year under report, efforts were also continued to increase the number of subscribers and bring in more revenue by advertisements.

K. T. PANDIT,
Editor, Bombay Civic Journal.

ORGANIZATION AND METHODS DIVISION.

Dr. S. D. Parchure, M.A., Ph. D., was in charge of the division during the year under report except during the period from 6-5-1970 to 13-6-1970. Shri J. V. Nadkarni M.A.LL.B., was in charge of the Office from 6-5-1970 to 2-6-1970.

During the year, the following main activities were conducted by the Division :-

- (i) Standardization of forms and registers;
- (ii) Operation of Suggestion Scheme;
- (iii) Rearrangement of Municipal Records;
- (iv) Scrutiny of proposals from the following Departments :-
 - (a) Birla Kreedra Kendra,
 - (b) M. G. M. O. Swimming Pool.
 - (c) Chief Librarian,
 - (d) Curator of Museum.
 - (e) Municipal Chief Auditor.
 - (f) Municipal Secretary.
 - (g) General Manager, B. E. S. & T.
- (v) Examination of Office Procedures and suggesting improvements therein so as to tone up the administration.
- (vi) Productivity Unit.

This Unit deals with the study of the problem areas referred to them by the various Departments and conduct management development training programmes.

The studies carried out in the problem areas referred to by the various departments are-

Serial No.	Subject of the Study.
1	Layout of 'C' Ward Office.
2	Workload in A & B Sections of Suburban Assessment and Collection Department ;
3	Transport of Materials from the office of the Controller of Stores to Wards ;
4	Half-yearly Audit of Bills outstanding in suburban wards ;
5	Utilization of the maintenance staff in Hydraulic Engineer's Department ;
6	Study of activities of the staff in charge of Water meters in the Ward Offices ;
7	Preparation of PERT Programme for construction of Medical College at Sion ;
8	Alternate sites for construction of sheds to replace scammel system with suitable designs ;
9	Preparation of draft drainage Bye-laws ;
10	Standardization of Contract Conditions ;
11	Building Proposal Section ;
12	Municipal Work-shop ;
13	Preparation of detailed manual for road maintenance section of the Ward ;
14	Reorganization of City Engineer's Central Office ;
15	Reorganization of Estates Department of Head Office ;

Out of the abovementioned studies, reports of the Item Numbers 1,4 and 7 are implemented and the recommendations contained in the reports of the remaining items have been accepted by the implementing authorities and their implementation is awaited.

Training Activity.—

The staff of this Unit has undergone this year the advanced training course in Management, arranged in consultation with the Central Labour Institute. A Pilot Project, was carried out in the restricted field of the Ward Offices, to assess the organizational climate as well as supervisory training needs.

PERT/CPM training programmes were carried out for the Engineering Staff and they were highly appreciated.

Training Programmes for the Supervisors were carried out mainly in the Ward Offices and they have been highly successful in changing the outlook of the persons who have undergone the training.

(vii) Introduction of Marathi—

(a) One Book "पंचवीस प्रपत्रे" giving English and Marathi versions, side by side, in respect of 25 forms commonly used in the various Departments of the Corporation is prepared and circulated.

(b) Writing applications for casual leave in Marathi is made compulsory and employees are encouraged to submit in Marathi the applications for optional holidays and earned leave.

(c) Many forms are now being printed in Marathi.

(d) Some circulars were issued in Marathi.

(e) It is made compulsory to use at least 13 rubber stamps in Marathi.

(f) Eleven classes for imparting training in Marathi to 308 Municipal employees, including nursing staff, who do not have Marathi as their mother-tongue, were conducted.

(viii) In service Training to Clerks.—

Eight classes at 7 different places were conducted and In-service Training was imparted to 261 employees of the clerical cadre recruited after 1-4-1966.

S. D. PARCHURE.
Organization & Methods Officer.

Administration Report of the Executive Health Officer for the year 1970

Population.—The midyear estimated population *viz.* 57,00,000 for Greater Bombay for the year 1970 has been taken as the basis for rates for vital statistics.

Rain-fall.—The total rain-fall in millimetres recorded at the Colaba Observatory was 2625.5. It was above normal by 526.3 mms. It rained on 113 days as against 72 in 1969 and 91 in 1968. The wettest month was June with a rainfall of 942.7 mms.

At the Santacruz Observatory the total rainfall recorded was 2487.9 mms. as against 2148.6 mms. in 1969. June was the wettest month with a rainfall of 837.9 mms.

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.

(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 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 a prescribed form, at a conspicuous place at the entrance of the eating house. Eating houses securing less than 35 marks out of 100 are not allotted any grade, nor allowed to be licensed and they come under prosecution till they either improve the conditions or vacate.

(C) Grading of Bakeries.—Almost on similar lines as grading of 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 bake-room 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 allowed to be licensed and are subjected to prosecution till they either improve or are discontinued.

(D) Water Supply.—The city continued to receive chlorinated water supply from Tansa, Vaitarna and Vehar 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. As the pipe water supply is yet to reach in certain distant parts of the suburbs and extended suburbs disinfection of well water was continued.

(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 was 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 purposes, under the provisions of the Act. There is a counter-check over the Food Inspectors by a mobile squad provided with a van for swifter and surprise sampling.

II.—VITAL STATISTICS

Births and Birth rate.—The live births registered were 1,61,312 which were 1,741 more than those for 1969, and 9,223 above the average of the quinquennium 1965-69. Of the registered births, 83,333 were males and 77,979 females, giving a proportion of 107 males to 100 females. The birth rate was 28.3.

Deaths and Death rate.—The deaths registered from all causes were 55,898 as against 54,831 in 1969, being 2,561 more than the mean mortality of the preceding 5 years.

The death rate was 9.8 as against 9.9 in the year 1969. 23.2% of the total deaths were among infants below 12 months. Of these, 39.9 per cent were recorded as due to congenital malformation and diseases of early infancy.

Mortality by sex and age.—Of the 55,898 deaths, 33,003 were among males and 22,895 among females. The excess of deaths among males may be ascribed to the slight preponderance of males in the population, their number being nearly 60.1 per cent of the total population. The death-rate among females was, however, actually higher than that among males. The male death-rate was 13.2 and the female death-rate 13.8 as against, 12.9 and 13.6 respectively in 1969. (Per one thousand of the 1961 census population of Greater Bombay).

Principal causes of deaths.—Diseases of the respiratory system claimed the highest number of deaths as in the past, with a death-rate of 1.6 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, 1.1; congenital malformation and diseases of early infancy 0.9 and diarrhoea and dysentery, 0.7;

Infant mortality.—Deaths among infants under 1 year of age numbered 12,994 which were 512 less than in the preceding year and 331 less than the annual average of the previous quinquennium 1965-69. The infant mortality rate for the year was 80.6 per 1,000 live births as against 84.6 in 1969.

Of the 12,994 infant deaths, 11,905 i.e. 91.6 per cent were among infants born in Greater Bombay and 1089 i.e. 8.4 per cent were among those born outside Greater Bombay. The births of these 1089 infants were naturally not registered in the Greater Bombay birth registry. Excluding these 1089 deaths, the infant mortality rate would be 73.8. 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 or evidence of emigration, the number must be small and, therefore, the infant death rate after correction for residence would not be much above 73.8 i.e. less than the recorded rate of 80.6.

Causes.—8300 or early 63.8 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 8697 or 64.4 per cent in 1969. Diarrhoea and Enteritis causes 1705 deaths, Dysentery 71 and Convulsions 42 deaths. Deaths from Smallpox and Measles numbered nil and 48 respectively while poliomyelitis caused 8 deaths.

Quinquennial average.—Compared with the annual average of the preceding five years the total deaths among infants in 1970 were 331 less. Increase of 6 under convulsions, 27 under Dysentery and 66 under Diarrhoea and Enteritis was recorded. Decrease of 89 under smallpox, 37 under Measles, 207 under Congenital malformation and diseases of early infancy, 8 under Poliomyelitis and 414 under Diseases of Respiratory System was recorded.

Age at death.—The infant deaths in the first week of life were 4986 or 38.4 per cent and in the age group of 1 to 4 weeks, it was 2502 or 19.3 per cent of the total. Thus, 7488 infant deaths or 57.7 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 3250 and 2256 respectively constituting 25.0 per cent and 17.4 per cent of the entire infant mortality.

The maternal mortality numbered 89, the rate being 0.6 per 1000 live births as against 0.6 during 1969.

Cemeteries.—The work of registering the cemeteries in the Suburbs was continued and two cemeteries were registered during the year.

Notification.—Notifications of infectious diseases received during the year numbered 9320 as against 8764 in 1969. Of these 6644 (79.8) were from the Medical Practitioners.

Infective Hepatitis.—2518 attacks (including 48 originating in other local areas of India) and 201 deaths occurred due to Infective Hepatitis.

Anti-Plague measures.—Plague was absent. However, a sea-man from Indian Sailors' home, Masjid, Bombay, 9, was hospitalized at the port of Marseilles as a suspected case of Bubonic plague and intimation to that effect was sent to Bombay to take adequate measures here where the seaman was residing.

Intensive rat destruction work was subsequently undertaken in the locality and maximum possible number of live rats was trapped and sent to the Haffkine Institute for determining the plague infection, if any. 357 rats were thus examined but they were found to harbour no infection at all.

Rat destruction and flea destruction work was however continued with special emphasis in that locality.

Rat control work.—(i) Integrated rat control with the employment of combinations of different measures was planned and executed in this year. Before extending the integrated rat control measure to wider areas of the city, a pilot project to test the efficacy of such combination of measures inclusive of the use of anti-coagulant baiting was undertaken and was found successful.

Rat-prevention measures were also incorporated in the new scheme.

(ii) Rat destruction—The total number of rats caught and destroyed in Greater Bombay was 5,88,454 (including 113073 *Rattus* and 2,64,869 *Gunomy Kok*) as against 583522 in 1969. No rat was found plague-infected. Immunity tests on the rats against plague were carried out at the Haffkine Institute and the susceptibility of rats to plague infection was reported as 16% in *Rattus Rattus* 12.5% in *Rattus Norvegicus*, and 64% in *Gunomys Kok*.

(iii) Other anti-plague measures viz. Flea destruction, especially through cyanogassing of rat holes and thorough cleansing of areas were carried out.

Smallpox.—Smallpox caused 13 attacks (including 5 originating in the other local areas of India) and 2 deaths. Besides, 3 cases of Smallpox were directly admitted and treated at the Kasturba Hospital Bombay, from the border areas of Greater Bombay. Of these 1 proved fatal.

Cholera.—Cholera was absent. Preventive measures such as anti-cholera inoculations, disinfection of well water, destruction of over-ripe and rotten fruits, were carried out. 5,83,088 persons were inoculated against Cholera.

Influenza.—Influenza did not cause any death.

Enteric Fever.—The number of notified cases viz. 2200 (including 9 originating in the other local areas of India) was 1233 more than that in 1969. The total number of deaths was 75 as against 78 in 1969. 5,46,535 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 foodstuffs, propaganda, etc., were carried out as usual, besides treating all cases of typhoid with chlormphenicol, etc., at the Kasturba Hospital for Infectious Diseases.

Acute Anterior Poliomyelitis—273 cases (including 25 originating in the other local areas of India) and 36 deaths were reported due to this disease. 89,438 children were immunized against Polio.

Diphtheria.—1796 cases were notified. Of these 116 were originating in other local areas of India. 111 cases proved fatal.

Cerebro spinal meningitis.—This disease caused 6 attacks.

Tuberculosis.—Tuberculosis took a toll of 6173 lives and the death-rate of tuberculosis was 1.1 per 1000 of mid-year estimated population.

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 400 beds are reserved by the Municipal Corporation of Greater Bombay at the Sarvodaya Hospital, Ghatkopar. The cases directed by the 4 clinics at Shamaldas Gandhi Marg, 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.

Venereal Diseases: Contact Investigation Centre.—Follow up work and education: The two medico-social workers, one for the male patients and the other for female patients and the Health Visitor helped in inducing the defaulting patients and married partners to take continued and complete treatment. They also impressed upon patients' minds the disastrous after effects of the disease. Some female patients who were willing to be rescued were given aid and were rescued through Vigilance Branch of the Police Department.

The clinical diagnosis of all the cases was confirmed by the modern laboratory tests in the laboratory of the clinic. Blood samples and urethral smears of patients sent by private medical practitioners were tested and examined and reports were sent to them confidentially free of charge.

Latest methods of treatment were adopted at this clinic. Male and female patients were examined and treated in separate wings of the clinic, maintaining absolute privacy and secrecy.

Anti-biotics like Penicillin 'G' in Oil, Streptopenicillin Ledermycin, Capsules, etc. were the drugs of choice used in the treatment of venereal diseases.

Out of 731 samples of blood received from Municipal Maternity homes, (589 anti-natal and 142 post-natal) for opinion, 81 were positive for V. D. R. L. test or Kahn test. These positive cases were treated at the respective Maternity homes, for the convenience of the patients.

As many as 20744 (19337 males and 1407 females) venereal and 2905 (1481 males and 1424 females) non-venereal cases were treated during the year.

Out of 20744 Venereal cases, 4495 were syphilis, 6720 were gonorrhoea and 9529 were cases of non-syphilitic sores.

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, a refresher course in Venereal Diseases was conducted for the benefit of general medical practitioners at the clinic since June 1970 and 62 Medical practitioners took advantage of the course.

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 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	4039	2122
Old cases	9793	7470
Average daily attendance	231.8	41.0

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) Voluntary patients domiciled in Bombay,
- (2) approximately 150-170 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 every year for Sulphone treatment to outpatients.
- (5) One-third of the recurring expenditure and the entire cost of 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 including one for the Suburbs, 3 non-Medical Assistants and the medical staff appointed by the Acworth Leprosy Hospital and 7 Health Visitors and medical staff 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 Assistants in charge of the Municipal Free Dispensaries have also been specially trained for detection of early cases of leprosy.

Eightieth Foundation Day (7th November, 1969) of the Acworth Leprosy Hospital was celebrated in 1969 and 1970. Under this auspices following programmes were arranged :

(i) Lectures, Seminars, Panel discussions for the members of the medical professions, social workers, educationalists and members of the public.

(ii) Films and documentary shows in schools, social organisations, clubs, welfare associations.

(iii) Slides on leprosy in cinema houses.

(iv) Exhibition arranged by the inpatients showing

(1) Gandhi Centenary Exhibition depicting various episodes in Gandhiji's life.

(2) Rangoli and handicrafts exhibitions.

(v) Unveiling the bust of the Late Mr. Acworth, founder of the Acworth Leprosy Hospital, by his grandson, Major Acworth.

(vi) Laying foundation stone of the Physiotherapy building by Shri. J. B. D'Souza, Municipal Commissioner, Greater Bombay.

(vii) Inauguration of the Acworth Leprosy Hospital Society for Research, Rehabilitation and Education by Shri. S. K. Vankhede, Finance Minister, Maharashtra State.

Presentation of a cheque for Rs. 51,483.33 to the Greater Bombay Leprosy Control Scheme by the Greater Leprosy Relief Association, West Germany through Dr. Sattruam, Consul General for the Federal Republic of West Germany, Bombay, was also done on the occasion.

Malaria.—Inspections were carried out for detection of mosquito breeding places and breeding detected was promptly destroyed by treating with larvicides. The urban vector—*A. Stephensi* (Larvae) was detected on 69 occasions in Greater Bombay limits.

Wells.—25 open wells were filled in and 8 open wells were rendered H. C. C.

Cisterns.—The total number of cisterns in Greater Bombay was 1,38,495 (City 95,519, suburbs 35,464 and extended suburbs 7,512).

Overhead tanks.—All the 269 overhead tanks on mills and similar other premises were maintained in mosquito-proof condition.

Mill tanks.—84 mill tanks in Greater Bombay were periodically inspected and necessary measures were taken to prevent or destroy mosquito breeding in them. Some of these mill tanks were kept under insecticide treatments also.

Precautions against Yellow Fever.—Campaign against *Aedes Aegypti* mosquito, the vector of Yellow Fever and Dengue was continued throughout the year. Breeding of *A. Aegypti* was detected on 403 occasions and stegomyia index for the year was 0.01.

Statutory actions were taken against the owners of premises, etc. to keep their compounds free from breeding of mosquitoes.

Insecticide Services.—Fly and other insect pests likely to cause nuisance and transit insect borne disease were reduced as a result of regular anti-fly and other disinfection measures adopted by the Insecticide Branch.

Filariasis.—An entomological survey to assess and delimit the transmission of filariasis by mosquitoes was continued during the year.

Insecticidal treatment on payment of fees in private premises.—This was continued and insecticide squads operated in all the wards of Greater Bombay. A sum of Rs. 2,51,124 was received as fees towards the services rendered.

Insecticide Fogging Operations.—These were carried throughout Greater Bombay with the help of three squads covering all the areas where insect infestation was high.

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 square miles (436.86 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 either in the city or in their 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. City is covered by passive surveillance only, whereas 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 work 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 25 per cent and 5 percent of the total monthly collection is sent to Baroda 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 visit 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 Medical Treatment is carried out wherever necessary.

The Medical Institutions partly covered in the year 1969 were fully covered during the year 1970. Watch 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 to look after the Active and Passive Surveillance.

A Focal Outbreak of Malaria in Bombay.

A focal outbreak of Malaria occurred in Bombay in the month of June 1970, in the labourers working at construction works at Coffee Parade, Colaba, 60 cases of Malaria were reported from the place. Most of the labourers working at the place had come to Bombay from different parts of the country, and some of them were already suffering from Malaria before they came to Bombay.

The focal outbreak was first detected on 23-6-1970, when 4 positive cases were reported in the Blood Smears collected by active case detection agency. More number of cases were detected when repeated mass blood surveys were carried out at the place.

The focal outbreak was due to imported cases amongst the labourers and breeding of vector species in collections of rain water in the buildings under construction.

The focal outbreak was brought under control by systematic mass blood surveys, treatment of positive cases, suppressive treatment of all the labourers working at the place by vector control measures such as anti-larval treatment, focal spraying, fogging, etc. No positive case of Malaria has been reported from the place since the month of August. The details of blood smear collection and positive cases are :—

Date of occurrence of focal outbreak.	N. of sections involved.	Population	No. of B. S. Examined				Positives				Species			
			A.	P.	M.	Total	A.	P.	M.	Total	P.V.	P.F.	P.M.	MIX
23-6-70	1	1000	450	...	2638	3068	38	...	22	60	11	48	...	1

III.—HYGIENE

The Maternity and Child Welfare services were rendered through the 19 Municipal Maternity Homes and three Hospitals with Maternity Wards and 32 maternity and child welfare centres. The scheduled strength of maternity beds was 831, the number of deliveries conducted being 60,798. 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, post-natal, 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.

P. C. G. Vaccination was given to 36,947 new-born babies at 19 Municipal Maternity Homes and 3 Hospitals with Maternity Wards after obtaining consent of their parents.

Paediatric centres were conducted at 5 Maternity Homes with a view to providing a service to the community in which efficient, effective and comprehensive paediatric care can be given outside the hospital by promoting and growth and development, providing immunisation facilities, teaching family and community health as also nutrition, (ii) to reducing the load of hospital O. P. Depts. 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 immunised with triple vaccine at the Maternity Homes. Polio vaccine was given to the infant 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 births 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 i/c. Family Planning, F/S Municipal Office, Dr. Ambedkar Road, Parel Tel. No. 440811.

Summary of the work done :—

(1) I. U. C. D. Insertions	...	...	...	...	...	1,260
(2) Vasectomy	...	...	...	...	...	17,622
(3) Tubectomy	...	...	...	...	...	8,683
(4) No. of condoms distributed	...	...	...	...	...	49,38,694

SCHOOL HEALTH WORK

(1) Medical Inspection of School Children—

(a) **Primary Schools.**—The total number of pupils in Standards I to IV and V to VII in 922 Municipal Primary Schools and 119 Classes in Greater Bombay was 5,41,982.

The Medical Inspection was conducted in 1,012 schools including classes by the Assistant Medical Officers (Schools) and 1,27,125 children, 6,8928, boys and 58,197 girls) studying in Standards I and III as well as as those from Standards II and IV who remained unexamined during the previous year, were medically examined.

1,16,353 children were found defective. The defects were communicated to the guardians of the pupils. The total defects noticed amongst the children were 2,57,121. The guardians of 2,609 children were interviewed by the Assistant Medical Officers (Schools) and were explained the necessity of getting their wards investigated and treated.

The disease-wise percentage of defectives, to the total number of defectives, i.e., 1,16,353 as compared with that of the previous year (1969) was :—

	1969	1970
Total defectives	98,744	1,16,353
1 General debility	45.50	37.06
2 Dental (mouth and teeth)	54.09	60.85
3 Enlarged lymphatic glands	24.20	21.45
4 Throat	28.43	25.93
5 Nose	10.85	12.68
6 Eye (External)	4.48	3.12
7 Ear diseases	7.79	6.53
8 Skin (contagious)	3.55	2.65
9 Other diseases	15.94	11.22
10 Eye (vision)	1.64	0.91
11 Deformity of bones and rickets	0.68	0.99
12 Lungs and Tuberculosis	0.52	0.63
13 Heart and circulation	0.63	0.40
14 Spleen	0.02	0.04

(b) **Secondary Schools.**—Of 16628 students studying in 27 Municipal secondary schools, 10870 were medically examined and 10,664 were found defective.

(2) **Follow-up Correction of defects:** 56,902 children with major ailments were treated at the clinic at K. E. M. Hospital, Nair Hospital, L. K. M. Tilak Municipal General Hospital, Sion and Harilal Bhagwati Municipal General Hospital, Borivli and Dental Clinic at Nair Hospital and Lion Juhu Dental Clinic. 650 cases with minor ailments were treated in the Municipal dispensaries, 1736 were referred to the Honoraries of the O. P. D. for expert opinion 353 cases of tonsils were operated at the school clinics. 1363 children suffering from scabies, ringworm and boils, etc., were treated in the schools by the Assistant Medical Officer (Schools). All the Municipal schools were supplied with 'emergency outfit'. 466 children were supplied with spectacles free of charge. 25 children suffering from infectious skin diseases were disallowed from attending the schools and their parents were advised the importance of regular treatment.

Of the 303 suspected T. B. cases screened at the Municipal T. B. clinic, 23 children were found suffering from tuberculosis and were treated.

(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.**—384 and 2657 health talks were given in schools by Assistant Medical Officers (Schools) and Health Visitors respectively. With a view to improving school health services among school children, 38 meetings of parents and teachers were organised in the school premises when educational films were shown as well as informative talks were given.

Health Ministry was formed by selecting one or two students of each standard i. e. 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.

Health Trophy Scheme was introduced so that the school children inculcate health habits. 133 schools were included in this scheme. Two schools standing first in the city and two schools standing first in the suburbs and extended suburbs were awarded Health Trophies.

Health Parades were held in a few selected lower primary schools by the school teachers every month and by the Assistant Medical Officers (Schools) and Health Visitors periodically to give marks to the children for personal cleanliness and hygiene. The first two children from each class who secured highest number of marks were given prizes as an encouragement.

(5) **Supply of milk to ailing children.**—During the year, 11,361 ailing children attending the school clinic at the K. E. M. Hospital and 3,632 children attending the dental clinic at the Nair Hospital Dental College were supplied with 200 ml. pasteurised toned milk each and 200 ml. doubletoned milk was supplied to 6606 and 11,361 children attending the school clinics at the Nair Hospital and L. T. M. G. Hospital, Sion, respectively.

(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 Medical Inspection Branch in the health programme in 2 Municipal schools located in the hospital compound, where 62 children were treated.

830 children were examined by the Department of Preventive and Social Medicine, Topiwala National Medical College and 307 Children were examined by the Department of preventive and Social Medicine L. T. M. G. College, Sion.

(7) **Immunization work carried out in Municipal Schools:—**

(a) Diphtheria and Tetanus:

1st dose	48,249
2nd dose	52,375

(b) Smallpox ... 2,06,229

(c) T. A. B. C. ... 2, 2,135

(d) B. C. G. Vaccination ... 79,765

(8) **Emergency care.**—First aid was rendered at the time of sports, mass drills and scout rallies shradotsav, etc. organised by the Municipal Education Department.

Lectures were delivered by Medical Officer (Schools) to the students attending D. C. H. Course D. P. H. Course, Sanitary Inspectors' course and Post certificate Paediatric Nursing course.

Mobile Health Unit.—Dr. D. N. Pai, Professor of Preventive and Social Medicines, Seth G. S. M. College, continued to be the Honorary Director, Mobile Health Unit and Special Officer, Family Planning. The following activities were carried out.

(1) **Comprehensive health care to Municipal School children.**—Mobile Health Unit assisted the medical inspection branch by conducting medical examination in 228 Municipal schools and 45,805 children from Standards I to III were medically screened.

(2) **Control of communicable diseases.**—5,98,727 immunization procedures against various communicable diseases were performed both in Municipal schools and field.

Immunizing agent.	Immunizations		
	In schools	In field.	Total
D. T. 1st dose	9,816	...	9,816
2nd dose	12,836	...	12,836
Triple	...	140	140
T. A. B.	63,488	1,29,126	1,92,614
Cholera	63,488	1,29,126	1,92,614
Smallpox	64,024	1,26,683	1,90,707
	2,13,652	3,85,075	5,98,727

(3) **Health Drive and Family Planning Exhibition.**—In addition to general health education performed through its unit, simultaneously with mass immunization programme, 63 health drive, 2 family planning exhibitions, in different localities, mills and factories were held. 2 free medical check up camps and baseline survey work were arranged at "2nd October Colony" from 25-3-1970 onwards and at Chowpaty from 22-9-1970 onwards. A family planning fortnight was arranged from 16th September 1970 to 30th September 1970 in association with Family Planning Unit of the Corporation.

Six information-cum-distribution centres with facilities for vasectomy operations were conducted in co-operation with the Western and Central Railway authorities. Lectures by eminent speakers, film-shows, distribution of contraceptives, distribution of literature on Family Planning, were held at these centres.

(4) **Training of medical and para-medical personnel.**—422 medical interns from the City medical colleges were trained in urban health practice.

(5) **Other medical problems of medical emergency;** Special efforts for taking comprehensive health care and family planning to slum areas were made.

IV—MEDICAL RELIEF

Municipal General Hospitals

The Public Health Department conducted six small general hospitals in the suburbs and extended suburbs.

Free dispensaries

New cases treated at the 71 dispensaries and 13 mobile dispensaries were 23,68,630 as against 19,87,255 in 1969. The total attendance was 92,93,652 as against 79,28,893 in 1969.

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 1,875 (1,712 women and 163 children) as against 1980 in 1969. The total attendance was 16,456. These figures include visits by the Lady Doctors to patients at their homes. At the 32 maternity and child welfare clinics, 210,689 new cases (130,213 women and 80,476 children) were treated. The total attendance was 481,917.

The Municipal Eye Hospital at Kamathipura is 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 29,230 and 82,724 as against 28,114 and 1,00,655 respectively during the previous year. The number of indoor patients amongst new cases and total attendance was 1,278 and 1,72,677 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 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 organisation, rendered honorary services at the Unit.

Ambulance Services.—Ambulances were stationed at the two Central places viz. one at the Municipal Maternity Home at Andheri on the West and the other at the dispensary at Rajawadi, Chatkopar on the East. The ambulances under the Fire Brigade also attended to medical, maternity and accident cases. The ambulances and hearses under Assistant Engineer (Transport) removed cases of infectious diseases and dead bodies respectively.

V.—HEALTH PROPAGANDA AND EDUCATION

The health propaganda and education were carried out through the Public Relations Department.

VI—MUNICIPAL LABORATORY

The Laboratory received 34,688 samples as against 32,570 in the preceding year. Categorywise, they arrange themselves into the following groups:—

I.—Chemical Examination

1. Food (i) P. F. A. Act	...	8,851
(ii) Other than P. F. A. Act.	...	1,208
2. Water samples.	...	1,414
3. General stores	...	337
4. Hospitals	...	128
5. Miscellaneous	...	569

		12,507

II.—Bacteriological Examination

1. Water (i) from Greater Bombay	...	20,351
(ii) From Bombay Port Trust area—	...	503
2. Disinfectants	...	22
3. Foods	...	1,300

		22,176

III.—Clinical examination

1. Urine	...	5
2. Blood— for general examinations:	...	—
3. Stools	...	—
4. Semen	...	...

		5

The water sampling programme continued as usual but sampling was done both in the morning and evening so as to collect the samples from all the wards.

The Municipal analyst attended courts in the City on several occasions to give evidence in 26 cases under the Prevention of Food Adulteration Act. The additional Public Analyst attended courts; on 4 occasions to give evidence in the cases under the Prevention of Food Adulteration Act, 1954.

Chemical

- (1) Samples of food-stuffs examined chemically were 10535. Of these 8851 were examined under the Prevention of Food Adulteration Act, 1954.
- (2) Of the 1414 samples of water examined, 51 well water samples and 211 water samples collected from other sources were found unfit for potable purposes.
- (3) 569 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.

Bacteriological

- (1) Of the 20687 samples of water from the Greater Bombay examined 130 well-water samples, and 5319 water samples collected from other sources were found unfit for potable purposes. From the Bombay Port Trust area, 503 samples were collected and 33 were found unfit for potable purposes.
- (2) 22 samples of disinfectants were examined to determine the Rideal-Walker Coefficient.
- (3) Out of 1300 samples of food-stuffs examined, 105 were found unfit for human consumption.

Clinical

- (1) All the 5 samples of urine were from Municipal institutions only and not from private parties.
- (2) No sample of miscellaneous nature such as stools semen, etc. was received for examination.

Kasturba Hospital for Infections 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 following honorary Physicians and Paediatrician continued to visit this hospital twice a week. (One post of Honorary Paediatrician was created during the year, to fulfil the condition of UNICEF for establishment of Paediatric teaching centre in communicable diseases).

- | | |
|--------------------------|--|
| (1) Dr. K. K. Datey, | ... B. A. M. D., M. R. C. P. (LOND.) F. A. C. C. (U.S.A.), D. T. M. & H. (Lond), D. C. H. (Eng.), F. A. M. S., F. T. C. A., F. C. C. (U.S.A.).
Retired due to superannuation from 7-8-1970. |
| (2) Dr. S. C. Sheth | ... M. D., F.R.C.P. (Lond.) F.A.Sc., F.C.P.S., D.C.H.
Honorary Paediatrician, retired due to superannuation from 29-10-1970. |
| (3) Dr. V. V. Shah | ... M.D. (Bom), F.R.C.P. (Lond), F.A.C.C. (U.S.A.), F.R.C.P. (Edin.), F.C.C.P. (U.S.A.), F.I.C.A., F.A.G.S. (U.S.A.) |
| (4) Dr. L. R. Patel, | ... M.D., M.R.C.P., F.C.P.S. |
| (5) Dr. A. F. Golwala, | ... M.D., F.C.P.S. from 14-9-1970. |
| (6) Dr. P. E. Bharucha, | ... M.D. (Lond.) D.C.H. (Lond.) Honorary Paediatrician from 1-2-1970. |
| (7) Dr. N. S. Tibriwala, | ... M.D., D.C.H. Honorary Paediatrician, from 29-10-1970. |

These physicians were continued to be helped by the following Assistant Physicians (Part-time) who attend this hospital daily.

- | | |
|--------------------------|---|
| (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.C.H., Appointed from 15-12-1969 as part-time Assistant Paediatrician. |

In addition to the Honorary Physicians and Assistant Physicians (part-time), the following consulting Honorary Staff was attached to the hospital.

- | | |
|----------------------------|---|
| (1) Dr. J. S. Shah, | ... M.S. Honorary Surgeon. |
| (2) Dr. L. H. Hiranandani, | ... F.R.C.S., D.L.R.O., F.C.P.S. Honorary E. N. T. Surgeon. |
| (3) Dr. J. V. D. Sa, | ... M.S., D.L.O., Honorary E. N. T. Surgeon. |
| (4) Dr. V. N. Purandare, | ... M.D., F.R.C.S., Honorary Obstetrician and Gynaecologist. |
| (5) Dr. K. V. Chaubal, | ... M.S., F.R.C.S. (Eng), M.C.H. Orth. (Liverpool), Honorary Orthopaedic Surgeon. |
| (6) Dr. C. A. Talwalkar, | ... M.S. Honorary Orthopaedic Surgeon. |
| (7) Dr. S. C. Desai, | ... M.D., Honorary Dermatologist and Venerologist. |
| (8) D. D. G. Mody, | ... M.B.B.S., D.O., Honorary Ophthalmic Surgeon. |
| (9) Dr. N. S. Vahia, | ... M.D., Honorary Psychiatrist. |
| (10) Dr. R. G. Ginde, | ... M.S., F.I.C.S., Honorary Neurosurgeon. |
| (11) Dr. Janak Mehta, | ... M.B.B.S., D.A. Honorary Anaesthetist. |
| (12) Dr. R. B. Raut, | ... L.D.Sc., Honorary Dental Surgeon. |
| (13) Dr. M. M. Mehta, | ... M.B.B.S., D.M.R.E., Honorary Radiologist. |

As the activities of X-Ray Department increased at this hospital, 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 looked after the work of Radiologist of this hospital.

Admissions

33673 patients suffering from various acute Infectious and communicable diseases except Tuberculosis and Leprosy were admitted to the Hospital as against 34023 during the previous year. They included 15 of smallpox, 2129 of Enteric Fever and 1694 of Diphtheria.

The daily average number of patients was 747. The fatality rate in the total admission was 2.6%.

Smallpox.—Of the 15 cases admitted to this hospital, 3 died giving a case fatality rate of 13.3 per cent. Excluding 1 death which occurred within 48 hours of admission of the cases in a moribund condition, the case fatality rate was 7.6 % only. February was the month for more admissions. This is the record year when the incidence of smallpox was minimum both as regards morbidity and mortality.

Diphtheria.—The total number of cases admitted during the year was 1694 excluding 10106 cases found negative on laboratory investigation. Of these, 113 proved fatal. The case fatality rate was 6.7% per cent. Excluding the 16 moribund cases that died within 48 hours of admission the case fatality rate was 0.9 per cent. The operation of tracheotomy was required to be performed at this hospital in 23 cases of Diphtheria with laryngeal obstruction, 7 of whom succumbed to the disease. There were 6 cases who were transferred from general hospital after tracheotomy was performed out of whom 5 expired. Cases admitted were from all parts of Greater Bombay, predominantly from Byculla, Parol, Lalbaug, Sweree, Matunga, Mahim, Sion H and K Wards.

Broad spectrum antibiotics viz. Erythromycin along with steroids particularly hydro-cortisone and Dexamethasone were administered in secondary laryngeal and Bull's neck variety of cases with severe toxæmia. These antibiotics and steroids helped to reduce the incidence of Tracheotomy operation and fatality rate of the disease which is mainly due to Myocarditis.

This highest incidence of the disease was in the age group of 2 to 5 years. The youngest patient admitted was a male child aged one month and the eldest patient was a male aged 46 years. Both were discharged cured.

At the immunization centre at the hospital premises for immunizing contacts and visitors against Infectious Diseases, 7789 were immunized against Diphtheria, 5191 were immunized against Enteric Fever, 5991 against Cholera and 22148 (382 primary and 21766 re-vaccinations) against Smallpox.

Enteric Fever.—Admissions numbered 2129 as against 967 during the previous year. All these cases were confirmed by widal Test in rising titre and / or by isolation of organisms from clot culture. There were 412 cases of para-typhoid and 1717 of typhoid.

August was the peak month of admissions.

Meningeal symptoms developed in 30 cases and 25 had a relapse. Signs of intestinal perforation and acute abdomen were detected in 21 cases which were transferred to the General Hospitals for further treatment.

27 cases proved fatal, giving a case fatality rate of 1.3%. There were 2 cases of deaths among the patients admitted in a moribund condition and died within 48 hours of admission.

The highest incidence of this disease was found in the age-group of 21 to 30 years. The youngest patient admitted was a male child aged 4 years and the eldest a female of 65 years. Both were discharged cured.

Cholera and Plague.—There was no incidence of Cholera and Plague.

C. S. Fever.—Four cases of C. S. Fever were admitted to the hospital and all were discharged cured. All were adult cases.

Interior Poliomyelitis.—205 cases of Poliomyelitis were admitted. 17 were of Bulbar variety, 181 of spinal variety and the rest 7 of spino-bulbar variety, 26 cases proved fatal, of whom 4 belonged to spinal variety, 17 to bulbar variety and 5 to spino-bulbar variety. 22 deaths occurred within 48 hours of admission brought in a moribund condition.

Whooping Cough.—46 cases were admitted for whooping cough, of whom 1 died due to Broncho pneumonia. Age-incidence varied from 3 to 5 years. Male children were predominant.

Infective Hepatitis.—2265 cases of Infective Hepatitis were admitted. Of these, 49 proved fatal. All deaths were due to hepatic coma. 22 were admitted in a moribund condition and died within 48 hours of admission.

Other diseases.—Of the 880 cases of Measles, 373 of Mumps and 1172 of Chickenpox admitted, 74 of Measles, 1 of mumps and 7 of Chickenpox proved fatal. Majority of the cases were from Children's Home, Convents, etc. The deaths were generally due to the complications of Broncho-Pneumonia and Encephalitis.

Research Work.

Fortnightly meetings with the Honorary Physicians, part-time Physicians and Pathologists were held in the Office of the Medical Superintendent to discuss the problems of Medical Relief work and data collected in research work. The following research work was carried out:—

1. Chemotherapy trials with drugs Co-1428 which were started in 1967 in cases of Smallpox were continued in 1970 with I. C. M. R. grants, who were pleased to bear the financial liabilities towards the expenses of the trials of the drugs against chickenpox cases for want of sufficient number of cases of smallpox.

2. The trial of a new drug "Trimonthoprin Cantanol" financed by M/s. Burroughs Wellcome & Co. Ltd. against Typhoid Carriers were continued in the months of October to December 1970 when the incidence of the disease was high and it is again proposed to continue the trial in the year 1971.

Paying beds.—The paying beds which were started in November 1966 were continued to be taken advantage of in large numbers by the members of the public.

Clinical Laboratory.—The number of investigations carried out in the Laboratory was 101910 and blood transfusion done were 77.

The Welfare Centre.—The Welfare Centre for the labour staff carried out its activities satisfactorily.

Teaching.—Instructions in Infectious Diseases were given to 838 M.B.B.S., G.F.A.M., B.A.M.S., Ayurvedic and Homoeopathic under graduates and 87 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 Bombay also received 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 B. Sc., Nursing College and Hurkisondas Hospital.

422 Interns were given training in Infectious Diseases. Members of the medical staff took advantage of the 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 services were stored in the Laboratory at this Hospital so that blood was available for transfusion at any time.

Joint Council Meeting of Nursing staff.—Joint council for nursing staff at Kasturba Hospital has been formed, consisting of 11 members of whom 5 from administration and 5 from the nursing staff and Labour Officer as ex-Officio under the rules to discuss general aspects and principles governing condition of services, etc. During the year, one meeting was held on 8-1-1970.

Nurses' Welfare Fund.—The total amount received during the year was nil (subscription from the members of the nursing staff nil, and donations—nil). The expenditure was Rs. 15/-. The balance at the credit of the fund at the end of the year was Rs. 2493.88.

Expenditure.—The total expenditure during the year was Rs. 63,84,834 as against Rs. 61,62,649 during the previous year.

VIII—VACCINATION

Thirteen cases of Smallpox occurred in Greater Bombay of which 2 proved fatal. The Greater Bombay was declared to be an area of compulsory protection from Smallpox throughout the year by the Government of Maharashtra, by issuing notification from time to time. The vaccination drive on mass scale was continued throughout the Greater Bombay. Ten supervising vaccinators and 130 vaccinators including 100 appointed on temporary basis, were posted for the purpose. They carried out mass vaccination by arranging temporary centres at the big establishments, such as mills, factories, schools, colleges, etc. with an excellent response.

15,80,620 vaccinations were performed including 2,03,220 primary and 13,77,400 re-vaccinations. Among the children primarily vaccinated, 171400 were Bombay born.

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 every day.

The results of the vaccination done were verified by inspecting the children brought to the Vaccination station on the 8th day of the Vaccination Operation.

21 certificates of postponement of vaccination were issued on the ground of ill health.

No case of complication due to vaccination was reported.

One hundred and forty-four medical students and 76 candidates in the Vaccination Course were imparted theoretical instructions and practical training in Vaccination.

As many as 4482 pilgrims proceeding to Haj were vaccinated and 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 1970

			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.	...	...	40,896	5,920	1,770	9,504
(9) Population	} Census of 1961	...	27,71,933	10,03,565	3,76,558	41,52,056
		} Mid-year estimated	...	30,09,600	18,75,300	8,15,100	57,00,000
(4) Total live births registered	...	...	79,384	57,706	24,222	1,61,312
(5) Birth rate per 1,000 population.	} Census of 1961	...	28.6	57.5	64.3	38.9
		} Mid-year estimated	...	26.4	30.8	29.7	28.3
(6) Total deaths	...	...	33,286	16,971	5,641	55,898
(7) Death rate per 1,000 population	} Census of 1961	...	12.0	16.9	14.9	13.5
		} Mid-year estimated	...	11.1	9.0	6.9	9.8
(8) Total deaths among infants (under 1 year)	...	...	7,036	4,457	1,501	12,994
(9) Infant deaths per 1,000 live births ...	...	...	88.6	77.2	61.9	80.6
(10) Maternal deaths	...	...	50	27	12	89
(11) Maternal death rate per 1,000 births (including still-births)	...	...	0.6	0.5	0.5	0.5
(12) Maternal death rate per 1,000 live births	...	...	0.6	0.5	0.5	0.6
(13) Still-births	...	...	2,692	2,140	699	5,531
(14) Plague	... Deaths	...	...	...	...	...
(15) Cholera	... Deaths	...	...	...	...	...
(16) Small-pox	} Deaths	...	2	...	...	2
		} Death-rate ...	...	0.0	...	0.0
(17) Influenza	} Deaths	...	...	...	...	...
		} Death-rate ...	...	...	...	...
(18) Tuberculosis	} Deaths	...	4,373	1,356	444	6,173
		} Death-rate	0.8	0.2	0.1
(19) Acute Anterior Poliomyelitis	} Deaths	...	22	13	1	36
		} Death-rate	0.0	0.0	0.0	0.0
(20) Diphtheria	} Deaths	...	76	25	10	111
		} Death-rate	0.0	0.0	0.0	0.0
(21) Typhoid	} Deaths	...	63	10	8	75
		} Death-rate	0.0	0.0	0.0

TABLE 1
METEOROLOGICAL DATA (Government Observatory, Colaba) LATITUDE 18°-54' NORTH LONGITUDE 72°-49' EAST.

Months 1970	WIND			TEMPERATURE (°C)						Mean Barometric Pressure (in Millibars)		Mean Relative Humidity (in percent).		RAIN FALL						
	Mean Direction		Mean wind speed in Km per hour at 0830 hours I.S.T.	Mean maximum temperature	Departure from normal	Highest in the month	Mean Minimum temperature	Departure from normal	Lowest in month	At 0830 hours I.S.T.	At 1730 hours I.S.T.	At 0830 hours I.S.T.	At 1730 hours I.S.T.	Total rain fall for the month (mms.)	Departure from normal (mms.)	Highest fall in one day		Minimum fall in one day		No. of rainy days
	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 31 E	N 39 W	7.4	29.1	+0.0	34.4	19.5	+0.1	17.0	1014.6	1011.7	74	59	0.7	-1.3	0.7	27	...	...	1
February	N 53 E	N 39 W	6.1	28.5	-1.0	30.4	20.0	-0.3	17.9	1013.9	1011.0	81	66	0.0	-1.1	...	...	...	...	...
March	N 45 E	N 36 W	7.2	30.1	-0.9	32.1	22.2	-0.5	20.2	1011.7	1008.6	79	65	0.0	-0.4	...	...	...	...	...
April	S 34 E	N 59 W	6.2	31.8	-0.5	33.2	25.2	+0.1	22.5	1010.7	1007.3	79	74	0.0	-2.8	...	...	...	...	...
May	N 75 W	N 72 W	6.7	33.1	-0.2	34.2	27.1	+0.2	24.8	1007.0	1004.2	74	71	28.7	+12.7	24.4	30	4.3	29	2
June	S 17 W	S 74 W	9.2	31.1	-0.8	33.2	25.5	-0.8	23.0	1004.7	1002.8	87	80	942.7	+422.4	288.8	17	0.2	28	21
July	S 83 W	S 84 W	16.0	30.4	+0.6	32.1	25.4	+0.3	23.3	1004.6	1003.2	86	80	548.9	-160.6	85.1	7	0.1	12	31
August	N 83 W	N 84 W	16.8	29.2	-0.3	31.2	24.6	-0.2	23.3	1004.8	1004.3	88	86	730.4	+291.1	201.5	19	0.6	25	31
September	S 39 W	N 87 W	7.6	29.8	-0.3	31.3	24.4	-0.3	23.3	1006.9	1004.5	88	79	310.7	+13.7	130.1	22	0.1	29	21
October	N 62 E	N 49 W	6.6	32.1	+0.2	35.1	24.8	+0.2	22.4	1010.3	1007.1	83	75	63.4	-24.6	24.2	7	0.2	8	6
November	N 51 E	N 38 W	10.0	33.0	-0.7	35.5	21.8	+1.0	20.0	1012.8	1009.6	66	63	0.0	-20.6	...	...	...	...	...
December	N 60 E	N 36 W	8.1	31.0	+0.1	34.5	19.0	-1.8	16.5	1014.4	1011.3	74	62	0.0 2625.5	-2.2	...	...	...	...	...

Total rain-fall during the year 2625.5 mms.

Departure from normal -526.3 mms.

Rainy day :- A day on which 0.1 Mm. or more of rain is recorded.

TABLE 2

METEOROLOGICAL DATA (GOVERNMENT OBSERVATORY SANTACRUZ)

LATITUDE: 19°-7' NORTH
LONGITUDE 72°-51' EAST

Months, 1969.	WIND.		TEMPERATURE. (°C)							MEAN BAROMETRIC PRESSURE (IN MILLIBARS) STATION LEVEL CORRECTED TO 285° _a ABSOLUTE		MEAN RELATIVE HUMIDITY (in %.)		RAINFALL. (m.-in.)						
	Mean Direction.		Mean Speed in Km. per hour at 08-30 hrs. I.S.T.	Mean maxi- mum temper- ature.	Depart- ure from normal.	Highest in the month.	Mean Mini- mum temper- ature	Depart- ure from normal.	Lowest in the month.	At 08-30 hrs. I.S.T.	At 17-30 hrs. I.S.T.	At 08-30 hrs. I.S.T.	At 17-30 hrs. I.S.T.	Total rainfall for the month (in Milli- meters)	Depart- ure from normal. (mms.)	Highest fall in one day.		Minimum fall in one day.		Number of rainy days.
	At 08-30 hrs. I.S.T.	At 17-30 hrs. I.S.T.														mms.	Date.	mms.	Date.	
January	N 37 E	N 46 W	6.1	30.9	+0.3	35.4	16.6	+0.3	13.0	1013.0	1010.0	64	48	Trace	-0.1	Trace	19	...	...	...
February	N 61 E	N 35 W	8.0	30.7	-0.9	33.8	17.8	+0.9	15.0	1012.3	1009.2	68	51	0.0	-0.9	...	...	...	...	...
March	N 9 E	N 52 W	9.8	31.7	-1.1	36.3	20.3	+0.1	17.3	1010.1	1006.7	66	51	0.0	-0.1	...	...	...	...	...
April	N 45 W	N 66 W	10.8	33.0	-0.3	35.1	24.3	+0.5	21.4	1009.1	1005.3	72	63	4.3	+3.9	4.3	16	...	...	01
May	W	N-79 W	12.6	33.6	+0.4	34.5	26.7	+0.5	23.4	1005.4	1002.2	72	69	39.0	+19.0	39.0	30	Trace	24	01
June	S 12 W	S 79 W	12.4	31.3	-0.4	35.2	25.5	-0.4	23.0	1003.0	1000.7	87	80	837.9	+190.4	194.0	16	Trace	1,10,22,22	20
July	S 4 W	S 77 W	17.7	30.1	+0.5	31.4	25.1	+0.3	23.5	1002.9	1001.4	88	82	549.0	-396.4	75.2	7	0.4	21	31
August	S 76 W	S 80 W	17.0	29.3	+0.2	31.3	24.4	+0.0	23.4	1003.0	1001.2	89	84	731.4	+71.0	116.2	20	0.8	25	31
September	S 22 W	S 88 W	11.1	29.7	-0.2	30.7	24.1	+0.2	23.2	1005.3	1002.8	87	78	271.2	-38.0	53.4	3	Trace	24	20
October	N 62 E	N 59 W	7.2	33.2	+0.8	35.8	23.4	+0.5	19.6	1008.6	1005.3	77	67	55.1	-61.9	18.6	9	Trace	12	6
November	N 61 E	N 42 W	7.8	33.7	+0.6	35.3	19.0	-0.8	15.7	1011.3	1008.0	46	48	0.0	-7.2	...	...	...	...	...
December	N 13 E	N 47 W	7.0	32.2	+0.1	34.2	15.7	-2.0	13.8	1012.8	1009.8	54	48	0.0	-0.9	...	...	...	...	...

Total rain-fall during the year.....2487.9 mms.

Departure from normal.....-221.2 mms.

Rainy day:-A day on which 0.1 m.m. or more of rainfall is recorded.

TABLE 3
VITAL STATISTICS (1900 TO 1970)

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	18.3
1920	19,731	20.1	45,839	46.8	10,896	552.2	427	21.6
1930	25,329	19.5	27,552	21.2	7,506	296.3	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
Greater Bombay—								
1960	1,07,383	23.7	40,484	8.9	10,221	95.2	155	1.4
1961	1,16,337	25.6	43,117	9.5	11,150	95.8	221	1.9
1962	1,21,305	26.7	39,551	8.7	10,195	83.2	233	1.9
1963	1,31,831	29.1	40,650	8.9	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	28.8	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

TABLE 4
BIRTH BY MONTHS 1969-1970

Year	MONTHS.												Total.
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
1969	11,758	10,009	10,582	11,278	10,445	12,937	13,674	13,022	14,567	17,071	14,737	19,491	1,59,571
1970	10,797	9,644	9,914	11,652	9,637	13,256	14,267	13,611	15,541	14,576	17,255	21,152	1,61,312

TABLE 5
PERCENTAGE TO THE TOTAL MORTALITY BY THE AGE PERIODS IN 1968, 1969 AND 1970.

Age period.	1968		1969		1970			Percentage to total mortality.
	Deaths	Percentage to total mortality.	Deaths	Percentage to total mortality.	Males.	Females.	Persons.	
Under one year ...	12,602	24.9	13,506	24.6	6,864	6,130	12,994	23.2
1 to 4 years ...	6,115	12.1	6,384	11.6	2,902	3,448	6,350	11.4
5 to 14 years ...	2,060	4.1	2,242	4.1	1,148	1,005	2,153	3.9
15 to 24 years ...	2,677	5.3	2,990	5.5	1,766	1,200	2,966	5.3
25 to 44 years ...	7,428	14.7	8,178	14.9	5,800	2,673	8,473	15.2
45 to 64 years ...	9,410	18.7	10,542	19.2	8,093	2,977	11,067	19.8
65 to 74 years ...	4,725	9.4	5,283	9.6	3,436	2,051	5,487	9.8
75 and over	5,422	10.8	5,706	10.5	2,997	3,411	6,408	11.4
Age unspecified	...	...	...	...	...	...	...	...
Total	50,439	100.00	54,831	100.00	33,003	22,895	55,898	100.00

TABLE 6.

Statement showing the No. of Live Births in each age group of Mothers by 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	...	12	9	21	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15-19	...	3,941	2,488	6,429	1,431	1,469	2,900	88	47	135	23	15	38	19	8	27	5	2	7	1	...	1
20-24	...	13,126	12,108	25,234	7,916	7,399	15,315	2,958	3,609	6,567	1,474	1,063	2,537	1,601	1,522	3,123	69	117	186	15	29	44
25-29	...	5,696	5,517	11,213	8,416	8,322	16,738	7,925	6,800	14,725	4,371	4,168	8,539	1,007	1,947	2,954	447	545	992	121	170	291
30-34	...	2,227	1,625	3,852	2,689	1,980	4,669	3,525	3,477	7,002	3,366	3,044	6,410	2,562	2,702	5,264	1,034	1,120	2,154	378	515	893
35-39	...	421	294	715	504	411	915	798	620	1,418	830	753	1,583	709	763	1,472	838	867	1,705	391	367	758
40-44	...	44	24	68	50	44	94	64	53	117	125	67	192	98	100	198	50	85	135	57	53	110
45 and over	...	7	7	14	10	7	17	16	6	22	12	8	20	14	13	27	18	14	32	6	9	15
Information not available.	...	127	76	203	139	92	231	144	77	221	68	53	121	43	39	82	46	15	61	9	20	29
Total	...	25,601	22,148	47,749	21,156	19,724	40,480	15,518	14,689	30,207	10,269	9,171	19,440	6,053	7,094	13,147	2,507	2,765	5,272	978	1,163	2,14

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	Person
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	13	9	22
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5,508	4,029	9,537
5	4	9	2	4	6	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	27,168	25,855	53,023
52	37	89	8	10	18	9	5	14	1	...	1	2	...	2	...	...	...	5	5	28,055	27,526	55,581	
141	157	298	64	59	123	24	16	40	7	8	15	3	2	5	13th 1	13th 1	2	4	6	10	16,025	14,712	30,737
301	329	630	169	145	314	86	79	165	19	9	28	5	5	10	13th 2	13th 2	5	2	...	2	5,07	4,644	9,720
58	61	119	28	33	61	20	16	36	14	8	22	5	3	8	...	13th 4	4	1	...	1	614	551	1,165
7	2	9	2	5	7	5	...	5	...	2	2	2	1	3	13th 1	...	1	18	16	34	118	90	208
5	5	10	4	2	6	...	3	3	1	2	3	1	...	1	...	...	...	169	179	348	756	563	1,319
569	595	1,164	277	258	535	144	199	263	42	29	71	18	11	29	5	7	12	196	206	402	83,333	77,979	1,61,312

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 ...	123	62	43	56	42	25	25	88	73	16	85	61	55	30	31	25	21	24	15	23	10	938
February ..	107	42	32	25	23	21	18	75	57	27	73	56	37	32	24	33	16	11	15	17	10	751
March ...	146	52	56	36	26	27	20	89	49	21	73	40	43	32	24	39	16	37	21	22	14	883
April ...	140	50	35	34	29	22	19	91	51	23	58	41	51	51	45	54	39	26	34	25	22	940
May ...	192	40	37	33	23	24	16	73	51	16	84	52	52	36	43	56	29	51	44	43	28	1,023
June ...	166	60	37	43	33	25	42	99	48	37	92	56	43	50	31	46	37	43	49	34	21	1,092
July ...	183	67	38	53	34	38	45	127	62	33	125	71	45	42	39	67	50	53	65	59	37	1,333
August ...	182	59	71	54	43	33	40	122	67	22	91	58	38	25	25	52	22	38	34	36	41	1,153
September.	232	87	56	62	37	46	40	166	92	47	123	73	47	51	29	34	32	29	34	22	18	1,357
October ...	203	72	48	50	31	24	24	144	79	39	92	62	32	20	19	40	19	17	25	24	25	1,089
November	171	77	66	61	48	35	27	153	85	34	118	92	49	28	26	27	33	28	22	24	20	1,225
December.	165	73	60	52	37	30	19	132	88	26	131	88	48	48	34	44	34	23	30	24	24	1,210
Total ...	2 015	741	579	559	406	351	335	1,359	802	341	1,145	750	541	445	370	517	348	330	388	353	270	12,924

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 (1965-9).
					25-44 years.	45-64 years.					
January	938	416	150	230	613	912	462	530	—	4291	4135
February	751	394	152	210	630	872	435	484	—	3928	4293
March	883	429	157	293	621	820	435	437	—	3935	4600
April	940	546	170	231	637	876	428	477	—	4305	4531
May	1023	573	191	240	600	877	387	528	—	4419	4408
June	1092	599	186	267	775	947	471	534	—	4871	4115
July	1333	694	221	250	759	1018	477	586	—	5338	4828
August	1153	557	150	248	683	801	420	504	—	4526	4706
September	1357	542	191	273	779	976	489	585	—	5192	4773
October	1089	439	165	254	676	830	410	504	—	4357	4490
November	1225	580	188	285	760	1007	481	603	—	5137	4050
December	1210	571	232	274	900	1129	592	631	—	5539	4415
Total	12974	6350	2153	2966	8473	11067	5487	6408	—	55898	53317

TABLE 9

DEATHS AND DEATH RATES FROM EPIDEMIC AND PRINCIPAL CAUSES

Causes of Death	Average of years (1955-59)		1969		1970	
	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate
<i>Principal Epidemic Diseases</i>						
Small-pox	506	0.1	25	0.0	2	0.0
Measles	287	0.1	201	0.0	242	0.0
Plague	—	—	—	—	—	—
Enteric Fever	83	0.0	78	0.0	75	0.0
Malarial Fever	—	—	—	—	—	—
Influenza	4	—	—	—	—	—
Cholera	—	—	—	—	—	—
Dysentery	276	0.1	328	0.1	493	0.1
Diphtheria	96	0.0	123	0.0	111	0.0
<i>Other Principal Diseases</i>						
Tuberculosis	3,959	0.8	5,554	1.0	6,773	1.1
Meningococcal Infection	1	0.0	2	—	2	0.0
Diseases of the Nervous System	1,477	0.3	1,682	0.3	1,607	0.3
Diseases of the Respiratory System	7,654	1.5	8,796	1.6	8,956	1.6
Diarrhoea and Enteritis	3,514	0.7	3,655	0.7	3,619	0.6
Puerperal State	131	0.0	102	0.0	89	0.0
Congenital Debility and Diseases of early Infancy.	4,732	0.9	5,821	1.0	5,422	0.9
Senility without mention of Psychosis	3,611	0.7	4,264	0.8	3,908	0.7
Violence	3,200	0.6	3,059	0.6	3,416	0.6
Other Causes	23,744	4.7	21,141	3.8	21,743	3.8
Total	53,337	10.5	54,831	9.9	55,878	9.8

TABLE—10
DEATHS BY MONTHS—1969-1970

Period.	MONTHS.												Total.
	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	
1969	4,422	3,833	4,447	4,404	4,510	4,495	5,394	5,041	4,740	4,841	3,947	4,751	54,831
1970	4,291	3,928	3,985	4,305	4,419	4,871	5,338	4,526	5,192	4,367	5,137	5,539	55,898

TABLE 12.

Deaths among infants from Principal Causes by Age-periods.

Age period	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	...	86	1	3,432	483	31	...	952	4,985	38.4
1 to 4 weeks	...	3	...	295	6	1,058	519	5	...	616	2,502	19.2
Total under 4 weeks	...	4	...	381	7	4,490	1,002	36	...	1,568	7,488	57.6
4 weeks to 6 months...	...	6	...	735	34	559	1,250	5	1	660	3,250	25.0
6 to 12 months	...	38	...	589	30	141	853	1	7	592	2,256	17.4
Total	...	48	...	1,705	71	5,190	3,110	42	8	2,820	12,974	100.0

TABLE 13

Infant Mortality from Principal Causes (1965-1970)

Causes of death	1965	1966	1967	1968	1969	1965 to 1969 (A)	1970 (B)	Difference between (A) & (B)
Poliomyelitis	...	6	23	6	36	8	16	8
Small-pox	...	229	31	174	8	4	89	...
Measles	...	196	39	137	22	33	85	48
Malarial-Fever
Diarrhoea and Enteritis	...	1,636	1,656	1,639	1,560	1,702	1,639	1,705
Dysentery	...	40	31	48	55	48	44	71
Congenital malformation and diseases of early infancy	...	5,877	5,317	5,225	5,188	5,380	5,397	5,190
Diseases of respiratory system	...	4,109	3,076	4,025	3,073	3,317	3,524	3,110
Convulsions	...	27	30	24	48	51	36	42
All causes	...	15,739	12,660	14,118	12,602	13,506	13,325	12,974

TABLE 14

Neonatal Death-Rates (1961-1970).

Year	Birth	Neonatal death	Rate
1961	...	1,15,337	5,087
1962	...	1,21,305	5,167
1963	...	1,31,831	5,788
1964	...	1,32,592	6,050
1965	...	1,41,781	6,740
1966	...	1,47,986	7,066
1967	...	1,53,230	7,195
1968	...	1,56,830	7,029
1969	...	1,59,571	7,521
1970	...	1,61,312	7,488

TABLE 15

Infant Deaths and other Deaths 1970.

Age Period	January	February	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Under one year.	938	751	883	940	1,023	1,092	1,333	1,153	1,357	1,039	1,225	1,200	12,694
One year and ... above.	3,353	3,177	3,102	3,365	3,396	3,779	4,075	3,373	3,835	3,278	3,912	4,329	42,904

TABLE 16
CASES OF NOTIFIABLE DISEASES REPORTED IN 1970.

Wards	Cholera	Small-pox	Plague	Enteric Fever	Diphtheria	Typhus	Puer-peral Fever	Tuber-culosis	Lep-rosy	Relaps-ing Fever	Influe-nza	Spinal Fever	Acute interior Polio-myelitis	Virus enceph-alitis	Scarlet Fever	Infective Hepatitis	Total
A	...	3	...	79	39	...	...	285	...	...	...	1	1	...	...	70	478
B	...	1	...	137	82	...	...	176	1	...	...	1	7	...	...	10	505
C	...	1	...	171	130	...	...	207	...	...	...	1	5	...	...	144	659
D	211	120	...	...	136	...	...	...	...	9	...	...	156	632
E	...	3	...	615	333	...	...	66	1	...	...	...	46	...	...	553	1,617
F	...	1	...	311	260	...	...	679	16	...	...	...	36	...	...	385	1,688
G	...	2	...	503	272	...	...	334	...	...	...	1	47	...	...	520	1,679
H	45	137	...	...	140	...	...	...	...	23	...	...	112	457
K	...	1	...	35	96	...	...	73	...	...	...	2	40	...	...	109	356
L	17	60	...	...	9	...	...	...	...	12	...	...	68	166
M	8	64	...	...	25	...	...	...	...	13	...	...	83	199
N	38	100	...	...	69	...	...	...	...	14	...	...	124	345
P	21	56	...	...	131	...	...	...	...	11	...	...	38	257
R	...	1	...	4	26	...	...	112	...	...	...	...	5	...	...	32	180
T	4	21	...	...	54	...	...	...	...	4	...	...	19	102
Total	...	13	...	2,200	1,796	...	...	2,496	18	...	...	6	273	...	...	2,518	9,320

TABLE 17
REPORTED DIPHTHERIA CASES BY MONTHS IN 1970

Disease	MONTHS												Total
	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Diphtheria	151	125	128	127	123	107	157	160	183	179	164	192	1,796

TABLE 18
REPORTED CASES OF ENTERIC FEVER BY MONTHS IN 1970

Disease	MONTHS												Total
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Enteric Fever	95	21	4	13	151	197	299	350	435	203	148	258	2,200

TABLE 19

TUBERCULOSIS—DEATH-RATE

Period	Annual Death-rate		
	Pulmonary	Other forms	All forms
1965-1969 (Average).	0.8	0.1	0.9
1965	0.7	0.2	0.9
1966	0.7	0.2	0.9
1967	0.9	0.1	1.1
1968	0.8	0.1	0.9
1969	0.8	0.1	1.0
1970	1.0	0.1	1.1

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
1969	4,793	761	5,554	3,774	1,780	10
1970	5,490	83	6,173	4,307	1,866	11

TABLE 21

WARD WISE MALARIA POSITIVE CASES WITH THE SPECIES AND CLASSIFICATION

Ward	No. of positive cases	Malaria Parasitics				Classification		
		V	F	M	mixed	Imported	Indigenous	Un-traced.
A	81	36	43	...	2	28	45	8
B	1	1	...	...	...	1	...	...
C	5	4	1	...	...	3	...	2
D	7	7	...	...	...	4	1	2
E	26	21	4	...	1	17	3	6
F	18	17	1	...	...	4	9	5
G	31	31	...	...	...	21	7	3
H	21	21	...	...	...	10	6	5
K	12	10	2	...	...	4	6	2
L	8	8	...	...	...	5	3	...
M	14	11	2	...	1	10	2	2
N	21	20	1	...	...	7	8	6
P	8	7	1	...	...	5	2	1
R	18	18	...	...	...	8	8	2
T	17	16	1	...	...	5	7	5
Total	288	228	56	...	4	132	107	49

Abbreviations used:—V—Vivax. F—Falciparum. M—Malaria.

TABLE No. 22

NATIONAL MALARIA ERADICATION PROGRAMME

Annual Report for the year 1970

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					Remarks
			Collected	Examined	Broken		V.	M.	F.	Mixed	Complete	Partial	Induced	Imported	Relapse	Indigenous	Not treated	
1	2	3	4	5		7	8	9	10	11	12	13	14	15	16	17	18	19
Active City	1,817	1,817	1,770	1,770	...	48	22	...	25	1	47	1	...	14	...	32	2	Untraced
Suburbs	28,445	28,445	28,403	28,403	...	9	8	...	1	...	9	...	...	4	...	4	1	do.
Extended Suburbs	10,115	10,115	10,045	10,045	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	41,427	41,427	41,188	41,188	...	57	30	...	26	1	56	1	...	18	...	36	3	
Passive City	1,03,208	1,03,203	1,03,208	1,03,208	...	102	88	...	12	2	97	5	...	55	...	21	26	Untraced
Suburbs	72,719	72,719	72,719	72,719	...	75	69	...	5	1	75	...	...	34	...	24	17	do.
Extended Suburbs	24,281	24,281	24,281	24,281	...	18	17	...	1	...	18	...	...	10	...	6	2	do.
Total	2,00,208	2,00,208	2,00,208	2,00,208	...	195	174	...	18	3	190	5	...	99	...	51	45	
Mass City	22	22	67,120	67,110	...	22	10	...	12	...	22	...	...	6	...	16	...	
Suburbs	7	7	70,074	70,074	...	7	7	...	...	...	7	...	...	7	...	...	...
Extended Suburbs	7	7	23,969	23,969	...	7	6	...	1	...	7	...	...	2	...	4	1	Untraced
Total	36	36	1,61,163	1,61,163	...	36	23	...	13	...	36	...	...	15	...	20	1	

TABLE 23

New cases and total attendance at all the Municipal free General Dispensaries and the Mobile Dispensary Units in Greater Bombay during 1970.

Description of Disease	Total Attendance
I.—Ailmentary System :	
(a) Diarrhoea	1,84,206
(b) Dysentery	69,470
(c) Dyspepsia	97,135
(d) Helminthiasis	43,856
(e) Liver-Jaundice	15,976
II.—Circulation System :	
(a) Heart	1,526
(b) Blood Vessel	821
(c) Blood Pressure	12,052
III.—Exanthemats :	
(a) Chickenpox	619
(b) Measles	2,802
(c) Smallpox	...
IV.—Fever :	
(a) Fevers not defined	2,10,952
(b) Malaria	...
V.—Injuries and Accidents :	
...	49,821
VI.—Nutrition :	
(a) Avitaminosis	47,306
VII.—Nervous System :	
(a) Neuritis	12,266
(b) Sciatica	6,510
(c) Tremors	1,530
VIII.—Respiratory System :	
(a) Bronchitis	3,21,125
(b) Bronchopneumonia	278,26
(c) Common Cold	1,67,201
(d) Influenza (Non-epidemic)	22,813
(e) Laryngitis	9,126
(f) Pharyngitis	28,349
(g) Pneumonia	3,811
(h) Tonsillitis	43,578
(i) Whooping Cough	5,929
IX.—Skin and Appendices :	
(a) Diseases of Skin	...
(i) Herpes	18,519
(ii) Ringworm	50,127
(iii) Scabies	62,811
X.—Special Organs :	
(a) Eyes	...
(i) Conjunctivitis	48,164
(ii) Corner Ulcer	1,531
(iii) Foreign body in Eye	4,251
(iv) Iritis	3,820
(v) Ophthalmia	14,221
(vi) Spring Catarrh	3,102
(b) Ears (i) Diseases of ears	5,229
(c) Nose (i) Diseases of nose	5,179
(d) Teeth (i) Diseases of teeth	33,218
XI.—Surgical Ailments :	
(a) Injuries	82,113
(b) Minor Surgical Operations	1,161
(c) Ulcers	1,41,975

TABLE 23—(Contd.).

Description of Disease	Total Attendance
XII.—Genito Urinary :	
(a) Nephritis	10,319
(b) Pyelitis	3,381
(c) Gravel (stones)	1,369
XIII.—All other Diseases :	
(a) Specific	
(i) Anaemia	46,347
(ii) Mumps	8,721
(iii) Tuberculosis	16,821
(iv) Venereal Diseases	4,454
(v) Diabetes	853
(b) Non-specific :	
(i) Fistula in Ano	571
(ii) Gingivitis	4,806
(iii) Migraine	6,437
(iv) Piles	6,023
(v) Sprains	6,292
(vi) Stomatitis	34,217
(vii) Varicose Veins	9,826
(viii) A. N. C.	1,965
(ix) P. N. C.	2,143
(x) Other Causes	2,09,357
Total New Cases	23,68,630
Male (New Cases)	12,45,738
Female (New Cases)	11,22,892
Total Attendance	92,93,652

TABLE 24

Total confinements in Institutions in the City doing maternity work, during the year 1970.

Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements.	Deaths among mothers during their stay in Homes.	
A—WARD				
1 Cama and Aibless Hospital, Mahapalika Marg, Bombay 1 (23-11-1893)	...	163	4,527	7
2 St. George's Hospital, near V. T. Bombay No. 1 (1889)	...	38	1,220	3
3 Indian Naval Hospital, S. S. Aswini, Colaba, Bombay 5 (October 1951)	...	34	777	1
4 Treatment and Family Planning Centre, Madame Cama Road, Bombay, 1 (1970)	...	3	34	Nil.
5 Parsi Lying-in-hospital, Outram Road, Bombay 1 (1895)	...	35	242	Nil.
6 Dr. Trivedi's Maternity and Nursing Home, 67, Netaji Subhash Road, Bombay 1 (1939).	...	5	10	Nil.
7 Godfrey Clinic, 79, Dadabhai Navroji Road, Off J. J. Schools of Arts, (1-4-1944)	...	14	103	Nil.
8 Marine Hospital and Maternity Home, 5 New Marine Lines, Bombay 1 (1-12-1947)...	...	3	2	Nil.
9 Dr. Bacha's Memorial Belle-vue Nursing Home, La Citadella, Queen's Road Marine Lines (1911)	...	29	52	Nil.
10 Bombay Hospital, 12 Marine Lines, Bombay 1 (May 1950)	...	26	600	Nil.
11 Dr. M. S. Shah's Maternity and General Hospital, Marine Drive, Bombay 1 (1952)	...	8	62	Nil.
12 Colaba Maternity Home, 3rd Pasta Lane, Colaba (1-1-1948)	...	4	32	Nil.
13 Northcoast Nursing Home, Orminstone Road near Taj Mahal Hotel, Colaba (1949)		24	Nil
14 Dr. Shethi's Maternity & Surgical Home, 3 Cuff Parade, Bombay 5 (10-7-1966)	...	6	61	Nil.
15 Dr. Adatia's Nursing and Maternity Home and Gynac. Hospital, 278, D. N. Road, Bombay 1 (1-10-1957).	...	6	119	Nil.
16 Strand Maternity and Gynac. Surgery near Strand Cinema, Bombay 5 (October 1965)...	...	7	58	Nil.
17 Niagara Clinic, 128, Wodhouse Road, Colaba, Bombay 5 (18-11-1962)	...	8	57	Nil.
18 Khatau Makanji Maternity and Surgical Hospital, 65, Bazar Gate Street, Bombay 1 (1919)	...	25	203	Nil.
A Ward—Total	...	414	8,183	11
B—WARD				
1 Sabu Siddik Maternity Home, 27, Imamwada Road, Bombay 9	...	19	1655	Nil.
2 Laxmibai Maternity Hospital, 96, D'Souza Street, Wadgadi, Bombay 3 (1908)	...	30	457	...
3 Dhanlaxmi Maternity Home, 156-158 Samuel Street, Bombay 9 (1952)	...	16	177	Nil.
4 H. A. N. Dholkawala Maternity Home, Mohamedali Road, Bombay 3 (1929)	...	27	552	Nil.
5 Haji Karim Mohamed Suleman Maternity Home, 178-188, Kambekar Street, Bombay 3 (1927)	...	12	380	Nil.
6 Bai Sakinabai Musabhai Jafaribhai Khoja Maternity Hospital, 2 Nishanpada Cross Lane Bombay 9 (1918)	...	18	193	Nil.
7 Rahimatbai Maternity Home, Habib Hospital, Jail Road, Dongri, Bombay 9. (27-4-1937)	...	20	383	1
8 Noor Hospital, 49, Mohamedali Road, Bombay 3 (20-1-1953)	...	72	1,357	8
9 Vijayalaxmi Maternity Home, Tej Kiran, Naoroji Hill Road No. 5, Bombay 9 (28-3-1960)	...	8	160	Nil.
10 Mandvi Maternity Home, 6 Kesavji Naik Road, Bombay 9 (1948)	...	9	50	1
B Ward Total	...	231	5,374	10
C—WARD				
1 Seth Gordhandas Ranchhoddas Bhagat Maternity Hospital 261-271, Kalbadevi Road, Bombay 2 (1928)	...	45	505	Nil.
2 Women's Clinic, 345-349, Girgaum Road, Thakurdwar, Bombay 2 (23-7-1936)	...	15	326	Nil.
3 Dr. Saibai's Maternity Hospital, 190, Princess Street Bombay 2 (1-5-1935)	...	12	237	1
4 Ratubhai's Hospital, Jai Hind Estate 2, Bhuleshwar, Bombay 2 (31-5-1939)	...	35	562	Nil.
5 General and Maternity Hospital, Jai Hind Building, Bhuleshwar, Bombay 2 (11-11-1948)	...	75	341	Nil.
6 Dr. C. L. Zaveri's Hospital, for Women, Jai Hind Estate 2 do. do.	...	15	407	Nil.
7 Dr. Bhat's Hospitals 7, 2nd Khatar Gully, Thakurdwar Road, Bombay 2 (22-7-1951)	...	10	47	Nil.
8 Dr. Irani's Hospital, Kerawala Mansion, Carnac Road, Bombay 2 (1947)	...	2	12	Nil.
C Ward—Total	...	209	2,37	1

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. ...	12	837	Nil.
2	The Bomanji Denshaw Petit Parsi General Hospital (1912) ...	35	229	Nil.
3	Bhatin General Hospital, Tardeo Road, (8-5-1934) ...	16	643	1
4	Dr. Karande Maternity & Surgical Hospital, Hughes Road, Bombay 7 (April 1929) ...	12	177	Nil.
5	Dr. D'Sa's Hospital, 15, Dadi eth Lane, Chawpaty, Bombay 7 (1910) ...	12	206	Nil.
6	Dr. Ajit Mehta's Hospital for Women, 6-A, 2nd Dadisheth Road, Bombay 7, (1-4-1924)	16	301	Nil.
7	Dr. (Mrs.) Vijaykar's Maternity & Surgical Hospital, 139-B, Chandra Terrace, Khadilkar Road, (1-4-1955)	10	126	Nil.
8	Dr. B. D. Patwardhan Maternity and Gynac. Hospital, Phadke Wadi, Ganpati Temple, V. P. Road. (11-11-1931) ...	12	146	Nil.
9	Chawpaty Maternity & Gynac Hospital, 31-C, Sea-Face, Chowpaty, Bombay (December 1911)	78	963	1
10	Dr. Wadia's Nursing Home, French Bridge, Bombay 7, (April 1938) ...	6	14	Nil.
11	Kanchangauri Maternity Hospital, Bhajekar Street, (27-7-1926) ...	47	517	Nil.
12	Brahman Sabha Mhaskar Maternity Home, 9 Benam Hall Lane, Girgaum, Bombay 4 (1-2-1932)	20	333	Nil.
13	New Hospital for Women, Mama Parmanand Marg, Bombay 4 (1-5-1933) ...	30	600	Nil.
14	Dr. Kumud Mehta Hospital, Poly Clinic, 20 Mama Parmanand Road, Bombay 4 (10-10-1929)	10	50	Nil.
15	Ruxmani Hindu Lying-in-Hospital, Babulnath Road, Chowpaty, Bombay 7, (1920)	30	257	Nil.
16	Dr. Harkisandas Narottamdas Hospital, New Charni Road, Bombay 4. (6-1-1928) ...	36	1330	2
17	St. Elizabeth Nursing Home, J. M. Meht Road, Malabar Hill, Bombay 6 (31-8-1922)	20	657	Nil.
18	Women's Clinic (Dr. Pagnis) 61, Na'ayan Niwas J. J. S. Road, Bombay 4 (1957) ...	8	117	Nil.
19	Dr. (Mrs.) Kashibai Sathé's Maternity Home, J. S. Road, Bombay 4 (November 1938)	10	65	Nil.
20	Shirodkar Clinic Pvt. Ltd. 95, August Kranti Marg, Bombay 26. (1938) ...	10	145	Nil.
21	Dr. Amankar Hospital, 534, Sandhurst Bridge, Bombay 4 9-8-1953) ...	18	159	Nil.
22	Dr. (Miss) Shirin G. Patel, Nursing Home for Women, Chowpaty Sea face (26-5-1940)	12	169	Nil.
23	Dr. K. C. Shah's Maternity Hospital Khetwadi Main Road, Bombay 4 (1-11-1942) ...	6	4	Nil.
24	Seth Chaganlal Walchand Jain Hospital Marine Mansion, Chowpaty, Bombay 7. (15-6-1945)	17	406	Nil.
25	Ideal Nursing Home, Khetwadi, 12th Lane, Bombay 4 (28-10-1952) ...	8	110	Nil.
26	Himani Clinic, 17 Mathew Road, Bombay 4 (22-8-1948) ...	3	Nil.	Nil.
27	The Beach Candy Hospital & Nursing Home, 60, Bhulabhai Desai Road, Bombay 26 (1-1-1952)	14	317	1
28	Lamington Maternity Surgical Hospital, Girdhar Bhuvan, 415, Lamington Road, Bombay 4 (September 1950)	17	26	Nil.
29	Modern Hospital for Women, 6, Dr. Wilson's Street, Bombay 4 (11-2-1951) ...	11	422	Nil.
30	Dr. Irani's Maternity and Nursing Home, 70B August Kranti Marg, Bombay 26 (17-6-1967)	10	39	Nil.
31	Mitry Hospital, 47, Cannady Bridge, Bombay 4 (1953) ...	12	170	Nil.
32	Dr. Pratap's Maternity Hospital & Nursing Home, 104 Charni Road, Bombay 4 (18-1-1953)	6	46	Nil.
33	Dr. Padma Mehta's Nursing Home, Sandhurst Bridge, Bombay 7 (1952) ...	12	142	Nil.
34	Dr. Premalata S. Pai's Maternity Home, Tatyia Charpure Path, Bombay 4, (2-12-1951)	25	379	Nil.
35	Dr. O. J. Shah's Hospital. Opera House, Bombay 4 (1-1-1951) ...	15	300	Nil.
36	Dr. Wagal Maternity Home, 276B, Surya Mahal, Thakurdwar, Bombay 4 (1-12-1957)	12	191	Nil.
37	Saifee Hospital, 15-17, Queen's Road, Bombay 4 (October 1957) ...	14	325	Nil.
38	Dr. Khandwala Maternity & Gynac. Hospital Prarthana Samaj, Bombay 4. (November 1959)	10	84	Nil.
39	Ajinkya Hospital, Hughes Road, Bombay 7 (February 1952) ...	20	245	Nil.
40	Queen's Road Maternity & Surgical Nursing Home, Queen's Road, Bombay 4. ...	13	288	Nil.
41	Dr. Bhaskar Patel Nursing Home & Mastani Clinic, New Queen's Road, Bombay 4 ...	13	2	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.
42	Malabar Hill Clinic, Manav Mandir Road, Bombay 6. (26-2-1966)	6	38	Nil.
43	Dr. Tara Ramrao Maternity Home, 377, V. P. Road, Bombay 4. (26-1-1965)	5	84	Nil.
44	Maternity & Nursing Home, Tilak Nagar, V. P. Road, Bombay 4.	11	102	Nil.
45	Ayurvedic Hospital, 87, Mughbhat Street, Bombay 4. (1947)	20	140	Nil.
46	Dr. (Mrs.) Vimal Parikh, Dream Land, 25, Mama Parmanand Marg, Bombay 4. (Oct. 1961)	4	23	Nil.
47	Dr. N. K. Shah Maternity & Surgical Home, Sadguru Sadan, 15, Babulnath Road, Bombay 7. May 1963	26	183	Nil.
48	Shridhar Clinic, Pvt. Ltd., 97 95, August Kranti Marg, Bombay, 26. (1858)	22	115	Nil.
49	Dr. (Miss) N. S. Zaveri Maternity & Gynac. Hospital, 273, New Charni Road. (11-4-1945)	7	25	Nil.
50	Dr. Mangeshkar Clinic, Madhav Niwas, 8 Laburnam Road, Bombay 7. (1964)	21	30	Nil.
51	Ajinkya General Nursing Home, 264, Charni Road, Bombay 4 (15-8-1966)	30	32	Nil.
52	Swastik Nursing Home, Mani Bhuwan, Chowpaty, Bombay 7 (17-11-1968)	5	8	Nil.
53	Janakee Nursing Home, Tardeo, Bombay 34 (19-2-1967)	14	113	Nil.
54	Charak Clinic, Queen's Road, Bombay 4.	...	Nil.	Nil.
55	Dr. T. P. Shah's Hospital, 534, Sandhurst Bridge, Bombay 7. 1964	12	85	Nil.
56	Mother and Child Hospital, Gita, Pandita Ramabai Road, Bombay 7 (23-10-1966).	20	75	1
57	Sodha Nursing and Maternity Home, 31, Babulnath Road, Bombay, 7. (1-4-1970)	12	22	Nil.
D Ward—Total		807	11,867	6

E—WARD

1	Municipal Maternity Home, 252, Bellasis Road, Byculla, Bombay 8 (1915)	37	1 919	Nil.
2	Kamrar Khanum Municipal Maternity Home, Victoria Road 3rd Cross Lane, Byculla (19-12-1926)	37	2,480	Nil.
3	Kamathipura Maternity Home, Kamathipura, 13th Lane, Bombay 8. (2-4-1968)	100	2,267	Nil.
4	Kasturba Hospital, Sane Guruji Marg, Bombay, 11 (12-3-1892)	Nil.	47	Nil.
5	B. Y. L. Nair Charitable Hospital, Dr. A. L. Nair Road, Bombay 8. (1925)	55	2,453	20
6	Central Railway Hospital, Opp. Victoria Garden, Byculla, Bombay 27. (16-4-1968)	26	834	3
7	Engnee Maternity Home, 10 Victoria Road, Byculla, Bombay 27 (1924)	10	179	Nil.
8	Masina Hospital, 125, Victoria Road, Byculla, Bombay 27 (1902)	30	340	Nil.
9	Bai Motlibai & Petit Hospital, Bombay 8 (1892)	76	2,558	7
10	Central Hospital & Nursing Home, Bellasis Road, Bombay 8 (1952)	3	31	Nil.
11	Ismail General Hospital, Nesbit Road, Aga Hall, Bombay 10. (25-0-1945)	10	90	Nil.
12	Jagjivanram Hospital, Club Road, Byculla, Bombay 8 (June 1960)	12	509	2
13	Dr. Vaidy's Hospital, 75, B. A. Road, Bombay 33. (1959)	3	8	Nil.
14	Ganga Surgical & Maternity Hospital, Rajput Building Opp. Dockyard Rly. Station, Bombay 10. (1-5-1965)	5	21	Nil.
15	Byculla Nursing Home, 47, Dr. A. L. Road, Bombay 8.	15	484	...
16	Sheth Maternity & Gynaec Nursing Home, Navjivan Co-operative Housing Society, Lamington Road, Bombay 8 (12-10-1967).	10	182	Nil.
17	Matri-chaya Hospital, Lamington Road, Bombay 7 (1-1-1968).	9	42	Nil.
18	Dr. T. W. Sequeira's Maternity Hospital, Mazgeon, Bombay, 10. (January 1935)	8	200	Nil.
19	Atul Hospital, Bharat Nagar, Grant Road, Bombay, 7.	4	7	Nil.
E Ward—Total		40	14,651	30

F - WARD/North

1	Lokmanya Tilak Municipal General Hospital, Sion, Bombay, 22. (24-1-1947)	72	6616	41
2	Colony Nursing Home, 216-A, Sir Bhalchandra Road, Bombay, 19 (1935)	3	2	Nil.
3	Matunga Clinic, 241-D, Dr. Ambedkar Road, Bombay, 19 (1930)	10	120	Nil.
4	Dr. Dandekar's Trust Hospital, Bhoj Mahal, Dr. Ambedkar Road, Matunga (Oct. 1937)	7	120	Nil.
5	Divekar Charity Trust Hospital, King's Circle, Bombay, 19 (1932)	8	240	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.
6	Dr. Karunakaran Hospital, 477, Edenwala Road, Matunga, (1942) ...	6	152	Nil.
7	Matunga Nursing and Maternity Home, Matunga, (14-2-1955) ...	7	47	Nil.
8	Surgical and Maternity Hospital, 350, Chandavarkar Road, Matunga, Bombay, 19 (21-9-1947) ...	10	190	Nil.
9	Family Nursing and Maternity Home, 64-A, Matunga, Bombay, 19. (1946) ...	10	345	1
10	Swastik Maternity Home, 134, Khareghat Road, Hindu Colony, Dadar, Bombay, 14 ...	5	17	Nil.
11	R. V. Ayurvedic Hospital, Sion, Bombay 22 (6-4-1948) ...	22	140	Nil.
12	Modern Nursing Home, 60, D. M. Road, Dadar, Bombay 14. (1952) ...	3	23	Nil.
13	Wadala Maternity Home & General Hospital, 193, Station Road, Bombay 31 (30-9-1952) ...	4	2	Nil.
14	Laxmi Maternity Home, 4, Shradhanand Road, Matunga (May 1954) ...	8	182	Nil.
15	Dr. D. Sitalaxmi's Maternity & Nursing Home, 239A, Sion Road, Bombay 22 (August 1954) ...	10	226	Nil.
16	Dr. (Mrs.) Kamala Doshi's Hospital, Gujra Society, Sion, Bombay 22 (15-3-1950) ...	10	119	Nil.
17	Matunga Nursing Home for Women, 590, Vincent Road, Matunga, Bombay 19 (16-7-1951) ...	14	75	Nil.
18	Talwalkar Nursing Home & Maternity Home, 153, Hindu Colony, Matunga, Bombay 19 (1-5-1951) ...	3	27	Nil.
19	Dr. Mulla's Clinic, 603, Jame-jamshed Road, Matunga, Bombay 19 (1952) ...	6	50	Nil.
20	S. D. Bhavanani Nursing Home, Sion, Bombay 22 (17-5-1953) ...	25	700	Nil.
21	Dr. Pai's Hospital, 154 Hindu Colony, Dadar, Bombay 14 (17-10-1934) ...	18	393	Nil.
22	Dr. Merchant's Hospital, Sion, Bombay 22 (June 195) ...	25	298	Nil.
23	Sobti Nursing Home, King's Circle, Bombay 19 (15-8-195) ...	6	105	Nil.
24	Dr. Cadre's Surgical & Maternity Hospital, Sion, Bombay 22 (Nov. 1958) ...	8	80	Nil.
25	Wadala Maternity & Surgical Nursing Home, 82 R-A, Kidwai Road, Bombay 31 (8-12-1964) ...	17	371	Nil.
26	Mata Laxmi Hospital, 218 Sion East, Bombay 22. (December 1957) ...	4	32	Nil.
27	Chars Obstetrical & Gynac. Hospital 153, Road No. 9, Wadala, Bombay 31. (April 1962) ...	15	154	Nil.
28	Dr. Telang Maternity & Nursing Home, 200A, Ambedkar Road, Dadar, Bombay 14 (2-1-1965) ...	4	43	Nil.
29	Dr. Abhyankar's Maternity & Surgical Hospital Sion East, Bombay 22 (Nov. 1957) ...	7	211	Nil.
30	Shobha Maternity Hospital, 171, Vijay Niwas, R. A. Kidwai Road, Bombay 31 (3-2-1963). ...	8	79	Nil.
31	Aswini Maternity and Surgical and Nursing Home, 5, Ruparel Apartments, Dadar, Bombay 14 (13-10-1969). ...	6	94	Nil.
32	Rotunda Nursing Home, 262, Wadala, Bombay 31 (9-2-1964). ...	6	92	Nil.
33	Dr. Thakar's Maternity Home, 405, Telang Road, Keshav Kunj, Matunga, Bombay 19 (4-5-1969). ...	6	38	Nil.
34	Dr. Khandeparkar Nursing Home, 151, Sir, Bhalchandra Road, Dadar, Bombay. (4-11-1963) ...	4	80	Nil.
35	Dr. Parchure's Maternity Home, 159, Ganesh Prasad, Sir Bhalchandra Road, Bombay 14 (January 1968). ...	2	16	Nil.
36	Port Trust Hospital, Wadala, Bombay, 31 (1970) ...	25	507	Nil.
37	Dr. Cadre's Hospital, Shobhana, 51, Sion West, Bombay, 22 (1958) ...	8	117	Nil.
38	Sion Poly-clinic and Hospital, Krishna Bhuwan, Sion West, Bombay. (1-1-1970) ...	4	15	Nil.
F/North Ward—Total ...		416	12,118	42
F/SOUTH WARD				
1	Naigaum Municipal Maternity Home, Naigaum, Bombay, 14. (2-10-1958) ...	35	2090	Nil.
2	K. E. M. Hospital, Parel, Bombay, 12. (Maternity Ward opened on 1-12-1959) ...	176	4558	19
3	The Mahatma Gandhi Memorial Hospital, Government Gate Road, Parel, Bombay, 12 (8-12-1964). ...	17	371	Nil.
4	Nawroji Wadia Maternity Hospital, King Edward Road, Parel, Bombay, 12. (13-12-1926) ...	183	8777	14
5	Dr. Cadre's Nursing and Maternity Hospital, 1a0, Keni Road, Dadar, Bombay, 14. (1940). ...	18	259	Nil.
6	Desai Memorial Laxmi Lying-in-Hospital and Nursing Home, 94, Hospital Avenue, Parel, Bombay, 12. (June, 1938). ...	16	250	1
7	Rukmini Maternity Hospital, 7, Aimai Merwanji Road, Parel, Bombay, 12. (1-1-1933) ...	30	445	Nil.
8	Nursing Home and Eye Clinic, Dadar, Bombay, 14. (15-12-1946) ...	8	136	Nil.
9	Indian Airforce Child Welfare Centre, 22 E-D, Cotton Green, Bombay. (26-1-1953) ...	Nil.	20	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.
10	Sobti Hospital, 66, Jyotiba Phule Road, Naiagum, Bombay 14. (1960)	11	55	1
11	Dr. R. D. Desai's Maternity and Surgical Home, Krishna Chhaya, Parel, Bombay, 12 (12-6-1966)	18	340	Nil.
12	Calcutta Nursing Home, Sita Niwas, Opp. Central Railway workshop, B. A. Road, Parel, Bombay, 12. (1926)	1	Nil.	Nil.
13	Family Wing, C. M. Welfare Centre, Cotton Green, Bombay, 32.	6	Nil.	Nil.
14	Shantayee Nursing Home, Dadasaheb Phalke Road, Dadar, Bombay 14 (1-4-1970)	10	23	Nil.
F/South Ward—Total		526	17,324	35
G/NORTH—WARD				
1	Municipal Maternity Home, Lieut. Dilip Gupte Marg, Opp. Shri Cinema, Mahim, Bombay, 16. (9-5-1970)	42	997	Nil.
2	Laxmi Maternity Home, D. L. Vaidya Road Dadar, Bombay 28. (9-10-1929)	15	183	Nil.
3	Sadguru Maternity Home, Chhabildas Road, Dadar Bombay 28 (8-5-1932.)	15	145	Nil.
4	Jankibai Maternity Home 64, S. K. Bole Road, Dadar, Bombay 28 (1-4-1936)	7	29	Nil.
5	Dr. Narvane's Surgical & Maternity Home, Shivaji Park, Dadar. (4-10-1938)	14	17	Nil.
6	Dr. Purandare's Maternity Hospital, 114, Shivaji Park, Bombay 28.	15	160	Nil.
7	Vijay Clinic, Shivaji Park, Dadar, Bombay. (1936)	4	1	Nil.
8	National Hospital, 89, F. S. V. Savarkar Road, Mahim, Bombay 16 (10-12-1951)	20	313	Nil.
9	Dadar Surgical & Maternity Hospital Prajapati Bhuvan, Gokhale Road, Bombay 28 ... (November 36).	10	157	Nil.
10	Dr. Pinto's Hospital, Portuguese Church Street, Dadar, Bombay 28. (1-4-1947)	5	91	Nil.
11	Family Clinic, Mogal Lane, Matunga, Bombay 16 (1-10-1952)	10	66	Nil.
12	Dr. Shushila S. Keluskar Maternity Hospital, Portuguese Church, Dadar, (8-6-1952)	9	72	Nil.
13	Dr. C. L. Zaveri, 224, L. H. Road, Matunga, Bombay 16. (15-8-1949)	25	483	1
14	Park Nursing Home, 203-204, Shivaji Park Road 5, Bombay 16. (14-3-1950)	4	63	Nil.
15	Dadar Clinic & Nursing Home, Dadar Road, Bombay 28. (23-1-1949)	8	307	Nil.
16	Gupte Maternity and Surgical Home, 143, Sitaladevi Temple Road, Mahim, Bombay 16 (31-5-1953).	12	256	Nil.
17	Dr. D'Souza Surgical and Maternity Temple Home, Sitaladevi Road, Mahim, Bombay 16 (January 1953)	3	Nil.	Nil.
18	Chande Maternity and Surgical Home, Gokhale Road, Dadar, (10-1-1957)	10	70	Nil.
19	Bai Radhabai Maternity Home and Women Nursing Home Dadar, Bomay 28 (1-12-1954)	12	113	Nil.
20	Bella Tes Nursing Home, 57, L. J. Road, Mahim, Bomay 16 (29-9-1957)	7	64	Nil.
21	Shradha Maternity Home, Kapad Bazar Road, Mahim, Bombay 16 (8-4-1961)	4	40	Nil.
22	Pandit Maternity Hospital, L. J. Road, Mahim (1963)	10	127	Nil.
23	Dr. Vaze's Maternity and Surgical Hospital, Meghdoot, Bhandarwada Road, Bombay 28 (1957).	14	191	Nil.
24	North Bombay Clinic, Opp. City Light Cinema, Lady Hardinge Road, Bombay 16.	5	1	Nil.
25	Ayurvedic Bhawan 444, Manmala Tank Road, Matunga, (W. R.)	8	7	Nil.
26	Laxmi Clinic, Vidya Building, Bhandar Galli, Mahim, Bombay 16 (17-9-1967)	7	92	Nil.
27	Sane's Nursing Home, 84, Bhawani Shankar Road, Bombay 28 (4-4-1966).	4	80	Nil.
28	Dr. Donald's Maternity Home, Dharavi, Opp. Police Station, Bombay No. 17.	3	117	Nil.
29	Dr. Fonseca's Maternity and Surgical Home, Opp. Mahim Rly. Station, Mahim, Bombay 16. (20-7-1967)	5	103	Nil.
30	Shushroosha, Citizen's Cooperative Hospital, 198-B, Ranade Road, Dadar (21-5-1969)	10	53	Nil.
31	Dr. Ingle's Surgical and Maternity Hospital, 372-B, Veer Sawarkar Marg, Bombay 28 (5-2-1969).	9	107	Nil.
32	Shree Maternity and Nursing Home, 119, Shivaji Park Road, Bombay 28.	6	6	Nil.
33	X Dr. Thakur's Hospital, 121, Shivaji Park, Bombay 28.	20	437	Nil.
34	Nirmal Nursing Home, Gokul, 93, Ranade Road, Bombay 28.	7	42	Nil.
G/North Ward—Total		359	4,990	1

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/SOUTH WARD				
1	Haji Mohamed Haji Sabu Siddik Maternity Home S. V. Savarkar Road, Bombay 28	55	4,277	Nil.
2	Police Maternity Hospital, Pochkhanwala Road, Worli Police Camp. Bombay 18 (9-3-1951)	35	609	Nil
3	Worli Maternity Home, B. M. & C. W. Society Worli, Bombay 18 (10-3-1930)	34	1,212	1
4	Lower Parel Health Unit, Western Ry. Bombay 13. (1963)	7	96	Nil.
5	Dr. Sathe's Maternity & Nursing Home. (12-6-1966)	7	139	Nil.
6	B. M. & C. W Society Maternity Hospital, Delisle Road, Bombay 11 (1-4-1932)	40	1,075	Nil
7	Worli Hospital for Women, 259, Dr. A. B. Road, Bombay 18 (14-5-1964)	15	365	Nil.
8	M. A. Podar Hospital, Bombay (1942)	40	1,216	Nil.
9	Worli General Hospital Sea Face Corner, Bombay 18 (1947)	4	29	Nil.
10	E. S. I. S. Hospital, Worli, Bombay, 18 (1-6-1969)	13	22	Nil.
11	Dr. Parulekar Maternity and Surgical Home, 7-8, Pankaj Mansion, Dr. Annie Besant Road, Worli, Bombay, 18.	7	126	Nil.
G/Suoth Ward—Total		357	1,066	1
H—WARD				
1	Khorshedji Byramji Bhabha Hospital, Waterfield Road, Bandra Municipal (1876)...	85	4,722	4
2	Municipal Maternity Home, Kherwadi, Bandra East (14-8-1964)	30	2,828	Nil.
3	Western Rly. Health Unit, Bandra (1-9-1938)	8	224	Nil.
4	Government Dispensary-Cum-Maternity Home, Bandra, (October 1962)...	4	162	Nil.
5	Dr. Moses Hospital, The Home Street, East Avenue, Santacruz (1929)	6	11	Nil.
6	Dr. Kashibai Hospital, Swami Vivekanand Road, Santacruz (1937)	22	360	Nil.
7	S. M. G. Hospital J. Nehru Road, Santacruz (East), Bombay 55 (1947)	18	299	Nil.
8	Mandakini Maternity Home, Turner Road, Bandra (1-4-1948)	10	56	Nil.
9	Dr. Gupte's Lying-in-and Surgical Hospital, 81, G. B. Road, Khar, (1929)	12	170	...
10	Ajinkye Hospital, 11th Road, Khar, Bombay 52 (April 1920)	8	190	Nil
11	Holy Family Hospital, St. Andrew's Road, Bandra, Bombay 50 (8-6-1953)	21	629	...
12	St. Martire's Nursing Home, 11th Street, Martires Road, Bandra, (November, 1951)...	16	506	Nil.
13	Smt. Bhikubai Chandulal Jalandhwala Hospital, Santacruz Bombay 54 (Oct. 1951)	32	944	4
14	Dr. (Miss) Mahashweta V. Bhat's Hospital for women, 29, National Library Road, Bandra (19-4-1953)	10	59	Nil.
15	Dr. Patkar's Maternity Home, 97, Hill Road, Bandra (31-10-1932)	11	158	Nil.
16	Arora Lying-in-Hospital, Jai Bharat Society, Old Khar, Bombay 52 (January 1951)	8	49	Nil.
17	Mangala Maternity Home, Santacruz East, (1-5-1961)	7	56	Nil.
18	Homoco Maternity and Nursing Home, 15th Road, Khar, Bombay 52 (26- -1970)	8	11	Nil.
19	Devi Maternity and Surgical Home, Renuka Linking Road, Bandra	10	103	Nil.
20	Jai Devi Maternity and Nursing Home, Dr. Ambedkar Road, Danda, Khar (26-1-1961)	10	57	Nil.
21	Sanjivani Maternity and Surgical Nursing Home (27-6-1965)	13	1,016	Nil.
22	Ahuja Maternity Home 15th Road, Khar, Bombay 52 (23-8-1964)	5	Nil.	Nil.
23	Lake-Side Nursing Home, L. I. C. Bldg. Bombay 50 (12-4-1964)	8	17	Nil.
24	Maternity and Surgical Home, 6th Road, Santacruz (East), Bombay 55 (1-7-1969).	6	11	Nil.
25	Surgical and Maternity Nursing Home, Nilama, 12th Road, Khar, Bombay 52.	4	50	Nil.
26	Durga Clinic and Maternity Home, Kalina, Santacruz (1-7-1961).	10	221	Nil.
27	Dr. B. V. Nerurkar Poly & Nursing, 85, Geetha, S. V. Road, Santacruz Bombay 54.	10	4	Nil.
28	Kumar Clinic Maternity and Nursing Home, Koumar, 14A, Road, Khar, Bombay 52. (January, 1968)	20	30	Nil.
29	Laxmi Padam Maternity and Surgical Maternity Home, 579A, Ramnagar Society, 5th Road, Khar, Bombay 52. (15-7-1967)	5	15	Nil.
30	Adarsha Maternity and Surgical Nursing Home, 482, Sahajewna, 33rd Road, Khar., Bombay 52 (13-9-1965).	6	66	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.
31	Smruti Nursing Home, Maheshwar Darshan, 4, S. V. Road, Santacruz West, Bombay 54, AS. (15-8-1969).	7	49	Nil.
32	New Maternity & Surgical Clinic, Gohile Cooperative Housing Society, Santacruz (East) 5-5-1968.	8	218	Nil.
33	Alit's Maternity and Surgical Hospital, Tapodhan, 250B, Linking Road Bandra, Bombay 50.	8	54	Nil.
34	Pushpa-Kunj Maternity and Nursing Home, Nehru Road, Santacruz (East), Bombay, 55. (1-8-1970)	5	13	Nil.
35	Dr. Nandan Maternity Home, 6th Road, Santacruz (East), Bombay, 55. (1-7-1969.)	7	84	Nil.
36	New Maternity Home, Vinay Kunj, Santacruz (East).	7	130	Nil.
37	Dr. Serala Desai's Nursing Home, Dattatraya Road, Santacruz (West) (20-9-1969)	15	17	Nil.
38	Raksha Clinic, GuruKKrupa, Linking Road, Santacruz, Bombay, 54.	10	25	Nil.
39	Sanjeevani Nursing Home, Sangam, 14-B, S. V. Road, Bombay, 53. (28-7-1965)	15	333	Nil.
40	Safalya Maternity and Nursing Home, 124, Navin Kunj, S. V. Road, Khar, Bombay, 52 (1-4-1970)	8	54	Nil.
H Ward—Total		514	13,901	8
K—WARD				
1	F. D. K. Municipal Maternity Home, S. V. Road, Andheri (1960)	85	4,717	1
2	Dr. R. N. Cooper Municipal General Hospital, Juhu (26-2-1969)	50	2363	2
3	Nilima Maternity and Nursing Home, Valabhbbhai Road, Wesa: Vile-Parle (September 1950)	14	288	Nil.
4	Tilak Maternity and Surgical Hospital, 24 Ram Mandir Road, Vile-Parle (24-12-1929)	8	192	Nil.
5	Dr. Balabhbai Nanavati Hospital S. V. Road Vile-Parle (24-12-1951)	44	1,038	2
6	Dr. Shah's Maternity and Nursing Home, M. G. Vile Parle (East) (3-10-1943)	22	373	...
7	Dr. Sumitrabai Wagh Hospital Park Road, Vile-Parle (East) (March 1930)	12	84	Nil.
8	Dr. Rajadhyksha's Maternity Hospital, Andheri West (1-4-1938)	6	65	Nil.
9	Vrindavan General Hospital and Nursing Home, Kura Road, Andheri (1-11-1949)	50	769	Nil.
10	Dr. Bhat's Andheri Maternity and Nursing Home, 208 S. V. Road, Andheri (1932)	8	112	Nil.
11	Laxmi Maternity Hospital, Nariman Road, Vile-Parle, (24-5-1954)	7	54	Nil.
12	Dr. Rajan's Maternity Home, Versova, Khoja Lane, (15-2-1958)	6	79	Nil.
13	Dr. Satho's Maternity Home, Hanuman Road, Vile-Parle (East) (22-4 1958)	13	273	Nil.
14	Dr. Bakshi's Gynac, and Maternity Hospital, Lallubhai Park, Andheri (12-2-1959)	5	105	Nil.
15	Dhiraj Maternity and Nursing Home, Andheri East (28-2-1960)	10	103	Nil.
16	St. Catherine's Home, off Versova Road, Andheri, Bombay 58 (1922)	8	127	Nil.
17	Dr. Joshi's Surgical and Maternity Hospital, 75, S. V. Road, Andheri (1-10-1953)	10	187	Nil.
18	Matoshri Umabai Rane Maternity Home, Shiv Kunj, Majas Road, Jogeshwari (East) (20-7-1962).	20	565	Nil.
19	Mahalaxmi Maternity and General Hospital Gumpna Road, Jogeshwari, Bombay 60 (12-12-1965.)	12	169	Nil.
20	Holy Spirit Hospital, Mahakali Road, Andheri (17-1-1967)	8	115	Nil.
21	Vishwabharati Nursing Home, Joshi Lane, Andheri (West). (19-5-1968)	3	39	Nil.
22	Nandadeep Maternity and Surgical Hospital, 140/141, S. V. Road, Andheri (12-5-68).	8	174	1
23	Nutan Nursing Home, Vile-Parle (East), Bombay No. 56 (12-5-1965).	12	125	Nil.
24	Parle Hospital, Ghod Bunder Road, Vile-Parle West, Bombay 55. (1966)	9	127	Nil.
25	Shanti Maternity and Nursing Home, Sahar Road, Bombay, 57 (October, 1961)	15	533	Nil.
K Ward—Total		445	12776	6
L—WARD				
1	Khan Bahadur H. K. Bhabha Hospital, Kurla, (Municipal) (1-3-1939)	36	4506	10
2	Municipal Maternity Home, Sion-Trombay Road, Chunabhatti, Kurla (4-5-1970)	20	436	Nil.
3	Dr. P. J. Deshpande's Surgical and Maternity Nursing Home, Kapileshwar, 300, Lal Bahadur Shastri Marg, Kurla. (March 1965)	15	570	Nil.
4	Dr. Agaste Maternity and Nursing Home, 116 Bazar Ward, M. N. Road, Kurla. (March 1951)	6	94	Nil.
L Ward Total		77	5606	10

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds	Total confinements.	mothers during their stay in Homes.
M—WARDS				
1	Chembur Municipal Maternity Home, near Chembur Naka (Municipal) (1-7-1944)...	30	3527	Nil.
2	Receivinga Centre for Beggars, Ghatkopar-Mahul Road, Chembur, Bombay 71 ...	Nil.	3	Nil.
3	Chembur Colony Dispensary, Bombay 74 (1947)	25	254	Nil.
4	Dr. Bhatavdekar's Nursing and Maternity Home, 203, Station Avenue, Chembur (September 1954)	10	425	Nil.
5	Mona Maternity and Nursing Home, Amar Kunj, E. M. Road, Chembur Bombay (10-6-1968)	9	77	Nil.
6	Chembur Nursing Home, 18th Road, Chembur, Bombay 71 (1957)	10	148	1
7	Siddh-Giri Clinic, 420 Station, Avenue Road, Chembur, Bombay 71 (26-10-1966)...	12	375	Nil.
8	Joshi Hospital 70, Central Avenue Road, Chembur, Bombay 71 (6-9-1966) ...	5	109	2
9	Lakshmi Maternity Home, Plot No. 213, 11th Road, Chembur, Bombay 71 ...	15	264	Nil.
10	Chembur Hospital, Krishna Baug, Chembur, (1-2-1959)	12	412	Nil.
	M Ward—Total ...	128	5594	3
N—WARD				
1	Shamabai Vithaldas Khimji Maternity Home, Ghatkopar (Municipal) (17-3-1935) ...	20	4094	Nil.
2	Shri Siddharth Maternity Home, Gandhi Nagar, A—Road, Ghatkopar (11-5-1939)	6	1	Nil.
3	Bagwe Hospital, Cama Lane, Ghatkopar (15-4-1951)	6	30	Nil.
4	Suburban Maternity and Nursing Home, Ratan Mahal, M. G. Road, Ghatkopar (21-9 1951)	30	770	Nil.
5	Dr. (Miss) Chandra L. Shah Maternity and Nursing Home, Agra Road, Ghatkopar, Bombay 76 (4-5-1958)	38	889	Nil.
6	Pawar Maternity and Nursing Home, Durga Niwas, Pawar, Bombay 76 (1966) ...	6	40	Nil.
7	Ghatkopar Maternity and Surgical Hospital, Jivan Jyot, Bombay 77 AS (1963) ...	50	903	Nil.
8	Sarvodaya Hospital, B. A. Road, Ghatkopar (9-4-1962).	66	2994	1
9	Shushrusha', Citizens' Cooperative Hospital, Vikhroli (16-4-1967).	15	401	Nil.
10	Dr. Atre Maternity Home, Plot No. 90A, Station Road, Vikhroli (West) Bombay 79. (12-12-1969). ...	10	36	1
11	Mamata General Hospital, S.T. Road, Vikhroli West ...	12	111	Nil.
12	Dr. Vinod B. Joshi's Maternity and Nursing Home, M. G. Road, Ghatkopar, Bombay 86. (1966)	10	285	Nil.
13	North Bombay Hospital, T. P. S. 60 feet Road, Ghatkopar, Bombay 77. (15-8-67) ...	7	12	Nil.
14	Rajawadi Maternity and Nursing Home, Rajawadi, Chatkopar (17-5-1964) ...	11	65	Nil.
15	Jyoti Maternity and Surgical Nursing Home, Vaishishtha, Ghatkopar (East), Bombay 77 (1-6-1968).	8	17	Nil.
16	Ashwini Maternity Hospital, Ambika Darshan, M. G. Road, Ghatkopar, Bombay (1-7-1966).	24	710	Nil.
17	Pant-Nagar Maternity and Surgical Hospital, near Ghatkopar Station, Bombay 75 (January 1968).	17	141	Nil.
18	Shantiniketan Nursing Home, Agra Road, Ghatkopar (West), Bombay, 86 (1-1-1970)	8	67	Nil.
19	Modern Maternity Home, Bhatia-wadi, Tilak Road, Ghatkopar, Bombay, 77 (1-6-1970)	14	66	Nil.
	N Ward—Total ...	358	11,632	2
P—WARD				
1	Municipal Maternity Home, Daftary Road, Malad. (4-1-1954) ...	28	1,766	Nil.
2	Municipal Maternity Home behind Topiwala Charitable Dispensary Goregaon West (1-7-1964)	20	2,432	Nil.
3	Dr. Velaskar's Women's Lying-in Hospital, Zakeri Bldg. Zakaria Road, Malad West (29-1-1950)	22	405	Nil.
4	Dr. Desai's Maternity Home, Vijaykar Wadi, Silvan Villa S. V. Road, Malad, West. (4-2-1951)	18	470	..
5	Bhagwant Maternity and Nursing Home, 100 Liberty Colony, Malad West (February 1964)	6	34	Nil.
6	Dr. Chandrakant R. Joshi's Eye and Maternity Home, Goras Road, Ahilya Ashram, S. V. Road, Malad (July 1952)	25	103	Nil.
7	Bagwe Maternity Home, Bagwe Bhuvan, Goregaon (20-7-1951)	20	150	Nil.
8	Mrs. Nalini Patwardhan's Colony Maternity and Gynac. Hospital Jay Prakash Nagar, Goregaon (Snet. 1952)	8	96	Nil.
9	Dr. Warke M. X G. Home, "Suman", 6th Road, Plot No. 104, Goregaon (West). ...	10	60	Nil.
10	Date Maternity and Nursing Home, 23 Jawahar Nagar, S. V. Road Goregaon West (20-9-1960)	15	336	..
11	Dr. Suchak's Maternity and General Hospital, Manchubhai Road, Malad East (7-8-1960)	44	1,033	Nil.
12	Shri S. K. Patil Arogyadham Maternity Dham, Daftary Road, Malad (1959) ...	8	248	Nil.
13	Family Clinic, I. N. S. Hemla, Marve Road, Malad. (1952)	2	26	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements.	mothers during their stay in Homes.
14	Satguru Sainath Maternity Home, S. V. Road, Goregaon (West).	10	125	Nil.
15	Dr. Ray's Maternity Home, 24, Jawahar Nagar, Goregaon (1964).	6	16	Nil.
16	Dr. Bhella's Maternity Hospital, 79, Jawahar Nagar, Goregaon West	15	333	Nil.
17	Patni Maternity and Gyn. & Nursing Home, 8, Jawahar Nagar, Goregaon. (7-11-1965)	23	563	Nil.
18	Dr. Kale's Maternity Hospital, 109, Jawahar Nagar Goregaon (West). (1948)	10	86	Nil.
19	Kapadia Maternity and Surgical Nursing Home, M G. Road, Goregaon West. (19-10-64)	10	160	Nil.
20	Dr. Guriba Maternity Hospital, Mamlatdar wadi, Malad (June 1963).	15	354	Nil.
21	Shobha Maternity Home and General Hospital, Plot No. 33A, Daftary Road, Malad (East) (9-9-1968).	16	215	Nil.
22	Kalpna Maternity and Surgical Home, Jawahar Darshan, Daftary Road, Malad (East) (April 1968)	14	208	...
23	Dr. Puranik's Maternity and Nursing Home, Mamlatdar Wadi, Malad (West).	14	12	Nil.
24	Malad Maternity Hospital, Krishna Varma Wadi, Daftary Road, Malad.	4	4	Nil.
25	Baliga Nursing Home, "Paras", S. V. Road, Goregaon (West).	25	25	Nil.
P Ward—Total		385	9,254	
R—WARD				
1	Padhabai Dhamanmal Ishwardas Bhetia Municipal Maternity Home Irani Wadi, Mathuradas Road, Kandivli (2-4-1963)	20	963	Nil.
2	Borivli Municipal Maternity Home, S. V. Road, near Borivli Station, Borivli. (4-8-1968)	20	2065	1
3	Pandya Maternity Home, Eksar Cross Lane, 2 Patel Road, Borivli; (3-9-1950)	12	311	Nil.
4	Bagwe Maternity Home, Tilak Road, Borivli West (28-2-1952)	12	145	Nil.
5	Sumati Maternity Home, S. V. Road, Borivli, (March 1945)	30	461	Nil.
6	Palkar Maternity Home, Opp. Rly. Station, G. B. Road, Borivli, (15-7-1953)	10	153	Nil.
7	Radhabai Dalvi Hosp. and Mat. Home, G. B. Road, Kandivli (1-1-1928)	25	409	Nil.
8	Dr. Joglekar Mat. Home, G. B. Road, Kandivli; (1-1-1947)	10	59	Nil.
9	Mehta Maternity Hospital, Bhimji Kero' Bungalow, Chandarvarkar Lane, Borivli (9-7-1950)	12	83	Nil.
10	Usha Maternity Home, Shantilal Modi Road, Kandivli West (1962)	14	217	Nil.
11	Dr. Usha Hospital, Borivli (West) (8-8-1965).	9	150	Nil.
12	Mandani Maternity Hospital, Pranalal Nagar, Opp. North Level Crossing, S. V. Road, Borivli (East) (17-5-1970).	11	215	1
13	Laxmi Maternity Home, Nandadeep, 169, Shri Krishna Nagar, Borivli Bombay, 92. (20-6-1970).	3	5	Nil.
R Ward—Total		183	5,326	2
T—WARD				
1	Municipal Maternity Home, Bhandup (1-1-1964)	20	2,845	1
2	Municipal Maternity Home, Mulund (West), Bombay 80 (21-4-1969).	30	2,261	1
3	Manasadevi T. Agarwal General Hospital, Mulund, Bombay 80.	Nil.	2	Nil.
4	Naval Hospital, Pawai, Bhandup (1-9-1964)	4	104	Nil.
5	Indian Institute of Technology, Powai, Bombay 76 (9-4)	4	90	Nil.
6	Modern Maternity and Nursing Home, 68, Mulund Colony, (2-2-1961)	4	57	Nil.
7	Dr. M. J. Thakkar's Maternity Home, Mulund (1-5-1966)	12	44	Nil.
8	Nav Jiwan Maternity and Nursing Home, Mulund East, (5-6-1966)	11	184	Nil.
9	Dr. Bhagwat's Maternity Home, M. G. Road, Jamuna Sadan, Mulund, (Sept. 1964)	6	119	Nil.
10	Mulund Poly Clinic Maternity and Nursing Home, Ambedkar Road, Mulund West (1957)	10	39	Nil.
11	Sheh Clinic and Maternity Hospital, J. M. Road, Bhandup (30-4-1968)	9	197	Nil.
12	Dr. Badwik Maternity Hospital Agra Road, Bhandup (5-8-1950)	12	250	...
13	Dr. Gore's Laxmibai Mat. Hospital, M. G. Road, Mulund Aug. (10-6-1949)	15	351	Nil.
14	Mulund Maternity and Nursing Home, Gajanan Mansion, Mulund (20-4-1969)	10	207	Nil.
15	Dr. Bhatia's Hospital, "Carrey's Retreat", Village Road, Bhandup Bombay 78 (26-1-1965).	8	154	Nil.
16	Agarwal Polyclinic and Nursing Home, M. G. Road, Mulund, Bombay 80 (15-9-1969).	3	3	Nil.
17	Dr. Ganatra's Maternity Home, Mulund (20-3-1952)	20	419	Nil.
18	Dr. Buch's Maternity Home, M. G. Road, Mulund (3-10-1965)	10	146	1
19	Dr. Khandekar's Maternity Home, Lokmanya Tilak Road, Mulund East (Dec. 1961)	2	22	Nil.
20	Shri Naresh Manilal Cardhi Sarvajenik Hospital, Mulund, Bombay, 80.	7	33	Nil.
T Ward—Total		197	7,527	3

TABLE 24—(Concl.)

Ward	No. of Institutions	No. of beds	No. of confinements	No. of Maternal deaths
A ...	18	414	8,183	11
B ...	10	231	5,374	10
C ...	8	209	2,437	1
D ...	57	807	11,867	6
E ...	19	450	14,651	30
F/N ...	38	416	12,118	42
F/S ...	14	526	17,324	35
G/N ...	34	359	4,990	1
G/S ...	11	357	1,066	1
H ...	40	514	13,901	8
K ...	25	445	12,776	6
L ...	4	77	5,606	10
M ...	10	128	5,594	3
N ...	19	358	11,632	2
P ...	25	385	9,254	...
R ...	13	188	5,326	2
T ...	20	197	7,527	3
Grand Total ...	365	6,061	1,49,626	171

Total births (Including 5,531 still births) registered in the Greater Bombay during the year 1970 ... 1,06,843

Deaths registered as Maternal deaths during the year 1970 ... 89