

ADMINISTRATION REPORT

OF THE
MUNICIPAL COMMISSIONER

FOR
GREATER BOMBAY

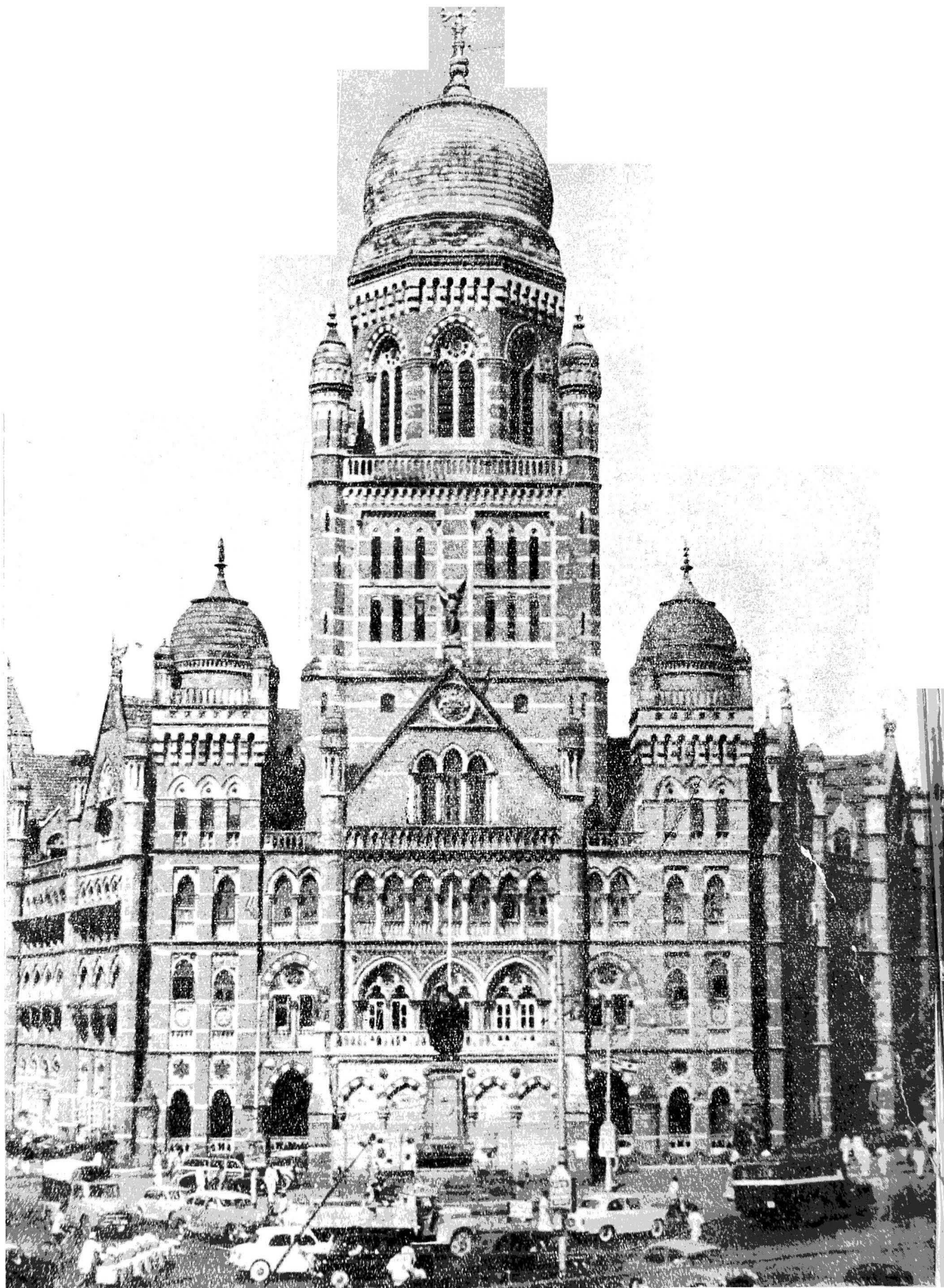
For the Year 1971-72

CITY, SUBURBS AND EXTENDED SUBURBS

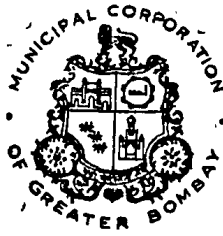
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1972



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CITY, SUBURBS AND EXTENDED SUBURBS

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**REVIEW OF THE STANDING COMMITTEE OF THE ADMINISTRATION
REPORT OF THE MUNICIPAL COMMISSIONER FOR
GREATER BOMBAY FOR THE YEAR 1971-72.**

The Administration Report submitted by the Municipal Commissioner, gives in detail the working of the various Municipal Departments, for the year 1971-72.

CORPORATION.

2. Dr. H. S. Gupte was elected Mayor of Bombay for the year under report and he continued to hold that office throughout the year. Shri R. P. Patil was the Chairman of the Standing Committee, Shri S. L. Dandekar was the Chairman of the Improvements Committee, Smt. Indumati T. Patel was the Chairman of the Education Committee and Shri K. G. Mehta was the Chairman of the B. E. S. & T. Committee for the year under report and they continued to hold their respective offices throughout the year.

The Corporation accorded civic receptions to (1) delegates attending the 20th Conference of the Asian Regional Organisation of the International Confederation of Free Trade Unions, (2) The Indian Cricket Team prior to their visit to England (3) The Indian Cricket Team on their return to India at Shivaji Park and (4) the delegates attending the 10th Conference of the Municipal Corporations of India.

The vacancies that took in the personnel of the Corporation on account of the resignation of their seats by Shri K. A. Sapat from 2nd December 1970 and Shri S. A. Modi from 5th February 1971 as Councillors, were not filled in during the year under report.

The change that took place in the personnel of the Education Committee was the appointment of Smt. Dhairyabala P. Vora as a Non-Councillor Member of that Committee from 4th May 1971 *vice* Shri M. R. Dandavate, resigned from 13th April 1971.

COMMISSIONER.

3. Dr. M. N. Desai, from 1-4-1970 to 31-8-1971; Shri S. M. Y. Sastry, from 1-9-1971 to 15-10-1971; and Dr. M. N. Desai, from 16-10-1971 to 31-3-1972 held the post of the Municipal Commissioner during the year under report.

Complaints Section.

This Section deals with the complaints concerning Municipal Services received in the Central Control Room, at Babula Tank Cross Lane, Bombay—9. about repairs to buildings, water supply drainage, sanitation, etc. Complaints were referred to the departments concerned, systematically followed up and the complainants were contacted, if required, in order to see that their grievances were redressed within a reasonable time. The total number of complaints registered and followed up by the Central Control Room during the year under report was 13,771. 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. The Chowpatty Foreshore was kept under the supervision of the Manager for maintenance of sanitation. An amount of Rs. 1,12,957 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 422, 252 and 285 works in respect of building construction, road construction and drainage construction, respectively, visited 298 private properties, attended 2 rounds of Works Committee (Subs.), by Special invitation and pursued action on the Complaints (of irregularities) made by the Municipal Councillors.

FINANCIAL.

4. The financial transactions have resulted in a deficit of Rs. 44.54 lakhs at the end of the year instead of the anticipated deficit of Rs. 172.70 lakhs. This was due to the fact that the actual expenditure decreased by Rs. 515.44 lakhs over the Revised Budget Estimates while the income decreased by Rs. 387.28 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 Rs. 118.96 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. 436.95 lakhs. The total income budgeted for was Rs. 58,27.43 lakhs, while the actual realizations amounted to Rs. 58,30.77 lakhs. On the expenditure side, the amount budgeted for was Rs. 59,38.88 lakhs whereas the actuals of expenditure were Rs. 58,75.31 lakhs.

Loan Funds.

6. The Opening Balance on 1st April 1971 on account of Loan Funds excluding the Trust Fund was Rs. 487.31 lakhs for the City, that for the Suburbs on account of Loan Funds, and Trust Funds was Rs. 34.80 lakhs and Rs. 41.30 lakhs for the Extended Suburbs. Loans aggregating to Rs. 4,57.62 lakhs for the City, Rs. 3,85 lakhs for the Suburbs and Rs. 165 lakhs for the Extended Suburbs were raised during the year.

The total Loan Funds available for expenditure during the year were Rs. 944.93 lakhs for the City. After transferring the donation of Rs. 694 in Trust Fund Account to Education Fund, the total Loan and Trust Funds available for expenditure during the year were Rs. 419.79 for the Suburbs and Rs. 206.30 for the Extended Suburbs.

The actual expenditure amounted to Rs. 782.33 lakhs for the City, Rs. 170.73 lakhs for the Suburb and Rs. 159.53 lakhs for the Extended Suburbs on Capital Works as against the budgeted figure of Rs. 1,637.73 lakhs for the City, Rs. 410.16 lakhs for the Suburbs and Rs. 257.59 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. 24,90.96 lakhs for the City, Rs. 667.05 lakhs for the Suburbs and Rs. 206.49 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 1972, came to Rs. 2,492.81 lakhs for the City, Rs. 604.65 lakhs for the Suburbs and Rs. 206.34 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. 25,19.67 lakhs for the City, Rs. 613.25 lakhs for Suburbs and Rs. 197.13 lakhs for the Extended Suburbs, the excess in the Sinking Fund Account being Rs. 2,22.10 lakhs for the City, Rs. 66.49 lakhs for the Suburbs and Rs. 11.74 lakhs for the Extended Suburbs, respectively.

Improvement Schemes Account, General Account, Income and Expenditure.

8. The total income for the year amounted to Rs. 343 lakhs against Rs. 3,16.43 lakhs for the previous year, showing a net increase of Rs. 26.56 lakhs. The increases were in respect of (1) Rent and other proceeds of properties Rs. 7.71 lakhs; (2) Contribution from Municipal Corporation Rs. 17.02 lakhs; (3) Rs. 4.79 lakhs under Miscellaneous, counter-balanced by decrease of Rs. 2.97 lakhs under interest and profit on investments.

The total expenditure for the year, viz., Rs. 297.89 lakhs as against Rs. 271.88 lakhs for the previous year, showed an increase of Rs. 26.01 lakhs on that of the previous year. This is made up of increase of Rs. 29.79 lakhs under maintenance of properties and streets counterbalanced by decrease of Rs. 3.78 lakhs under Debt Charges.

The surplus of Rs. 45.10 lakhs in General Account is transferred to Capital Account.

Loan Account.

The loan liability for the City at the beginning of the year was Rs. 14,53.02 lakhs. The repayment of loan during the year under report was Rs. 12.95 lakhs of which Rs. 12.53 lakhs were repaid to Government on the basis of equated payment. The outstanding liability on loan account at the close of the year stood at Rs. 14,40.06 lakhs.

CAPITAL ACCOUNT.

The year began with an Opening Balance of Rs. 103.54 lakhs. In the course of the year, receipts on account of Sale Proceeds of Lands and Buildings amounted to Rs. 3.16 lakhs. The total funds thus available were Rs. 106.70 lakhs. The total expenditure incurred amounted to Rs. Rs. 28.93 lakhs. The surplus in General Account for the year which amounted to Rs. 45.95 lakhs, was transferred to the Capital Account. The unspent balance at the close of the year was Rs. 123.72 lakhs.

The actual expenditure during the year on schemes amounted to Rs. 28.93 lakhs as against the Revised Estimates of Rs. 69.15 lakhs including Rs. 8.45 lakhs on account of the cost of Management and Establishment.

Sinking Fund in Improvement Schemes Account.

The amount of Sinking Fund on 31st March 1972 was Rs. 756.32 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. 745.40 lakhs. This together with interest accrued upto 31st March 1972, viz., Rs. 0.84 lakhs and cash with the State Bank of India brought the total amount of Sinking Fund to Rs. 746.24 lakhs against Rs. 567.00 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. 179.23 lakhs.

The Gross Capital Liabilities of the Improvement Schemes stood at Rs. 14,87.65 lakhs at the close of the year under review and the assets at Rs. 40,73.55 lakhs including the book value of funds comprised in Schedules 'W' and 'X', resulting in a Surplus of Rs. 25,85.91 lakhs.

General Account, Slum Clearance—City and Suburbs.

The total income during the year under Slum Clearance, City Section amounted to Rs. 16.41 lakhs against Rs. 16.79 lakhs in the previous year showing a net increase of Rs. 0.38 lakh. This is made up of increase of Rs. 0.38 lakh under Rent and other proceeds of properties counterbalanced by decrease of Rs. 0.76 lakh under Interest and Profit on Investments.

The expenditure on this account during the year amounted to Rs. 25.08 lakhs comprising of Rs. 8.18 lakhs on Maintenance of Properties and Streets and Rs. 16.90 lakhs on Debt Charges resulting in a deficit of Rs. 8.68 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. 11.58 lakhs as against Rs. 7.95 lakhs in the previous year showing a net increase of Rs. 3.63 lakhs. This is made up of increase of Rs. 2.52 lakhs under Rent and other Proceeds of Properties and Rs. 1.28 lakh under Miscellaneous Receipts, counterbalanced by decrease of Rs. 0.16 lakh under Interest and Profit on Investments.

The expenditure during the year on this account amounted to Rs. 26.47 lakhs made up of Rs. 7.24 lakhs under Maintenance of Properties and Streets and decrease of Rs. 0.50 lakh under Debt Charges. The net deficit of Rs. 14.89 lakhs was transferred to Capital Account.

Capital Account, Slum Clearance—City.

The Opening Balance under Capital Account, Slum Clearance City, on 1st April 1971 was Rs. 13.40 lakhs. An amount of Rs. 25.00 lakhs was received from public as loan. Thus the total funds available for expenditure amounted to Rs. 38.40 lakhs, against which the expenditure incurred during the year amounted to Rs. 34.94 lakhs. The deficit in the General Account amounting to Rs. 8.66 lakhs was transferred to Capital Account. The deficit of Rs. 5.20 lakhs was met by taking Advance from Surplus Moneys under Revenue Budget 'A', Division I.

Capital Account, Slum Clearance—Suburbs.

The Opening Balance under Capital Account, Slum Clearance, Suburbs on 1st April 1971 was Rs. 20.19 lakhs. An amount of Rs. 10.38 lakhs was received as Sale Proceeds of Lands and Buildings. The total funds available for expenditure thus amounted to Rs. 30.58 lakhs against which expenditure incurred during the year amounted to Rs. 2.18 lakhs and deficit in the General Account amounting to Rs. 14.67 lakhs was transferred to the Capital Account leaving an unspent balance of Rs. 13.72 lakhs.

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

Education Fund.

9. The actual income for the year amounted to Rs. 953.11 lakhs resulting in a decrease of Rs. 22.65 lakhs in the Budget Estimates and of Rs. 7.79 lakhs in the Revised Estimates. The rate of Education Cess was continued at 2½ per cent. of rateable value on buildings and lands the rateable value of each of which was not less than Rs. 300 per annum and 2 per cent. of the rateable value on buildings and lands, the rateable value of each of which was less than Rs. 300 per annum but not less than Rs. 75 per annum.

The total expenditure for the year amounted to Rs. 976.41 lakhs against the Budget Estimates of Rs. 1,001.73 lakhs.

The Opening Balance on account of Loan Funds excluding Trust Funds on 1st April 1971 was Rs. 16.64 lakhs. A new loan of Rs. 50 lakhs was proposed for 1971-72 but actually a loan of Rs. 53 lakhs was raised during the year. The total loan funds thus available amounted to Rs. 69.64 lakhs against which expenditure booked on loan funds amounted to Rs. 76.11 lakhs. The closing balance at the end of the year in loan funds amounted to nil. An advance of Rs. 6.47 lakhs was taken from Surplus Moneys to finance the expenditure on Capital Works during the year.

The percentage of actual expenditure on Loan Works to the Loan Funds available was 109.

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. Rates charged for the supply of water by meter measurement ranged between Rs. 2 and Rs. 10 per 10,000 litres according to the class of properties.

The Maharashtra State Government decided to increase temporarily, the Education Cess with effect from 1st October 1971 at a rate equal to 50 per cent. of the existing rates. Due to the late receipt of the Govt. letter in this respect, separate bills for Additional State Education Cess were issued in March 1972 and so major portion of the net demand has remained outstanding at the end of the financial year.

On the Assessment Register at the close of the year, there were 86,801, 80,274, and 43,051 properties in the City, Suburbs and Extended Suburbs, respectively. 1,580 properties in the City, 2,472 in the Suburbs and 1,308 in the Extended Suburbs were newly assessed to General Tax, while 3,354 properties in the City, 1,962 in the Suburbs and 1,094 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 5,360, 664 and 4,481, respectively.

The rateable value of all properties on 31st March 1972 was Rs. 52,41,38,944 in the City; Rs. 22,95,35,082 in the Suburbs and Rs. 9,75,72,292 in the Extended Suburbs as against Rs. 49,18,68,419, Rs. 20,99,46,521 and Rs. 9,07,82,704 in the preceding year. It worked out to Rs. 170.87, Rs. 105.86 and Rs. 133.10 per head of population as per the census of 1972 (mid year estimate), against Rs. 160.35, Rs. 96.83 and Rs. 123.84 in the preceding year.

The total number of bills in respect of Property Taxes and Wheel Tax issued during the year was 1,85,186 and 3,24,120, respectively for the City, 1,98,690 and 80,090 for the Suburbs and 85,562 and 17,154 for the Extended Suburbs. The total number of bills for water charges by meter measurement issued during the year by the Hydraulic Engineer was 48,189 for the City, 39,706 for the Suburbs and 98,943 for the Extended Suburbs. As regards property taxes, out of the net demand of Rs. 25,67,17,422 an amount of Rs. 20,27,59,462 was collected leaving the amount of Rs. 5,39,57,960 as outstanding, percentage of outstanding to net demand comes to 21.02 for the City; the figures for Suburbs for net demand and collection stood at Rs. 16,43,14,060 and Rs. 9,11,01,312 leaving the balance of Rs. 7,32,12,748 as outstanding and percentage of outstanding to net demand comes to 44.56. The net demand and collection in the Extended Suburbs stood at Rs. 6,43,81,738 and Rs. 3,27,37,614 leaving the balance at Rs. 3,16,44,124 and percentage of outstanding to net demand comes to 49.15.

In the case of Wheel Tax in the City, the net demand was for Rs. 2,56,72,922 and the amount collected was Rs. 97,29,704 thus leaving an amount of Rs. 1,59,43,218 as outstanding, the percentage of outstanding to net demand comes to 62.11. As regards Suburbs and Extended Suburbs, the net demand was Rs. 81,17,918 and Rs. 16,82,492, the collection at Rs. 19,52,359 and Rs. 5,43,786 thus leaving an amount of Rs. 61,65,559 and Rs. 11,38,706 as outstanding, respectively and the percentage of outstanding to net demand comes to 75.96 and 67.86, respectively.

2,416, 4,343 and 2,392 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 355, 218 and 618 appeals against the rateable value during the year under report in the City, Suburbs and Extended Suburbs respectively, out of which 321, 208 and 595 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 1971 were Rs. 6,91,827, Rs. 3,94,231 and Rs. 2,56,877 for the City, Suburbs and Extended Suburbs respectively. Out of this amount, sums of Rs. 27,955, Rs. 34,458 and Rs. 39,880, were collected.

Theatre Tax.

11. There were in all 46 Class I and 18 Class II Cinema Theatres in the City and 26 and 13 Cinema Theatres in Suburbs and Extended Suburbs, respectively, out of which 23 and 9 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 entertainment programmes, 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. 8,08,814 in the City, Rs. 3,42,162 in the Suburbs and Rs. 1,57,795 in the Extended Suburbs.

The Standing Committee note with concern the high percentage of outstandings 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 be 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 rate of Octroi during the year under report continued to be the same as in the previous year. The gross collections from Octroi during the year under report amounted to Rs. 20,88 lakhs as against Rs. 17,78 lakhs in the preceding year. The amount refunded during the year under review was Rs. 300 lakhs as against Rs. 273 lakhs in the previous year. Octroi gave a net revenue of about Rs. 17,88 lakhs as against Rs. 15,05 lakhs in the previous year. The total number of claims for refund was 84,710 as against 80,603 in the previous year.

Fees for stamping sugar bags, tea cases, etc., amounted to Rs. 2.18 lakhs as against Rs. 3.53 lakhs in the preceding year.

A Study Group appointed by Government of Maharashtra had recommended abolition of Octroi all over Maharashtra State and its substitution by a multi-point turn-over tax. Final decision of the Government in the matter is awaited.

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

Elections.

13. For filling up two vacancies of Councillors in Ward Nos. 122 (Borivali West Rural) and 123 (Charkop and Borivli West) caused due to resignations submitted by sitting Councillors, Sarvashri Shantilal Amritlal Modi and Kuldipsingh Amarsingh Sapat on 10th February 1971 and 2nd December 1970 respectively, it was decided to hold the Poll initially on 7th November 1971 and then on 9th January 1972. The Poll was, however postponed due to Indo-Pakistan War in December 1971 and due to proclamation of a State of Emergency.

2. The next Municipal General Elections are proposed to be held in February/ March 1973. For holding these Elections, preliminary work such as requesting the Government for undertaking fresh delimitation of Municipal Electoral Wards and preparation of fresh Municipal Electoral Rolls by suitably dividing latest Government Assembly Rolls as per provisions of Section 19 of the B. M. C. Act, had been undertaken by the State Government.

WATER SUPPLY PROJECTS DEPARTMENT.

14. In accordance with the Report of Messrs. Binnie and Partners (India) Ltd., recommending creation of a separate undertaking of water supply and sewerage organisations, Shri V. D. Desai was appointed as Dy. Municipal Commissioner (Special Engineering) with effect from 1st October 1971, as an interim arrangement pending his appointment as Managing Engineer to such other suitable post with suitable designation to fulfill the requirements of his being the Executive and Administrative head of the new organisation. The Departments of Hydraulic Engineer, Project Engineer and Sewerage Design have been brought under his control.

VAITARNA-CUM-TANSA SCHEME.

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 work on the Powai High Level Reservoir was in progress. It was decided to abandon the work of construction of Rāoli Hill Reservoir due to deep fissures in the foundation. It is now proposed to construct 2 Nos. of steel tanks on the top of the hill and low level reservoir at the base with pumping station.

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. Out of the total length of 84 Kms. to be laid 71 Kms. were completed and 32 Kms. were commissioned as a result of which additional water supply of about 35 million gallons per day was available to the City.

BHATSAI SCHEME.

Messrs. Binnie and Partners (India) Ltd., the Consulting Engineers, as consultants to the Corporation for Water Supply and Sewerage Schemes continued their work during the year and completed their studies. Out of 12 proposals for the acquisition of private lands in awards in respect of Tahsil Bhiwandi 3 cases were declared and the possession was taken over. Acquisition proceedings in respect of remaining cases were in progress.

ULHAS RIVER SCHEME.

As the lands are required permanently for this Scheme, 13 proposals for acquisition of private lands were initiated. Awards in 6 cases were declared during the year. The transfer proceedings in respect of Government land were in progress. Construction of channel from the pump of the Mohone Pump House was completed at the cost of Rs. 13,424.38 and the work of providing cross connections between 1200 mm. Ulhas main and 2500 mm. Vaitarna main near Pogaon was completed at the cost of Rs. 1,48,710.

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 275 contract Plans, 65 Cloth Tracings, 52 Block Estimates and 62 Detailed Estimates in connection with different building works (including housing in Greater Bombay) costing Rs. 1,32,88,705.66 in the City and Rs. 1,45,08,792 in Suburbs and Extended Suburbs.

A Civil Defence Cell was created on 7-6-1971 to ensure future planning and extension of Capital Works as per civil & strategic requirements of the present and future. An Emergency Code was prepared, Municipal Staff was given Training in Fire Fighting, First Aid and Civil Defence basic course by the Cell.

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 2586 as against 6453 in the previous year. The amount spent on 882 buildings in the Suburbs and 274 in the Extended Suburbs for such works was Rs. 62,13,506.02 and Rs. 21,55,889.09 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. 70.15 lakhs were completed. Works amounting to Rs. 5.87 lakhs were in progress.

During the year under report, the Abattoir at Deonar which is the first largest mechanised Slaughter House in India was put into commission from 16th August 1971. The various Slaughtering units were functioning smoothly and supplying wholesome and hygienically cleaned meat to the Consumers. The total expenditure incurred on the Project was approximately Rs. 3 crores, upto 31st March 1972. As the shifting of Bandra and other Slaughter Houses particularly in Western Suburbs was delayed due to certain legal difficulties, the Abattoir could not be worked to its full capacity.

Private Buildings.

17. During the year, 1063 applications were received for the construction of new buildings or additions and alterations to the existing ones in the City area. The total number of new buildings constructed by private enterprise during the year was 40 out of which 12 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 in the City, the issue of notices and launching of prosecutions continued as before. 9416 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 252 cases such authorities were given during the year as against 73 in the previous year and 5,595 tenants took advantage of it against say 1,133 during the last year.

In 540 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. 5,07,605.73 was incurred therefor.

During the year 150, 26 & 12 buildings or portions thereof collapsed in the City, Suburbs and Extended Suburbs, respectively. The total number of persons injured were 126, 39 and 4 and those killed were 49, 2 and nil. The estimated damage to property was Rs. 5,46,520, 1,15,800 & 6,300, respectively.

Slum Clearance, Housing and Land Acquisition.

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

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

Tenements under the Government of India's Subsidised Slum Clearance Scheme.—Under the Scheme, 6,098 tenements were sanctioned. Out of these, 288 tenements were completed during the year, bringing the total number of tenements completed upto 31st March 1972 to 5110. Construction of 370 tenements was in progress during the year under review.

Financial Assistance from Government under subsidised Slum Clearance Schemes.—The Corporation have not received any loan or subsidy from the Government during the year under report. The Corporation has thus so far received Rs. 1,27,93,893 by way of loan and Rs. 1,51,03,418 by way of subsidy upto 31st March 1972.

Drainage and Sewerage.

19. *Dadar Purification Works.*—The working of the Sewage Purification Works was satisfactory throughout the year. The plant pumped 13093 M. litres of sewage during the year under report. Recently renovated activated sludge plant turned out the affluent of the best quality by aerating the primary treated Sewage in 24 aeration cones. Three Return Activated sludge pumps recirculated the sludge smoothly.

Love Grove Pumping Station and Purification Works.

Pumping Station No. 1 pumped out 34290.80 m. litres of Sewage Water directly to Sea. Pumping Station No. 2 discharged 1,17,063 m. litres of sewage water during the year.

Dharavi Purification Works.

The sludge gas was supplied fairly continuously to all the consumers during the year under report. The performance of the plant was satisfactory. The revenue from the sludge gas produced thereat was Rs. 35253.97.

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 325 motor vehicles were in commission in the City and 228 vehicles in the Suburbs and Extended Suburbs.

Since the transport fleet for the removal of refuse was not sufficient to cope up with the daily output of refuse, extra vehicles from private agency had to be requisitioned for the removal of refuse. The average collection of refuse in the City worked out to 1533 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 481.57 K. M., and 630.81 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 19,862; 11,911, in the Suburbs and 5,544 in the Extended Suburbs at an expenditure of Rs. 71,83,416.74, 35,32,000 and Rs. 14,56,350, respectively.

The lighting of 146 roads was improved with HPMV lamps under the 'Ali-in-Hire Scheme', 43 roads were provided with new lighting arrangements, and 7 roads were improved with Tungston filament lamps. The Standing Committee is of the view that better maintenance of internal lanes and by lanes needs greater attention of the Administration.

The statues of (1) Late Sir Phirozeshah Mehta at Bori Bunder (2) Late Shri Vithalbai Patel at Chowpatty (3) Late Lokmanya Tilak at Chowpatty (4) Dr. Babasaheb Ambedkar at Band Stand on Mayo Road, (5) Hutatma Smarak at Hutatma Chowk and (6) Swami Vivekanand at Gateway of India were flood lit with electric lights throughout the year.

8 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 to Dharavi for disposal.

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

As the Municipal fleet was found inadequate in City & Suburbs 77,708 and 6587 vehicles shifts hired from the contractors were utilized for transporting about 70 per cent. of the refuse.

The cost of maintenance of Mahalaxmi and Chembur Sidings was Rs. 50,016.38.

Town Planning Schemes.

23. Within the limits of the City, there are 4 Town Planning Schemes. viz., Town Planning Schemes for the Bombay City No. I (Mandvi and Elphinstone Estate); Town Planning Scheme, Bombay City No. II (Mahim area); Town Planning Scheme, Bombay City No. III (Mahim area); and Town Planning Scheme, Bombay City No. IV (Mahim area). Out of the four Schemes the last one had been declared for variation and the Draft Scheme (I variation) has been submitted to the Government for sanction in 1969. Schemes at Nos. 2 and 3 have been declared for first 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 (I variation) has been sanctioned by the Government and has come into force.

Conservancy.

24. All roads, footpaths and house gullies were cleaned daily in the morning as well as in the afternoon. The total refuse collected and removed by engaging stationary as well as mobile traction was 5,59,500 tons in the City, 2,08,826 tons in the Suburbs and the Extended Suburbs.

1876 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 824 privy seats in the City. The work of removal of night-soil was attended to regularly by 7 cesspool lorries.

The number of basket privies existing in Suburbs and Extended Suburbs was 64,28 as against 8216 during the previous year and 1788 basket privies were either demolished or converted during the year. In addition there were 3225 cesspools.

Control of Stray Dogs.—13973 & 31,364 stray dogs were caught. 7796 & 4831 pet dogs were licensed in City & Suburbs respectively.

In addition to the above, the Conservancy branch also rendered special conservancy and halakhore services to various circuses, exhibitions, fairs, etc., in City and Suburbs realising thereby Rs. 4.75 lacs & 2.61 lacs respectively 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 1971 to 31st October 1971. The number of boxes turned out by the main plant and pegson plants were 78,22,180 kgs. and 37,07,150 kgs. approximately.

The Crushers at Worli worked satisfactorily during the year. The total output was 3570 brass as against 3370 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. 4 plots in Municipal Schemes have been disposed of in the year 1971-72.

The total number of plots disposed of upto the end of 1971-72 was 4,347 with an area of 52,92,982.79 sq. metres and valued at Rs. 13,93,47,523.

The amount received by way of commutation of ground rent and premium, etc., during the year was Rs. 2,23,931 as against Rs. 6,73,667 in the preceding year.

The collection on account of rents from the permanent chawls during the year amounted to Rs. 30,25,478. The revenue actually collected on account of rents in respect of S. P. Sheds came to Rs. 17,58,420. The figures in respect of slum clearance tenements and acquired premises stood at Rs. 25,36,820 and Rs. 12,23,964 respectively.

104 tenements were constructed at Rawli Camp during the year.

The recoveries of the rent in the Squatters' Colonies at Mankhurd and Jogeshwari were Rs. 41,860 and Rs. 1,03,705 against the demand including the arrears of Rs. 13,54,293 and Rs. 6,46,800, respectively and at Palton Road Dormitory amounted to Rs. 46,910 during the year.

During the year under review, the demand and recovery of taxes aggregated to Rs. 68,908 and Rs. 1,00,585 respectively. The arrears due for collection at the close of the year stood at Rs. 5,65,029.

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 as well as rent from the Squatters' Colonies require to be recovered in time as a number of proposals are received to write off these dues.

WATER SUPPLY.

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

The average daily supply to Greater Bombay during the year under report was about 1,163.73 mega litres as against 966.85 mega litres in the previous year. During the year, the quantity of water supplied to Greater Bombay was 4,25,956.45 mega litres as against 3,52,902.86 mega litres in the preceding year. Supply to the Thana Municipality, etc., was 8,529.57 mega litres as against 6,047.28 mega litres in the previous year. The total quantity of water supplied to bodies outside the limits of Greater Bombay was 18,170.74 mega litres as against 16,443.71 mega litres in the preceding year. Of the total supply to Greater Bombay, a quantity of 2,67,105.89 mega litres was for domestic purposes as against 2,16,773.93 mega litres in the previous year. The average daily supply for all purposes per head in Greater Bombay was 192.97 litres, while that for domestic purposes only worked out to 120.91 litres. Percentage of total supply for domestic and other purposes worked out at 62.70 and 22.30 respectively.

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

During the year, Upper Vaitarana water was released in the Vaitarna lake from 19th February 1972 to 31st March 1972.

The total number of water connections was 1,03,772 in the City, and new connections given were, respectively, 3,272 2,145 and 697 in the City, Suburbs and Extended Suburbs. 426 metered stand pipes were given during the year out of which 74 were given for the City, 253 for Suburbs and 99 in the Extended Suburbs. The total number of stand-pipes in the City, Suburbs and the Extended Suburbs was 3170 out of which 348 were in City, 2276 in Suburbs and 546 in the Extended Suburbs.

The number of complaints about short supply, etc., was 32794, 11981 and 2816 in the City, Suburbs and the Extended Suburbs, respectively.

157,14 and 106 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. 4,94,75,893 for the City as against Rs. 5,95,13,440 during the previous year. The total revenue collected from the Suburbs from supply of water by meter measurement was about Rs. 2,79,01,319. The figure for the Extended Suburbs for this item was Rs. 80,94,349.

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

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

FIRE BRIGADE DEPARTMENT.

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

The Fire Brigade received during the year 3,857 calls (for City, Suburbs and Extended Suburbs) as against 3,920 calls during the preceding year. Out of these 2,114 calls were for actual fires as against 2,124 calls during the preceding year. 517 calls were false alarms of which as many as 275 were due to malicious interference with street alarms as against 385 in the preceding year. 1,227 calls as against 1,161 in the preceding year were for special services, such as house collapses, rescue works, etc.

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

There were 21 serious fires during the year. The estimated total loss to property damaged by the fire was about Rs. 2,46,47,953 as against Rs. 5,89,96,893 during the previous year. The value of the insurance of properties affected by fire was about Rs. 40,49,850 as against Rs. 3,99,17,794 during the previous year and the total value of the property involved was worth Rs. 146.13 crores, as against Rs. 524.04 crores in the preceding year.

During the year 47 persons lost their lives due to burns of which 29 were males and 18 were women.

238 persons received minor injuries and 59 persons lost their lives in 419 incidents of house collapses during the year.

The approximate quantity of water used in extinguishing fires was 1,95,52,958 litres out of which 1,38,11,984 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 5,559 of which 1,025 were for accidents, 571 for maternity cases and 3,954 for hire cases.

First-Aid was rendered by the Ambulance staff on 195 occasions as against 184 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. 27,97,873.95 as against Rs. 26,35,498 in the preceding year.

PUBLIC GARDENS.

28. During the year under report, the Department maintained 265 sites for public recreation, including 72 Gardens, 8 Fountains, 6 Band Stands, 16 Traffic Islands, 92 Recreation Grounds, 6 Statues and 3 Box Hedges in the City, 45 Gardens, 4 Playgrounds, 1 Band Stand and 2 Traffic Islands in Suburbs and 15 Gardens, 1 Statue and 1 Band Stand in the Extended Suburbs.

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

At Veermata Jijabai Bhosale Udyan, the area under flower bed was converted into a Rose Garden, so also a new garden known as 'Rock Garden' has recently been developed behind Malabar Hill Garden.

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

VICTORIA AND ALBERT MUSEUM.

29. The total number of visitors during the year was 7,62,214 as against 7,10,886 in the preceding year.

The amount realised by the levy of admission fee was Rs. 21,053 as against Rs. 19,844 in the preceding year. The total expenditure on the maintenance of the Museum, during the year was Rs. 59,636.00 as against Rs. 65,886.00 during the preceding year.

During the year, a new show case was got completed for exhibiting the full coat of armour fitted on a dummy of Rajput Soldier. The work of providing lights around the Museum and improving lighting inside the Museum was also undertaken.

MUNICIPAL FREE READING ROOMS AND LIBRARIES.

30. As per Corporation Resolution No. 2256, dated the 18th March 1971, 18 Municipal Free Reading Rooms and Libraries out of 24 in Greater Bombay were managed by the Mumbai Marathi Grantha Sangrahalaya. The total number of new books purchased in Libraries in the City and Suburbs was 291 and 162, respectively, during the year under review and the number of visitors to the Reading Rooms and Libraries in the respective areas was 74,336, and 15,336 as against 74,660 in the City and 17,412 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. 1,38,89 and Rs. 3,620 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 348 cases as against 287 in the previous year and the number of contracts entered into for the various scheduled articles was 371 as against 452 in the preceding year. The number of casual or market enquiries or quotations invited for articles not covered under the schedule was 156 as against 275 in the preceding year. The value of stores and other materials purchased including articles received from other Departments on Return Stores Mema., during the year amounted to Rs. 177.55 lacs as against Rs. 153.15 lacs in the previous year.

2,975 orders for the purchase of stores against 3,014 in the preceding year were placed with contractors and other dealers. Against these purchases and stock on hand, the consuming departments submitted 31,223 indents and Sales Mema. as against 26,254 in the preceding year. At the close of the year, the department had, on hand, stores of the value of Rs. 71.93 lacs against Rs. 70.66 lacs in the preceding year.

The total amount realised by the sale of unserviceable articles through private offers including mixed scrap amounted to Rs. 0.52 lacs as against Rs. 3.14 lacs in the preceding year.

LICENCE DEPARTMENT.

32. During the year, the amount collected by way of licence fees, permit fees and transfer fees was Rs. 44.20 lakhs.

From the permits issued for exhibiting sky signs, advertisements, etc., the total revenue realised was Rs. 18.72 lakhs in the City, Rs. 3.13 lakhs in the Suburbs and Rs. 0.48 lakh in the Extended Suburbs, the corresponding figures for the last year being Rs. 13.76 lakhs in the City, Rs. 2.52 lakhs in the Suburbs and Rs. 0.47 lakhs in the Extended Suburbs.

The Department instituted 3,284 cases in the City, 1,566 cases in the Suburbs and 425 cases in the Extended Suburbs for offences under Sections 328A, 328B, 394 and 313(1) of the Bombay Municipal Corporation Act. The total amount of fines inflicted was Rs. 1,90,054 in the City, Rs. 99,005 in the Suburbs and Rs. 40,710 in the Extended Suburbs.

The number of squatters' and hawkers' licences issued were 70,998 in the City, 13,087 in the Suburbs and 392 in the Extended Suburbs. The amount realised therefrom was Rs. 11,13,169 for the City, Rs. 4,09,719, for the Suburbs and Rs. 1,23,556 for the Extended Suburbs, respectively.

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.

During the year under report, 5,326 auction sales of the articles seized by the encroachment removal staff but not redeemed by the parties were held and amount of Rs. 56,531 was realised as against Rs. 29,555 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.

SHOPS AND ESTABLISHMENTS.

33. The total number of establishments under the various categories including Theatres, etc., on 31st March 1972 was 97,688 in the City, 26,832 in the Suburbs and 14,028 in the Extended Suburbs as against 96,345 in the City, 24,308 in the Suburbs and 13,523 in the Extended Suburbs in the last year.

During the year under report, 1,005, 304 and 109 complaints, respectively, pertaining to City, Suburbs and Extended Suburbs, were received in addition to complaints pending from the preceding year out of which 967, 304 and 109 were investigated, leaving 89, 9 and 1 complaints pending at the close of the year.

At the beginning of the year 3,719, 1,427 and 270 prosecutions were pending while 3,392, 1,544 and 470 new prosecutions were instituted during the year. Of these prosecutions, 5,466, 1,693 and 588 resulted in convictions, 10 and 16 in acquittals and 10 and 4 and 6 cases were withdrawn. The number of cases pending at the end of the year was 3,625, 1,258 and 146. The total amount of fines realised was Rs. 2,12,107, Rs. 62,250 and Rs. 19,635 as against Rs. 2,36,861, Rs. 45,360 and 24,405 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. 4,43,274.71, Rs. 1,67,281.94 and Rs. 84,901.04 for the City, Suburbs and Extended Suburbs (exclusive of Provident Fund, Leave Contributions and Supervision Charges) against which a grant-in-aid of Rs. 2,93,384 was received from Government for the year 1971-72 for meeting part of the expenditure incurred during the year 1970-71. The total income by way of Registration fees, etc., for the year amounted to Rs. 3,49,895.67 Rs. 6,96,83.15 and Rs. 36,496.37 for the City, Suburbs and Extended Suburbs, respectively. Thus the total income including Government grant was Rs. 5,76,527.67 for the City, Rs. 1,13,084.15 for the Suburbs and Rs. 59,847.37 for the Extended Suburbs.

136 complaints pertaining to the Payment of Wages Act in the City, 77 for the Suburbs and 25 for the Extended Suburbs were received. 3 complaints in respect of City and 2 complaints in respect of Suburbs and 1 in respect of the Extended Suburbs were pending disposal at the close of the year under report.

The Standing Committee regrets to note that 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. 98.42 lakhs as against Rs. 97.00 lakhs in the previous year showing an increase of Rs. 1.42 lakhs.

During the year there were 63 Municipal and 21 private markets. The number of outside meat shops was 199 in the City, 266 in Suburbs and 98 in Extended Suburbs. The licence fees realised from private markets and outside meat shops were Rs. 95,961 and Rs. 19,600, respectively, in the City. The work of collecting scale fees at the Mahatma Jyotiba Phule Market continued to be carried out departmentally and the revenue collected therefrom amounted to Rs. 16,12,016 as against Rs. 13,87,516 during the previous year.

Surprise raids to detect the smuggling of animals and also the import and sale of contraband meat and unauthorised slaughter as also insanitation and congestion in markets were carried out during the year. During the year 42695 Kgs. of contraband meat was seized and destroyed. The fine imposed amounted to Rs. 41,889.

The total number of animals slaughtered during the year in the City was 14,91,384 as against 14,25,124 during the previous year.

The revenue derived from the source amounted to Rs. 27,88,266 as against Rs. 28,06,068 during the previous year.

All the Units of New Abattoir at Deonar have been Commissioned during the year. The inauguration of the Abattoir was performed by the Mayor, Dr. H. S. Gupte on 12th February 1972. The total revenue collected was Rs. 1.54 lacs.

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 Department Stores.

MUNICIPAL PRINTING PRESS.

35. During the year under report 470½ metric tons of paper was purchased. The total number of printing jobs carried out was 10,906 and the number of pages printed was 46,452 as against 11,576 and 41,470 in the preceding year. The total quantity of paper consumed during the year under report was 417½ metric tons as against 384½ metric tons in the previous year.

The transactions of the Press for the year closed with a working surplus of Rs. 7,4009 on the total turnover of Rs. 35,63,775 as against the deficit of Rs. 2,26,688 (1969-70) and surplus of Rs. 59,419 (1970-71), and the turnover of Rs. 26.54 lakhs and Rs. 33.05 lakhs respectively for the previous two years. The labour staff as on 29th February 1972, consisted of 308 workers as against 270 on the 28th February 1970 and 295 on 28th February 1971.

The Press has started the Work of Corporation, Law, Revenue and General Purposes and Markets, etc. Committees in Marathi letter press with the existing staff and machinery during the year under report.

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

The Standing Committee regrets to note 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 has increased, it is necessary to effect extension to the existing premises in order to accommodate the Marathi Section of Printing and the executive should take prompt measures for the same instead of awarding contracts to private Press for getting the work done.

K. E. M. Hospital.

36. This Hospital has completed 46 years of Service. The scheduled bed strength of the Hospital during the year was 1,450. Throughout the year, there was constant overcrowding in the Hospital as usual particularly in the Children Wards and the Medical and Surgical Wards for females. The total number of inpatients admitted during the year was 61,840 as against 60,761 during the preceding year. The average number of days each patient was resident was 11.1 days as against 10.8 days in the last year. The average cost per in-patient per day was Rs. 24.34 as against Rs. 19.46 in the previous year.

The total number of new out-patients treated was 3,78,013 as against 3,66,994 in the previous year. The out-patients attendance including casualty patients during the year came to 7,93,958.

26,331 operations were performed on in-patients and 42,879 operations were performed on out-patients.

The Dr. Jivraj N. Mehta Pharmaceutical Laboratory attached to the Hospital manufactured many injectables viz., 1,32,424 transfusion bottles 500 ml. 12,725 A. C. D. bottles, vials, 100, 50 and 10 m (15 types) 14,510 bottles, bulk injections and sterile solutions (six types) 253,085 litres stains and solutions for clinical use. The Blood Bank worked satisfactorily and during the year 12,254 Blood samples were supplied for transfusion out of Blood samples collected; 6,811 were from voluntary donors and 2,014 from relative donors and 2,630 from professional donors. An amount of Rs. 31,380 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 354 vasectomy operations and 1,376 Sterilization Operations. The total number of cases registered was 1,258 and the total attendance was 2,671.

565 Food Handlers working in hotels and restaurants in the City were referred to the hospital by H. O.'s Department from 1st March 1971 to 31st February 1972 for examination, of which only 318 persons attended. 70 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. 195.52 lacs approximately as against Rs. 1,77.44 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 Backward Class Community. There were 1,327 students on the roll, including Research Students.

There are three Hostels attached to the Seth G. S. Medical College. Male students Hostel has 148 rooms accommodation and Ladies Hostel has 36 rooms accommodation and Hostel situated at Naigaum meant for Interns has 56 rooms accommodation. 515 Male students and 152 Female Students have taken advantages of these hostel accommodations.

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 5,649, out of which 637 were cured, 4,692 were relieved, 227 were otherwise discharged, 4 left against medical advice and 17 died leaving 76 patients under treatment in the Hospital at the close of the year. The daily average attendance of out-patients was 226.52.

In all 5027 operations were performed on in-patients during the year.

An amount of Rs. 22,652.33 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 in patients on an average was 842 in the Hospital as against the scheduled bed strength 713. The total number of patients admitted during the year was 32,964 as against 30,909 during the previous year. The total number of in-patients treated was 33,826. The average cost per day per in-patient was Rs. 25.80 as against Rs. 25.03 during the previous year.

The total number of out-patients treated was 11,09,042 as against 7,10,921 during the previous year and the average number of out-patients attendance per day was 3624.32 as against 2330.89 of the previous year.

Under the Indo-Danish Project, equipment and material approximately costing Rs. 30,000 for preparing ear-moulds was received. 200 hearing-aids were received from Denmark for free distribution to deaf children.

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 60.

The expenditure incurred on the maintenance of the Hospital during the year 1971-72 amounted to Rs. 1,43,18,000 including repairs.

Topiwala National Medical College

40. The College had 638 under-graduate students on the roll at the close of the year, out of whom 162 were lady students. Besides, there were 33 post-graduate students including 110 lady students. 108 students including 23 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. 20.40 lacs as against 33.18 lacs during the previous year. The total income by way of tuition fees, miscellaneous, etc., receipts amounted to Rs. 3.30 lacs as against Rs. 3.41 lacs during the last year.

934 books were added to the Library during the year of which 146 were received by way of donations. The Library had at the end of the year 18,141 books as against 17,220 in the previous year.

Research Society.

The Research Society is functioning at these institutions since September 1964. 13 Research Projects were undertaken by the Society during the year under report. The Society sponsors lectures and seminars by prominent clinicians and scientists from India and abroad. A Bimonthly 'News Letter' is published giving information about departmental activities of an academic nature. A sum of Rs. 36,900 was received from seven different Pharmaceutical firms during the year under report for carrying out clinical trials on their products.

Nair Hospital Dental College.

41. During the year 1971-72, 48 students including 15 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 79 Dental Chairs, 77 Dental Units and 4 Dental X-Ray Units and other equipments to give dental treatment on most modern lines and also to facilitate teaching of dentistry. During the year, 81,874 patients were treated as against 86,028 during the previous year. 5,649 municipal school children were treated in the clinics. The total expenditure incurred was Rs. 15.50 lacs as against Rs. 13.52 lacs in the preceding year and the total revenue was Rs. 1,67,763.01 as against Rs. 1,67,984 during the preceding year.

724 Sets of the upper and lower Artificial Teeth, 464 Partial Sets of Teeth, and repairs to 247 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 paying and 10 reserved for B. E. S. & T. Employees). 44,656 patients were admitted for indoor treatment during the year as against 44,755 during the preceding year. The daily average number of in-patients was 890.4 as against 932.4 in the preceding year. The average number of days each patient was resident was 7.2 as against 7.6 during the preceding year.

The total average cost per day per in-patient was Rs. 26.79 as against Rs. 21.73 in the preceding year. The highest number of in-patients attendance on a single day was 1,016.

The total number of new out-patients was 2,53,010 with a daily average of 835 as against 2,31,513 and 759 respectively, in the preceding year. The highest number of out-patients attendance on a single day was 945 as against 1,242 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 1,161 as against 1,057 during the preceding year.

Audiology and Speech Therapy Department started from January 1970, gave satisfactory treatment to 1,149 patients.

The Flying Maternity squad taken over by the Corporation from the Indian Red Cross Society from 11th October 1971, attended 84 calls.

The approximate total expenditure of the Hospital during the year under report was Rs. 105 lakhs as against Rs. 96.35 lakhs in the preceding year.

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

The total expenditure of the College amounted to Rs. 2,74,263 during the year under report as against Rs. 2,46,160 during the previous year. The revenue of the College by way of tuition fees and miscellaneous receipts, etc., amounted to Rs. 1,34,501 as against Rs. 99,855 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 6,801 as against 7,078 during the previous year. Of these 5,566 were discharged as improved, 62 were non-Tuberculosis cases, 567 left prematurely against advice, 606 died and 742 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 544 cases.

As many as 2,845 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. 49,19,069 during the year. The average expenditure per patient per day was Rs. 18.74 as against Rs. 15.95 in the previous year.

The expenditure incurred during the year by the Corporation for treatment, etc., at the Sarvodaya Hospital, Ghatkopar, was Rs. 15.89 lakhs as against Rs. 15.52 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. 10,11,495. The total expenditure thus incurred by Corporation on Tuberculosis Services amounted to Rs. 75,19,150.

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 27,533 files as against 32,105 during the preceding year.

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

Education.

45. At the close of the year, there were 5,28,802 pupils in 956 Schools and 105 classes in Greater Bombay, the number in the City being 2,65,429 pupils in 493 Schools and 47 classes, in the Suburbs 1,87,282 pupils in 330 Schools and 38 classes and in the Extended Suburbs 76,091 pupils in 133 Schools and 20 classes. During the year, there was a net increase of 25,755 pupils in Municipal Schools. The total number of teachers in Greater Bombay at the end of the year was 1,4989 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 1,061 schools and classes, about 701 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 215. 3 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 218. Wherever possible, additional floors were constructed on some Municipal school buildings thereby increasing the number of class-rooms.

612 schools (including classes) were housed in Municipal owned school buildings, 419 schools including classes were housed in rented buildings and 30 schools were housed in rentfree buildings. Due to acute scarcity of accommodation in the City it has become practically impossible to acquire additional accommodation except by way of constructing buildings or extending the existing ones to meet the yearly increase in the number of pupils.

The Standing Committee is, however, of the opinion that the sites which have been reserved for schools under the Development Plan and which are in possession be developed by giving them priority and also efforts be made to acquire and to construct buildings on vacant plots so reserved.

Rahimtulla Currimbhoy Municipal Urdu Teachers' Junior College of Education, Inamwada—During the year under report, there were 77 trainees for D.Ed. Course of 2 years. 74 out of 78 trainees sent up for the First D. Ed. Examination held in April 1971, passed the examination.

Municipal Urdu Teachers' Junior College of Education, Mahim—During the year under report, there were 40 trainees in the D. Ed. Course. 37 trainees appeared for the D. Ed. 1st Year Examination held in April 1971, out of whom 31 passed. 6 Candidates appeared at the Supplementary examination held in October 1971; out of them 4 passed. 34 of 36 students on roll in D. Ed. 2nd year in 1971-72 appeared for the examination, in April 1972.

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 addition to the Teaching Aid Centre at Gilder Tank Building, two more Teaching Aid Centres were opened at Hindu Colony, Dadar and Unnatnagar Municipal School Building during the year under report at about 10,000 Teachers took advantage of these centres and prepared various teaching aids on different subjects.

Medical Inspection of School Children.

In all 1,41,204 pupils were medically examined out of whom 1,23,822 were found to be suffering from the 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 (First Aid Medicines).

The total number of Aided Schools in Greater Bombay during the year was 218 out of which 119 were in the City, 60 in the Suburbs and 39 in the Extended Suburbs as against 207 in the previous year. The total number of teachers in Aided Schools was 1,880 (1,627 ordinary and 253 special) imparting education to 67,183 pupils. The number of pupils in Aided Schools in the City, Suburbs and Extended Suburbs increased during the year under review from 61,633 to 67,893. The total number of Recognised Schools not receiving Grant-in-Aid was 391 (203 in the City, 131 in the Suburbs and 57 in the Extended Suburbs) with 3,979 teachers imparting education to 1,27,387 pupils.

The total expenditure for the year amounted to Rs. 9,76,41,406 which was met from Municipal contribution (Rs. 6,93,66,950), Government Grant, (Rs. 78,92,185), Education Cess (Rs. 1,60,69,806) and miscellaneous receipts (Rs. 19,82,295).

Secondary Schools.

During the year under report no new secondary schools were opened due to paucity of funds. During the year there were 435 divisions, and the teaching staff was 650. The total number of pupils attending these schools was 18,870.

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. "Supervision Project" in multilingual schools in almost all the Wards was continued and in-service Training Classes for teachers teaching science in Primary Classes were conducted during the year.

The Graded Assignments in Languages (Marathi and Gujarati) and Arithmetic for Std. II have been prepared and are ready for distribution. Under "The Science and Mathematics curriculum Improvement Programme" during the year, New Mathematics Workshops for primary teachers were conducted and guidance and orientation was given to more than 500 teachers from different Bants.

Special Classes for Mentally-Retarded Children.

The Corporation has started Lions Juhu Centre for mentally retarded children in collaboration with Gujarat Research Society and Lions Juhu. The education is imparted through Marathi, Gujarati, Hindi and English by trained and experienced Staff. The Pupils are taught craft work and paper making work also. Special Classes have been started on experimental basis for June 1971 in 'C', F (South), R and N Wards Teaching aids specially meant for mentally retarded children are provided in these classes. The pupils are also medically tested regularly by psychologists. These pupils are not benefitted from attending ordinary Schools, so they are provided more and more benefits.

Extra Curricular Activities.

Several functions Such as Sharad Utsav, School Anniversaries, Independence and Republic Days were celebrated in a number of schools where special invitations were given to the parents so as to bring them into close contact with Schools. Vacation Coaching Classes at 25 Centres were conducted and the children were promoted to the next higher standards after successful completion of these Courses. Educational Seminars were organised. Vacation Libraries were conducted at 47 centres for the benefit of the Children.

Schools Feeding Programme.

Under School Feeding Programme, all children of Municipal Primary Schools in Stds. I to IV were catered with 200 ml. of double-toned pasturised milk in sealed bottles on every working day except during the month of April when the examinations are being conducted. During the year under review, about 2,50,000 children were getting 15 to 16 gms. of biscuits containing 15 per cent protein on every alternate school working day. Besides nearly 1,00,000 children were catered with peanuts (groundnuts and Sweet buns).

LABOUR DEPARTMENT.

47. During the year, 23 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. Three new Union were recognised during the year under report, viz. (1) Bombay Municipal Medico-Technical staff Association; (2) The Maharashtra State Nurses Welfare Association and (3) The Municipal Workers' Union.

The Department dealt with 17,683 complaints (including suburbs) as against 16,562 in the previous year, regarding service conditions, recruitments, promotions, transfers, etc. Of these complaints 16,993 were redressed, 618 were found not genuine cases and 72 cases were pending at the close of the year.

The recreational, educational, hygienic, cultural and social activities, indoor as well as outdoor, organised by the Welfare Branch of the Department, for the benefit of Municipal workers and their dependents, were continued. The average daily attendance of adults and children at the Welfare Centres was 2,515 and 2,640, respectively as against 2,400 and 2,580 during the preceding year. A Welfare Centre was opened at Annesley Road Municipal Chawls during the year.

Interward and Interdepartmental competitions were held for the first time for the year under report at Birla Kreedha Kendra from 12th January to 26th February 1972. 14 Departments participated in the competitions.

Under the scheme for granting scholarships to the children of Municipal employees. 512 applications were received and 186 scholarships were granted to applicants for higher education and 293 for secondary education. The total amount given by way of scholarships to the municipal employees was Rs. 45,480. The total strength in Scout and Guide Sections was 4,522 as against 4,311 during the preceding year.

Publicity Department.

48. This Department effected publicity about the various activities undertaken and service rendered by different Departments and 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, 1972, in English, Marathi and Gujarati.

Necessary Co-operation was extended for the activities, campaigns, etc., carried out by the Citizens' Committee for Clean Bombay Campaign. Necessary assistance was also given to departments holding various official functions and public meetings connected with civic matters.

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 481 which brought a revenue of Rs. 10,180. Facilities to 8 crippled children were given free of charge. As many as 38,665 casual swimmers including labourers and factory workers availed of the facilities of swimming. Reservation of the Pool at a concessional charge was also allowed, as usual, to Thirteen Educational Institutions. Twelve members of the Pool were included in the Maharashtra State Aquatic Association's team for participating in the National Aquatic Championship held at Ahmedabad in October 1971. 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 during the year under report.

4,077 new members joined the Pool during the year under report. 1,187 beginners were trained during the year. An amount of Rs. 1,98,435 was collected by way of fees as against Rs. 3,05,861 during the previous year. The expenditure during the year was Rs. 1,46,047.

The Pool was closed from 18th November 1971 to 30th November 1971 and from 1st February 1972 to 16th March 1972 for repairs work and also during the conjunctivitis epidemic in the City, from 20th April 1971 to 5th May 1971.

Sardar Vallabhbhai Patel Swimming Pool, Kandivli.

1,822 members joined the pool of which 906 were beginners. The collection of fees during the year was Rs. 80,700 as against total expenditure of Rs. 82,200.

Ghatkopar Lions Municipal Swimming Pool, Ghatkopar.

A new Swimming Pool at Ghatkopar was opened to the public on 28th March 1971 by Dr. Shanti Patel, Mayor of Bombay.

5,888 members joined the pool of which 3,962 were beginners. One Educational Institution was allowed to have Swimming facility at the Pool at concessional rate. The collection of fees during the year was Rs. 2,54,083 as against total expenditure of Rs. 1,12,625.

Administrative Officer (Enquiries) Department.

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

736 cases of misconduct and breach of rules were dealt with during the year as against 678 cases in the previous year. In 105 cases, punishments varying from dismissal, removal from service to censures and warnings were meted out. In 94 cases enquiries were in progress at the end of the year.

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

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

The 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 matters of civic importance two features— Publications of Interviews of Municipal Councillors and Officers and the 'know your Ward.'—were continued, during the year under report.

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.

Six Classes were conducted to teach Marathi to Municipal employees, including nursing staff, who do not have Marathi as their mother tongue. (1) One Book प्रशासकीय लेखनातील अ. भा. इ. पुस्तक पहिले giving English and Marathi versions, side by side, in respect of remarks, orders, short notes, etc. commonly used in the various departments of the Corporation was prepared and circulated. (2) Answering of questions in Marathi was introduced in the departmental examinations. (3) Circulars were issued in Marathi. (4) Examinations were held for assessing the knowledge acquired by employees in noting and drafting in Marathi.

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.

Productivity Cell.

53. The Productivity Cell, established in the year 1968, comprising of specially trained personnel, in the fields of 'Industrial Engineering' and 'Management Techniques' is charged with the task of suggesting ways and means of stepping up efficiency by cutting down waste. One Executive Engineer was in-charge of the Cell during the year. The major problems such as management of Swimming Pool; over crowding at O. P. D. at the Bhabha Hospital, Kurla Municipal Work-Shop Stores, Office accommodation at Head Office for proposed Water and Sewage Board, etc. were studied during the year.

Four training officers of the cell were sponsored for 'O & M' Course arranged by the Bombay Productivity Council. PERT/CPM training programmes were carried out for the technical staff. Road maintenance Manual has been prepared. Manual for the clerical unit is also under preparation.

Library units of the various technical departments have been taken over and were amalgamated to form a centralised Library.

Bombay Municipal Security Force.

This Force was separated for Administrative purposes from A. O. (Enquiries) Deptt. and was put under the Commissioner direct since June 1971.

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

In 34 cases, punishments varying from dismissal, removal from service to censures and warnings were meted out. In 82 cases enquiries were in progress at the end of the year.

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. 120 Security Guards were imparted training during the year under report.

The Standing Committee are glad to know about the valuable services rendered by the Security Force at the time of the All India Mayors Conference held in the City.

Public Health.

55. *Population Census.*—The mid-year estimated population of Greater Bombay was 60,33,000.

During the period from January to December 1971, 9 Municipal Dispensaries and 1 Maternity Home were opened. An independent Physiotherapy & Occupational Therapy Ward was opened at K. B. Bhabha Hospital and Dr. R. N. Cooper full fledged Municipal General Hospital was inaugurated.

Birth and birth rate.—The total number of live births recorded in Greater Bombay during the year was 1,64,293 which were 2,981 more than in 1970 and 8,498 above the average of the *quinquennium* 1966-70. The birth rate was 27.2.

Deaths and death rate.—The total number of deaths registered from all causes during the year was 57,245 in 1971 as against 55,898 in 1970, being 3,573 more than the mean mortality of the preceding 5 years and the death rate was 9.5 against 9.8 in the year 1970. Out of 57,245 deaths, 33,945 deaths were among males and 23,300 among females. The excess of deaths amongst males may be ascribed to the preponderance of males in population. The death rate among males was, however, actually higher than that among females, the male death rate being 9.8 per cent and the female death rate 9.4 p.c. against 13.2 and 13.8 respectively, in 1970. Diseases of the respiratory system claimed the highest number of deaths as in the past with a death rate of 1.8 per 1,000 of population. The causes coming next on the list for the year were tuberculosis (1.1), congenital malformation and diseases of early infancy. (1.0) diarrhoea and dysentery (0.7).

Infant Mortality.—Deaths among infants under one year of age numbered 12,973 which were 21 less than in preceding year and 203 less than the annual average of the previous *quinquennium* (1966-70). The infant mortality rate for the year was 79.0 per 1,000 live births as against 80.6 in 1970.

Maternity and Child Welfare.—During the year under report, services were rendered through 19 Municipal Maternity Homes, four Hospitals with Maternity Wards and 34 Maternity and Child Welfare Centres. The number of deliveries conducted in these Homes was 59,410 during the year. The average stay of mothers at the Maternity Homes was 5 days.

Communicable Diseases.—The total number of cases of infectious diseases reported during the year was 31,749 as against 33,673 in the preceding year. Infectious Hepatitis caused 1,777 attacks and 203 deaths. There were no cases of small pox and Influenza. Enteric Fever caused 1,359 attacks and 47 deaths. Diphtheria caused 1,528 attacks and 97 deaths. Cerebro-spinal meningitis caused 4 attacks. Tuberculosis took a toll of 6,339 lives and the death rate of Tuberculosis was 1.1 per 1,000 of mid-year estimated population.

458 cases of Acute Anterior Poliomyelitis and 59 deaths thereby were reported during the year. 1,03,733 children were immunised against Polio.

Medical 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 9,20,668 persons were inoculated against Cholera and 7,26,904 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.

56. The number of new cases treated at the 80 dispensaries and 15 mobile dispensaries were 27,10,545 as against 23,68,630 in the year 1970. 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 1,678 (1,490 women and 188 children) as against 1,875 in 1970. The total attendance was 16,754. These figures include the visit of lady doctors to patients at their homes. At 34 Maternity and Child Welfare Clinics 2,89,990 new cases (1,93,865 women and 96,125 children) were treated. The total attendance was 14,97,106.

To begin with, 13 general Municipal Dispensaries were upgraded by providing thereat facilities for screening and routine laboratory investigations.

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

The average daily attendance of patients was 260.3 and the total number of new cases, treated at the Acworth Leprosy Hospital Clinic was 4,237. The average daily attendance of patients was 374.46 and the total number of new cases treated at the Greater Bombay Leprosy Control Scheme Clinics was 2,595.

School Health Work.

57. During the year, out of about 5,69,093 primary municipal school children, 1,09,825 children were found to be defective. Of 19,000 students studying in secondary schools, 12,064 were medically examined and 9,028 were found defective. 890 cases with minor ailments among the children were treated in the municipal dispensaries. 77,389 children with major ailments were treated at the K. E. M. Hospital, Nair Hospital and the L. T. M. G. Hospital, Dental Clinic at Nair Hospital and Lion Juhu Dental Clinic and H. B. M. G. Hospital, Borivili, etc.

53,708 children from Municipal Schools were B. C. G. vaccinated and 2,66,597 children were given T.A.B. inoculation. 1,03,690 children were given doses of Diphtheria and Tetanus and 1,35,976 children were vaccinated against small pox. 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.

58. Except Tuberculosis and Leprosy, patients suffering from other infectious diseases are admitted to the Hospital. The total number of patients admitted during the year was 31,749 as against 33,673 in the preceding year. They included 1,179 cases of Enteric Fever and 1,421 of Diphtheria and 1700 of Infectious hepatitis.

There were as many as 1,421 cases of Diphtheria out of which 100 proved fatal showing the fatality rate of 7.0 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.

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

The total expenditure of the Hospital during the year was Rs. 48,68,895 as against Rs. 63,84,834 in the preceding year.

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

Audit.

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

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

Acknowledgement.

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

**ADMINISTRATION REPORT
OF THE MUNICIPAL COMMISSIONER
FOR GREATER BOMBAY
FOR THE YEAR 1971-72**

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. H. S. Gupte, who was elected Mayor at the First Meeting of the Corporation, held on the 2nd April 1971, held that Office throughout the year.

2. One hundred and twenty seven Meetings of the Corporation including six Special Meetings, four Adjourned Special Meetings, one hundred and three meetings of the Special Committees and sixteen meetings of the Consultative Committees were held during the year.

3. The Corporation accorded Civic Receptions to (i) The Delegates attending the 20th Conference of the Asian Regional Organization of the International Confederation of Free Trade Unions; (ii) The Indian Cricket Team prior to their visit to England; (iii) The Indian Cricket Team on their return to India and (iv) The delegates attending the 10th Conference of the Municipal Corporations of India.

4. The changes that took place in the personnel of the Corporation were the resignations of Shri K. A. Sapat from 2-12-1970 and Shri S. A. Modi from 5-2-1971, as Councillors.

STANDING COMMITTEE.

5. Shri R. P. Patil was elected Chairman of the Standing Committee at their Meeting held on 13th April 1971 and held that Office throughout the year.

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

7. Smt. Indumati Patel was an ex-Officio Member of the Standing Committee on her appointment as the Chairman of the Education Committee with effect from 13th April 1971.

8. One hundred and seven Meetings including Adjourned Meetings and sixteen Special Meetings including Adjourned Special Meetings were held during the year.

9. Eight meetings of the Sub-Committees were held during the year.

IMPROVEMENTS COMMITTEE.

10. Shri S. L. Dandekar was elected Chairman of the Improvements Committee at their Meeting held on 15th April 1971, and held that Office throughout the year.

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

12. Twenty-nine regular Meetings including Adjourned Meetings and one Special Meeting including Adjourned Special Meeting were held during the year.

EDUCATION COMMITTEE.

13. Smt. Indumati T. Patel was elected Chairman of the Education Committee at their Meeting held on 13th April 1971 and held that Office throughout the year.

14. The change that took place in the personnel of the Education Committee was the appointment of Smt. D. P. Vora as a Non-Councillor Member of that Committee from 4th May 1971 vice Shri M. R. Dandavate resigned from 13th April 1971.

15. Twenty regular Meetings including Adjourned Meetings were held during the year. No Special Meeting or an Adjourned Special Meeting was held during the year.

16. (a)(i) Shri P. C. Pandya, M.A., LL.B., M.P.A. (U.S.A.) continued to hold the office of the Municipal Secretary during the year except during the period from 9th April to 7th August 1971 and from 1st September to 2nd November 1971.

(ii) Shri A. J. Avasare, M.A., LL.B., was appointed as Ag. Municipal Secretary during the period from 9th April to 7th August 1971 and from 1st September to 2nd November 1971.

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

(c) There was no separate Award or Adjudication during the year 1971-72, so far as this Department is concerned.

**LIST OF MEMBERS OF THE CORPORATION WHO HELD OFFICE ON 31ST
MARCH 1972.**

Dr. H. S. GUPTA, Mayor.

SHRI R. P. PATIL, Chairman, Standing Committee.

SHRI S. L. DANDEKAR, B.A. (HONS.), LL.B., Chairman, Improvements Committee.

SMT. INDUMATI, T. PATEL B.A. Chairman, Education Committee.

SHRI KISAN, G. MEHTA B.A. (HONS.), LL.B. 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., S.T.C.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 S. L., 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, SHRI N. C., B.Sc., L.T.C.
DALAL, SMT. DEVIBEN S., B.Sc.
DANDAVATE, SMT. PRAMILA M., M.A., G.D. (Art.)
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.C.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.
GHOKSHE, SHRI G. D., B.A. LL.B.
GOKHALE, SHRI S. S., B.Sc., B.Ed.
GORE, SMT. MRINAL K.
HALDANKAR, SHRI M. S., B.A., B.Ed.
INDULKAR, SHRI P. M.
JAMSANDEKAR, SHRI H. D.
JANI, SHRI S. M., Sahitya Ratna.
JILANI, SHRI K. G.
JOSHI, SHRI J. K.
JOSHI, SHRI M. G., M.A., LL.B.
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.
KARIRA, SHRI T. K.
KAVTHE, SHRI M. N.
KHAIRE, SHRI R. A.
KHANDWANI, SHRI M. A.
KHANOLKAR, SHRI M. S.
KHARUDE, DR. D.H., Ayurved Bhisak.

KHEDEKAR, SHRI D. G.
KOHLI, SHRI SOHANSINGH J.
KOPARDE, SHRI E. R., B.A.
KORDE, SMT. SNEHALATA V.
KULKARNI, DR. R. N.
MAHADIK, SHRI V. S., B.A. (Hons.), L.S.G.D.
MAHAJAN, SHRI D. R.
MANTRI, SHRI L. S., B.Com., LL.B.
MATLIA, SHRI S. N.
MEHTA, SMT. JAYAWANTIBEN N.
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. Advocate, High Court.
NALAVDE, SHRI D. S.
NAVALKAR, SHRI P. S., B.A.
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.
PAREKH, SHRI J. G.
PAREKH, SMT. TARABEN D.
PARVATKAR, SHRI V. M.
PATEL, DR. S. G., M.B., B.S.
PATIL, SHRI A. W.
PATIL, SHRI D. B.
PATKAR, SMT. GEETA D., B.A., LL.B.
PUJARI, SHRI L. P.
RAGINWAR, SHRI R. W., Master Mariner.
RAJDA, SHRI RATANSINGH G., B.A., LL.B.
RAMASWAMY, SHRI A. V. T.
RANGNEKAR, SMT. AHILYA P., B.Sc.
SALVI, SHRI D. J.
SALVI, 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.
TIKEKAR, SHRI V. M., B.A., LL.B.
TORNE, SHRI S. G., M.A., LL.B.
TRIPATHI, SHRI RAMMANOHAR V., M.A.
TRIVEDI, SHRI H. 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 1972.**

SHRI R. P. PATIL (Chairman)

SHRI M. H. BEDI
SHRI V. R. BHOSALE
SHRI H. J. CORREA
DR. J. LEON D'SOUZA
SHRI S. S. GAIKWAD
SHRI M. A. KHANDWANI
SHRI V. S. MAHADIK
SHRI D. R. MAHAJAN.

SHRI L. S. MANTRI
SHRI N. D. MEHTA
SHRI V. B. NAGVEKAR
SHRI V. M. PARVATKAR
SMT. INDUMATI T. PATEL
SHRI R. G. RAJDA
SHRI B. N. SHROFF
SHRI V. G. WANDREKAR.

**LIST OF THE MEMBERS OF THE IMPROVEMENTS COMMITTEE WHO HELD OFFICE
ON 31ST MARCH 1972.**

SHRI S. L. DANDEKAR (*Chairman*)

SHRI H. R. BHUGRA.
SHRI R. K. CHIMBULKAR.
SHRI H. W. CHOGLA.
SHRI R. M. DUBE.
SHRI A. N. NAJMI.
SHRI D. S. NALAVADE.
SHRI P. D. NIKLANKAR.
SHRI VADILAL M. PANCHAL.

SHRI A. W. PATIL.
SMT. GEETA D. PATKAR.
SHRI R. W. RAGINWAR.
SHRI V. T. RAMASWAMY.
SHRI D. N. SALVI.
SHRI N. S. TAWDE.
SHRI V. M. TIKEKAR.

**LIST OF THE MEMBERS OF THE EDUCATION COMMITTEE WHO HELD OFFICE.
ON 31ST MARCH 1972.**

SMT. INDUMATI T. PATEL (*Chairman*).

SHRI S. N. ACHARYA.
SHRI R. C. ANKLESHWARIA.
SHRI S. S. GOKHALE.
SHRI P. M. INDULKAR.
SMT. V. M. NADKARNI.
SHRI G. V. NERLEKAR.
SMT. KAMALA RAMAN.
SHRI D.N. SALVI.

SMT. KANTABAI C. SHAH.
SHRI J. Y. SINGHANIA.
SHRI V. R. TAWDE.
SHRI H. N. TRIVEDI.
SHRI M. T. VAIRAGI.
SHRI K. C. VYAS.
SMT. DHAIRYABALA P. VORA.

MUNICIPAL OFFICERS

MUNICIPAL COMMISSIONER'S OFFICE

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

Designation	Name of the Officers.	Period
Municipal Commissioner	Dr. M. N. Desai, B.A., Ph.D., I.A.S.	1-4-1971 to 31-8-1971
	Shri S. M. Y. Sastry, M.A., B.L.	1-9-1971 to 15-10-1971
	Dr. M. N. Desai, B.A., Ph.D. I.A.S.	16-10-1971 to 31-3-1972
Dy. Municipal Commissioner (Senior)	Shri S. M. Sastry, M.A., B.L.	1-4-1971 to 9-6-1971
	Shri P. C. Pandya, M.A., LL.B., B.T., M.P.A. (U.S.A.)	10-6-1971 to 7-8-1971 Deputised to work as D.M.C. Z-II in place of Shri Vaidya, D.M.C. Z-II who held the charge of the office of D.M.C. (Z-I) from 10-6-1971 to 24-6-1971. Shri Pandya held the charge of the office of D.M.C. Z-I from 25-6-1971 to 7-8-1971. Shri Soares, D.M.C. (I) and (Zone-I) also held the charge of the office of D.M.C. (Sr.) from 10-6-1971 to 7-8-1971.
	Shri S. M. Y. Sastry, M.A., B.L.	8-8-1971 to 31-8-1971
	Shri P. C. Pandya, M.A., LL.B., B.T., M.P.A., (U.S.A.)	1-9-1971 to 2-11-1971 Deputised to work as D.M.C. (Z-I) in place of Shri Soares, D.M.C. (I) and (Zone I) who also held the charge of the Office of D.M.C. (Sr.) during the period Shri Sastry was appointed as M.C. from 1-9-1971 to 15-10-1971 and during the period of Shri Sastry's leave from 16-10-1971 to 2-11-1971 preparatory to retirement and also thereafter till the close of the period under report.
Dy. Municipal Commissioner (Personnel)	Shri R. G. Gulgule, B.COM.	1-4-1971 to 5-5-1971
	Shri P. C. Pandya, M.A., LL.B., B.T., M.P.A. (U.S.A.)	6-5-1971 to 9-6-1971 Deputised to work as D.M.C. (Z-II) in place of Shri Vaidya D.M.C. (Z-II) who held the charge of the Office of D.M.C. (P) during this period.
Dy. Municipal Commissioner (Improvements)	Shri R. G. Gulgule, B.COM.	10-6-1971 to 31-3-1972.
Dy. Municipal Commissioner (Zone II)	Shri C. Soares, B.E. (Civil).	1-4-1971 to 31-3-1972
Dy. Municipal Commissioner (Zone III)	Shri P. C. Pandya, M.A., LL.B., B.T., M.P.A. (U.S.A.)	1-4-1971 to 5-5-1971
	Shri V. C. Vaidya, M.A., LL.B.	6-5-1971 to 31-3-1972.
Dy. Municipal Commissioner (Special Engineering)	Shri B. H. Prabhavalkar, M.A.	1-4-1971 to 31-3-1972.
	Shri V. D. Desai, B.E. (Civil), M.E. (P.H.) Calcutta with 1st class, A.M.I.E. (India)	1-10-1971 to 31-3-1972.

MUNICIPAL CHIEF AUDITOR

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

OTHER HEADS OF DEPARTMENTS (CITY)

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 1st class M.I.E. (India).	1-4-1971	30-9-1971.
		Shri G. Naganna, B.E. (Civil)	1-10-1971	31-3-1972.
(2)	Chief Accountant	Shri V. C. Parikh, B.COM., C.A., I.L.B.	1-4-1971	2-5-1971 and 2-6-1971 to 31-3-1972
		Shri M. V. Kanekar, B.COM., F.C.A.	3-5-1971	1-6-1971.
(3)	Hydraulic Engineer	Shri K. D. Mulekar, B.E. (Civil) M.E. (P.H.).	Throughout the year.	
(4)	Executive Health Officer	Dr. D. V. Parulekar, M.B.B.S., D.P.H., M.P.H. (U.S.A.)	do.	
(5)	Dean, K. E. M. Hospital & G. S. M. College	Dr. T. H. Rindani, M.D., D.Sc. F.A.Sc., F.A.M.S.	do.	
(6)	Dean, B. Y. L. Nair Charitable Hospital & T. N. M. College	Dr. C. K. Deshpande, M.B.B.S., M.D. (Path.)	do.	
(7)	Dean, Nair Hospital Dental College.	Dr. M. S. N. Ginwalla, L.D.Sc., D.D.S., M.Sc., F.I.A.O.S., F.A.M.S.	do.	
(8)	Chief Fire Officer	Shri S. Fredilis	do.	
(9)	Dean, L. T. M. G. Hospital & L. T. M. M. College.		Dr. V. N. Panse, M.D., M.P.H. (Colombia) looked after the duties of this office from 1-4-1971 to 11-5-1971.	
(10)	Medical Supdt. G. T. B. Hospital.	Dr. M. S. Kekre, M.B., B.S., M.Sc. (Med.)	12-5-1971	31-3-1972.
		Dr. S. A. Shah, M.D., D.M.R.E., D.P.H., T.D.D., F.C.C.P.	Throughout the year.	
(11)	Assessor & Collector	Shri D. B. Angadi, M.A.	1-4-1971	6-8-1971.
		Shri R. G. Rele, B.Sc., L.S.G.D.	1-10-1971	31-3-1972.
(12)	Education Officer.	Dr. (Smt.) Madhuri R. Shah, B.A. (Hons.), M.Ed., Ph.D. (Bombay) 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).	1-4-1971	30-9-1971.
		Y. H. Kemat, B.E. (Civil), A.M.I.E. (India)	16-10-1971	31-1-1972.
		Shri T. M. Kandawala, B.E. (Civil), A.M.I.E. (India)	1-2-1972	31-3-1972.
			Shri Kandawala also looked after the duties of this office from 1-10-1971 to 15-10-1971.	
(15)	Controller of Stores	Shri K. S. Pesina, B.E. (Civil)	Throughout the year.	
(16)	Superintendent of Markets and Slaughter Houses	Dr. M. D. Bailure, B.Sc., (Vet) M.R.C.V.S.	1-4-1971	10-6-1971. Dr. R. D. Dabholkar B.Sc. (Vet.) and M.Sc. looked after the duties of this office from 11-6-1971 to 24-2-1972.
		Ward Officer (Markets)	Shri A. N. Sabnis B.E. (Civil), M.E. (P.H.), A.M.I.E. (India)	25-2-1972	31-3-1972.
(17)	Administrative Officer (Enquiries).	VACANT	Shri C. K. Patel M.A. LL.B. looked after the duties of this office throughout the year.	
(18)	Security Officer	Shri B. R. Sawant	Throughout the year.	
(19)	Ward Officer (Estates)	Shri K. U. Mehta B.A. (Hons.), Kovid	do.	
(20)	Labour Officer	Shri G. S. Saudagar, B.A. (Hons.), LL.B., Dip. L.W.	do.	
(21)	Public Relations Officer	Shri N. A. Mistry, M.A., D.J., Dip. S.W.	21-4-1971	22-4-1971.
		Shri K. T. Pandit, M.A.	23-4-1971	31-3-1972. Shri K. T. Pandit also looked after the duties of this office from 1-4-1971 to 20-4-71.

Sr. No.	Designation	Name of the Officer	From	Period To
(22)	Dy. Assessor & Collector (Octroi) & Election Branch.	Shri P. R. Karkhanis	1-4-1971	looked after the duties of this office from 1-4-1971 to 15-7-1971.
		Shri R. G. Rele, B.Sc., L.S.G.D.	16-7-1971	to 30-9-1971.
		Shri N. S. Chaubal, B.Sc., 1st LL.B.,	1-10-1971	looked after the duties of this office from 1-10-1971 to 14-10-1971.
		Shri P. R. Karkhanis	15-10-1971	to 31-3-1972.
(23)	Supdt. of Licences	Shri C. K. Patel, M.A., LL.B.	...	Throughout the year.
(24)	Supdt. of Gardens	Shri J. C. Garkhel, B.Sc. (Hons.), (Agri.)	...	do.
(25)	Research Officer	Dr. V. Y. Pendharkar, B. sc. (Hons) M.Ed., Ph.D.	...	do.
(26)	Officer on Special Duty (Printing Press)	Shri A. G. Hemmadi.	...	do.
(27)	Asstt. Medical Officer, Ear, Nose, & Throat Hospital	Dr. (Kum.) S. R. Mudbhatkal, M.B.B.S., D.G.O. (Bom.)	...	do.
(28)	Organisation & Methods Officer	Dr. S. D. Parchure, M.A., Ph.D.	1-4-1971	to 10-5-1971 and 14-6-1971 to 12-7-1971 and 31-10-1971 to 31-3-1972. Shri D. T. Chaubal, B.Sc. P.A to M.C. looked after the duties of this office from 15-7-1971 to 30-10-1971.
(29)	Curator, Victoria & Albert Museum and Chief Librarian.	VACANT	...	The following persons looked after the duties of this office-Shri V. N. Barve, B.A. (Hons.) L.S.G.D. from 1-4-1971 to 18-4-1971 and from 19-5-1971 to 31-3-1972. Shri A. R. E. Sonde Ag. Head Clerk from 19-4-1971 to 3-5-1971 and Shri P. B. Desai Ag. Head Clerk from 6-5-1971 to 18-5-1971.
(30)	Manager, Mahatma Gandhi Memorial Olympic Swimming Pool	Shri S. N. Pirge, L.S.G.D.	...	Throughout the year.
(31)	Manager, Raja Baldevdas Birla Kreedha Kendra.	Shri S. G. Gavankar, B.A., L.S.G.D., P.H.I., L.G.S.	...	do.

(SUBURBS AND EXTENDED SUBURBS)

Sr. No.	Designation	Name of the Officer	From	Period To
(1)	Dy. Executive Health Officer, (Suburbs)	Dr. M. K. Vaidya, M.B.B.S., D.P.H.	...	Throughout the year.
(2)	Dy. Accountant (Suburbs)	Shri S. D. Nadkarni, B.A., (Hons.) Pravin	1-4-71	to 2-7-71 and 2-8-71 to 20-10-71,
		Shri S. V. Barve, B.Sc.	3-7-71	to 1-8-71 & 21-10-71 to 26-12-71
		Shri V. N. Pandit, B.A. (Hons.) Pravin 1st class.	27-12-71	to 31-3-72.
(3)	Dy. Assessor & Collector (Suburbs)	Shri S. G. Pathak, B.A., (Hons.)	1-4-71	looked after the duties of this office from 1-4-71 to 15-7-71.
		Shri S. S. Murkute, B. COM. LL.B., L.S.G.D.	16-7-1971	to 31-3-1972.
(4)	Dy. Assessor & Collector (Eastern Suburbs)	Shri P. R. Karkhanis	23-7-1971	to 14-10-1971
(5)	Asstt. Supdt. of Markets (Suburbs)	Shri P. D. Kamat	15-10-1971	to 31-3-1972.
		Shri M. G. Talim	1-4-1971	to 22-9-1971.
(6)	Asstt. Supdt. of Markets (Eastern Suburbs)	Shri Sk. Yunus Sk Ahmed.	23-9-1971	to 10-10-1971.
		Shri M. L. Naik.	25-10-71	to 30-11-71 and 1-2-1972 to 31-3-1972.
		Shri N. V. Prabhu, L.S.G.D.	1-12-1971	to 26-1-1972.
(7)	Asstt. Supdt. of Markets (Western Suburbs)	Shri M. G. Talim	23-9-1971	to 31-10-1971 and 1-12-1971 to 26-1-1972.
		Shri N. V. Prabhu, L.S.G.D.	1-11-1971	to 30-11-1971 and 27-1-1972 to 31-3-1972.

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 13,771.

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 cases of the house collapses and such other emergencies, the Municipal Officers and staff appear on the scene without any delay. Co-ordination between the heads of the departments is also brought about on such occasions.

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

D. G. GHATE,
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 Hall on the first floor on all days between 4 p.m. and 7 p.m. except Sundays and Holidays. The Chowpatty Foreshore was kept under the supervision of the Manager for maintenance of sanitation. During the period under report the amount of Rs. 1,12,957 was collected by way of revenue.

APPENDIX 'A'

Children's Halls on the first floor.

Section	Approximate attendance of children visitors during the year 1971-72
Film Section Toy Train and Bal Bhavan Section. }	1,10,000

APPENDIX 'B'

Section.	No. of days reserved by the public.
Hall and outside space.	245
	Approximate No. of visitors.—3,00,000

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

SPECIAL TECHNICAL UNIT

The Special Technical Unit under the Executive Engineer (Vigilance) is a branch of the Municipal Commissioner's Establishment. The Executive Engineer (Vigilance) is assisted by 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, pays surprise visits to Municipal Construction works and Municipal Maintenance Jobs, investigates complaints relating to the Technical Matters and examines cases referred to by the Municipal Commissioner and Heads of Departments. 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 initiates hammer and load tests on construction works.

The Special Technical Unit in addition carries out sample checking of:—

- (a) Final bills of Municipal Construction works and
- (b) Private Building Proposals after Building Occupation Certificates are granted.

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

The 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., A. O. (Enquiries etc.), and also some complaints received in the office of the Executive Engineer (Vigilance) in respect of private constructions on private lands, factories, insanitary conditions, drainage, etc.

Some details of the work done by the unit during the year 1971-72 are as follows:—

(1) No. of visits paid on Municipal Works —	
(a) Building Construction Works	422
(b) Road Construction Works	252
(c) Drainage Construction Works	285
(2) No. of final bills checked	48
(3) No. of the Works Committee rounds attended	2
(4) Miscellaneous visits	459
(5) Cases referred to by M. C., D. M. Cs., C. E., Dy. C. Es. etc. investigated examined and reports sent	102
(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. 13,500.00

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

FINANCIAL

Report from the Chief Accountant of the General Municipal Administration, [the Improvement Scheme and the Education Fund for the year 1971-72.

GENERAL MUNICIPAL ADMINISTRATION

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

	1971-72			
	Budget Estimates	Revised Estimates	Actuals	Actuals for 1970-71.
	Rs.	Rs.	Rs.	Rs.
Opening Balance	1,18,96,000	4,36,94,945	4,36,94,945	3,95,36,689
Income	58,27,42,745	62,18,04,645	58,30,76,817	52,04,49,524
Expenditure	59,38,88,221	63,90,74,781	58,75,30,865	52,57,76,250
Balance	1,11,45,476 (Deficit)	1,72,70,136 (Deficit)	44,54,048 (Deficit)	53,26,726 (Deficit)
Balance	7,50,524	2,64,24,809	3,92,40,897	3,42,09,963
Add: Recoupment of Advances made from the Surplus Cash Balance for Capital Stores	...	...	95,264	...
Total	7,50,524	2,64,24,809	3,93,36,161	3,42,09,963
Increase in Reservation for Advances	...	-87,72,809	-44,39,793	+94,84,982
Closing Balance	7,50,524	1,76,52,000	3,48,96,368	4,36,94,945

2. The details of reservation of advances etc.

Increases :—

	Rs.	Rs.
In Capital Stores	32,99,729	
In Reserve Stores	7,04,166	
In Contribution towards Improvement Scheme	23,78,660	
In advances to Public including Co-operatives for housing purpose	23,06,854	
In Renewed Grant for Expenditure in 1972-73	52,10,818	
In Advance for Plant & Machinery.	11,576	1,39,11,803

Decreases :—

In Advances Miscellaneous Advances	34,72,010	
In Advance to B. E. S. T.	60,00,000	94,72,010
Net Increase		44,39,793

3. The net unhyпотeicated Surplus Cash Balance on 31st March 1972 was as under :—

	Rs.		Rs.
Capital Stores	32,99,729		
Reserve Stores and Line Suspense Account	96,90,198	Surplus Fund as per Appendix No. 2	10,87,43,856
Advance for Plant & Machinery.	23,87,908		
Miscellaneous Advances	4,47,39,230		
Advance to Co-operative Societies for housing	1,37,30,423		
Minimum required by law	1,00,000		
Surplus Cash Balance	3,47,96,368		
	10,87,43,856		10,87,43,856

4. The Opening and Closing Reserve Stores (including Capital Stores) Balance for the year 1971-72 compared below :-

	Opening Balance	Closing Balance	Increase Decrease
	Rs.	Rs.	Rs.
Serviceable Stores—			
Reserve Stores ...	86,44,038	92,86,608	+6,42,520
Reserve Stores (Foras Road Depot) ...	3,21,334	4,05,048	+83,714
Line Suspense Account ...	20,610	(Cr.) 1,458	+22,068
Capital Stores ...	1,33,80,234	1,66,46,816	+32,66,532
Capital Stores (Foras Road Depot) ...	41,431	74,648	+33,197

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

	Outstanding debts on 1st April 1971	Loans raised during the year.	Repayment during the year.	Outstanding Debts on 31st March 1972
	Rs.	Rs.	Rs.	Rs.
Div. I ...	87,57,04,554	4,57,62,075	4,12,97,819	88,01,69,810
Div. II ...	18,24,50,000	3,85,00,000	1,25,00,000	20,84,50,000
Div. III ...	8,52,50,000	1,65,00,000	25,00,000	9,92,50,000
	<u>1,14,34,01,554</u>	<u>10,07,62,075</u>	<u>5,62,97,819</u>	<u>1,18,78,69,810</u>

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

	Rs.	
(1)	<u>9,57,00,000</u>	Being the loan amount towards Rs. 9.20 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. 1.60 lacs loan sanctioned under Corporation Resolution No. 809 dated the 27th September 1971 and G. R. No. LON/3271/3433/71/B-2 dated the 11th November 1971. The provision of Sinking Fund is sanctioned on 20 year's basis improving at 5½ per cent.
Div. I	4,07,00,000	
Div. II	3,85,00,000	
Div. III	1,65,00,000	
Div. I	(2) <u>50,62,075</u>	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.
	<u>10,07,62,075</u>	

The repayment during the year were as under :-

	Rs.	
Div. I ... (1)	29,29,260	Repaid to Government on the basis of payment from Revenue in respect of Advances taken from them.
Div. I ... (2)	3,55,00,000	Repaid to Debenture holders out of Sinking Fund Investment.
Div. II ...	1,25,00,000	—Do—
Div. III ...	25,00,000	—Do—
Div. I ... (3)	28,68,559	Repaid to different Special Funds out of Revenue on the basis of equated payments.
	<u>5,62,97,819</u>	

The position of the Sinking Fund is shown below:—

	Amount of Fund on 1st April 1971	Interest etc. received	Sinking Fund Instalments	Withdrawn for payment of loans	Amount of Funds on 31st March 1972
	Rs.	Rs.	Rs.	Rs.	Rs.
Div. I ...	23,92,64,000	1,04,46,902	3,48,85,450	3,55,00,000	24,90,96,352
Div. II ...	5,99,22,908	30,43,661	1,02,38,343	1,25,03,000	6,07,04,912
Div. III ...	1,75,77,319	9,33,017	46,38,636	25,00,000	2,01,48,972
	31,67,64,227	1,44,23,580	4,97,62,429	5,05,00,000	33,04,50,236

The value of the securities held in the Sinking Fund on the basis of market rates prevailing on 31st March 1972 including accrued interest and cash exceeds the actuarial amount of the Sinking Fund by Rs. 3,00,33,658 (Div. I—Rs. 2,22,10,486, Div. II Rs. 65,48,933 and Div. III— Rs. 11,74,261).

REVENUE INCOME

For Divisions I, II & III

6. The estimated income for the year was Rs. 58,27,42,745 and Revised Estimates was Rs. 62,18,04,645 (on the basis of 8 months actuals). The actuals amounted to Rs. 53,30,76,817 resulting in increase of Rs. 3,34,072 on the Budget Estimates and Decrease of Rs. 3,87,27,828 on the Revised Estimates.

OCTROI

7. The gross collections for the year were estimated at Rs. 17,41,60,000, the refunds and commission charges at Rs. 1,50,00,000 and the net revenue at Rs. 15,91,60,000. The revenue collected and paid into the municipal treasury in the year amounted to Rs. 20,87,91,713 and after deducting the amount of Rs. 2,99,81,700 (on account of refunds Rs. 7,67,26,183 and on a count of fees for collection Rs. 32,55,517 credited to the separate Revenue Head) the net receipts amounted to Rs. 17,88,10,013 showing an increase of Rs. 2,83,12,557 as compared with the actuals of the previous year (i.e. Rs. 15,04,97,456).

REVENUE EXPENDITURE

For Division I, II and III

8. The final sanctioned grants amounted in the aggregate to Rs. 71,72,58,985.

	Rs.
Budget Grants	59,38,88,221
Unexpended Grants for previous years renewed for Expenditure.	3,20,85,290
Additional Grants	9,12,85,474
Final sanctioned grants	<u>71,72,58,985</u>

The transfers from one Budget Head to another without affecting the total Budget Provisions for the year amounted to Rs. 75,67,794.

Against the final grants for the year aggregating to Rs. 71,72,58,985 as stated above the actuals amounted to Rs. 58,75,30,65 leaving an unexpended balance of Rs. 12,97,28,320 at the close of the year. Of this sum of Rs. 4,61,95,229 is being renewed for expenditure during 1972-73 against Rs. 4,09,84,411 in 1971-72 and the balance of Rs. 8,35,32,891 is being allowed to lapse.

9. The percentage of establishment to the expenditure for 1971-72 and the previous year is as given below:—

Divisions	Percentage to total expenditure during	
	1971-72	1970-71
I	31.31	37.87
II	30.78	28.31
III	29.81	28.30

LOAN WORK EXPENDITURE (CITY)

10. The opening balance on 1st April 1971 on account of Loan Funds excluding the Trust Fund was Rs. 4,87,31,117. Loans aggregating to Rs. 4,57,62,074 were raised during the year. Thus the total loan funds available for expenditure during the year were Rs. 9,44,93,192. The total expenditure incurred during the year amounted to Rs. 7,82,33,453 and amount of Rs. 95,264 has been advanced during the year leaving a balance of Rs. 1,61,64,455 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.		
1969-70 ...	15,97,53,400	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
1971-72 ...	16,37,73,500	17,82,05,935	7,82,33,463	47	48

The percentage of actual expenditure to the funds available works out to 87.

SUBURBS

The Opening Balance on the 1st April 1971 on account of Loan and Trust Funds was Rs. 34,80,337. Loan aggregating to Rs. 3,85,00,000 was raised during the year and the donation of Rs. 694 in Trust Fund, Account was transferred to Education Fund. Thus the total Loan and Trust Funds available for expenditure during the year were Rs. 4,19,79,433. The total expenditure incurred during the year amounted to Rs. 1,70,73,378 leaving a balance of Rs. 2,49,06,265 in the Loan and Trust 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 AND TRUST FUNDS			Percentage of actuals to Budget Estimates	Percentage of actuals to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.		
1969-70 ...	2,46,77,000	4,40,52,615	1,80,27,409	73	41
1970-71 ...	3,89,23,960	4,05,93,660	1,30,97,700	34	32
1971-72 ...	4,10,16,186	4,58,29,746	1,70,73,378	42	37

The Revised Estimates for 1971-72 adopted by the Corporation were Rs 4,58,29,746 including Rs. 70,000 on account of Subvention.

EXTENDED SUBURBS

The Opening Balance on the 1st April 1971 on account of Loan Funds was Rs. 41,29,795. Loan aggregating to Rs. 1,65,00,000 was raised during the year. Thus the total Loan Fund available for expenditure during the year was Rs 2,06,29,795. The total expenditure incurred during the year amounted to Rs. 1,59,52,781 leaving a balance of Rs. 46,77,014 in the Loan Fund at the close of the year.

The following statement compares the expenditure on the Capital Works with the Budget and Revised Estimates during the last 3 years.

Year	LOAN FUNDS			Percentage of actuals to Budget Estimates	Percentage of actuals to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.		
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
1971-72 ...	2,57,29,500	2,86,89,150	1,59,52,781	62	56

The Revised Estimates for 1971-72 adopted by the Corporation were Rs. 2,86,89,150 including Rs. 1,15,000 on account of subvention.

CONSOLIDATED LOAN WORKS EXPENDITURE

II. 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.		
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
1971-72 ...	23,05,19,186	25,27,24,831	11,12,59,622	48	44

SINKING FUND (CITY)

12. The book value of investment of the Sinking Fund as on 31st March 1972 amounted to Rs. 24,90,96,352 made up to Rs. 24,90,96,106 being the book value of securities and Rs. 246 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 1972 comes to Rs. 24,92,80,560. This together with the amount of interest accrued upto 31st March 1972 viz. Rs. 2,8,312 and cash with the State Bank of India Rs. 245 brings the total amount of Sinking Fund to Rs. 25,19,67,117 and more than covers the amount viz. Rs. 22,97,53,631 to which the Sinking Fund should have accumulated upto 31st March 1972. The excess in the Sinking Fund account was thus Rs. 2,22,10,486.

SUBURBS

From appendix No. 10 it will be seen that the book value of investments of Sinking Fund as on 31st March 1972 amounted to Rs. 6,07,04,912 made up of Rs. 6,07,04,895 being the book value of securities and Rs. 17 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 1972 comes to Rs. 6,04,15,178 as shown in the Appendix No. 17. This together with the amount of interest accrued upto 31st March 1972 viz. Rs. 8,59,416 and cash with the State Bank of India, Bandra, Rs. 17 bring the total amount of Sinking Fund to Rs. 6,13,24,611 and more than covers the amount of Rs. 5,46,75,753 to which the Sinking Fund should have been accumulated upto 31st March 1972. The excess in the Sinking Fund account was thus Rs. 66,48,908.

EXTENDED SUBURBS

From the Appendix No. 10 it will be seen that book value of investment of the Sinking Fund as on 31st March 1972 amounted to Rs. 2,06,48,72 made up Rs. 2,06,48,900 being the book values of the securities and Rs. 72 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 1972 comes to Rs. 2,03,33,900 as shown in the Appendix No. 16. This together with the amount of interest accrued upto 31st March 1972 viz. Rs. 2,53,655 and cash with the State Bank of India, Bandra, Rs. 72 brings the total amount of viz. Rs. 1,97,13,363 to which the Sinking Fund should have been accumulated upto 31st March 1972. The excess in the Sinking Fund investment account was thus Rs. 11,74,264.

INVESTMENT (CITY)

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

	Amount	Average No. of days
	Rs.	
(1) Fixed Deposits	63,05,00,000	202.48
(2) Call Deposits	12,32,00,000	13.19
(3) Current Account Deposits	41,33,90,960	1.25
Total	<u>1,16,70,90,960</u>	

The interest earned during the year amounted to Rs. 2,02,35,277 as against Rs. 1,56,08,240 during 1970-71 and the details are as follows :—

	Rs.
On Fixed Deposits	2,00,60,218
On Call Deposits	1,60,961
On Current Account Deposits	14,098
Total	<u>2,02,35,277</u>

The average rates of Interest on Fixed Deposits, Call Deposits and Current Account Deposits were 5.74 per cent 3.62 per cent and 1 per cent as against 5.53 per cent, 3.76 per cent and 0.99 per cent for the preceding year respectively. The rates realised on Fixed Deposits ranged from 4.50 per cent to 6.50 per cent, on Call Deposits from 3.50 per cent to 4.00 per cent and on current account Deposits 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 :—

	Amount	Average No. of days.
	Rs.	
(1) Fixed Deposits	... 3,57,00,000	267.54
(2) Call Deposits	... 1,15,00,000	38.73
(3) Current Account Deposits	... 7,04,07,182	3.86

The average rates of interest realised on Fixed, Call and Current Account Deposits were 5.79 per cent. 3.57 per cent. and 0.96 per cent. as against 4.5 per cent. 3.50 per cent. and 1 per cent. of the preceding year.

The interest earned during the year amounted to Rs. 15,64,782 as against Rs. 1,76,052 for 1970-71 and the details are as follows :—

	Rs.
(1) On Fixed Deposits	... 15,14,084
(2) On Call Deposits	... 43,525
(3) On Current Account Deposits	... 7,173
Total	... 15,64,782

INVESTMENT (EXTENDED SUBURBS)

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

	Amount	Average No. of days.
	Rs.	
(1) Fixed Deposits	... 92,00,000	244.05
(2) Call Deposits	... 24, 0, 00	46.92
(3) Current Account Deposits	... 1,94,46,332	6.25

The average rates of interest realised on Fixed, Call and Current Account Deposits were 5.73 per cent. 3.70 per cent and 0.96 per cent. as against 4.69 per cent. 3.50 per cent. and 1 per cent. of the preceding year.

The interest earned during the year amounted to Rs. 3,67,053 as against Rs. 1,11,925 for the year 1970-71 and the details are as follows :—

	Rs.
(1) On Fixed Deposits	... 3,52, '45
(2) On Call Deposits	... 11,400
(3) On Current Account Deposits	... 3,208
Total	... 3,67,053

RESERVE STOCK

14. The Opening Balance and the receipt of General Stores during the year as per books maintained in this office were Rs. 81,44, 88 and Rs. 77,89,591 respectively and the issues amounted to Rs. 71,47,071. The Closing Balance of General Stores was therefore Rs. 92,86,008 i. e. more by Rs. 6,42,520 than the opening balance.

As against this the outstanding balance on 31st March 1972 according to Controller of Stores of Rs. 8,21,899. The difference of Rs. 74,64,709 is due to adjustment in respect of stores etc., issued by the Controller of Stores to the departments not having been returned duly admitted them to this office in time for being adjusted in the accounts of 1971-72. The Opening Balance and the receipt of General Stores of Foras Road Depot during the year as per this office book were Rs. 3,21, 34 and Rs. 2,29,655 respectively and issue amounted to Rs. 1,45, 041. The Closing Balance of General Stores, Foras Road Depot was Rs. 4,05,048 i. e. more by Rs. 83,714 than the opening balance. As against this, the outstanding balance on 31st March 1972 according to Departmental books is Rs. 3,00,188.

CAPITAL STORES

15. The Opening Balance of Rs. 1,33,80,284 together with the receipts of Capital Stores during the year viz. Rs. 9,55,441 aggregated to Rs. 2,29,3,725. As against this issues during the year aggregated to Rs. 62,88,90 thus resulting in increase of Rs. 32,66,532 in the Closing Balance of Capital Stores viz. Rs. 1,66,4,816 compared with Opening Balance. As against this, the outstanding balance on 31st March 1972 according to C.S. is Rs. 53,70,770. The Opening Balance and the Receipts of Capital Stores Foras Road Depot were Rs. 41,451 and Rs. 83,943 respectively and the issues amounted to Rs. 50,7,6 thus resulting in an increase of Rs. 33,197 in the Closing Balance of Capital Stores, Foras Road Depot. viz. Rs. 74,648 compared with Opening Balance. As against this, the outstanding balance as on 31st March 1972 according to Dept. books is Rs. 1,04,133.

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. 35,00,000 the expenditure being Rs. 26,76,044. This leaves a balance of Rs. 8,3,956. After deducting all ascertained time barred claims, the undischarged commitments upto 31st March 1972 in regard to set backs already acquired and sanctioned to be acquired amount to Rs. 29,69,598.

SUBURBS

The provision made in the Revised Loan Works Budget Estimates for meeting the claims on account of acquisition of set backs was Rs. 10,00,000, the expenditure being Rs. 8,73,126. This leaves a balance of Rs. 1,26,874.

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. 15,00,000 the expenditure being Rs. 14,97,336. This leaves a balance of Rs. 2,664.

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	
	Rs.	Rs.	Rs.	Rs.	Rs.
1969-70	35,575	35,575	...
1970-71	3,383	3,383	...
1971-72

Balance of supervision charges outstanding as on 31st March 1972 is Rs. 77,062.

IMPROVEMENT SCHEMES

General Account

18. The total income for the year amounted to Rs. 3,42,99,623 against Rs. 3,16,43,316 for the previous year showing a net increase of Rs. 26,56,312 viz. increase of (1) Rs. 7,71,505 under Rent and other proceeds of properties (2) Rs. 17,02,208 under Contribution from Municipal Corporation and (3) Rs. 4,78,746 under Miscellaneous counter-balanced by decrease of (Rs. 2,93,147 under interest and profit on investment.)

EXPENDITURE

19. The total expenditure for the year aggregated to Rs. 2,99,89,277 against Rs. 2,71,87,768 for the previous year showing an increase of Rs. 26,01,509. This is made up of increase of (1) Rs. 23,79,328 under Maintenance of Properties and Streets counter balanced by decrease of Rs. 3,77,819 under Debt Charges. The expenditure of Rs. 2,97,81,277 comprises of expenditure of Rs. 1,99,41,290 under Maintenance of Properties and Streets inclusive of cost of Management and Establishment and Rs. 98,47,987 under Debt Charges. The surplus of Rs. 45,10,351 in the General Account is transferred to Capital Account.

20. The loan liabilities at the beginning of the year stood at Rs. 14,53,02,202. The repayment of loan during the year amounted to Rs. 12,95,983 were repaid to Government on the basis of equated payment. The outstanding loan liabilities at the close of the year thus stood at Rs. 14,40,06,214.

CAPITAL ACCOUNT

21. The Opening Balance on 1st April 1971 was Rs. 1,03,53,900. During the year under report receipt on account of sale proceeds of lands and buildings amounted to Rs. 3,16,105. The total funds available were thus Rs. 1,06,70,105. The total expenditure incurred amounted to Rs. 28,93,007. The surplus in the General Account for the year which amounted to Rs. 45,10,351 was transferred to the Capital Account. The unspent balance at the close of the year stood at Rs. 1,22,87,3-9.

EXPENDITURE ON SCHEMES

22. The actual expenditure incurred during the year on schemes amounted to Rs. 28,93,007 as against the Revised Estimates of Rs. 69,15,700 including Rs. 8,44,600 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 1971.	Interest etc. realisation	Sinking Fund instalment.	Withdrawn for payment.	Amount of Fund on 31st March 1972.
Rs. 7,03,87,562	Rs. 34,26,341	Rs. 18,18,412	Rs. ...	Rs. 7,56,32,315

The Sinking Fund as on 31st March 1972 amounts to Rs. 7,56,32,315 of which Rs. 7,56,32,080 represent the book value of the securities and Rs. 235 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 1972 comes to Rs. 7,45,40,510. This together with the amount of interest accrued upto 31st March 1972 viz. Rs. 83,596 and cash with State Bank of India viz. Rs. 235 brings the total amount of Sinking Fund to Rs. 7,46,24,341 against Rs. 5,67,00,965 the amount to which the Sinking Fund should have accumulated upto 31st March 1972. The excess in the Sinking Fund investment is thus Rs. 1,79,23,376.

24. The gross capital liabilities of the Improvement Schemes stood at Rs. 14,87,64,704 at the close of the year and the assets at Rs. 40,73,55,327 including the book value of the lands comprised in Schedules 'W' and 'X' resulting in a surplus Rs. 25,85,90,623.

SLUM CLEARANCE ACCOUNT

General Account (City and Suburbs)

CITY SECTION

INCOME

25. The total income for the year amounted to Rs. 16,40,534 against Rs. 16,79,072 for the previous year showing a net decrease of Rs. 38,538. This is made up of increase of Rs. 37,649 under Rent and other proceeds of properties counter balanced by decrease of Rs. 76,187 under Interest and Profit on Investment.

Expenditure

The expenditure for the year amounted to Rs. 25,08,442 as against Rs. 28,84,019 for the previous year showing decrease of Rs. 3,75,577. This is made up of decrease of (1) Rs. 3,26,124 under maintenance of properties and streets (2) Rs. 49,453 under Debt Charges. The expenditure of Rs. 25,08,442 comprises of (1) Rs. 8,18,336 under Maintenance of Properties etc. and (2) Rs. 16,90,106 under Debt Charges. Deficit of Rs. 8,67,408 is transferred to Capital Account.

SUBURBAN SECTION

INCOME

The total income for the year amounted to Rs. 11,57,985 against Rs. 7,94,904 for the previous year showing a net increase of Rs. 3,63,081. This is made up of increase of (1) Rs. 2,51,660 under Rent and other proceeds of properties (2) Rs. 1,27,735 under Miscellaneous receipt counter balanced by decrease of Rs. 16,314 under Interest and Profit on Investment.

Expenditure

The expenditure for the year amounted to Rs. 26,47,356 as against Rs. 19,73,390 for the previous year showing a net increase of Rs. 6,73,966. This is made up of Rs. 7,24,028 under Maintenance of Properties and Streets and decrease of Rs. 50,062 under the Debt Charges. The net deficit of Rs. 14,89,371 is transferred to Capital Account.

SLUM CLEARANCE

Capital Account
(City Section)

26. (1) The Opening Balance on 1st April 1971 was Rs. 13,39,927. The amount of Rs. 25,00,000 was received from Public as Loan. Thus the total funds available for expenditure were Rs. 38,39,927. The total expenditure amounted to Rs. 34,94,287. The deficit in the General Account amounting to Rs. 8,67,908 was transferred to Capital Account. The deficit of Rs. 5,22,268 was met by taking Advance from surplus moneys

Sinking Fund

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

Amount of Fund on 1st April 1971.	Interest realisation	Sinking Fund instalment.	Withdrawn for payment.	Amount for Fund on 31st March 1972
Rs.	Rs.	Rs.	Rs.	Rs.
48,88,351	2,52,153	4,74,782	...	56,15,286

The Sinking Fund on 31st March 1972 amounts to Rs. 56,15,286 of which Rs. 56,15,080 represent the book value of securities and Rs. 206 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 1972 comes to Rs. 56,03,462. This together with the amount of interest accrued upto 31st March 1972 viz. Rs. 13,956 and cash with the State Bank of India viz. Rs. 206 brings the total amount of Sinking Fund to Rs. 56,17,624 against Rs. 54,11,676 the amount to which the Sinking Fund should have accumulated upto 31st March 1972. The excess in Sinking Fund investment account is thus Rs. 2,05,948.

SLUM CLEARANCE

Capital Account

(Suburbs Section)

(3) The Opening Balance on 1st April 1971 was Rs. 20,19,470. In addition to this the sales proceeds of lands and buildings amounted to Rs. 10,37,969. The total funds available for expenditure were Rs. 30,57,439. The total expenditure amounted to Rs. 2,18,270 and deficit in the General Account amounting to Rs. 14,89,371 is transferred to Capital Account. The unspent balance at the close of the year stood at Rs. 13,49,798.

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

Amount of Fund on 1st April 1971.	Interest etc. realisation	Sinking Funds instalment.	Withdrawn for payment.	Amount of Fund on 31st March 1972.
Rs.	Rs.	Rs.	Rs.	Rs.
21,86,407	1,22,411	4,08,858	...	27,17,676

The Sinking Fund as on 31st March 1972 amounts to Rs. 27,17,676 of which Rs. 27,17,570 represent the Book Value of the securities and Rs. 106 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 1972 comes to Rs. 27,03,515. This together with the amount of interest accrued upto 31st March 1972 viz. Rs. 2,778 and cash with the State Bank of India viz. Rs. 106 brings the total amount of the Sinking Fund to Rs. 27,06,399 against Rs. 26,01,731 the amount to which the Sinking Fund should have accumulated upto 31st March 1972. The excess in the Sinking Fund Investment account is thus Rs. 1,04,668.

EDUCATION FUND

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

	1971-72			Actuals for 1970-71
	Budget Estimates	Revised Estimates	Actuals	
	Rs.	Rs.	Rs.	
Opening Balance.	61,75,000	78,71,321	78,71,321	87,77,405
Income	9,75,76,450	9,60,89,950	9,53,11,236	8,93,04,923
Expenditure	10,01,72,827	10,38,29,970	9,76,41,406	8,81,94,656
	-25,96,377	-77,40,020	-23,30,170	+11,10,267
Balance	+35,78,623	+1,31,301	+55,41,151	+98,87,672
Deduct Reservation Advances, etc., shown below :	...	-18,45,000	+20,55,707	+20,16,351
	+35,78,623	19,76,301	34,85,444	78,71,321

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

	Rs.
Increase in Miscellaneous Advances	5,23,310
<i>Add—</i>	
Increase in Renewed Grants	15,32,397
Net Increase	20,55,707

(iii) The net unhypothecated Surplus Cash Balance on 31st March 1972 was as under:—

Liability		Assets	
Miscellaneous Advances	Rs. 20,32,485	Surplus Revenue Fund as per Appendix No. 31	Rs. 55,17,929
Minimum required by law	20,000		
Surplus Cash Balance	34,65,444		
	55,17,929		55,17,929

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

Outstanding Debt on 1st April 1971	Loans raised during the year.	Repayment during the year.	Outstanding debt on 31st March 1972.
Rs. 7,71,50,000	Rs. 53,00,000	Rs. 50,00,000	Rs. 7,74,50,000

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

Amount of fund on 1st April 1971	Interest etc. realised	Sinking Fund instalments.	Total	Withdrawal for Payment of Loans.	Amount of fund on 31st March 1972.
Rs. 3,69,87,927	Rs. 19,91,603	Rs. 45,95,118	Rs. 4,35,74,648.	Rs. 50,00,000	Rs. 3,85,74,648

The value of Securities held in Sinking Fund Account on the basis of market rates prevailing on 31st March 1972 including accrued interest and Cash exceeded the actuarial amount of the Sinking Fund by Rs. 37,13,167 which is held in the Sinking Fund Account.

Income

(vi) The estimated income for the year was Rs. 9,75,76,450 and the Revised Estimates was Rs. 9,60,89,950. The Actuals amounted to Rs. 9,53,11,236 resulting in decrease of Rs. 22,65,214 on the Budget Estimates and in decrease of Rs. 7,78,714 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. 10,80,62,827 as follows:—

Budget Grants	Rs. 10,01,72,827
Unexpended Grants for previous years renewed for expenditure	52,57,609
Additional Grants	26,32,391
Final sanctioned Grant	10,80,62,827

The transfers from one Budget grant to another without affecting the total Budget provision of the year amounted to Rs. 3,56,350.

(viii) Against the Final Grant of the year aggregating to Rs. 10,80,62,827 as stated above, the actuals amounted to Rs. 9,76,41,406 leaving an unexpended balance of Rs. 1,04,21,421 at the close of the year. Of this sum of Rs. 68,34,850 is being renewed for expenditure during 1972-73 against Rs. 53,02,453 in 1971-72 balance viz. Rs. 35,86,571 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 1971-72 as compared with the previous year's percentage is given below :—

	Percentage to the total expenditure during	
	1971-72	1970-71
(1) Establishment	74.50	72.60
(2) Labour	7.70	7.88

Loan Funds

(x) The Opening Balance on 1st April 1971 on account of Loan Funds excluding the Trust Funds was Rs. 16,64,316. The amount of new loan proposed in the Budget for 1971-72 was Rs. 50 lacs. A Loan of Rs. 53 lacs was raised during the year. The total Loan Fund available for expenditure during the year thus amounted to Rs. 69,64,316.

The expenditure incurred on Loan Works during the year amounted to Rs. 76,11,466. The closing Balance at the end of the year was Rs. Nil.

An advance of Rs. 6,47,149.94 was taken from surplus monies to finance the expenditure on Capital Works during the year in anticipation of sanction of the Education Committee and Corporation.

(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		
1969-70	Rs. 60,44,000	Rs. 97,94,500	Rs. 59,40,372	98	61
1970-71	1,26,78,674	63,49,300	25,32,527	20	40
1971-72	1,81,45,000	1,68,89,280	76,11,466	42	45

The percentage of actual expenditure to the funds available works out to 109.

(xii) The book value of investments of Sinking Fund as on 31st March 1972 amounted to Rs. 3,85,74,648 made up of Rs. 3,85,74,529 in Securities and Rs. 119 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 1972 comes to Rs. 3,83,19,216. This together with the amount of interest accrued upto 31st March, 1972 viz., Rs. 5,89,748 and cash with the State Bank of India of Rs. 119 brings the total amount of Sinking Fund to Rs. 3,89,09,083 and more than covers the amount of Rs. 3,51,95,916 to which the sinking fund should have accumulated upto 31st March 1972. The excess in Sinking Fund Accounts was Rs. 37,13,167.

(xiii) The total amount invested during the year in call and Fixed Deposit was Rs. 2,51,00,000 and the average rate of interest on all Deposits was Rs. 6.05 per cent. as against 4.85 per cent. in the preceding year. The interest earned during the year amounted to Rs. 16,55,762 as against Rs. 5,21,019 for 1970-71.

V. C. PARIKH,
Chief Accountant.

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MUNICIPAL ACCOUNT

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 * No. 16.—Comparison of Face, Purchase and Market values at 31st March 1972 of the different securities held in the Special Funds
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 * No. 18.—Statement of the Income of the Bombay Municipality from 1960-61 to the close of the financial year 1971-72.
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IMPROVEMENT SCHEMES ACCOUNT

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EDUCATION FUND

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* These Appendices will be found in the Departmental copy of Annual Account for the year 1971-72.

APPENDIX No. 1.
General Financial Statistics

—	1967-68.	1968-69.	1969-70.	1970-71.	1971-72.
<i>General</i>					
1. Area of the Greater Bombay (acres) ...	1,08,787	1,08,787	444.17 sq. Km.	4,35,074 sq. Km.	407.91
2. Population ...	41,52,056	41,52,056	† 41,52,056	* 59,68,546	59,68,546
<i>Rates and Assessments.</i>					
3. Rateable value Rs.	63,50,99,063	67,99,12,798	69,60,36,203	78,96,00,898	85,06,52,370
4. Rateable value per head of population.	Rs. 152-96	Rs. 163-75	Rs. 167-54	Rs. 132-29	Rs. 142-52
5. Properties registered in the Assessment Book	1,86,378	1,92,381	1,99,859	2,06,016	2,02,618
<i>Income.</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
	at 24 per cent.	at 24 per cent.	at 24 per cent.	at 24 per cent.	at 24 per cent.
6. General Tax ...	12,60,48,283	14,89,18,415	15,12,67,406	16,34,34,990	18,08,54,126
7. Income from other sources ...	25,26,31,321	26,71,00,095	30,86,10,177	35,70,14,534	40,22,22,691
Total Income Rs. ...	37,86,79,604	41,60,18,510	45,98,77,583	52,04,49,524	58,30,76,817
8. Incidence of Taxation per head	Rs. 79.10	Rs. 89.13	Rs. 97.20	Rs. 77.73	Rs. 84.76
<i>Loans.</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
9. Debt outstanding ...	87,55,20,530	98,15,62,981	1,09,51,88,864	1,14,34,04,554	1,18,78,68,810
10. Redemption and Sinking Funds in hand or invested ...	23,52,45,783	26,28,50,142	29,10,12,182	31,67,64,227	33,04,50,236
11. Net Loan Debt ...	64,02,74,747	71,87,12,839	80,41,76,682	82,66,40,327	85,74,18,574
12. Net Debt per head of population ...	Rs. 154.21	Rs. 173.10	Rs. 193.68	Rs. 138.50	Rs. 143.65
<i>Expenditure</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
13. <i>Water Works</i> —					
Maintenance ...	3,16,90,158	3,13,69,598	3,95,15,106	3,92,21,606	3,22,44,839
Debt Charges ...	3,41,44,138	4,70,11,902	5,40,37,968	6,32,33,054	6,32,86,340
14. Primary Education ...	5,90,03,780	5,99,73,600	6,04,45,050	6,66,06,669	6,94,34,560
15. Medical Relief ...	5,06,66,261	5,19,71,588	6,34,61,300	8,00,13,329	8,72,01,960
16. Other City services ...	16,50,98,200	16,80,71,010	20,12,58,538	22,32,56,107	27,98,64,410
17. Debt Charges—excluding Water Works ...	4,07,10,180	3,96,09,521	4,37,80,895	5,34,45,485	5,54,98,706
Total Expenditure Rs. ...	38,13,12,717	39,80,07,224	46,24,98,857	52,57,76,250	58,75,30,865

† As per census 1961.

* As per census 1971.

APPENDIX No. 2.

Revenue Account for the year ended 31st March 1972

Particulars	Total		Particulars.	Total.	
	Rs.	P.		Rs.	P.
To Revenue Expenditure	58,75,30,865.12		By Revenue Receipts	58,30,76,817.60	
			By Balance being deficit for the year	44,54,047.52	
	58,75,30,865.12			58,75,30,865.12	
To Contribution towards Improvement Schemes ... during 1972-73.	Rs.	P.	By Surplus Revenue Fund as at 1st April 1971 ...	Rs.	P.
	2,41,60,760.00		By Deficit for the year		
To Revenue Expenditure to be incurred in 1972-73 and provided for as renewed grants ...	4,61,95,229.00			11,63,33,333.91	
	7,03,55,989.00		By Contribution towards Improvement Schemes during 1971-72	2,17,82,100.00	
To Balance being Surplus Revenue Fund as at 31st March 1972 as per Appendix No. 5 of Division I, II, III (combined).	10,87,43,855.91		By Revenue of previous years reserved for the year 1971-72	4,09,84,411.00	
	17,90,99,844.91			6,27,66,511.00	
				17,90,99,844.91	

Appendix No. 5
(Consolidated)

Revenue Account, Balance Sheet as at 31-3-1972

LIABILITIES	Rs. P.		Rs. P.		ASSETS		Rs. P.	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
Outstanding liabilities					Advance from Surplus mineus Div. I			
Cash Bill outstanding					Municipal Loans-Interest Warrant payable Account			5,22,267.75
Budget 'A' Div. I ..	3,11,644.63				Budget 'A' Div. I ..	52,922.42		
" II ..	71,377.91				" II ..	2,606.75		
" III ..	35,579.61		4,18,602.15		" III ..	14,371.24		69,900.41
Cheques payable A/c.					B.I.T. Loans Interest Warrant payable Account			19,808.89
Budget 'A' Div. I ..	1,12,25,788.14				Interest on B.I.T. Loans payable Account			4,698.96
" II ..	22,42,141.39		1,51,22,953.35		Current Account with State Bank of India for payment of Interest on Suburban Loans			
" III ..	16,55,023.82		12,80,460.54		Budget 'A' Div. II ..	62,724.77		
Stores purchase outstanding A/c.					" III ..	99,139.08		1,61,863.85
Stock Adjustment A/c.					With State Bank of India for repayment payable A/c.			10,500.00
Outstanding charges for 1971-72 and previous years					Contribution Receivable from Budget 'E'			45,95,552.56
Budget 'A' Div. I ..	3,11,95,229.00		4,61,95,229.00		Interest Receivable Account			30,00,000.00
" II ..	1,00,00,000.00				Due for Stores Sold			16,78,946.59
" III ..	50,00,000.00				Advances Recoverable Account			
Outstanding charges in respect of interest Accrued but not paid					Budget 'A' Div. I ..	3,67,90,310.26		
Budget 'A' Div. I ..	1,19,27,015.31		1,63,99,295.83		" II ..	23,93,302.25		
" II ..	29,77,462.45				" III ..	12,94,201.27		4,04,77,813.78
" III ..	14,94,818.07				Capital Stores purchase A/c.			6,52,574.14
Contribution to Budget 'B' 1972-73.					Reserve Stores purchase A/c.			43,020.36
Budget 'A' Div. I ..	1,46,38,270.00		2,41,60,760.00		Deposit in Securities from public with State Bank of India			
" II ..	63,46,500.00				Budget 'A' Div. I ..	61,63,025.00		
" III ..	31,75,990.00				" II ..	10,89,490.12		
Deposit in Cash and Public Securities from contractors and Private Parties					" III ..	4,78,750.00		77,31,265.12
Budget 'A' Div. I ..	14,05,82,553.71		20,71,10,575.82		In Office.			
" II ..	4,80,29,381.42				Budget 'A' Div. I ..	6,85,500.00		
" III ..	1,84,98,640.69				" II ..	2,95,220.00		
					" III ..	2,06,200.00		11,86,920.00
					Investment in Securities fixed Deposit Call & current A/c. . .			25,05,43,953.22
					Investment of Surplus Moneys in Public Securities			38,013.14
Total outstanding Liabilities ..			31,07,37,098.77		Total assets against outstanding liabilities			31,07,37,098.77
Total C. F....			31,07,37,098.77		Total C. F....			31,07,37,098.77

Appendix No. 5—Contd.

(Consolidated)

LIABILITIES	Rs. P.		Rs. P.		ASSETS	Rs. P.		Rs. P.	
Total B.O.			31,07,37,09	.77	Total B.O....			31,07,37,098.77	
Special Fund Account.					Investment of Special Fund in advance for purchase of Plant and Machinery.				
Municipal Fire and Accident Insurance Fund A/c. ..			30,41,537.18		Advance from Plan & Machinery Depreciation Fund for levelling and Matalling etc. ..			11,11,189.88	
Net Premia Fund Account ..			45,67,678.45		Advance from Net Premia Fund for purchase of Plant and Machinery to Municipal Printing Press ..			12,497.67	
Provident Fund Account ..			23,69,03,781.38		Municipal Fire & Accident Insurance Fund ..			8,68,859.64	
Plant and Machinery Depreciation Fund Account ..			33,07,092.17		Plant and Machinery depreciation Fund ..			13,11,907.74	
Hospital Fund Account ..					Net Premia Fund ..			23,20,294.96	
Budget 'A' Div. I ..	20,14,383.72				K. E. M. Hospital G. S. M. College Research Fund ..			13,302.33	
" II ..	1,41,691.87				Hospital Fund ..			7,87,319.08	
" III ..	94,500.00				Land R. A. Fund ..			66,95,351.58	
			22,50,575.59		G. S. M. College K. E. M. Hospital Equipment Fund ..			3,2598.70	
K. E. M. Hospital G. S. M. College Equipment Fund A/c. ..			1,80,971.04		Motor Vehicles (Third party) Ins. Fund. ..			2,28,859.85	
G. S. M. College K. E. M. Hospital Research Fund A/c. ..			1,05,731.48		Investment of Special Fund in Securities.				
Fidelity Guarantee Insurance Fund A/c. ..			4,76,115.23		Provident Fund ..			23,69,03,756.56	
Motor Vehicles (Third party) Insurance Fund A/c. ..			15,91,533.53		Fidelity Guarantee Ins. Fund ..			47,61,00.00	
Land R. A. Fund Account ..			95,23,398.46		Motor Vehicles (Third party) Ins. Fund ..			11,78,700.00	
Pension Fund Account ..			11,69,59,977.07		Endowment Fund ..			13,37,611.49	
Gratuity Fund Account ..			1,09,05,179.71		Pension Fund ..			1,07,79,053.23	
Public Monument Maintenance Fund Account ..					Public Monument Maintenance Fund Budget 'A' Div. I ..	1,31,723.74			
Budget 'A' Div. I ..	1,31,815.74				" II ..	16,300.00		1,48,02 7 4	
" II ..	16,317.94				Hospital Fund Budget 'A' Div. II ..	1,41,600.00		2,36,100.00	
			1,48,133.69		" III ..	94,500.00			
Endowment Fund Account ..			13,37,842.92		Water Main Depreciation Fund Div. II ..			92,500.80	
Water Main Depreciation Fund Account Div. II ..			92,590.23		Secondary Schools Committee Gymnasium Fund Div. II ..			6,126.49	
Secondary Schools Committee Gymnasium Fund A/c. Div. II ..			6,198.19		Investment of Special Funds in Fixed Deposit and Cash etc.				
Total Special Fund A/c. ..			39,14,03,336.31		Municipal Fire and Accident Insurance Fund ..			21,72,677.54	
Surplus Revenue Fund A/c. Budget 'A' Div. I ..	22,90,28,885.84				Net Premia Fund ..			22,34,885.82	
Deficit " II ..	8,43,46,134.79				Provident Fund ..			24.82	
Deficit " III ..	3,59,38,895.14				Plant & Machinery Depreciation Fund ..			8,83,994.55	
			10,87,43,855.91		Hospital Fund Budget 'A' Div. I ..	12,26,464.64			
					" II ..	91.87		12,26,556.51	
					Total Special Fund Ins. C. F. ..			27,10,58,592.89	
Total C. F. ..			81,08,84,290.99		Total C.F. ..			31,07,37,098.77	

Appendix No. 5—Concl'd.

(Consolidated)

LIABILITIES	Rs.		P.		ASSETS	Rs.		P.	
	Rs.	P.	Rs.	P.		Rs.	P.	Rs.	P.
Total B. O....			81,08,84,290.9					31,07,37,098.77	
					Total Special Fund Ins B. O.			27,10,53,592.89	
					K. E. M. Hospital G. S. M. College Equipment Fund ..			1,48,372.34	
					G. S. M. College K. E. M. Hospital Research Fund ..			92,729.15	
					Fidelity Guarantee Insurance Fund ..			15.43	
					Land R. A. Fund ..			28,33,046.88	
					Motor Vehicle (Third party) Insurance Fund ..			1,83,973.68	
					Pension Fund ..			10,61,80,923.84	
					Gratuity Fund ..			1,09,05,179.71	
					Endowment Fund ..			231.43	
					Public Monument Maintenance Fund.				
					Budget 'A' Div. I ..	92.00			
					.. II ..	47.94			
					Water Main Depreciation Fund ..			109.94	
					Div.--II			89.43	
					Secondary Schools Committee Gymnasium Fund Div. II ..			71.79	
					Total Investment Special Fund			39,14,03,336.31	
					Investment of Surplus Revenue Fund				
					Stock—(Appendix 14 D)			1,29,89,927.96	
					Plant & Machinery Purchased out of S.C.B.				
					Budget 'A' Div. I ..	23,51,189.96			
					.. II ..	25,141.82			
					.. III ..	11,576.33			
					Advances out of S.C.B.			23,87,908.99	
					Budget 'A' Div. I ..	4,87,70,177.74			
					.. II ..	68,57,66.56			
					.. III ..	29,35,702.43			
					Deposit in G. P. Notes with State Bank of India ..			5,84,89,851.78	
					Cash at Bank			20,000.00	
					Budget 'A' Div. I Credit ..	49,86,964.40			
					.. II Credit ..	28,93,974.50			
					.. III Credit ..	17,41,161.55			
					Cash in Office			Cr. 96,22,702.45	
					Budget 'A' Div. I ..	2,39,74,213.14			
					.. II ..	96,96,139.16			
					.. III ..	27,91,284.04			
					Investment in Securities & Fixed Call & Current A/c. ..			3,64,61,636.34	
								60,35,832.65	
					Total of Budget A+B+C ..			10,87,43,855.91	
Grand Total ...			81,08,84,290.99		Grand Total ..			81,08,84,290.99	

APPENDIX No. 7.

(CITY)

Capital Fund Balance Sheet as at 31st March 1972

LIABILITIES.	Rs.		Rs.		ASSETS.	Rs.		P.	
		P.		P.					
Loan Outstanding :-									
Due to Government (Vide details as shown in Appendix No. (11))	2,86,51,515.96				Block Account :-				
Due to Public— (Vide details as shown in Appendix No. (11))	3,92,58,500.00				Loan Funds—				
Advances from Special Funds— (Vide details as shown in Appendix No. (11))	1,22,58,793.84				Property and Assets at original cost per Appendix No. 8	Rs. 1,37,87,01,805.95	P. 95		
				83,01,68,809.80					
Trust Fund Account—		Rs. P.			Deduct— Subventions granted for the conversions of privies into water closets, shown below	14,67,563.00	00		
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							
Donation from— The Chairman of Trustees of the Lotus Trust for the construction of electric crematorium, at Chandanwadi		71 62			Add— Subventions granted for the conversion of privies into water closets Rs. 22,97,055.00				
Donation from— Reserve Bank of India for construction of a ward 38/40 beds for accommodating their Sick employ- ees in K. E. M. Hospital		48,417 39			Deduct— Expenditure written off	Rs. 8,29,432.00	14,67,563 00		
Donation from— The Trustees of Shri Anant Nathaji Maharaj Jan Temple towards the cost of construction of a new public convenience.		1 25							1,37,87,01,805
Amount received from Government of Bombay for the work of construction of Sub-way near church Gate Station		00 38			Trust Fund—				
Amount received from Central Government for Isola- tion Hospital		1,25,000 00			Expenditure as per Appendix No. 8				79,95,128
Amount received from Messrs. J. J. Kapadia and Co Lid for construction of a new Building for T. N. M. College in Mural Painting for)		65 62			Worn out Water Mains Renewal Fund—				
Amount received from Gandhi Smarak Nidhi for erecting Gandhi Memorial Column		1,860 52		1,77,114.97	Expenditure as per Appendix No. 8				9,64,525
Surplus—									
CAPITAL ASSETS AT ORIGINAL COST OVER LIABILITIES:—					Municipal Land and Buildings Fund—				
Sinking Fund on Loans	24,90,96,351.40				Land purchased and Buildings erected as per Appendix No. 8				43,03,043
Premia on Loans	Rs. 3,20,848.74				Temporary advances to Development Fund				31,77,390
Less— Assets written off	Rs. 3,20,848.74				Investments—				
Contributions from Special Funds	8,03,171.02				Sinking Fund—				
Do. Revenue for Loan Works Establishmen	17,869.98				As per Appendix No. 10	(a)			24,90,96,351
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				1,34,21,735
Do. Government for Schools	5,00,000.00				In fixed deposits	1,63,41,500 00			
Do. Government for widening the Lov- Grove Bridge	91,234 00				In cash	80 15			1,63,41,580
Do. Worn-out Water Mains Renewal Fund	9,64,525.91								
Do. Land and Buildings Fund	74,80,433.79								
Do. Development Fund	1,34,32,075.48								
Do. Revenue towards Bai Jerbai Wadia Hospital for Children	7,00,000.00								
Do. Trust Fund	79,95,128.95								
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. 53,35,72,584.55								
Less— Assets written off	Rs. 4,15,59,338.06								
	51,20,13,246.49			79,36,55,636.53					
Grand Total				1,67,40,01,561.30					1,67,40,01,561

(a) For Face, Purchase and Market Values of Securities held in the Sinking Funds please see Appendix No. 10A—
z The amount represents the balance on account of Trust Funds and Loan Funds

Div

APPENDIX No. 7

(Suburbs)

Capital Fund Balance Sheet as at 31st March 1972.

LIABILITIES.		ASSETS.		
	Rs.	P.	Rs.	P.
Loans Outstanding—			Block Account—	
Due to Government—			Loan funds—	
Due to Public—	20,84,50,000.00	20,84,50,000.00	Property and Assets at original cost as per Appendix No. 8	*24,38,01,041.07
(Vide details as shown in Appendix No. 11). ...			Trust Fund—	
Surplus—			Expenditure as per Appendix No. 8	3,27,408.00
Capital Assets at original cost over Liabilities—			Sinking Fund—	
Sinking Fund on Loans	6,07,04,911	57	As per Appendix No 10	6,07,04,911.57
Loan Redemption Fund	5,08,66,983	48	Loan and Trust Funds	
Contribution from Trust Fund	4,25,215	69	In fixed deposits and Cash	**2,49,06,255.55
Contribution from Government	89,92,515	25		
Contribution from Budget A Div. I	3,00,000	00		
		12,12,59,625.99		
Grand Total	32,97,39,625	99	Grand Total	32,97,39,625.99

* Includes, an advance of Rs. 50,36,209.13 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. 97,807.69

Div. II

APPENDIX No. 8.
(CITY)
SUMMARY

	Capital Expenditure upto 31st March 1971.	Expenditure During 1971-72.	Total Capital Expenditure upto 31st March 1972.
	Rs.	Rs. Out of Loan Funds.	Rs.
(1) Loan Funds			
I.—General supervision, Collec- tion of Revenue, etc. ...	1,83,64,173	1,18,471	1,84,82,644
II.—Water Works ...	77,27,26,536	4,77,39,573	82,04,66,109
III.—Education, Primary ...	27,98,012	...	27,98,012
IV.—Free Reading Rooms, libraries and Municipal High Schools	1,68,057	8,725	1,76,782
V.—Public Health Department ...	1,40,29,500	29,338	1,40,58,838
VI.—Medical Relief and Education.	7,09,84,924	28,95,622	7,38,80,546
VII.—Street, Cleansing and Conser- vancy Road Watering and Halalkhore Service ...	6,49,41,101	19,33,249	6,68,74,350
VIII.—Roads, Drains and Sewers ...	18,41,27,514	83,04,955	19,24,32,469
IX.—Mechanical ...	37,11,597	...	37,11,597
X.—Buildings, Land Acquisition and Management ...	8,46,65,825	23,83,111	8,70,48,936
XI.—Fire Brigade ...	30,80,492	3,10,967	33,91,459
XIII.—Gardens and Open Spaces ...	1,16,47,302	60,437	1,17,07,739
XIV.—Markets and Slaughter Houses	4,60,00,002	90,28,288	5,50,28,290
XV.—Slum Service ...	49,94,673	48,808	50,43,481
XVI.—Measures for Civil Defence...	1,87,148	...	1,87,148
XVII.—Greater Bombay ...	2,81,069	...	2,81,069
XVIII.—Industrial Estates ...	90,68,955	...	90,68,955
Discount and other charges on Loans	66,33,953	Cr. 48,85,188	17,48,765
Plant and Machinery ...	1,01,21,102	21,93,515	1,23,14,617
(1) Loan Funds—Total.	1,30,85,31,935	7,01,69,871	1,37,87,01,806
(2) Trust Fund			
Works executed ...	79,94,163	965	79,95,128
(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.	1,32,17,93,668	7,01,70,836	1,39,19,64,504

APPENDIX No. 8

(Suburbs)

SUMMARY

	Total Capital expenditure upto 31st March 1971.		Expenditure during 1971-72.		Total Capital expenditure upto 31st March 1972.	
	Rs.	P.	Rs.	P.	Rs.	P.
(1) Loan Funds.						
I.—General Supervision, Collection of Revenue, etc. ...	24,22,491.92		4,84,089.10		29,06,581.02	
II.—Water Works ...	3,68,39,983.99		20,22,216.42		3,88,62,200.41	
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 ...	7,80,828.72		20,776.20		8,01,604.92	
VI.—Medical Relief and Education ...	1,29,36,375.50		6,82,806.65		1,36,19,182.15	
VII.—Street Cleansing and Conservancy, etc. ...	4,73,42,837.93		31,45,740.42		5,04,88,578.35	
VIII.—Roads, S. W. Drains and Public Lighting ...	9,42,87,520.87		97,90,262.00		10,40,77,782.87	
IX.—Mechanical ...	50,501.36		...		50,501.36	
X.—Buildings, Land Acquisition, and Management ...	1,32,08,078.89		2,29,498.62		1,34,37,577.51	
XI.—Fire Brigade ...	15,12,699.06		...		15,12,699.06	
XIII.—Gardens and Open Spaces ...	23,30,045.42		17,458.60		23,47,504.02	
XIV.—Markets and Slaughter Houses ...	28,39,489.89		5,22,495.83		33,61,985.72	
XV.—Slum service and Village Amenities ...	39,03,720.95		...		39,03,720.95	
XVI.—Industrial Estates ...	2,94,809.00		...		2,94,809.00	
Suspense Account ...	16,60,308.47		4,25,513.87		20,85,822.34	
Plant and Machinery ...	53,03,689.20		Cr. 2,67,480.07		50,36,209.13	
Discount and other charges on Loans ...	8,23,218.47		...		8,23,218.47	
(1) Loan Funds—Total ...	22,67,27,663.43		1,70,73,377.64		24,38,01,041.07	
(2) Trust Fund						
Works Executed ...	3,27,408.00		...		3,27,408.00	
Grand Total ...	22,70,55,071.43		1,70,73,377.64		24,41,28,449.07	

APPENDIX No. 8
(EXTENDED SUBURBS)
SUMMARY

	Total Capital Expenditure upto 31st March 1971		Expenditure during 1971-72		Total Capital Expenditure upto 31st March 1972.	
	Rs.	P.	Rs.	P.	Rs.	P.
Loan Funds.						
I.—General Supervision, Collection of Revenue, etc. ...	19,67,448.95		4,28,388.39		23,95,837.34	
II.—Water Works ...	1,70,20,004.10		11,99,544.30		1,82,19,548.40	
V.—Public Health Department ...	7,04,474.42		1,38,024.91		8,42,499.33	
VI.—Medical Relief and Education ...	53,56,139.42		4,19,526.64		57,75,666.06	
VII.—Street Cleansing and Conservancy Road Watering ...	1,43,67,200.43		71,81,487.88		2,15,48,688.31	
VIII.—Roads, S. W. Drains and Public Lighting ...	3,89,29,182.70		63,99,127.57		4,53,28,310.27	
IX.—Mechanical ...	17,075.00		...		17,075.00	
X.—Buildings, Land Acquisition and Management ...	21,17,004.64		3,20,558.55		24,37,573.20	
XI.—Fire Brigade ...	1,16,170.18		48,696.97		1,64,867.15	
XIII.—Gardens and Open Spaces ...	8,81,847.93		24,795.54		9,06,643.47	
XIV.—Markets and Slaughter Houses ...	16,97,659.72		Cr. 2,62,738.99		14,34,920.73	
XV.—Slum Service and Village Amenities ...	10,45,353.44		96,813.37		11,42,166.81	
Plant and Machinery ...	3,55,421.79		Cr. 41,454.28		3,13,967.51	
Discount and other charges on Loans ...	45,222.50		...		45,222.50	
Grand Total ...	8,46,20,205.22		1,59,52,780.86		10,05,72,986.08	

No. 11 City

April 1971 on the different Loans, the amount payable for the year 1971-72, the amount paid by the and the balances outstanding on 31st March 1972.

Balance due on 31st March 1972.		Interest outstanding on 1st April 1971		Interest payable in 1971-72.		Total interest due		Deduct—Interest paid by the State Bank of India and in Office.		Outstanding balance on 31st March 1972.	
8		9		10		11		12		13	
Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
39,08,044.10		..		1,86,110.83		1,86,110.83		1,86,110.83		..	
39,08,044.10		..		1,86,110.83		1,86,110.83		1,86,110.83		..	
43,79,078.21		..		2,05,313.66		2,05,313.66		2,05,313.66		..	
43,79,078.21		..		2,05,313.66		2,05,313.66		2,05,313.66		..	
48,30,909.62		..		2,23,733.64		2,23,733.64		2,23,733.64		..	
48,30,909.62		..		2,23,733.64		2,23,733.64		2,23,733.64		..	
24,15,452.10		..		1,11,866.72		1,11,866.72		1,11,866.72		..	
2,86,51,515.96		..		13,42,182.98		13,42,182.98		13,42,182.98		..	
20,60,000.00		7,572.89		82,402.00		89,974.89		79,980.00		2.00*	9,992.89
75,00,000.00		3,533.88		2,43,757.00		2,47,290.88		2,45,199.54		2,084.26	708*
88,14,500.00		37,134.92		2,86,472.00		3,23,606.92		2,76,606.10		46,999.71	11*
...		1,78,931.00		13,20,000.00		14,98,931.00		8,27,931.00		6,71,000.00*	
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		..		9,50,003.00		9,50,003.00		9,50,000.00		3.00*	
1,65,00,000.00		2,434.40		7,83,754.00		7,86,188.40		7,82,966.19		3,218.78	3.43*
2,20,00,000.00		1,675.00		11,00,004.00		11,01,679.00		11,00,687.50		987.50	4.00*
2,50,00,000.00		141.50		14,37,505.00		14,37,646.50		14,33,906.25		3,735.25	5.00*
2,50,00,000.00		..		14,37,500.00		14,37,500.00		14,35,781.63		1,718.37	
2,90,95,000.00		3,420.00		17,45,700.00		17,49,120.00		17,43,900.00		5,220.00	
2,00,00,000.00		..		14,00,000.00		14,00,000.00		14,00,000.00		..	
4,40,00,000.00		12,750.00		26,40,001.00		26,52,751.00		26,40,105.00		12,645.00	1.00*
3,00,00,000.00		..		21,00,000.00		21,00,000.00		21,00,000.00		..	
6,15,98,000.00		11,970.00		36,95,887.00		37,07,857.00		37,00,605.00		7,245.00	7.00*
6,00,00,000.00		..		42,00,004.00		42,00,004.00		42,00,000.00		..	
1,15,41,000.00		..		6,00,005.00						4.00*	12,945.00
4,07,00,000.00		..		30,00,004.00		55,50,013.00		6,79,515.00		48,57,553.00*	
		..		19,50,004.00							
44,30,58,500.00		2,59,669.84		2,97,91,133.00		3,00,50,802.84		2,44,15,308.19		1,04,898.01	55,28,596.64*

Appendix

No.	Particulars of Loans and Advances	Rate of Interest per Annum	Balance due on 1st April 1971.		Amount raised in 1971-72.		Total		Amount repaid 1971-72.	
			Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
Loans raised from Internal										
1	Rs. 10 Lakhs Loan for the conversion of Storm Water Reservoir at Clerk Road into Public Park (1920) ..	5 %	10,00,000	00	..	..	10,00,000	00	..	..
2	Rs. 25 Lakhs Loan (1941-42) ..	3 1/2 %	25,00,000	00	..	..	25,00,000	00	25,00,000	00
3	Rs. 20 Lakhs Loan (1943-44) ..	3 1/2 %	20,00,000	00	..	..	20,00,000	00	..	..
4	Rs. 22 Lakhs Loan (1944-45) ..	3 1/2 %	22,00,000	00	..	..	22,00,000	00	..	..
5	Rs. 25 Lakhs Loan (1945-46) ..	3 1/2 %	25,00,000	00	..	..	25,00,000	00	..	..
6	Rs. 54 Lakhs Loan (1946-47) ..	3 %	54,00,000	00	..	..	54,00,000	00	..	..
7	Rs. 61 Lakhs Loan (1948-49) ..	3 %	61,00,000	00	..	..	61,00,000	00	..	..
8	Rs. 80 Lakhs Loan (1950-51) ..	3 1/2 %	80,00,000	00	..	..	80,00,000	00	..	..
9	Rs. 85 Lakhs Loan (1953-54) ..	4 %	85,00,000	00	..	..	85,00,000	00	..	..
10	Rs. 50 Lakhs Loan (1953-54) ..	4 %	50,00,000	00	..	..	50,00,000	00	..	..
11	Rs. 70 Lakhs Loan (1954-55) ..	4 %	70,00,000	00	..	..	70,00,000	00	..	..
12	Rs. 130 Lakhs Loan (1956-57) ..	4 %	1,30,00,000	00	..	..	1,30,00,000	00	..	..
13	Rs. 100 Lakhs Loan (1957-58) ..	4 1/2 %	1,00,00,000	00	..	..	1,00,00,000	00	..	..
14	Rs. 100 Lakhs Loan (1958-59) ..	4 1/2 %	1,00,00,000	00	..	..	1,00,00,000	00	..	..
15	Rs. 170 Lakhs Loan (1960-61) ..	4 1/2 %	1,70,00,000	00	..	..	1,70,00,000	00	..	..
16	Rs. 225 Lakhs Loan (1961-62) ..	4 1/2 %	2,25,00,000	00	..	..	2,25,00,000	00	..	..
17	Rs. 150 Lakhs Loan (1962-63) ..	4 1/2 %	1,50,00,000	00	..	..	1,50,00,000	00	..	..
18	Rs. 235 Lakhs Loan (1963-64) ..	4 1/2 %	2,35,00,000	00	..	..	2,35,00,000	00	..	..
19	Rs. 100 Lakhs Loan (1964-65) ..	4 1/2 %	1,00,00,000	00	..	..	1,00,00,000	00	..	..
20	Rs. 300 Lakhs Loan (1965-66) ..	6 %	3,00,00,000	00	..	..	3,00,00,000	00	..	..
21	Rs. 20 Lakhs Loan (1965-66) ..	6 %	2,00,00,000	00	..	..	2,00,00,000	00	..	..
22	Rs. 400 Lakhs Loan (1966-67) ..	6 %	4,00,00,000	00	..	..	4,00,00,000	00	..	..
23	Rs. 250 Lakhs Loan (1966-67) ..	6 %	2,50,00,000	00	..	..	2,50,00,000	00	..	..
24	Rs. 800 Lakhs Loan (1967-68) ..	6 %	8,00,00,000	00	..	..	8,00,00,000	00	..	..
25	Rs. 325 Lakhs Loan (1968-69) ..	6 %	3,25,00,000	00	..	..	3,25,00,000	00	..	..
	Total Loans raised from Internal ..		39,87,00,000	00	..	..	39,87,00,000	00	25,00,000	00
	Total Loans raised from Public ..		43,53,58,500	00	4,07,00,000	00	47,60,58,500	00	3,30,00,000	00
	Total from Public and Internal ..		83,40,58,500	00	4,07,00,000	00	87,47,58,500	00	3,55,00,000	00
Advances from different Funds for purchase of Plant and Machinery										
1	Advances of Rs. 1,86,654.42 from Net Prem. Fund 1966-67 ..	6 per cent.	41,803	30	..	..	41,803	30	41,803	30
2	Advances of Rs. 5,37,235.27 from Municipal Fire & Accident Insurance Fund 1966-67....	6 per cent.	1,20,317	38	..	..	1,20,317	38	1,20,317	38
3	Advances of Rs. 2,18,512.09 from Hospital Fund 1966-67 ..	6 per cent.	48,937	66	..	..	48,937	66	48,937	66
4	Advances of Rs. 2,93,060.15 from Plant and Machinery Depreciation Fund 1966-67 ..	6 per cent.	65,635	29	..	..	65,635	29	65,635	29
5	Advance of Rs. 8,16,793.40 from Land (R. & A.) Fund 1966-67 ..	6 per cent.	1,82,927	30	..	..	1,82,927	30	1,82,927	30
6	Advance of Rs. 300.84 from K.E.M Hospital and G.S.M. College Equipment Fund 1966-67 ..	6 per cent.	69	21	..	..	69	21	69	21
7	Advance of Rs. 9,318.13 from K.E.M. Hospital and G.S.M. College Research Fund 1966-67 ..	6 per cent.	2,131	65	..	..	2,131	65	2,131	65
	Total (Pl. & Mach.) ..		4,61,821	79	..	..	4,61,821	79	4,61,821	79

No. 11 City—(Contd.)

Balance due on 31st March 1972.		Interest outstanding on 1st April 1971.		Interest payable in 1971-72.		Total Interest due.		Deduct-Interest paid by the State Bank of India and in Office.		Out standing Balance on 31st March 1972.	
8		9		10		11		12		13	
Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
10,00,000	00	..	..	50,000	00	50,000	00	50,000	00	..	..
20,00,000	00	..	..	87,500	00	87,500	00	80,208	33	7,291	67*
22,00,000	00	..	..	70,000	00	70,000	00	70,000	00	..	..
25,00,000	00	..	..	77,000	00	77,000	00	77,000	00	..	..
54,00,000	00	..	..	87,500	00	87,500	00	87,500	00	..	..
61,00,000	00	..	..	1,62,004	00	1,62,004	00	1,62,000	00	4	00*
80,00,000	00	..	..	1,83,000	00	1,83,000	00	1,83,000	00	..	..
85,00,000	00	..	..	2,60,003	00	2,60,003	00	2,60,000	00	3	00*
50,00,000	00	..	..	3,40,000	00	3,40,000	00	3,40,000	00	..	..
70,00,000	00	..	..	2,00,000	00	2,00,000	00	2,00,000	00	..	..
1,30,00,000	00	..	..	2,80,000	00	2,80,000	00	2,80,000	00	..	..
1,00,00,000	00	..	..	5,20,000	00	5,20,000	00	5,20,000	00	..	..
1,00,00,000	00	..	..	4,25,000	00	4,25,000	00	4,25,000	00	..	..
1,00,00,000	00	..	..	4,25,000	00	4,25,000	00	4,25,000	00	..	..
1,70,00,000	00	..	..	7,22,502	00	7,22,502	00	7,22,500	00	2	00*
2,25,00,000	00	..	..	9,56,254	00	9,56,254	00	9,56,250	00	4	00*
1,50,00,000	00	..	..	6,75,000	00	6,75,000	00	6,75,000	00	..	..
2,35,00,000	00	..	..	11,16,254	00	11,16,254	00	11,16,250	00	4	00*
1,00,00,000	00	..	..	4,75,002	00	4,75,002	00	4,75,000	00	2	00*
3,00,00,000	00	..	..	18,00,002	00	18,00,002	00	18,00,000	00	2	00*
2,00,00,000	00	..	..	12,00,002	00	12,00,002	00	12,00,000	00	2	00*
4,00,00,000	00	..	..	24,00,002	00	24,00,002	00	24,00,000	00	2	00*
2,50,00,000	00	..	..	15,00,002	00	15,00,002	00	15,00,000	00	2	00*
8,00,00,000	00	..	..	48,00,007	00	48,00,007	00	48,00,000	00	7	00*
3,25,00,000	00	..	..	19,50,003	00	19,50,003	00	19,50,000	00	3	00*
39,62,00,000	00	..	..	2,0,62,037	00	2,07,6,037	00	2,07,54,708	33	7,328	67*
44,30,58,500	00	2,59,669	84	2,97,91,133	00	3,00,50,802	84	2,44,15,303	19	1,05,898	01
										55,28,596	64*
83,92,58,500	00	2,59,669	84	5,05,53,170	00	5,08,12,839	84	4,51,70,016	52	1,06,898	01**
										55,35,925	51*
..	..	..	..	2,508	20	2,508	20	2,208	20	..	..
..	..	..	..	7,219	04	7,219	04	7,219	04	..	..
..	..	..	..	2,936	26	2,936	26	2,936	26	..	..
..	..	..	..	3,938	12	3,938	12	3,938	12	..	..
..	..	..	..	10,975	64	10,975	64	10,975	64	..	..
..	..	..	..	4	15	4	15	4	15	..	..
..	..	..	..	127	90	127	90	127	90	..	..
..	..	..	..	27,709	31	27,709	31	27,709	31	..	..

* 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' 'A' & 'B' & 'B' 'C' during the year 1972-73

* To be treated as Saving.

Drs.—[

Serial No.	Particulars of Loans	Rate of Interest per Annum	Balance due on 1st April 1971		Amount raised in 1971-72		Total		Amount repaid in 1971-72	
			Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
1	2	3	4		5		6		7	
	Advances brought forward ...		4,61,821	79	...	...	4,61,821	79	9,27,958	18
8	Advance of Rs. 5,01,261.99 from Net Premia Fund 1967-68 ...	6 per cent.	2,18,169	02	...	...	2,18,169	02	1,05,907	86
9	Advance of Rs. 2,66,800.57 from Municipal Fire & Accident Insurance Fund 1966-67 ...	6 per cent.	1,16,124	06	...	...	1,16,124	06	56,369	56
10	Advance of Rs. 1,82,013.60 from Hospital Fund 1967-68 ...	6 per cent.	79,220	95	...	...	79,220	95	38,455	74
11	Advance of Rs. 6,13,315.55 from Plant and Machinery Depreciation Fund 1967-68 ...	6 per cent.	2,66,939	65	...	...	2,66,939	65	1,29,582	62
12	Advance of Rs. 23,941.80 from K.E.M. Hospital Equipment Fund 1967-68 ...	6 per cent.	10,419	49	...	...	10,419	49	5,058	83
13	Advance of Rs. 3,45,378.63 from Land Reclamation and Acquisition Fund 1967-68 ...	6 per cent.	1,50,321	74	...	...	1,50,321	74	72,972	69
14	Advance of Rs. 4,47,150.72 from Net Premia Fund 1968-69 ...	6 per cent.	2,83,745	43	...	...	2,83,745	43	89,127	27
15	Advance of Rs. 1,93,631.14 from Municipal Fire and Accident Insurance Fund 1968-69 ...	6 per cent.	1,22,871	93	...	...	1,22,871	93	38,594	68
16	Advance of Rs. 2,03,822.47 from Hospital Fund 1968-69 ...	6 per cent.	1,29,337	71	...	...	1,29,337	71	40,626	74
17	Advance of Rs. 4,73,033.90 from Plant and Machinery Depreciation Fund 1968-69 ...	6 per cent.	3,00,169	07	...	...	3,00,169	07	94,285	86
18	Advance of Rs. 29,21,176.56 from Land (R and A) Fund 1968-69 ...	6 per cent.	18,53,671	36	...	...	18,53,671	36	5,82,256	74
19	Advance of Rs. 33,775.00 from K. E. M. Hospital Equipment Fund 1968-69 ...	6 per cent.	21,432	51	...	...	21,432	51	6,732	05
20	Advance of Rs. 2,10,514.34 from Municipal Fire and Accident Insurance Fund ...	6 per cent.	1,73,170	20	...	...	1,73,170	20	39,584	79
21	Advance of Rs. 92,335.97 from Net Premia Fund ...	6 per cent.	75,956	13	...	...	75,956	13	17,362	63
22	Advance of Rs. 3,85,439.44 from Plant and Machinery depreciation Fund ...	6 per cent.	3,17,063	81	...	...	3,17,063	81	72,478	17
23	Advance of Rs. 2,72,831.42 from Hospital Fund ...	6 per cent.	2,24,432	31	...	...	2,24,432	31	51,303	06
24	Advance of Rs. 17,332.97 from K. E. H. S.M. College, Equipment Fund ...	6 per cent.	14,257	95	...	...	14,257	95	3,259	52
25	Advance of Rs. 4,703 from G. S. M. E. K. M. Hospital Reserch Fund ...	6 per cent.	3,869	18	...	...	3,869	18	883	85
26	Advance of Rs. 3,97,578.39 from Land (R and A) Fund ...	6 per cent.	3,27,049	09	...	...	3,27,049	09	74,761	05
27	Advance of Rs. 3,60,655.87 from Motor Vehicles (Third party) Insurance Fund ...	6 per cent.	2,96,677	22	...	...	2,96,677	22	67,817	37
28	Advance of Rs. 9,46,924.81 from Net Premia Fund ...	6 per cent.	9,46,924	81	...	...	9,46,924	81	1,67,980	51
29	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	82,166	41
30	Advance of Rs. 1,81,892.46 from Hospital Fund ...	6 per cent.	1,81,892	46	...	...	1,81,892	46	32,267	45
31	Advance of Rs. 8,80,232.90 from Plants and Machinery Depreciation Fund ...	6 per cent.	8,80,232	90	...	...	8,80,232	90	1,56,150	02
32	Advance of Rs. 1,870.90 from K. E. M. Hospital Equipment Fund ...	6 per cent.	1,870	90	...	...	1,870	90	331	75
33	Advance of Rs. 21,44,460.32 from Land R. A. Fund ...	6 per cent.	21,44,460	32	...	...	21,44,460	32	3,80,419	38
34	Advance from K.E.M. Hospital Reserch Fund ...	6 %	...	...	...	...	...	...	...	...
35	Advance from Special Funds ...	6 %	...	...	...	...	...	...	...	...
36	Advance from Motor vehicles (T. P. Ins Fund ...	6 %	...	...	...	...	...	...	...	...
37	Advance of Rs. 33,30,258.89 from Land R. A. Fund 1971-72 ...	6 %	...	...	33,30,258	89	33,30,258	89	...	...
38	Advance of Rs. 11,75,877.83 from Net Premia Fund 1971-72 ...	6 %	...	...	11,75,877	83	11,75,877	83	...	...
39	Advance of Rs. 2,10,232.34 from Municipal Fire and Accident Insurance Fund 1971-72 ...	6 %	...	...	2,10,232	34	2,10,232	34	...	...
40	Advance of Rs. 3,35,688.64 from Hospital Fund 1971-72 ...	6 %	...	...	3,35,688	64	3,35,688	64	...	...
41	Advance of Rs. 10,017 from K.E.M. Hospital Reserch Fund 1971-72 ...	6 %	...	...	10,017	00	10,017	00	...	...
	Total Advance from Special Fund for purchase of Plants and Machinery ...		1,00,55,278	53	50,62,074	70	1,51,27,353	23	28,6,559	39
	Total Loan raised from Government ...		3,15,80,775	60	..	..	3,15,80,775	60	29,29,259	64
	Total Loans raised from Public and Internal ...		83,40,58,500	00	4,07,00,000	00	87,47,58,500	00	3,55,00,000	00
	Grand Total		87,57,04,554	13	4,57,62,074	70	92,14,66,628	83	4,12,97,819	03

No. 11 City (Concl.)

Balance due on 31st March 1972		Interest outstanding on 1st April 1971		Interest payable in 1971-72		Total Interest due		Deduct-Interest paid by the State Bank of India and in Office		Outstanding Balance on 31st March 1972	
8		9		10		11		12		13	
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
4,61,821	79	...	...	27,709	31	27,709	31	27,709	31	...	...
1,12,261	16	...	...	13,090	14	13,090	14	13,090	14	...	...
59,754	50	...	...	6,967	44	6,967	44	6,967	44	...	...
40,765	21	...	...	4,753	26	4,753	26	4,753	26	...	...
13,73,570	03	...	...	16,016	38	16,016	38	16,016	38	...	...
5,360	66	...	...	625	17	625	17	625	17	...	...
77,349	05	...	...	9,019	31	9,019	31	9,019	31	...	...
1,94,618	16	...	...	17,024	73	17,024	73	17,024	73	...	...
84,277	25	...	...	7,372	32	7,372	32	7,372	32	...	...
88,710	97	...	...	7,760	26	7,760	26	7,760	26	...	...
2,05,882	21	...	...	18,010	14	18,010	14	18,010	14	...	...
12,71,414	62	...	...	1,11,220	25	1,11,220	25	1,11,220	26	...	.01 *
14,700	46	...	...	1,285	95	1,285	95	1,285	95	...	...
1,33,585	41	...	...	10,390	21	10,390	21	10,390	21	...	...
58,593	50	...	...	4,557	37	4,557	37	4,557	37	...	...
2,44,585	64	...	...	19,023	83	19,023	83	19,023	83	...	...
1,73,129	25	...	...	13,465	94	13,465	94	13,465	94	...	...
10,998	43	...	...	855	43	855	43	855	43	...	...
2,985	33	...	...	232	15	232	15	232	15	...	...
2,52,288	04	...	...	19,622	95	19,622	95	19,622	95	...	...
2,28,859	85	...	...	17,800	63	17,800	63	17,800	63	...	...
7,78,944	30	...	...	2,14,830	00	2,14,830	00	56,815	49	1,58,014	51 *
3,81,010	13	...	...	1,02,552	00	1,02,552	00	27,790	59	74,761	41*
1,49,625	01	...	...	81,858	00	81,858	00	10,913	55	70,944	45*
7,24,082	88	...	...	70,116	00	70,116	00	52,813	98	17,302	20*
1,539	15	...	...	5,555	00	5,555	00	112	25	5,443	75*
17,64,040	94	...	...	2,92,003	60	2,92,008	60	1,28,667	62	1,63,340	98*
...	...	...	...	720,000	...	7,200.00	...	...	...	7,200.00	*
...	...	...	...	47,520.00	...	47,520.00	...	...	...	47,520.00	*
...	...	...	...	66,078.00	...	66,078.00	...	...	...	66,078.00	*
33,30,258.89	...	...	...	...	...	...	...	...	...	...	...
11,75,877.83	...	...	...	...	...	...	...	...	...	...	...
2,10,232.34	...	...	...	...	...	...	...	...	...	...	...
3,35,688.64	...	...	...	...	...	...	...	...	...	...	...
10,017.00	...	...	...	...	...	...	...	...	...	...	...
12,22,53,793	84	...	...	12,45,21	82	12,14,521	82	6,07,916	71	6,10,605	11*
2,86,51,515	56	...	...	13,42,182	98	13,42,182	98	13,42,182	93	...	...
83,92,58,500	00	2,59,669	84	5,05,53,170	00	5,08,12,839	84	4,51,70,016	52	1,06,893	01**
										55,35,925	31*
18,01,68,800	80	2,59,669	84	5,31,09,874	80	5,33,69,544	64	4,71,16,116	21	1,06,898	01**
										61,46,530	42*

No. 11—Suburbs.

Outstanding on 1st April 1971 on the different Loans, the amount payable for the year 1971-72, the amount outstanding on 31st March 1972.

Amount repaid in 1971-72.	Balance due on 31-3-1972.		Interest outstanding on 1-4-1971.		Interest payable in 1971-72.		Total Interest due.		Deduct—Interest paid.		Outstanding Balance on 31-3-1972.	
	(7)	(8)		(9)		(10)		(11)		(12)		(13)
Rs. Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
...	1,00,000	00	30	00	4,000	00	4,030	00	4,010	00	20	00
1,25,00,000 00	...	...	1,92,953	75	2,45,834	00	4,38,787	75	4,37,76	34	1,031	41
...	77,00,000	00	18,669	25	3,27,250	00	3,45,939	25	3,44,451	83	1,487	42
...	10,00,000	00	...	...	42,500	00	42,500	00	42,500	00	...	...
...	55,00,000	00	1,105	18	2,33,750	00	2,34,855	18	2,33,973	09	852	09
...	50,00,000	00	...	...	2,12,500	00	2,12,500	00	2,12,500	00	...	...
...	1,60,00,000	00	3,963	11	7,60,000	00	7,63,963	11	7,57,954	72	6,008	39
...	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	24,035	10	5,75,000	00	5,99,035	10	5,97,525	60	1,539	50
...	50,00,000	00	...	...	3,00,000	00	3,00,000	00	3,00,000	00	...	...
...	75,00,000	00	...	...	4,31,250	00	4,31,250	00	4,31,250	00	...	...
...	50,00,000	00	...	...	3,00,000	00	3,00,000	00	3,00,000	00	...	...
...	45,00,000	00	25,794	00	2,70,000	00	2,95,794	00	2,74,494	00	21,300	00
...	50,00,000	00	...	...	3,00,000	00	3,00,000	00	3,00,000	00	...	...
...	82,50,000	00	3,720	00	4,95,000	00	4,98,720	00	4,98,720	00	...	...
...	50,00,000	00	...	...	3,00,000	00	3,00,000	00	3,00,000	00	...	...
...	1,10,00,000	00	664	00	6,60,000	00	6,60,664	00	6,60,664	00	...	...
...	2,42,00,000	00	..	..	14,52,000	00	14,52,000	00	14,41,620	00	10,380	00
...	1,87,00,000	00	..	..	11,22,000	00	11,22,000	00	11,15,437	00	6,563	00
...	3,85,00,000	00	...	...	...	...	...	...	...	...	...	...
1,25,00,000 00	20,84,50,000	00	2,70,954	39	94,98,581	00	97,69,538	39	97,20,356	58	49,181	81

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

* Shown as saving.

APPENDIX No. 11. (Extended Suburbs).

Statement showing Outstanding Loans due by the Municipal Corporation of Greater Bombay (Extended Suburban Area), the Interest Outstanding on 1st April 1971 on the different Loans, the amount payable for the year 1971-72 the amount paid by the State Bank of India and in office during the year and the balance Outstanding on 31st March 1972.

Serial No.	Particulars of Loan.	Rate of interest.	Balance due on 1-4-1971.	Amount raised in 1971-72.	Total.	Amount repaid in 1971-72.	Balance due on 31-3-1972	Interest outstanding on 1-4-1971.	Interest payable in 1971-72.	Total Interest due.	Deduct Interest paid.	Outstanding balance on 31-3-1972.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(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	...	19,724.00	49,167.00	68,891.00	68,181.67	709.33
4	4½ per cent. Rs. 20 lakhs Bombay Municipal Extended Suburbs Loan of 1960-61 for financing Capital Works such as Water Works etc.	4½%	22,00,000	...	22,00,000	...	22,00,000	4,250.17	93,500.00	97,750.17	95,199.96	2,550.21
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	180.67	2,33,750.00	2,33,930.67	2,31,051.24	2,879.43
7	4½ per cent. Rs. 30 lakhs Bombay Municipal Extended Suburbs Loan of 1962-63 for financing Capital Expenditure such as Water Works etc.	4½%	30,00,000	...	30,00,000	...	30,00,000	10,010.82	1,42,500.00	1,52,510.82	1,41,716.21	10,794.61
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	...	2,87,500.00	2,87,500.00	2,85,258.00	2,242.00
11	6% Rs. 40 lakhs B.M.C. Budget 'A' Div. III Internal loan 1966-67	6%	40,00,000	...	40,00,000	...	40,00,000	...	2,40,000.00	2,40,000.00	2,40,000.00	...
12	6% Rs. 35 lakhs Bom. Mun. Budget 'A' Div. III Loan 1967-68 out of Rs. 60 Lakhs Loan	6%	35,00,000	...	35,00,000	...	35,00,000	19,684.00	2,10,000.00	2,29,684.00	2,01,495.00	28,189.00
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	5% 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	1,94,250.00	750.00
16	6% Rs. 165 lakhs B. M. C. Loan 1970-71 (1st issue)	6%	1,81,50,000	...	1,81,50,000	...	1,81,50,000	...	10,89,000.00	10,89,000.00	10,76,135.00	12,855.00
17	6% Rs. 115 Lakhs B. M. C. Loan 1970-71 (2nd issue)	6%	1,26,50,000	...	1,26,50,000	...	1,26,50,000	...	7,59,000.00	7,59,000.00	7,47,555.00	11,445.00
18	6% Rs. 165 lakhs B. M. C. Loan 1971-72	6%	...	1,50,00,000	1,65,00,000	...	1,65,00,000	...	...	...	...	...
	Total		8,52,50,000	1,65,00,000	10,17,50,000	25,00,000	9,92,50,000	53,849.66	47,01,917.00	47,55,766.66	46,83,352.08	72,414.58

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

	Details.		Total.	
	Ra.	P.	Ra.	P.
RECEIPTS—A.—REVENUE ACCOUNT.				
A.—General Tax	11,22,89,186	55		
B.—Town Duties	13,08,11,553	67		
C.—Other Receipts—				
(a) Grant-in-aid of the fees for Land Conveyance, Music, etc., Licences	10,559	50		
(b) Grant-in-aid in respect of fines for offences against the Law	4,74,847	00		
(c) Interest and Profit on Investment of Surplus Loan and other balances	2,10,51,097	77		
(d) Interest on Plant and Machinery Depreciation Fund	1,88,216	97		
(e) Miscellaneous	60,27,752	74		
(f) Receipts on account of Municipal Journal	5,160	09		
D.—Receipts on account of proportionate cost of collection of Education cess	1,47,604	64		
E.—Rebate from Govt. on account of Collection of Education cess	2,53,24	94		
			32,12,59,933	87
Water Works—Water Tax and other Miscellaneous Water Works Revenue—				
A.—Water Tax	5,17,60,458	21		
B.—Other Receipts	23,13,08	24		
C.—Project Engineer	25,889	47		
			5,40,99,855	92
3. Museums	21,067	55	21,067	55
4. Free Reading Rooms and Libraries	28,07,778	16	23,07,778	16
5. Public Health Department	11,93,224	11	11,98,224	11
6. Medical Relief and Education	25,28,343	55	25,28,343	55
7. Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
A.—Halalkhore Tax	1,72,70,713	85		
B.—Other Receipts	15,22,787	25		
C.—Tax on Dogs	53,256	45		
			1,87,96,755	57
8. Roads, S.W. Drains and Public Lighting—				
A.—Wheel Tax	99,89,016	93		
B.—Contribution from Government in lieu of Tolls	25,000	00		
C.—Other Receipts—				
(a) Ground Rent	1,49,712	83		
(b) Miscellaneous	12,36,776	97		
(c) Interest realised on Donations	2,225	95		
			1,14,02,762	69
9. Mechanical	1,56,867	37	1,56,867	37
10. Buildings, Land Acquisition and Management—				
A.—Sale Proceeds of Surplus Land	35,763	24		
B.—Other Receipts—				
(a) Rent of Buildings	17,71,318	31		
(b) Ground Rent	6,58,326	43		
(c) Miscellaneous	25,69,350	21		
C.—Contribution from the Capital Funds on account of Special Land Acq. staff	1,52,651	27		
			55,09,609	46
11. Fire Brigade—				
A.—Fire Tax	35,11,859	78		
B.—Other Receipts	51,041	60		
			35,62,901	38
12. Licensing Removal of Encroachments on Public Streets, Administration of Shops & Establishments Act, 1948 and Theatre Tax—				
A.—Licences for Dangerous and Offensive Trades	28,83,713	01		
B.—Removal of Encroachments on Public Streets	34,46,804	59		
C.—Receipts from Administration of Shops and Establishments Act	5,76,613	27		
D.—Miscellaneous	21,94,612	09		
E.—Receipts from Theatre Tax	8,08,814	05		
			99,10,587	10
13. Gardens and Open Spaces	7,73,423	43	7,73,423	43
14. Markets and Slaughter Houses	94,40,007	50	94,40,007	50
15. Contribution from Capital Funds to Revenue on account of Loan Works Staff	7,01,532	48	7,01,532	48
16. Extraordinary Receipts	2,59,794	37	2,59,794	37
17. Rebate from Government on account of collection of the Urban Immoveable Property Tax in the City				
			40,00,000	00
18. Transfers from the B. E. S. & T. Fund	40,00,000	00	40,00,000	00
19. Receipts from Government on account of Urban Immoveable Property Tax				
20. Grant-in-aid from Central Government on account of additional Exp. due to increase in employments etc.				
21. Rebate from Govt. on account of collection of Loan Repairs cess	16,12,405	85	16,12,405	85
			41,80,40,850	27
RECEIPTS—B.—CAPITAL ACCOUNT—				
Loan Funds—				
Deb.—Principal—				
Loan of 1970-71	4,07,00,000	00		
Advances from Special Funds for purchase of Plant and Machinery—				
Net premium Fund	11,75,877	83		
Municipal Fire and Accident Insurance Fund	2,10,232	34		
Advance from K.E.M. Hospital Research Fund for purchase of P & L M	10,017	00		
K.E.M. Hospital Equipment Fund				
Land (Acquisition and Reclamation) Fund	33,30,258	89		
Hospital Fund	3,35,688	64		
Plant and Machinery Depreciation Fund				
Advances from Net Premium 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				
Advance from Net Premium Fund for Repayment of Rs. 28 lakhs Loan of 1929				
Motor vehicle third Party Insurance Fund				
			4,57,62,074	70
Trust Fund—				
Government share of the cost of Preliminary Expenses in connection with preparation of the Master Plan for Bombay City and Greater Bombay				
Donations				
Interest on investments				
			4,57,62,074	70
Total Capital Account Receipts				

No. 15 (City)

and debited to the Municipal Fund during the year 1971-72 and the balance year 1971-72 (i. e. 31st March 1972).

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—C.—SUSPENSE ACCOUNT—				
I—Sinking and Special Fund Accounts—				
Sinking Fund account—Municipal	4 56 94	726 70		
Special Fund Accounts	8 23 22	233 37		
Improvement Schemes Fund Account—				
(a) Sinking Fund Account	52 55	717 54		
(b) Investment Reserve Fund Account	6 13	547 97		
Sinking Fund Account—Slum clearance (City)	7 33	23 03		
Sinking Fund Account Slum clearance (Suburbs)	5 33	041 76		
Amenities Fund Account	1 25	495 16		
Rent Equalisation Fund Account	3 68	449 93		
			13 56	46 234 26
II—Paper and Cash Accounts—				
1. Sinking Fund	4 94	84 8 5 06		
2. Special Funds	4 08	49 043 15		
3. Surplus Fund	14 32	30 858 68		
4. Loan Fund		158 95		
5. Improvement Schemes Funds—				
(a) Sinking Fund	41 318	92		
(b) Capital Fund	363	73		
(c) Investment Reserve Fund	29	46		
(d) Rent Equalisation Fund	26	25		
(e) Amenities Fund	13	09		
6. Improvement Schemes A/c (Slum Clearance) City—				
(a) Sinking Fund	5 097	74		
(b) Capital Fund	364	17		
7. Improvement Schemes A/c (Slum Clearance) Subs.				
(a) Sinking Fund		79 65		
(b) Capital Fund		3 0 72		
State Bank of India and other Local Banks on account of Sundry deposits	61 54 68	143 07		
			84 90 80 692	64
III.—Suspense Accounts—				
Deposit Account	32 42 73	302 69		
Reserve Stores Account	1 69	0 129 68		
Capital Stores Account	1 0	17 8 5 39		
Purchase of Petrol and Diesel Oil	1 93	098 43		
Advances to public including co-operatives for Housing Purposes		1 9 8 58		
Advances Departmental Works	19 81	9 19 26		
Advances Municipal Workshops	9 0	335 90		
Municipal Foundry	1 86	933 79		
Work Crushers	3 21	735 53		
Sewri Crushers				
Mechanical Transport	68 03	699 23		
Asphalt Plant	14 25	264 24		
Pre-Cast Concrete Slabs				
Municipal Printing Press	29 17	5 5 54		
Repe Printing Units	61	53 65		
Advances Private Works	6 34	046 62		
Servicing of Vehicles and recharging of Batteries.				
Reinstatement of Trenches	28 25	042 13		
Advances Special Funds	41 5	7 7 44		
Municipal Contractors	43	037 54		
Municipal Tenderers				
Sundry Advances	3 10	03 44 73		
Advances for demolition of unauthorised structures and for removal of unsafe Buildings in the City	14 67	038 04		
Advances to Municipal Officers—	1 5	225 21		
Interest Accrued but not paid	3 11	6 7 0		
Interest Receivable Account	1 11	40 0		
Provident Fund	3 62	83 6 3 70		
Welfare Fund				
Fines Fund		7 9 3 07		
Fidelity Guarantee Insurance Fund		7 58 85		
Bombay Municipal Corporation Loans Interest Warrants payable Account	1 27	3 00 46		
City of Bombay Improvement Trust Loans Interest Warrants Payable Account	3 50	4 9 16		
Cash Bills on standing Account	2 43	551 92		
Dishonoured Cheques	99	1 4 9 77		
Cheques payable	1 03	10 4 6 0 3		
Loan Redemption Fund Slum Clearance City	1 32	32 97		
Loan Redemption Fund Slum Clearance Suburbs	26	3 2 93		
Wages Deposit Account	1 17	38 9 7 83		
Loan Redemption Fund—Municipal	4 12	7 819 03		
Loan Redemption Fund—Improvement Schemes	12 95	988 12		
Manufacture of concrete covers—Recoveries	Dr.	2 246 25		
Interest on B. J. T. Loans payable Account		4 698 96		
Debt charge Equalisation Fund				
Municipal Power Laundry	13 21	1 79 75		
Pant and Machinery Purchased out of S. C. B.				
Pension Fund	1 45	0 889 72		
Gratuities Fund	3 37	5 0 19		
Amount transferred to D. A. Suburbs	5 81	45 178 27		
Security Deposit in C. Railway L. D. G. S. New Delhi	80 89	6 53 23		
Security Deposit in C. P. Notes with State Bank of India				
Improving common Houser Gullies in the City	4	637 38		
Contribution Receivable From Budget 'E'	19 16	935 56		
Advance to B. E. S. & T.	63 0	0 0 0 09		
			1 65 29 87 225	70
Total Receipts—C.—Suspense Accounts			2 63 77 14 152	69

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—D.—IMPROVEMENT SCHEMES ACCOUNT—				
General Account Revenue—				
I.—Rents and other proceeds of Properties...	1,32,09,428	84		
II.—Contribution from the Municipal Corporation under Section 125(2)(d) of the Municipal Act	2,00,20,172	00		
III.—Grant-in-aid for meeting deficit in General Account				
IV.—Interest and Profit on Investments	6,41,760	74		
V.—Miscellaneous Receipts	4,28,263	52		
VI.—Transfer of Revenue Surplus to Capital Account	Dr. 45,10,351	25		
	Total Rs.			2,97,89,276 85
Capital Account—				
I.—Sale proceeds of Lands, Buildings, etc.	3,16,105	16		
II.—Transfer of Revenue Surplus from General Account	45,10,351	25		
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.			49,25,456 41
	Total—D.—Improvement Schemes			3,46,15,733 26
RECEIPTS—E.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE (CITY)—				
General Account Revenue—				
I.—Rents and other proceeds of Properties	16,04,395	89		
II.—Grant-in-aid for meeting deficit				
III.—Interest and Profit on Investment	36,138	52		
IV.—Miscellaneous Receipts				
V.—Appropriation from Capital Account to meet deficit in General Account	8,67,907	83		
				25,08,442 24
Capital Account—				
I.—Sale proceeds of Lands and Buildings				
II.—Loans from Government	25,00,000	00		
III.—Loan raised in 197-70				
Subsidy from Government	5,22,267	75		
Transfer to General Accounts				
	Total—Capital Account Receipts			30,22,267 75
	Total—E.—Improvement Schemes Slum Clearance (City)			55,30,709 99
RECEIPTS—F.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE (Subs.)—				
General Account Revenue—				
I.—Rents and other proceeds of properties	7,66,098	18		
II.—Contribution from Municipal Corporation (Suburbs)				
III.—Interest and Profits on Investments	1,30,750	84		
IV.—Miscellaneous Receipts	2,61,135	76		
V.—Transfer of Revenue Surplus to Capital Account	14,89,371	39		
				26,47,356 17
Capital Account—				
I.—Sale Proceeds of Lands and Buildings	10,37,969	54		
II.—New Loans in 1968-69				
Transfer of Revenue Surplus				
III.—Loan from Government				
IV.—Subsidy from Government				
	Total—Capital Account Receipts			10,37,969 54
	Total—F.—Improvement Schemes Account—Slum Clearance (Subs.)			36,85,325 71
EXPENDITURE—A.—REVENUE ACCOUNT.				
I.—General Supervision, Collection of Revenue etc.—				
A.—General Superintendence	1,51,33,362	38		
B.—Collection of Revenue	71,55,645	34		
C.—Upkeep and guarding of Municipal Head Office	11,63,861	74		
D.—General Stores	6,47,612	16		
E.—Legal Department	13,97,375	24		
F.—Miscellaneous Charges	5,63,899	96		
G.—Election Expenses	16,619	24		
H.—Provident Fund charges	3,75,815	76		
I.—Debt Charges	11,35,469	19		
Deduct—Proportion of General Superintendence chargeable to the Water Works, VII—Street Cleaning, VIII—Roads, Fire Brigade Market, and Improvement Schemes Account and Education Fund Account Budget D & F	Cr. 71,38,474	28		
				2,04,42,666 79
II.—Water Works—				
A.—Maintenance	1,73,93,817	63		
B.—Income Tax on income derived by the Municipality for supply of water to areas outside Municipal Jurisdiction	2,59,287	29		
C.—Provident Fund Charges	10,01,480	00		
D.—Pension, Gratuities and Compassionate Allowances	34,37,859	42		
E.—Proportion of General Supervision and Collection of Revenue, etc.	5,71,00,415	47		
F.—Debt Charges				
G.—Provision for Equalisation of Debt Charges				
				7,92,00,859 81
III.—Museums—				
A.—Victoria Albert Museum	95,639	07		
B.—Provident Fund Charges	930	00		
C.—Debt Charges	1,175	62		
				97,715 59
IV.—Free Reading Rooms and Libraries—				
A.—Municipal Free Reading Rooms and Libraries	12,67,279	79		
B.—Municipal High School	41,50,114	29		
C.—Provident Fund charges	7,045	00		
D.—Debt Charges	287	88		
				54,17,826 96
V.—Public Health Department—				
A.—General Superintendence	85,05,233	02		
B.—Supply of milk to the undernourished needy children attending Municipal Schools	27,19,267	07		
C.—Provident Fund, Charges	1,29,513	09		
E.—Census	87,543	85		
F.—Debt Charges	6,06,923	00		
D.—Malaria Eradication Programme Institute of Public Health	2,41,625	51		
G.—Impounding Stray Cattle	1,18,878	96		
				1,21,99,047 50
	Expenditure—Revenue—Carried over			11,73,58,116 59

	Details.		Total.	
	Rs.	P.	Rs.	P.
			11,75,85,116	52
B/o.				
VI.—Medical Relief and Education—				
A.—Hospitals and Maternity Homes—	5,60,7,158	10		
B.—Maternity Homes	35,10,722	51		
C.—Dispensaries	24,59,160	85		
D.—Family planning clinics				
E.—Medical Education	87,21,385	21		
F.—Statutory Contribution to Government Medical Institutions	4,14,500	04		
G.—Clinic for treatment of Leprosy cases	3,73,965	97		
H.—Providing a convalescent home of 120 Beds with Equipments, Staff quarters near K. E. M. Hospital B.C.G. Vaccination				
K.—Debt Charges	65,32,701	09		
L.—Construction of full fledged Buildings at L. T. M. G. H. Sion	55,67,662	63		
I.—Grant-in-aid to Public Institutions	3,30,109	59		
J.—Provident Fund, charges				
			8,40,77,366	70
VII.—Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
A.—Street Cleansing and Conservancy	36,63,064	87		
B.—Collection, Loading Removal and disposal of Town Refuse	2,78,47,192	91		
C.—Halalkhore Service	1,82,21,226	91		
D.—Provident Fund charges	5,97,47	26		
E.—Pension Gratuities and Compassionate allowances...	22,67,20	00		
F.—Debt Charges	32,97,512	77		
			5,58,93,874	72
VIII.—Roads S. W. Drains and Public Lighting—				
A.—General	11,61,599	80		
B.—Maintenance of Roads	1,05,71,971	45		
C.—Public Lighting	1,11,86,412	25		
D.—Maintenance of S. W. Drains	7,91,08	51		
E.—Rebate on Account of the compounded wheel-tax,	13,813	00		
F.—Provident Fund etc. Charges	1,01,112	58		
H.—Debt Charges	1,04,43,03	90		
I.—Proportional Cost of Collection of Wheel Tax at 5% of the Total Expenditure etc.	2,82,029	08		
			3,45,51,101	58
IX.—Mechanical—				
A.—Mechanical Engineer's Office Estt.	9,71,555	61		
B.—Provident Fund Charges	27,70	82		
C.—Debt Charges	48,495	21		
			10,48,091	64
X.—Buildings, Land Acquisition and Management—				
A.—City Engineer's Central Office Establishment	17,01,592	77		
B.—Inspection and Supervision of Private Buildings	16,58,60	96		
D.—Architectural	2,59,45	17		
E.—Land Acquisition and Management	19,27,205	77		
F.—Inspection and Supervision of Factories, Workshops and Work Places	1,24,656	41		
Debt Charges	40,20,356	11		
J.—Provident Fund, charges	8,697	56		
Deduct—Supervision Chargeable to Improvement Schemes Account Industrial Estate	Cr. 67,134	77		
	1,87,670	04		
			99,01,954	72
XI.—Fire Brigade—				
A.—Maintenance	32,61,382	66		
B.—Provident Fund, etc., Charges	1,84	00		
C.—Pension Gratuities and compassionate allowances	2,88,610	10		
D.—Proportion of General Supervision and Collection of Revenue	2,49,447	70		
E.—Debt Charges	5,02,638	89		
			43,03,956	25
XII.—Licensing, Removal of Encroachments on Public Streets and Administration of Shops and Establishment Act, 1948 and Theatre Tax—				
A.—Licensing Establishment	12,62,917	01		
B.—Removal of encroachments on Public Streets	9,90,80	17		
C.—Administration of Shops and Establishment Act, 1948	6,10,064	16		
D.—Administration of Theatre Tax				
F.—Provident Fund, charges	81,051	75		
G.—Debt Charges				
			29,44,913	09
XIII.—Gardens and Open Spaces—				
A.—Gardens	24,28,416	11		
B.—New Gardens, Recreation Grounds etc.	92,165	67		
C.—Road side Trees	2,03,748	78		
D.—Open Air Theatre at Victoria Garden	3,438	52		
E.—M. G. M. O. Swimming Pool	1,39,176	31		
F.—Raja Baldeo. Birla Krida Kendra	6,122	12		
G.—Provident Fund, charges,	2,915	60		
H.—Debt Charges	6,77,246	45		
			36,53,949	56
XIV.—Markets and Slaughter Houses—				
A.—Markets and Slaughter Houses & Refrigerator at A. C. Market	57,63,351	13		
B.—Provident Fund and etc. charges	38,174	00		
C.—Pension Gratuities and compassionate allowances	2,05,40	00		
D.—Proportion of General Supervision	3,41,506	52		
F.—Debt Charges	28,80,703	93		
			92,29,205	58
XV.—Contribution to—				
(a) Budget 'B' under Section 125(2)(d) of the Bombay Municipal Corporation Act	1,28,37,732	00		
(c) Budget 'E' under Section 126(c) of the Bombay Municipal Corporation Act	2,14,62,80	03		
(e) Special Contribution to Budget 'E' under Section 126(C-1) of the B.M.C. Act	3,00,000	00		
(e) Fin's Fund and Welfare Fund	11,76,527	08		
			7,14,77,089	16
XVI.—Miscellaneous—				
(c) Pension Fund	63,56,53	79		
(d) Gratuities Fund	13,50,08	86		
Deduct—proportionate share chargeable to—	Cr. 3,15,90	00		
			73,90,172	65
XVII.—Measures for civil Defence	7,29,649	24		
XVIII.—Contribution to Bombay Building Repairs & Reconstruction Board	2,50,00,000	00		
XIX.—Contribution to B. E. S. & T. Undertaking				
			2,50,00,000	00
Total Expenditure—A—Revenue Account Rs.			42,77,59,441	48

	Details.		Total.	
	Rs.	P.	Rs.	P.
EXPENDITURE B—CAPITAL ACCOUNT				
I.—General Supervision, Collection of Revenue, etc.	1,18,471	35		
II.—Water Works, ordinary	44,17,557	40		
III.—Augmenting City's Water Supply	4,33,21,96	01		
IV.—Free Reading Room and Litreres	8,724	89		
V.—Public Health Department	29,377	76		
VI.—Medical Relief and Education	28,95,622	22		
VII.—Street Clearing Conservancy, Road Watering and Halakhora Service	19,33,249	27		
VIII.—Roads, S. W. Drains and Public Lighting	81,04,954	59		
IX.—Mechanical				
X.—Buildings, Land Acquisition and Management	23,83,111	00		
XI.—Fire Brigade	3,10,967	03		
XII.—Gardens and open spaces	60,477	10		
XIV.—Markets and Slaughter Houses	90,28,227	41		
XV.—Slum Service	48,807	83		
XVII.—Greater Bombay				
XVIII.—Industrial Estate				
Discount and other charges on the new Loans	Cr. 48,85,187	99		
Plant and Machinery to be purchased out of Net Premia Fund	7,53,96	24		
Plant and Machinery to be purchased out of Municipal Fire and Accident Ins. Fund	Cr. 1,26,800	48		
Plant and Machinery to be purchased out of K. E. M. Hospital Equipment Fund	Cr. 15,451	31		
Plant and Machinery to be purchased out of K. E. M. Hospital Research Fund	7,001	59		
Plant and Machinery to be purchased out of Land (Reclamation and Acquisition) Fund	23,36,921	74		
Plant and Machinery to be purchased out of Pre-cast Concrete Slabs Pavement Renewal Fund				
Plant and Machinery to be purchased out of Plant and Machinery Depreciation Fund	Cr. 5,18,132	97		
Plant and Machinery to be purchased out of Hospital Fund	1,24,97	99		
Plant and Machinery to be purchased out of Slum Service Fund				
Assets written off	80,63,591	19		
Repayment of Advance for Purchase of Capital Stocks Account Stock during 1971-72	95,24	22		
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. 67,817	37		
			7,83,28,726	50
Trust Fund—Expenditure		965	00	965
Total B—Capital Expenditure Rs.			7,83,29,691	50

EXPENDITURE—C—SUSPENSE ACCOUNTS—	Details.		Total.	
	Rs.	P.	Rs.	P.
I.—Sinking and Special Fund Accounts—				
(1) Sinking Fund Account—Municipal	3,58,62,375	15		
(2) Special Fund Accounts	4,07,94,245	31		
(3) Improvement Scheme Accounts—				
(a) Sinking Fund Accounts	10,965	11		
(b) Sinking Fund A/C Slum Clearance City	6,188	74		
(c) Sinking Fund Account Slum Clearance (Suburbs)	1,772	98		
Other Fund Accounts (Impt.)—				
(d) Investment Reserve Fund Account	...	...
(e) Rent Equalisation Fund Account	...	...
(f) Amenities Fund Account	62,604	34		
			7,67,38,051	63
II.—Paper and Cash Accounts—				
(1) Sinking Fund	5,93,17,166	61		
(2) Special Funds	7,01,76,513	66		
(3) Surplus Fund	8,58,60,714	21		
(4) Loan Fund	142	15		
(5) Improvement Schemes Funds—				
(a) Sinking Fund	52,86,071	35		
(b) Capital Fund	413	17		
(c) Investment Reserve Fund	77	43		
(d) Amenities Fund	5	61		
(e) Rent Equalisation Fund	76	23		
(6) Improvement Schemes A/C (Slum Clearance) City				
(a) Sinking Fund	7,32,032	08		
(b) Capital Fund	337	67		
(6) Improvement Schemes A/C (Slum Clearance) Subs.				
(a) Sinking Fund	5,31,348	43		
(b) Capital Fund	399	35		
State Bank of India and other Local Banks on account of Sundry Deposits	67,07,669	9	89,26,72,267	18
III Suspense Accounts—				
Deposit Account	31,47,65,946	86		
Reserve Stores Accounts	1,68,41,214	72		
Capital Stores Accounts	1,85,42,572	75		
Capital Store Account Stoke—Fors Road Depot	81,851	42		
Purchase of Petrol, and Diesel Oil	10,40,551	60		
Purchase of Coal	...	...
Advances Departmental Works	30,36,048	99		
Advances Municipal Workshop	11,81,406	12		
Municipal Machinery	2,25,531	47		
Worli Crushers	6,28,411	75		
Sewer Crushers	...	...
Mechanical Transport	68,59,510	15		
Asphalt Plant	1,92,563	54		
Pre Cast Concrete Slabs	...	...
Rotary Printing Units	3,84,211	16		
Servicing of Vehicles and Recharging of Batteries	...	...
Municipal Printing Press	38,15,336	50		
Advances Private Works	15,13,910	30		
Advances Special Funds	65,86,156	99		
Municipal C tractors	2,43,188	62		
Municipal Tenderers	...	...
Sundry Advances	3,01,14,169	94		
Advance to public including co-operatives for Housing purposes	23,08,762	32		
Advance for demolition of unauthorised structures and for Removal of unsafe Buildings in the City	31,42,173	88		
Repayment of Loans Municipal	4,12,97,89	03		
Do. (Impt. Schemes)	12,95,88	12		
Repayment of Loans Impt. Schemes Slum Clearance City	1,32,112	97		
Do. Suburbs	26,22	93		
Advances to Municipal Officers	4,44,216	00		
Provident Fund	3,62,83,643	70		
Welfare Fund	...	...
Fines Fund	7,933	07		
Fidelity Guarantee Insurance Fund	7,586	85		
Bombay Municipal Corporation Loans Interest Warrants payable Account	1,26,44,186	79		
City of Bombay Improvement Trust Loans Interest Warrants Payable Account	3,63,779	16		
Dishonoured Cheques	95,71,419	77		
Cash Bill outstanding Account	2,81,071	86		
Cheque payable	1,62,85,153	69		
Wages Deposit Account	1,17,38,587	83		
Advances to B.E.S.T.	...	...
Interest on B.I.T. Loans payable account	4,698	96		
Contribution receivable from Budget E, in arrears accrued but not paid	47,46,170	12		
Advance for manufacture of concrete Covers and Dadarkar Patterns	18,291	67		
Debt Charge Equalisation Fund	...	...
Interest Receivable Account	5,45,000	00		
Municipal Power Laundry	11,21,452	56		
Reinstatement of Trenches	2,18,461	58		
Pension fund	1,46,90,889	72		
Gratuities fund	20,37,520	19		
Amount transferred to D.A. (Sub)	6,67,76,002	13		
Security Deposit in the C. R. Rly. L.D.G.S. New Delhi	...	...
Improving common House Gullies in the City	3,18,746	97		
Adv. for deposit with Out Side bodies	641	00		
Advance from surplus Monies for Financing Expenditure on Capital works pending. Raising of a new Loan	5,22,267	75	1,65,03,51,086	65
Total Expenditure—Suspense Accounts			2,61,97,61,405	46

No. 15—Concluded (City)

	Details.		Total.	
	Rs.	P.	Rs.	P.
EXPENDITURE—D.—IMPROVEMENT SCHEMES ACCOUNT				
General Account Expenditure—				
A.—Maintenance of Properties and Streets	1,99,41,289	61		
B.—Cost of Management and Establishment	41,46,607	28		
C.—Proportionate charges on account of Municipal Supervision	18,72,200	51		
Deduct—				
Proportionate share of cost of Management and Establishment chargeable to				
(a) General Account	Cr. 58,18,191	69		
(b) Capital Account	Cr. 2,07,616	10		
Do. do. do.			1,99,41,289	61
D.—Debt Charges	98,47,987	24	98,47,987	24
Total				
			2,97,89,276	85
Capital Account—				
Improvement and Street Schemes, etc.	26,85,350	87		
Proportionate share of cost of Management and Establishment chargeable to General account	2,07,616	10		
Lump sum provision for granting loans to grant Building etc. under Section 354w of the B.M.C. Act.				
Total				
	28,93,006	97	23,93,006	97
Total—General and Capital Account Expenditure			3,26,82,283	82
EXPENDITURE—E.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE CITY—				
General Account Expenditure—				
A.—Maintenance of Properties and Streets	8,18,336	19		
D.—Debt Charges	16,90,106	05	25,08,442	24
Capital Account—				
Expenditure	34,94,287	02		
Proportionate share of cost of Management and Establishment chargeable to Capital Account	8,67,907	13	43,62,194	85
Deficit in General Account				
Total E.—Improvement Schemes Account—Slum Clearance (City)			68,70,637	09
EXPENDITURE—F.—IMPROVEMENT SCHEMES ACCOUNT—SLUM CLEARANCE—(SUBURBS)—				
General Account Expenditure—				
A.—Maintenance of Properties and Streets	10,23,638	39		
D.—Debt Charges	16,18,717	78	26,42,356	17
Total				
			26,47,356	17
Capital Account—				
Expenditure	2,18,259	52		
Deficit in General Account	14,89,371	39	17,07,630	91
Total				
			43,54,997	08
Total, F.—Improvement Schemes Account—Slum Clearance—(Suburbs)				
Bank's reconciliation—				
*Balance as per Bank's Pass Book			6,21,799	79
Add—				
Revenue sent to the Bank on 31st March 1972 but acknowledged on 1st April 1972			18,21,475	15
			24,43,274	94
Less—				
Uncashed Cheques			74,30,239	34
Balance in Bank as per Day Book (Column No. 10)			47,85,964	40
Balance in Office in Government Promissory Notes, etc.	6,85,500	00		
Balance in Office in Cash	3,916	34	2,46,59,713	14
	6,89,416	34	1,96,72,748	74
Collection kept in office			2,39,70,216	81

SUMMARY

Receipts.			Disbursements.	
Rs.	P.		Rs.	P.
1,40,82,358	64	Balance on 1st April 1971		
44,80,40,850	27	A.—Revenue Account	42,77,59,441	48
4,57,62,074	70	B.—Capital Account	7,83,29,691	50
2,63,77,14,152	60	C.—Suspense Account	2,61,97,61,405	46
3,46,15,733	26	D.—Improvement Schemes Account	3,26,82,283	82
55,30,709	99	E.— Do. Slum Clearance (City)	68,70,637	09
36,85,325	71	F.— Do. do. (Suburbs)	43,54,997	08
3,17,53,48,846	53			
		Total Rs.	3,16,97,53,456	43
		* Balance on 31st March 1972	1,96,72,718	74
3,18,94,31,205	17	Total—	Total Rs.	3,18,94,31,205
				17

APPENDIX No. 15
(Suburbs)

Statement showing the Amounts of the Receipts and Expenditure respectively credited and debited to the Municipal Fund during the year 1971-72 and the Balance at the credit of the Fund at the close of the year 1971-72 i.e., 31st March 1972).

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—A.—REVENUE ACCOUNT.				
1.—General Tax, Indirect Taxation and Miscellaneous Revenue—				
A.—General Tax	4,96,33,688	68		
C.—Other receipts—				
(b)—Grants-in-aid in respect of fines for offences against the law	1,91,093	00		
(c)—Interest and profit on Investment of Surplus Loans and other balances	18,21,028	45		
(e)—Miscellaneous	4,80,998	18		
D.—Receipts on account of Proportionate cost of Collection of Education cess	71,590	18		
E.—Rebate from Govt. on account of collection of Education cess	90,658	00		
			5,22,89,056	49
2. Water Works—Water Tax and other Miscellaneous Water Works Revenue				
A.—Water Tax	2,85,00,353	26		
B.—Other Receipts	9,83,134	55	2,94,83,487	81
4. Free Re-aring Rooms, Libraries and Municipal High Schools			2,380	66
5. Public Health Department			3,28,376	14
6. Medical Relief and Education			37,554	28
7. Street Cleansing and Conservancy, etc.				
A.—Halalkhore Tax	68,57,904	15		
B.—Other receipts	2,80,336	20		
C.—Tax on Dogs	18,825	20		
D.—Veterinary Department Fees	5,886	30	71,62,951	85
8. Roads, Storm water Drains and Public Lighting				
A.—Wheel Tax	19,33,730	01		
B.—Contribution from Government in lieu of Tolls	4,109	00		
C.—Other receipts	2,56,251	30		
D.—Ferry Receipts	1,150	00	21,95,240	31
9. Mechanical			1,85,594	65
10. Buildings, Land Acquisition and Management—				
A.—Sale Proceeds of Surplus Land	47,462	56		
B.—Other Receipts				
(a)—Rent of Bldgs.	51,797	16		
(b)—Ground Rent	6,299	74		
(e)—Miscellaneous Receipts	8,39,029	63	9,44,589	09
11. Fire Brigade—				
A.—Fire Tax	15,74,145	60		
B.—Other Receipts	14,044	79	15,88,190	39
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	10,75,342	77		
B.—Removal of Encroachments on Public Streets, Licences for squatters and Hawkers and fees for removal of encroachments	5,57,199	78		
C.—Grants-in-aid from Government for the Administration of Shops and Establishment Act, 1948	1,20,130	85		
D.—Miscellaneous	3,27,943	32		
E.—Receipts from Theatre Tax	3,41,860	45		
			24,22,477	17
13. Gardens and Open Spaces			2,37,306	51
14. Markets and Slaughter Houses			15,72,477	03
15. Contribution from Capital Funds to Revenue on account of... Loan Works Staff			4,32,860	82
16. Rebate from Government on account of Collection of the Urban Immoveable Property Tax in the Suburbs			1,317	31
17. Grant-in-aid from Government				
19. Receipts from Government on account of U.I.P. Tax			21,648	76
20. Grant in aid from centre Govt. on account of Additional Expenditure due to increase in emoluments of the employees of the Corporation				
Total—Revenue Receipts			9,89,05,509	27

APPENDIX No. 15—(Contd.)
(Suburbs)

	Details.		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—B.—CAPITAL ACCOUNT.				
Capital Receipts—	...	...	...	...
Debt Principal	...	...	...	...
New Loan 1971-72	3,85,00,000	00		
Trust Funds	Cr.	694 31		
Contribution from Govt. equal to 1/3rd of the Exp. etc.	...	...
Contribution from Hospital Fund of Budget 'A'	...	...
Total—Capital Account Receipts			3,84,99,305	69
RECEIPTS—C.—SUSPENSE ACCOUNT				
I.—Sinking and Special Fund Accounts—				
Sinking and Special Fund Accounts	1,34,17,579	13		
Loan Redemption Fund	1,25, 0,000	00		
			2,59,17,579	13
II.—Paper and Cash Accounts—				
(1) Sinking Funds	1,46,48,193	89		
(2) Special Funds	...	607 82		
(3) Surplus Funds	1,56,07,808	08		
(4) Loan Funds	...	...
State Bank of India and Other Local Banks on account of Sundry Deposits	7,90,97,157	36		
			10,93,53,772	15
III.—Suspense Accounts—				
Deposit Account	3,46,55,145	68		
Advances for demolition of unauthorised structures and for removal of unsafe buildings in the suburbs	...	34 04		
Municipal contractor Personal a/c	...	...
Advances for purchase of Petrol	3,52,007	97		
Advances for Departmental Works	7,93,299	50		
Advances for Private Works	88,437	37		
Repayment of Municipal Loans (Subs.)	...	...
Advances Sundries, Miscellaneous Advances	1,25,86,141	50		
Advances Municipal Contractors	...	...
Dishonoured Cheques	21,09,451	95		
Advances—Municipal Officers—				
(a) Standing Advances for Contingent Expenses	...	1,450 44		
(b) Motor Cars and Motor Cycles to Officers	...	58,533 07		
(c) Cycle Advances to Subordinates	...	...
Suspense Account Mechanical Transport	66,82,705	97		
Provident Fund (Suburbs)	42,95,922	08		
Reinstatement of Trenches	6,56,960	79		
Greater Bombay Suburbs Municipal Corporation Loan	...	...
Interest Warrants Payable Account	76,34,819	99		
Interest accrued but not paid	9,86,883	33		
Cash Bills Outstanding Account	...	30,679 33		
Cheques Payable	15,87,39,214	60		
Plant and Machinery to be purchased out of S. C. B.	...	...
Amount Transferred from Municipal General Fund	4,35,05,908	16		
Wages Deposit Account	25,98,748	50		
Municipal Debt Interest	97,27,129	99		
			28,55,03,494	26
Total—Suspense Account Receipts—I, II, III.			42,07,74,845	54
EXPENDITURE—A.—REVENUE ACCOUNT.				
I.—General Supervision, Collection of Revenue, etc.—				
A.—General Superintendence—				
(b) Chief Auditor's Establishment	1,98,737	74		
(c) Municipal Commissioner's Personal and General Office	1,48,531	01		
(d) Audit and Accounts Establishment	8,37,075	13		
(e) Labour Officer's Establishment	28,096	57		
(h) Public Relations Officer's Department	45,913	14		
(k) Chief Complaints Officer's Establishment	51,387	83		
B.—Collection of Revenue—				
(a) Property and Wheel Tax Establishment	23,43,974	16		
C.—Upkeep and guarding of Municipal Offices				
E.—Legal Deptt.	5,71,858	90		
F.—Miscellaneous Charges	51,376	94		
H.—P. F. Charges	4,94,257	86		
	82,538	23		
Total—I—Gen. Sup. A. to H.	48,53,597	51		
Deduct—Proportion of General Superintendence	17,77,626	69		
Total—A to H	30,75,970	82		
I—Debt Charges	1,82,100	14	32,58,070	96
Carried forward			32,58,070	96

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APPENDIX No. 15—(Contd.)
(Suburbs)

	Details.		Total.	
	Ra.	P.	Ra.	P.
Brought over ...			32,58,070	96
EXPENDITURE—A.—REVENUE ACCOUNT—(Contd.)				
II.—Water Works—				
A.—Maintenance	59,60,179	70		
C.—P. F. Charges	43,271	45		
D.—Pension, Gratuities and Compassionate allowances				
(a) Pension Funds	2,38,000	00		
(b) Gratuities Funds	15,000	00		
E.—Proportion of General Suptd. & Collection of Revenue...	10,39,263	05		
F.—Debt Charges	44,13,277	91		
			1,17,08,992	11
IV.—Free Reading Rooms, Libraries and Municipal High Schools				
A.—Mun. Free Reading Rooms etc.	3,83,235	74		
C.—Provident Fund Charges	349	00		
D.—Debt Charges	6,160	89		
V.—Public Health Department—			3,89,746	63
A.—General Superintendence	42,54,216	83		
B.—Supply of Milk Snacks etc. to the children attending Municipal Primary Schools.	12,91,862	97		
C.—P. F. Charges	58,145	94		
D.—Malaria Eradication Programme	4,35,363	54		
E.—Debt Charges	73,772	56		
H.—Population Census	62,802	75		
I.—Filaria Control Programme	1,35,914	64		
			63,12,139	23
VI.—Medical Relief and Education—				
A.—Hospitals				
(d)(vi) T. B. Clinic at Khar	1,87,313	50		
(h) K. B. Bhabha Hospital, and Sir C. J. R. Dispensary, Bandra	22,35,172	52		
(i) K. B. Bhabha Hospital, Kurla	20,32,631	52		
(j) M. G. H. Rajawadi, Chatkoper	18,80,243	39		
(l) Madco Social Centre at Bandra	...			
(m) Reservation of beds for B. M. C. at Smt. B. C. J. Sa.acruz General Hospital	52,055	00		
(q) Jubu Hospital, Vile Parle	21,63,838	71		
(r) Reservation of beds for B. M. C. (Andheri)	45,253	00		
(s) M. C. Hospital Chembur	4,21,837	26		
B.—Maternity Homes & Children Welfare Service				
(a) Maternity Homes	21,77,938	28		
C.—Dispensaries—(a) Dispensaries, for out patients				
(l) Allopathic	13,07,239	99		
(c) Municipal Mobile Dispensary at Rajawadi Chatkoper	21,587	07		
(d) Mobile Dispensaries	3,34,804	00		
D.—Family Welfare	279	03		
I.—Gratuitous aid to Public Institutions	4,12,067	50		
J.—P. F. Charges	43,353	00		
K.—Debt Charges	13,76,685	41		
VII.—Street Cleansing and Conservancy, etc.			1,46,93,644	18
A.—Street Cleansing and Conservancy	13,12,529	71		
B.—Collection, Loading, Removal and Disposal of T. R.	77,84,543	86		
C.—Halalkhore Service	77,37,705	39		
D.—Provident Fund Charges	1,01,800	44		
E.—Pension, Gratuities and compassionate Allowances for Halalkhore service	4,03,000	00		
F.—Debt Charges	45,77,742	08		
VIII.—Roads, S.W. Drains and Public lighting			2,19,18,311	48
A.—General	15,72,313	39		
B.—Maintenance of Roads	1,28,66,447	75		
C.—Public Lighting	33,69,903	57		
D.—Maintenance of S. W. Drains	26,06,755	98		
E.—Unkeep of Ferry Boats				
H.—P. F. Charges	1,43,701	18		
I.—Debt Charges	88,80,875	41		
J.—Proportionate cost etc.	1,19,306	96		
IX.—Mechanical			2,95,59,344	24
A.—M.E.'s Office Establishment	1,82,539	10		
B.—Maintenance of electric Installation—	1,35,369	03		
C.—P. F.	4,200	00		
D.—Debt Charges	3,055	09		
X.—Buildings Land Acquisition and Management—			3,25,783	22
A.—City Engineer's Central Office Establishment	11,49,856	66		
B.—Inspection and Supervision of Private Buildings etc.	5,21,128	34		
D.—Land Acquisition and Management	59,298	02		
E.—Inspection and supervision of factories, workshops and workplaces.	84,007	26		
G.—P. F. Charges	53,900	00		
H.—Debt Charges	11,87,535	39		
			30,55,726	67
Carried forward ...			9,12,21,758	72

APPENDIX No. 15—(Contd.)
(Suburbs)

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...			9,12,21,758	72
XI.—Fire Brigade—				
A.—Maintenance ...	6,32,706	32		
B.—Provident Fund ...	Cr. 55	00		
C.—Pension, Gratuities etc. ...	56,600	00		
D.—Proportion of General Superintendent ...	71,686	62		
E.—Debt Charges ...	1,38,795	52		
			8,99,733	46
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 ...	4,99,668	41		
B.—Removal of Encroachments on Public Streets ...	2,65,465	14		
C.—Administration of Shops and Establishment Act, 1948 ...	1,67,568	43		
D.—Provident Fund ...	24,800	00		
			9,57,441	98
XIII.—Gardens and Open Spaces—				
A.—Gardens ...	9,30,767	21		
B.—New Gardens, Recreation Grounds etc. ...	11,151	85		
C.—Roadside Trees ...	96,365	26		
D.—Open Air Theaters ...	34,977	91		
G.—P. F. Charges ...	3,047	00		
H.—Debt charges ...	1,75,014	61		
J.—Ghatkopar Swimming Pool ...	27,322	03		
			12,79,245	87
XIV.—Markets and Slaughter Houses—				
A.—Markets & Slaughter Houses ...	9,95,250	64		
B.—P. F. Charges ...	10,249	00		
C.—Pension, Gratuities etc. ...	51,300	00		
D.—Proportion of Gen. Supdt. ...	59,899	58		
E.—Debt Charges ...	2,40,224	27		
			13,56,993	49
XV.—Contribution to—				
(a) Budget 'B' under Section 125 (2) (d) of the Bombay Municipal Corporation Act ...	53,53,300	00		
(b) Budget 'E' under Section 126-C(c) of the Bombay Municipal Corporation Act ...	89,22,160	00		
			1,42,75,460	00
XVI.—Miscellaneous ...			20,56,060	00
Total—Expenditure—A.—Revenue Account ...			11,20,46,693	52
EXPENDITURE—B.—CAPITAL ACCOUNT.				
I.—General Supervision Collection of Revenue, etc. ...	4,84,089	10		
II.—Water Works ...	20,22,216	42		
IV.—Free Reading Rooms & Libraries & Municipal High Schools ...	...		
V.—Public Health Department ...	20,776	20		
VI.—Medical Relief and Education ...	6,82,106	65		
VII.—Street Cleansing and Conservancy ...	31,45,740	42		
VIII.—Roads, S W Drains and Public lighting ...	97,90,262	00		
IX.—Mechanical ...	...		
X.—Buildings, Land Acquisition and Management ...	2,29,498	62		
XI.—Fire Brigade ...	...		
XIII.—Gardens, Recreation Centres and Open Spaces ...	17,458	60		
XIV.—Markets and Slaughter Houses ...	5,22,495	83		
XV.—Slum Service and Village Amenities ...	...		
Suspense A/c. Mechanical Transport ...	4,25,513	87		
Advances for purchase of Plant and Machinery ...	Cr. 2,67,480	07		
Industrial Charges ...	...		
Assets written off ...	...		
Trust Fund Expenditure ...	...		
Total—Capital Account Expenditure ...			1,70,73,377	64
EXPENDITURE—C.—SUSPENSE ACCOUNT.				
I.—Sinking and Special Fund Accounts—				
Sinking and Special Fund Accounts ...	1,26,33,401	39		
Loan Redemption Fund ...	...		1,26,33,401	39
II.—Paper and Cash Accounts—				
(1) Sinking Funds ...	1,54,32,202	83		
(2) Special Funds ...	2,781	62		
(3) Surplus Funds ...	1,46,16,917	03		
(4) Loan Funds ...	28	05		
State Bank of India and Other Local Banks on account of Sundry Deposits ...	9,09,02,162	45		
			12,09,52,691	98
Carried forward ...			13,35,85,493	37

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

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...			13,35,85,493	37
EXPENDITURE—C.—SUSPENSE ACCOUNT—(Contd.)				
III.—Suspense Accounts—				
Deposit Account	2,76,30,533	90		
Advances for demolition of unauthorised Structures and for removal of unsafe buildings in the Suburbs	42,406	02		
Advances for Purchase of Petrol	3,50,017	03		
Advances Departmental Works	14,67,711	92		
Advances Private Works	3,93,237	02		
Advances for Improvement of private streets	8,456	95		
Advances—Municipal Contractors	...	...
Advances Sundries, Miscellaneous Advances	1,17,53,064	04		
Dishonoured Cheques	21,09,451	95		
Advances to Municipal Officers—				
(a) Standing Advances for Contingent Expenses	40,575	00		
(b) Motor Cars and Motor Cycles to Officers	93,014	07		
(c) Cycle Advances to Subordinates	...	...
Suspenses Account - Mechanical Transport	51,0,730	07		
Provident Fund—Suburbs	42,95,922	08		
Repayment of Municipal Loan (Subs.)	1,25,00,000	00		
Restatement of Trenches	3,27,079	85		
Greater Bombay Municipal Corporation Loan Interest warrant payable Account	74,73,173	49		
Cheques Payable	15,83,96,608	15		
Cash Bills Outstanding Account	57,429	57		
Wages Deposit Account	25,98,748	50		
Municipal Debt Interest	97,27,129	99		
Interest accrued but not paid	4,166	66		
Amount transferred from Municipal General Fund	5,06,62,471	86		
Total, III.—Suspense Account Expenditure			29,50,26,948	12
Total—I, II & III.			42,86,12,441	49

SUMMARY.

Receipts						Disbursements.	
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
66,65,786	81			Balance on 1st April 1971	...	...	...
9,89,05,509	27			A.—Revenue Account	11,20,45,593	52	...
3,84,99,305	69			B.—Capital Account	1,70,73,377	64	...
42,07,74,845	54			C.—Suspense Account	42,86,12,441	49	55,77,32,512 65
		56,48,45,447	31	Balance on 31st March 1972	...	...	71,12,934 66
		56,48,45,447	31				56,48,45,447 31
Bank's Reconciliation—				Rs.	P.	Rs.	P.
Balance as per Bank's Pass Books				31,07,776	40	...	...
Add—							
Revenue sent to the Bank on 31st March 1972 but acknowledged on 1st April 1972				5,98,472	15	...	...
				37,06,248	55	...	...
Less—							
Uncashed Cheques				66,00,223	05	Dr. 28,93,974	50
Balance in Bank as per Day Book (Column No. 10)				3,10,770	00		
Balance in Office in Government Promissory Notes, etc.				1,376	03		
Balance in Office in Cash				96,94,763	13	1,00,06,909	16
Collection held in Office Treasury							
						71,12,934	66

APPENDIX No. 25—(Contd.)
(Ext. Suburbs.)

	Details:		Total.	
	Rs.	P.	Rs.	P.
RECEIPTS—B.—CAPITAL ACCOUNT.				
Capital Receipts—				
New Loan 1971-72	1,65,00,000.00			
Trust Funds				
Contribution from Govt. equal to 1/3rd of the Exp. etc.				
Total—Capital Account Receipts			1,65,00,000.00	
RECEIPTS—C.—SUSPENSE ACCOUNT.				
I.—Sinking and Special Fund Accounts—				
Sinking Fund Accounts	56,08,467.70			
Special Fund account Provident Fund account—				
Hospital Fund Account :—				
Loan Redumption Fund	25,00,000.00		81,08,467.70	
II.—Paper and Cash Accounts—				
(1) Sinking Funds	23,22,328.03			
(2) Special Funds				
(3) Surplus Funds	53,93,981.03			
(4) Loan Funds		80.86		
(5) State Bank of India and Other Local Banks on account of Sundry Deposits	1,65,52,613.03		2,42,69,002.95	
III.—Suspense Accounts—				
Deposit Account	2,29,64,176.29			
Advances for demolition of unauthorised structures and for removal of unsafe buildings in the Ext. Suburbs	3,066.89			
Municipal Debt Interest	46,98,556.65			
Advances for purchase of Petrol				
Advances for Departmental Works	3,85,343.12			
Advances for Private Works	25,184.81			
Advances Sundries Miscellaneous Advances	71,17,147.10			
Advances Municipal Contractors	1,755.36			
Dishonoured Cheques	12,27,204.26			
Advances—Municipal Officers—				
(a) Standing Advances for Contingent Expenses	2,200.00			
(b) Motor Cars and Motor Cycles to Officers	13,361.00			
(c) Cycle advances to Subordinates				
Provident Fund Extended Suburbs	12,51,295.46			
Interest Receivable A/c				
Amount transferred Municipal General Fund	3,81,24,587.25			
Greater Bombay Ext. Suburbs Municipal Corporation Loan Interest Warrants Payable Account	33,00,256.65			
Interest accrued but not paid	7,15,641.67			
Cash Bills Outstanding Account	13,880.78			
Cheques Payable	6,89,18,525.24			
Wages Deposit A/c	9,10,863.66			
Advances out of Surplus Cash Balance for financing the expenditure on Capital Works Loan Funds				
Reinstatement of Trenches	5,19,846.99			
Suspense Account Mechanical Transport	252.82			
Personal Account			15,01,93,146.00	
Total—Suspense Account Receipts—I, II, III			18,25,70,616.65	
EXPENDITURE—A.—REVENUE ACCOUNT.				
I.—General Supervision, Collection of Revenue, etc.—				
A.—General Superintendence—				
(b) Chief Auditor's Establishment	1,18,264.55			
(c) Municipal Commissioner's Personal and General Office	45,743.35			
(d) Audit and Accounts Establishment	3,72,819.21			
(h) Public Relations Officer's Department	646.00			
(k) Chief Complaints Officer's Establishment	12,827.99			
B.—Collection of Revenue—				
(a) Property and Wheel Tax Establishment	10,26,693.70			
C.—Upkeep and Guarding of Municipal Offices				
D.—General Stores				
E.—Legal Department	Cr. 7.40			
F.—Miscellaneous Charges	17,912.55			
H.—Provident Fund Charges	9,258.94			
	34,479.00			
Total—I General Supervision (A to H)	21,16,685.35			
Deduct—Proportion of General Supdt.	7,88,322.05			
Total—A to H	13,28,363.30			
I.—D. b) Charges	2,34,625.08		15,62,988.38	
Carried forward			15,62,988.38	

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

	Details		Total.	
	Rs.	P.	Rs.	P.
Brought Over ...			15,62,988.38	
EXPENDITURE—A.—REVENUE ACCOUNT—(Contd.)				
II.—Water Works—				
A.—Maintenance	22,79,034.34			
C.—Provident Fund charges	19,386.55			
D.—Pension, Gratuities and compassionate Allowances	1,00,980.00			
E.—Proportion of General Superintendence and collection of Revenue	4,57,330.80			
F.—Debt Charges	17,64,645.79		46,21,377.48	
IV.—Free Reading Rooms, Libraries and Municipal High Schools				
A.—Municipal Free Reading Rooms and Libraries	1,00,050.00			
C.—Provident Fund, charges	...		1,00,050.00	
V.—Public Health Department—				
A.—General Superintendence	16,99,899.93			
B.—Supply of Milk, Snacks etc.	4,81,193.25			
C.—Provident Fund charges	13,845.00			
D.—Malaria Eradication Programme	1,52,412.04			
E.—Debt Charges	1,02,311.77			
H.—Population census	50,300.00			
I.—Filaria control programme	78,888.43		25,78,830.42	
VI.—Medical Relief and Education—				
A.—Hospitals	24,96,256.20			
B.—Maternity Homes and children welfare service	17,35,209.46			
C.—Dispensaries	6,28,528.18			
D.—Family Welfare Planning Centre	...			
G.—Clinic for treatment of leprosy cases	...			
I.—Grant-in-Aid to Public Institutions	1,87,726.25			
J.—Provident Fund charges	14,000.00			
K.—Debt Charges	6,89,411.50		57,51,131.59	
VII.—Street Cleansing and Conservancy, Road Watering and Halalkhore Service—				
A.—Street Cleansing and Conservancy	9,23,280.59			
B.—Collection, loading, removal and disposal of T. R.	30,17,509.03			
C.—Halalkhore Service	41,82,774.21			
D.—Provident Fund charges	37,833.42			
E.—Pension Gratuities etc.	2,80,970.00			
F.—Debt Charges	19,37,443.01		1,03,79,810.26	
VIII.—Roads, S. W. Drains and Public Lighting—				
A.—General	5,79,390.88			
B.—Maintenance of Roads	60,12,822.79			
C.—Public Lighting	14,68,768.07			
D.—Maint. of S. W. Drains	15,20,327.54			
H.—Provident Fund charges	17,086.70			
I.—Debt Charges	50,29,281.20			
J.—Proportionate Cost of Collection of Wheel Tax	52,534.68		1,46,80,211.86	
IX.—Mechanical—				
A.—ME's Office Estt.	...			
B.—Maintenance of Electrical Installations	7,213.12			
D.—Debt charges	857.91		8,071.03	
X.—Buildings, Land Acquisition and Management—				
A.—City Engineers Central Office Establishment	4,31,126.50			
B.—Inspection and Supervision of Private Buildings	35,301.79			
D.—Land Acquisition & Management	25,675.29			
E.—Insp. & Sup. of Factories Workshops & Work places	60,780.52			
G.—Provident Fund charges	13,500.00			
H.—Debt Charges	2,92,860.15		8,59,244.25	
XI.—Fire Brigade				
A.—Maintenance	11,027.24			
D.—Proportion of Gen. Suptd. & Collection of Revenue	31,543.12			
E.—Debt Charges	21,618.09		64,188.45	
XII.—Licensing, Removal of Encroachment on Public Streets and Administration of Shops and Establishment Act, 1948 and Theatre Tax				
A.—Licensing Establishment	2,20,937.86			
B.—Removal of Encroachments on Public Streets	1,29,158.45			
C.—Administration of Shops and Establishment Act, 1948	80,841.29			
D.—Provident Fund charges	11,066.00		4,42,003.60	
XIII.—Gardens and Open Spaces—				
A.—Gardens	2,77,859.29			
B.—New Gardens	9,073.49			
C.—Road side Trees	5,762.48			
G.—S. V. Patel Swimming Pool Kandivli	1,06,708.39			
H.—Provident Fund Charges	500.00			
I.—Debt Charges	75,174.87		4,75,078.52	
Carried forward ...	...		4,15,22,985.84	

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

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ..			4,15,22,985.84	
EXPENDITURE—A.—REVENUE ACCOUNT—(Contd.)				
XIV.—Markets and Slaughter Houses—				
A.—Markets and Slaughter Houses ..	5,09,191.18			
B.—Provident Fund charges ..	1,944.00			
C.—Pension Gratuities etc. ..	21,530.00			
D.—Proportion of Gen. Supdt. ..	26,323.14			
E.—Debt. charges ..	1,29,885.96			
			6,88,874.28	
XV.—Contribution to				
(a) Budget 'B' under Section 125(2)(d) of the Bombay Municipal Corporation Act ..	18,29,140.00			
(b) Budget 'E' under Sec. 126—C(c) of the B.M.C. Act ..	30,49,570.00			
			48,78,710.00	
XVI.—Miscellaneous—				
A.—Provident Fund, Pensions, Gratuities and Compassionate Allowance				
(c) Pension Fund ..	6,34,136.20			
(d) Gratuities Fund ..	23.80			
			6,34,160.00	
XVII.—Measures for Civil Defence ..	...		...
Total—Expenditure—A.—Revenue Account ..			4,77,24,730.12	
EXPENDITURE—B.—CAPITAL ACCOUNT.				
I.—General Supervision Collection of Revenue, etc. ..	4,28,388.39			
II.—Water Works ..	11,99,544.30			
V.—Public Health Department ..	1,38,024.91			
VI.—Medical Relief and Education ..	4,19,526.64			
VII.—Street Cleansing and Conservancy ..	71,81,487.88			
VIII.—Roads, S.W. Drains and Public Lighting ..	63,99,127.57			
X.—Buildings, Land Acquisition and Management ..	3,20,568.56			
XI.—Fire Brigade ..	48,696.97			
XIII.—Gardens and Open Spaces ..	24,795.54			
XIV.—Markets and Slaughter Houses ..	Cr 2,62,738.99			
XV.—Slum service and Village Amenities ..	96,813.37			
Suspense A/c ..	...		
Advances for purchase of Plant and Machinery ..	Cr 41,454.28			
Discount and other charges ..	...		
Assets written off ..	...		
Trust Fund Expenditure ..	...		
Total—B—Capital Account Expenditure ..			1,59,52,780.86	
EXPENDITURE—C.—SUSPENSE ACCOUNT.				
I.—Sinking and Special Fund Accounts—				
Sinking and Special Fund Accounts ..	25,36,814.85			
Loan Redemption Fund ..	...		25,36,814.85	
II.—Paper and Cash Accounts—				
(1) Sinking Funds ..	53,93,980.88			
(2) Special Funds ..	...		
(3) Surplus Funds ..	43,06,324.52			
(4) Loan Funds ..	...		
(5) State Bank of India and Other Local Banks on account of Sundry Deposits ..	2,08,47,658.02		3,05,47,963.42	
Carried forward.			3,30,84,778.27	

APPENDIX No. 15—(Contd.).

(Ext. Suburbs).

	Details.		Total.	
	Rs.	P.	Rs.	P.
Brought over ...	...	...	3,30,84,778.27	
EXPENDITURE—C.—SUSPENSE ACCOUNT—(Contd.)				
III.—Suspense Accounts—				
Deposit Account ...	2,94,58,661.68			
Advances for demolition ...	15,423.74			
Advances for Purchase of Petrol ...	...		
Advances Departmental Works ...	4,14,861.66			
Advances Private Works ...	30,262.12			
Advances for Improvement of Private Streets ...	...		
Advances—Municipal Contractors ...	2,061.00			
Advances—Sundries—Miscellaneous Advances ...	60,83,237.90			
Advances—Cost of Revision of Grades of Suburban Staff ...	...		
Dishonoured Cheques ...	12,27,204.26			
Advances—Municipal Officers—				
(a) Stancing Advances for Contingent Expenses ...	29,400.00			
(b) Motor Cars and Motor Cycles to Officers ...	32,700.00			
(c) Cycle Advances to Subordinates ...	...		
Provident Fund—Extended Suburbs ...	12,51,295.46			
Plant and Machinery to be purchased out of Surplus Cash Balance ...	11,576.33			
Amount Transferred from Municipal General Fund ...	2,22,37,199.69			
Greater Bombay Municipal Corporation Loan Interest Warrants Payable Account ...	33,08,704.89			
Cheques Payable ...	6,85,31,899.39			
Cash Bills outstanding A/c. ...	22,224.59			
Wages Deposit A/c. ...	9,10,863.66			
Municipal Debt, Interest ...	46,98,556.65			
Interest accrued but not paid ...	833.33			
Interest Receivable A/cs ...	...		
Reinstatement of Trenches ...	4,30,806.44			
Suspense A/c Mechanical Transport ...	...		
Personal Account ...	...		
Total, III.—Suspense Account Expenditure ...			13,86,97,772.79	
Total I, II and III ...			17,17,82,551.06	

SUMMARY

Receipts.			Disbursement	
Rs.	P.		Rs.	P.
15,15,309.82		Balance on 1st April 1971—		
3,61,31,458.06		A.—Revenue Account ...	4,77,24,730.12	
1,65,00,000.00		B.—Capital Account ...	1,59,52,780.86	
18,25,70,616.65	23,67,16,384.53	C.—Suspense Account ...	17,17,82,551.06	23,54,60,062.04
		Balance on 31st March 1972 ...		12,56,322.49
	23,67,16,384.53			23,67,16,384.53

	Rs.	P.	Rs.
Banks' Reconciliation—			
Balance as per Bank's Pass Books ...	11,185.55		
Add—			
Revenue sent to the Bank on 31st March 1972 but acknowledged on 1st April 1972 ...	15,85,392.77		15,96,578.32
Less—			
Uncashed Cheques ...	33,37,739.87		33,37,739.87
Balance in Bank as per Day Book Column No. (10) ...			Dr. 17,41,161.55
Balance in Office in Government Promissory Notes, etc. ...	2,06,200.00		
Balance in Office in Cash ...	852.91		
Collection held in Office Treasury ...	27,90,431.13		29,97,484.04
			12,56,322.49

Appendix No. 22
IMPROVEMENT SCHEMES
General Account for the year ending 31st March 1972

Particulars.	Amount.	Particulars.	Amount.
	Rs.		Rs.
To Revenue Expenditure as per Appendix No. 24 ...	2,97,89,277	By Revenue Receipts as per Appendix No. 23 ...	3,42,99,628
Balance being Surplus for the year transferred to Capital Account Balance Sheet.	45,10,351		
Total ...	3,42,99,628	Total ...	3,42,99,628

APPENDIX No. 22A

Improvement Scheme Account—Slum Clearance Account—City
General Account for the year ending 31st March 1972.

Particulars.	Amount.	Particulars.	Amount.
	Rs.		Rs.
To Revenue Expenditure as per appendix 24A	25,08,442	By Revenue Receipts under	
		(i) Rent and other proceeds of properties ...	16,04,396
		(ii) Interest and Profits on Investments ...	36,138
		(iii) Miscellaneous Receipts ...	...
			16,40,534
		Balance being Deficit for the year transferred to Capital Account Balance Sheet	8,67,908
Total	25,08,442	Total ...	25,08,442

APPENDIX No. 22B

Improvement Schemes Account—Slum Clearance Account—Suburbs
General Account for the year ending 31st March 1972.

Particulars.	Amount.	Particulars.	Amount.
	Rs.		Rs.
To Revenue Expenditure as per appendix 24B	26,47,356	By Revenue receipts under	
		(i) Rent and other proceeds of properties	7,66,098
		(ii) Contribution from Budget—'D' ...	...
		(iii) Interest & Profits on Investments...	1,30,751
		(iv) Miscellaneous Receipts ...	2,61,136
			11,57,985
		Balance being Deficit for the year transferred to Capital Account Balance Sheet	14,89,371
Total ...	26,47,356	Total ...	26,47,356

APPENDIX No. 25

IMPROVEMENT SCHEMES

Balance Sheet—(Capital Account) as on 31st March 1972.

LIABILITIES		Rs.	P.	ASSETS				Rs.	P.
LOANS OUTSTANDING—				BLOCK ACCOUNT—					
(Vide details as shown in Appendix No. 29)		14,40,06,213	60	Property and Assets at original cost as per Appendix No. 26 ...				29,81,15,505	39
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
		14,87,64,703	60			Face Value	Actual cost.		
SURPLUS—						Rs.	P.		
Extraordinary Receipts—	Rs. P.			INVESTMENT RESERVE FUND**					
Investment Reserve Fund	1,15,57,203 46			IN FIXED DEPOSIT				1,15,57,100	00
Amenities Fund	12,42,666 27			In Cash				103 46	1,15,57,203 46
Rent Equalisation Fund	37,62,397 39			Amenities Fund**					
				In Fixed Deposit				12,42,000	00
Transfer of Sinking Fund Accumulations in respect of Rs. 370 lakhs loan †	25,07,830 00			In Cash				66 27	12,42,066 27
Special grants from the Government of India	54,00,000 00			Rent Equalisation Fund**					
Premia on loan raised in 1935-36	30,00,000 00			In Fixed Deposit				37,62,300	00
Grant-in-Aid from Government of Bombay or part expenditure of Acquisition of Land	5,00,000 00			In Cash				97 39	37,62,397 39
Sale proceeds of Lands and Buildings—				SINKING FUND—					
Sale proceeds up to 31st March 1971	8,32,46,488 22			As per Appendix No. 28					
Sale proceeds during 1971-72	3,16,105 16			In Securities and Cash *				7,56,32,314	65
	8,35,62,593 38			CAPITAL FUNDS—					
Sinking Fund on Loans	7,56,32,314 65			In fixed deposit				1,22,87,300	00
Loans Redemption Fund	8,40,04,275 46			In cash				49 52	1,22,87,349 52
	26,81,98,680 61								
Deduct—									
REVENUE DEFICIT—									
Deficit upto 31st March 1971	1,41,18,408 78								
Surplus during 1971-72	45,10,351 25								
	96,08,057 53								
	25,85,90,623 08								
Total		40,73,55,326	68					Total	40,73,55,326 68

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

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

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

Appendix No. 25A.

IMPROVEMENTS SCHEMES

Slum Clearance City

Balance Sheet Capital Account as on 31st March 1972.

LIABILITIES		Rs.	P.	ASSETS.		Rs.	P.
LOAN OUTSTANDING—				BLOCK ACCOUNT—			
(Vide details as shown in Appendix No. 29A)		2,98,59,361.25		Property and Assets at original cost as per Appendix No. 26A		3,21,44,570.85	
Advance from Surplus money	...	5,22,267.75		Sinking Fund as per Appendix No. 28A	...	56,15,285.71	
Subsidy from Government	...	93,20,639.00					
Sale proceeds up to 31st March 1972	...	33,028.68					
Sinking Fund on Loans	...	56,15,285.71					
Loan Redemption Fund	...	2,41,554.75					
		4,55,92,137.14					
Deduct—	Rs. P.						
Deficit upto 31st March 1971	69,64,372.75						
Add—Deficit during the year	8,67,907.83						
		78,32,280.58					
Total Rs.	...	3,77,59,856.56		Total Rs.	...	3,77,59,856.56	

Appendix No. 25 B.

IMPROVEMENTS SCHEMES

Slum Clearance Suburbs.

Balance sheet Capital Account as on 31st March 1972.

LIABILITIES.		Rs.	P.	ASSETS.		Rs.	P.
Loan outstanding	...	2,20,31,143.07		Block Account Property and Asset at original cost as per Appendix No. 26B		3,03,13,351.28	
Subsidy from Government	...	57,82,779.00		Sinking Fund as per app. 28B	...	27,17,676.29	
Sinking Fund on loan	...	27,17,676.29		CAPITAL FUND—			
Sale proceeds upto 31st March 1972	...	23,80,798.36					
Add—							
Loan Redemption Fund	...	1,61,83.93					
Surplus upto 31st March 1971	27,95,966.56			In fixed deposit	13,49,700.00		
Less—Deficit during the year...	14,89,371.39			In cash	98.25		13,49,798.25
		13,06,595.17					
Total Rs.	...	3,43,80,825.82		Total	Rs. ...	3,43,80,825.82	

Appendix No. 26
IMPROVEMENT SCHEMES

Block account showing details of Capital Expenditure upto 31st March 1972.

Particulars	Total Capital Expenditure upto 31st March 1971.	Expenditure during 1971-72.	Total Capital Expenditure upto 31st March 1972	Particulars.	Total Capital Expenditure upto 31st March 1971.	Expenditure during 1971 72.	Total Capital Expenditure upto 31st March 1972
	Rs.		Rs.		Rs.		Rs.
CAPITAL ACCOUNT.				Brought over	27,65,03,030	28,93,007	27,93,96,037
Improvement and Street Schemes.				Acquisition of Land in survey No. 129, Hissal, Squatters Nos 130-136 of Ekhar 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 Shentnagar Arthur Road, etc.	4,84,801	...	4,84,801
Scheme No.					27,75,14,086	28,93,007	28,05,07,093
1 First Nagpada ...	29,16,099	...	29,16,099	Police Accommodation Schemes.			
2 Princess Street ...	85,08,865	...	85,08,865	Scheme No.			
3 Sandhurst Road ...	1,16,02,375	...	1,16,02,375	14 First Nagpada ...	84,450	...	84,450
4 Gamdevi ...	22,88,002	...	22,88,002	16 Wodehouse Road ...	3,22,667	...	3,22,667
5 Dadar-Matunga ...	1,00,53,384	Cr. 21,342	1,00,53,384	17 Duncan Road ...	58,981	...	58,981
6 Sion-Matunga ...	1,88,63,624	...	1,88,42,282	18 Shepherd Road ...	36,223	...	36,223
7 Colaba Reclamation ...	4,78,538	...	4,78,538	19 Agripada ...	1,79,120	...	1,79,120
8 Mandvi-Koliwada ...	26,52,501	...	26,52,501	23 Connaught Road ...	79,495	...	79,495
11 Agripada ...	3,127	...	3,127	24 Princess Street ...	2,65,953	...	2,65,953
13 Southern Street Extension—				25 Gmadevi ...	1,29,407	...	1,29,407
East-wards ...	68,102	...	68,102	34 Lamington Road ...	4,61,024	...	4,61,024
27 Mathew Road ...	14,11,129	...	14,11,129	35 Sandhurst Road West ...	1,46,104	...	1,46,104
29 Nowroji Hill ...	86,57,482	...	86,57,482	39 Santhhurst Road East ...	7,58,893	...	7,58,893
30 Southern Street Extension—				40 Byculla ...	8,28,411	...	8,28,411
West-wards ...	1,30,512	...	1,30,512	44 Maharbaudi ...	2,71,434	...	2,71,434
31 Parel Suparibaug Estate ...	91,42,350	...	91,42,350	45 Palton Road ...	5,71,492	...	5,71,492
32 East Agripada ...	50,59,050	...	50,59,050	46 Naigaum ...	5,69,142	...	5,69,142
33 Bhatwadi ...	3,28,433	...	3,28,433	48 Mahim ...	4,53,032	...	4,53,032
36 Lamington Road ...	2,91,191	...	2,91,191	55 Chinchbunder Road ...	4,32,656	...	4,32,656
37 Sydenham Road ...	1,40,51,180	...	1,40,51,180	55A Mazagaon ...	4,53,560	...	4,53,560
41 Undria Street ...	5,72,800	...	5,72,800	63 King's Circle (Matunga) ...	4,82,185	...	4,82,185
43 Parel Road Central ...	38,97,348	...	38,97,348	67 Naigaum (for Armed Police and Recruits) ...	24,42,031	...	24,42,031
47 Parel Road North ...	52,96,220	...	52,96,220	70 Arthur Road ...	1,58,357	...	1,58,357
49 Nepean Sea Road—Reclamation					91,84,617	...	91,84,617
... 3,053	3,053	...	3,053	Mill Company's Chewl Schemes			
50 Mazagaon Street ...	40,68,206	...	40,68,206	Scheme No.			
52 Worli Street ...	2,73,19,248	...	2,73,19,248	42 Spring Mills ...	5,18,990	...	5,18,990
53 Foras Road ...	36,82,045	...	36,82,045	51 Century Mills ...	1,29,980	...	1,29,980
54 Kolbhatwadi ...	21,79,254	...	21,79,254	65 David Mills ...	2,96,852	...	2,96,852
55 Bellasis Road ...	18,530	...	18,530		9,45,822	...	9,45,822
56 Dharavi Street ...	1,18,20,650	4,76,674	1,22,97,354	Slum Clearance.			
57 Sewri-Wadala ...	3,65,69,077	6,89,197	3,72,58,275	Preliminary Expenses	22,481	...	22,481
58 Worli-Extension ...	1,38,35,624	Cr. 10,627	1,38,24,997	Transit Camps for providing alternative housing accommodation to facilitate Slum Clearance—			
59 Sewri-Koliwada ...	7,72,719	...	6,72,719	(i) Construction of 244 tenements, etc. ...	2,58,843	...	2,58,843
60 Naigaum Street ...	76,18,685	...	76,18,685	(ii) Construction of 210 tenements, etc. ...	1,81,987	...	1,81,987
61 Ferguson Road ...	15,68,030	...	15,68,030	Carried forward	4,63,311	...	4,63,311
62 Love Lane ...	16,18,731	...	16,18,731		28,82,07,836	28,93,017	29,11,00,843
66 Mahaluxmi ...	4,86,795	...	4,86,795				
69 Widening of Byculla Bridge ...	7,20,290	...	7,20,290				
71 Chaupati Street ...	24,085	...	24,085				
Chaupati Reclamation ...	1,889	...	1,889				
East Chaupati Estate ...	4,380	...	4,380				
Lump Provision for granting loans to erect buildings on Imp. Scheme lands as provided under Section 354W of the Municipal Act ...	26,772	Cr. 612	26,160				
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. ...	5,06,64,428	13,83,625	5,20,48,053				
Housing of squatters on land Near Mankhurd Railway Station ...	8,38,300	...	8,38,300				
Housing of squatters on land near Jogeshwari ...	5,57,141	1,73,795	7,30,816				
76 Lohar Chawl Gully ...	3,24,614	71,337	3,95,951				
77 Housing Accommodation—For Fishermen at Mahim Causeway ...	459	...	459				
Housing of Squatters—Acquisition ...	6,29,401	...	6,29,401				
Housing of Squatters at Vikhroli ...	151	...	151				
Construction of Dormitories ...	6,92,736	...	6,92,736				
Acquisition of land at Govandi ...	1,31,070	...	1,31,070				
Carried forward	27,65,03,030	28,93,007	27,93,96,037				

Appendix No. 26—(Concl'd.)

Particulars.	Total Capital Expenditure upto 31st March 1971	Expenditure during 1971-72.	Total Capital Expenditure upto 31st March 1972.	Particulars	Total Capital Expenditure upto 31st March 1971	Expenditure during 1971-72.	Total Capital Expenditure upto 31st March 1972.
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Brought over ..	28,82,07,836	28,93,007	29,11,00,843	Brought over ...	28,90,83,398	28,93,007	29,19,76,405
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 Ra. 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 Ra. 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 Ra. 40 lakhs loan of 1919 ...	26,83,469	...	26,83,469
Store yard at Agripada, etc. ...	83,801	...	83,801	Part payment of Ra. 25 Lakhs loan of 1926 ...	19,08,494	...	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 connection with the Improvements of alum areas ...	68,816	...	68,816				
Provision of a lift in the Improvement Trust Building at Napier Road near Queen's Statue ...	12,267	...	12,267				
	8,75,562	...	8,75,562				
Carried forward ...	28,90,83,358	28,93,007	29,19,76,405	Grand Total ...	29,52,22,499	* 28,93,007	29,81,15,506

* This figure includes Rs. 2,07,616 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 1972

Particulars.	Total Capital Expenditure from 1st April 1956 upto 31st March 1971.	Expenditure during 1971-72.	Total Capital Expenditure upto 31st March 1972.
	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) ...	24,81,040	1,13,787	25,94,827
Total A—Works to be carried out from Municipal Fund	56,61,155	1,13,787	57,74,942
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 ...	19,50,355	18,35,766	37,86,121
Permanent Housing for Slum Population ...	2,10,38,774	15,44,734	2,25,83,508
Total, B—Works to be carried out with the Government Aid ...	2,29,89,129	33,80,500	2,63,69,629
Grand Total *	2,86,50,284	34,94,287	3,21,44,571

* 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 1972.

Particulars.	Total Capital Expenditure upto 31st March 1971.	Expenditure during 1971-72.	Total Capital Expenditure upto 31st March 1972.
	Rs.	Rs.	Rs.
Slum Clearance—Suburbs.			
A.—Works to be carried out from Municipal Fund.			
Preliminary Expenses (Staff and Contingencies) ...	1,66,89,411	9,743	1,66,99,154
Total, A—Works to be carried out from Municipal Fund	1,66,89,411	9,743	1,66,99,154
B.—Works to be carried out with the Govt. Aid.			
(b) Chawl and S.P. Chawls. ...	1,34,05,668	2,08,527	1,36,14,195
Total, B—Works to be carried out with the Govt. Aid. ...	1,34,05,668	2,08,527	1,36,14,195
Grand Total ...	3,00,95,079	2,18,270	3,03,13,349

Appendix IMPROVEMENT

Statement showing outstanding Loans of the Bombay Improvement Trust due by the payable for the year 1971-72, 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 1971		Amount raised in 1971-72		Total	
			Rs.	P.	Rs.	P.	Rs.	P.	R.	P.
	<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	1,51,35,701	72			1,51,35,701	72
	Total loans raised from Government		4,17,94,178	06	1,51,35,701	72	...		1,51,35,701	72
	<i>Loans raised from the Public.</i>									
1	Rs. 25 lakhs Loan 1912	4 Do.	25,00,000	00	25,00,000	00			25,00,000	00
2	Rs. 18 lakhs Loan 1913	4 Do.	18,00,000	00	18,00,000	00			18,00,000	00
3	Rs. 50 lakhs Loan 1914	4 Do.	50,00,000	00	50,00,000	00			50,00,000	00
4	Rs. 25 lakhs Loan 1916	4 Do.	25,00,000	00	25,00,000	00			25,00,000	00
5	Rs. 70 lakhs Loan 1920	6 Do.	70,00,000	00	† 66,00,000	00			66,00,000	00
	Total from Public		1,88,00,000	00	1,84,00,000	00			1,84,00,000	00
	<i>Loans raised from Internal.</i>									
1	Rs. 45 lakhs Loan 1921	4½ Do.	45,00,000	00	45,00,000	00			45,00,000	00
2	Rs. 52 lakhs Loan October 1922	4½ Do.	52,00,000	00						
3	Rs. 8 lakhs Loan 22nd January 1923	4½ Do.	8,00,000	00						
4	Rs. 82 lakhs Loan 22nd January 1923	4½ Do.	82,00,000	00	1,72,00,000	00			1,72,00,000	00
5	Rs. 30 lakhs Loan March 1923	4½ Do.	30,00,000	00						
6	Rs. 40 lakhs Loan 2nd November 1923	4½ Do.	40,00,000	00						
7	Rs. 20 lakhs Loan 2nd January 1924	4½ Do.	20,00,000	00	89,00,000	00			89,00,000	00
8	Rs. 29 lakhs Loan 5th March 1924	4½ Do.	29,00,000	00						
9	Rs. 20 lakhs Loan 1st November 1924	4½ Do.	20,00,000	00						
10	Rs. 60 lakhs Loan 10th November 1924	4½ Do.	60,00,000	00	1,00,00,000	00			1,00,00,000	00
11	Rs. 20 lakhs Loan 2nd January 1925	4½ Do.	20,00,000	00						
12	Rs. 20 lakhs Loan 2nd October 1925	4½ Do.	20,00,000	00						
13	Rs. 15 lakhs Loan 2nd November 1925	4½ Do.	15,00,000	00	70,00,000	00			70,00,000	00
14	Rs. 35 lakhs Loan 2nd January 1926	4½ Do.	35,00,000	00						
15	Rs. 19.28 lakhs Loan out of Rs. 19.39 lakhs Loan (1956-57)	4 Do.	19,28,000	00	19,28,000	00			19,28,000	00
16	Rs. 27,38,500 Loan 1957-58	4½ Do.	27,38,500	00	27,38,500	00			27,38,500	00
17	Rs. 50 lakhs Loan 1959-60	4 Do.	50,00,000	00	50,00,000	00			50,00,000	00
18	Rs. 70 lakhs Loan 1960-61 out of Rs. 1 Crore Loan 1960-61	4½ Do.	70,00,000	00	70,00,000	00			70,00,000	00
19	Rs. 50 lakhs loan 1961-62	4½ Do.	50,00,000	00	50,00,000	00			50,00,000	00
20	Rs. 100 lakhs loan 1962-63	4½ Do.	1,00,00,000	00	1,00,00,000	00			1,00,00,000	00
21	Rs. 50 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 1971-72	6 Do.	...		...				...
	Total from Internal		11,17,66,500	00	11,17,66,500	00			11,17,66,500	00
	Total from Public & Internal		13,05,66,500	00	13,01,66,500	00			13,01,66,500	00
	Grand Total		17,23,60,678	06	14,53,02,291	72			14,53,02,291	72

* Loans at serial Nos. 1 to 5 are guaranteed by Government under Section 163 of the Govt. of India Act 1925. (Section 110 F of the B.M.C. Act.).

† Debentures for Rs. 41 lacs held by the Public were repaid on 1st April 1955 under the option reserved in the Debentures

Div.-I

No. 29.

SCHEMES.

Municipality, the interest outstanding on 1st April 1971, on the different Loans, the amount Balances outstanding on 31st March 1972.

Amount repaid in 1971-72.		Balance due on 31st March 1972.		Interest outstanding on 1st April 1971.		Interest payable in 1971-72.		Total interest due.		Deduct-interest paid during the year.		Outstanding balance on 31st March 1972.	
8		9		10		11		12		13		14	
Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
12,95,988	12	1,38,39,713	60			5,00,119	88	5,00,119	88	5,00,119	88		
12,95,988	12	1,38,39,713	60			5,00,119	88	5,00,119	88	5,00,119	83		
...		25,00,000	00	3,687	54	1,00,000	00	1,03,687	54	99,485	00	4,202	54
...		18,00,000	00	6,859	69	72,000	00	78,859	69	60,941	00	17,918	69
...		50,00,000	00	12,035	13	2,00,000	00	2,12,035	13	1,93,930	00	17,875	13
...		25,00,000	00	...		1,00,000	00	1,00,000	00	1,00,000	00	...	
...		66,00,000	00	...		3,96,000	00	3,96,000	00	3,96,000	00	...	
...		1,84,00,000	00	22,582	36	8,68,000	00	8,90,582	36	8,50,356	00	39,926	36
...		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	...	
...		19,20,000	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	...	
...		...				75,000	00	75,000	00	...		75,000	00
...		11,17,66,500	00			54,58,007	00	54,58,007	00	53,83,016	24	75,000	76
...		13,01,66,500	00	22,582	36	63,26,070	00	63,85,889	36	62,33,362	24	39,926	36
12,95,988	12	14,40,06,213	60	22,582	36	68,28,126	88	69,48,709	24	67,33,482	12	39,926	36
												75,000	76

* 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' & 'B' for the next year. (1971-72).

APPENDIX
SLUM CLEARANCE

(A—CITY AND

Statement showing outstanding Loans of the Slum clearance Scheme (A-City & amount payable for the year 1971-72, the amounts paid during

Serial No.	Particulars of Loans	Date of Issue	Rate of interest per Annum	Balance due on 1st April 1971	Amount raised in 1971-72
(1)	(2)	(3)	(4)	(5)	(6)
	A.—City			Rs. P.	Rs.
	LOANS RAISED FROM GOVT. PROGRAMME NO. 1				
1	Rs. 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.	4,62,000 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. 94,100 Loan (1961-62) ...	28-3-1962	4½%	94,500 00	...
	Total 2nd Programme ...			94,500 00	...
	LOANS RAISED FROM GOVT. PROGRAMME NO. 3				
14	Rs. 9,00,000 Loan (1960-61) ...	28-3-1961	4½%	8,00,912 42	...
15	Rs. 62,037 Loan (1962-63) ...	13-3-1963	5½%	55,215 13	...
16	Rs. 9,963 Loan (1963-64) ...	27-3-1964	Do.	8,979 92	...
	Total 3rd programme ...			8,65,867 47	...
	LOANS RAISED FROM GOVT. PROGRAMME No. 4				
17	Rs. 3,69,600 Loan (1964-64) ...	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%	1,51,720 26	...
20	Rs. 17,100 Loan (1967-68) @ ...	1-3-1968	Do.	16,857 81	...
21	Rs. 57,000 Loan (1968-69) @ ...	12-12-1968	Do.	56,192 69	...
	Total 6th programme ...			2,24,770 75	...
	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. 1,00,511 Loan (1968-69) @ ...	31-3-1969	Do.	1,00,518 00	...
26	Rs. 1,04,516 Loan (1969-70) @ ...	17-3-1970	5½%	1,04,516 00	...
26(a)	Rs. 3,91,298 Loan 1970-71 @ ...	31-3-1971	6.50%	3,91,298 00	...
	Total 9th programme ...			25,09,098 00	...
	LOANS RAISED FROM GOVT. PROGRAMME NO. 10				
27	Rs. 1,62,343 Loan (1966-67) @ ...	30-3-1967	5½%	1,62,343 00	...
28	Rs. 3,254 Loan (1967-68) @ ...	1-3-1968	Do.	3,254 00	...
29	Rs. 58,984 Loan (1968-69) @ ...	12-12-1969	Do.	58,984 00	...
	Total 10th programme ...			2,24,581 00	...
	LOANS RAISED FROM GOVERNMENT PROGRAMME No. 11				
30	Rs. 69,466 Loan (1968-69) @ ...	31-3-1969	5½%	69,426 00	...
31	Rs. 75,936 Loan (1969-70) @ ...	17-3-1970	5½%	75,936 00	...
32	Rs. 13,725 Loan 1970-71 @ ...	31-3-1971	6.50%	13,725 00	...
32(a)	Rs. 4,54,793 Loan 1971-72 @ ...	...	...	...	...
	Total 11th Programme ...			1,59,087 00	...
	Total Loan from Govt. ...			79,55,494 22	...
	LOANS FROM PUBLIC				
33	Rs. 10 Lakhs Loan 1956-57 ...	29-3-1957	4%	10,00,000 00	...
34	Rs. 20 Lakhs Loan 1957-58 ...	15-3-1958	4½%	20,00,000 00	...
35	Rs. 10 Lakhs Loan 1958-59 ...	30-3-1959	4%	10,00,000 00	...
36	Rs. 25 Lakhs Loan 1959-60 ...	15-2-1960	4%	25,00,000 00	...
37	Rs. 50 Lakhs Loan 1961-62 ...	1-2-1962	4½%	50,00,000 00	...
38	Rs. 30 Lakhs Loan 1964-65 ...	25-3-1965	4½%	30,00,000 00	...
39	Rs. 50 Lakhs Loan 1966-67 ...	1-3-1966	6%	50,00,000 00	...
40	Rs. 25 Lakhs Loan 1971-72 ...	30-3-1972	6%	...	25,00,000 00
	Total Loans from Public ...			1,95,00,000 00	25,00,000 00
	Grand Total ...			2,74,55,494 22	25,00,000 00

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

Div.—1

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151880

No. 29A

SCHEME (ACCOUNT)

B—SUBURBS)

B-Suburbs) Budget B, the interest outstanding on 1st April 1971, on the different loans, the the year and the balances outstanding on 31st March 1972.

Total		Amount repaid in 1971-72		Balance due on 31st March 1972		Interest out standing on 1st April 1971		Interest out payable in 1971-72		Total interest due		Deduct interest paid during the year		Outstanding balance on 31st March 1972	
		(8)		(9)		(10)		(11)		(12)		(13)		(14)	
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
9,50,597	00	31,878	09	9,19,118	91	...	...	42,795	00	42,795	00	18,173	16	24,621	84*
5,12,000	00	20,514	66	5,91,485	34	...	...	27,540	00	27,540	00	11,695	07	15,844	93*
2,73,003	00	9,151	25	2,63,851	75	...	...	12,286	00	12,286	00	13,160	24	—874	24†
1,85,100	00	6,201	32	1,78,798	68	...	...	8,325	00	8,325	00	3,535	27	4,789	73*
4,68,000	00	15,687	69	4,52,312	31	...	...	21,060	00	21,060	00	8,943	29	12,116	71*
2,64,529	00	7,827	62	2,56,701	38	...	...	13,888	00	13,888	00	6,468	28	7,419	72*
2,50,971	00	7,426	42	2,43,544	58	...	...	13,176	00	13,176	00	5,611	38	7,544	62*
47,250	00	1,398	16	45,851	84	...	...	2,481	00	2,481	00	1,461	19	1,019	81
2,20,355	0	6,520	47	2,13,834	53	...	...	11,569	00	11,569	00	5,388	13	6,180	87*
50,564	00	1,471	75	49,032	25	...	...	2,904	00	2,904	00	2,903	98	0	02*
73	00	2	12	70	88	...	...	5	00	5	00	2	24	2	76*
568	0	16	54	551	46	...	...	...	...	...	...	97	98	—97	93
33,23,250	00	1,08,096	09	32,15,153	91	...	...	1,56,029	00	1,56,029	00	77,460	21	79,541	01*
														—972	22†
94,500	00	...	...	94,500	00	...	...	4,253	00	4,253	00	4,252	50	0	50*
49,500	0	...	...	94,500	00	...	...	4,253	00	4,253	00	4,252	50	0	50*
8,00,912	4	19,210	94	7,81,701	48	...	...	36,041	06	36,041	06	36,041	06	...	...
55,951	13	1,215	78	54,699	35	...	...	2,935	54	2,935	54	2,935	54	...	...
8,979	92	195	23	8,784	69	...	...	471	45	471	45	471	45	...	...
8,65,807	47	20,621	95	8,45,185	52	...	...	39,448	05	39,448	08	39,448	05	...	...
3,69,600	0	...	...	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	...	...
1,51,720	26	2,305	08	1,49,415	18	...	...	8,723	91	8,723	91	8,723	91	...	...
16,27	80	256	12	16,61	68	...	...	969	33	969	33	969	33	...	...
56,192	69	853	73	55,338	96	...	...	3,231	08	3,231	08	3,231	08	...	...
2,24,770	75	3,414	93	2,21,355	82	...	...	12,924	32	12,924	32	12,924	32	...	...
6,10,818	00	...	...	6,10,818	00	...	...	...	...	...	...	...	...	...	...
5,73,833	00	...	...	5,73,838	00	...	...	...	...	...	...	...	...	...	...
7,28,110	00	...	...	7,28,110	00	...	...	...	...	...	...	...	...	...	...
1,00,518	00	...	...	1,00,518	00	...	...	...	...	...	...	...	...	...	...
1,04,516	00	...	...	1,04,516	00	...	...	...	...	...	...	...	...	...	...
3,91,258	00	...	...	3,91,298	00	...	...	...	...	...	...	...	...	...	...
25,09,098	00	...	...	25,09,058	00	...	...	...	...	...	...	...	...	...	...
1,62,343	00	...	...	1,62,343	00	...	...	...	...	...	...	...	...	...	...
3,254	00	...	...	3,254	00	...	...	...	...	...	...	...	...	...	...
58,984	00	...	...	58,984	00	...	...	...	...	...	...	...	...	...	...
2,24,581	00	...	...	2,24,581	00	...	...	...	...	...	...	...	...	...	...
69,426	00	...	...	69,426	00	...	...	...	...	...	...	...	...	...	...
75,96	00	...	...	75,936	00	...	...	...	...	...	...	...	...	...	...
13,725	00	...	...	13,725	00	...	...	...	...	...	...	...	...	...	...
		...	...	...	...	...	...	13,642	63	13,642	63	...	...	13,642	63*
1,59,087	00	...	...	1,59,087	00	...	...	13,642	63	13,642	63	...	...	13,642	63*
79,55,494	22	1,32,132	97	78,23,361	25	...	...	2,55,403	00	2,55,403	00	1,63,191	08	93,184	14*
														+972	22†
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	...	...
25,00,000	00	...	...	25,00,000	00	...	...	1,65,000	00	1,65,000	00	...	...	1,65,000	00
2,20,00,000	00	...	...	2,20,00,000	00	...	...	10,85,000	00	10,85,000	00	9,20,000	00	1,65,000	00*
2,99,55,494	22	1,32,132	97	2,98,23,361	25	...	...	13,40,403	00	13,40,403	00	10,83,191	08	* 2,58,184	14
														— 72	22†

* To be treated as savings.

Div.—I

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. 35,000 received has been refunded to the Government by debiting the amount to Sundry advances as certain tenements constructed under Slum Clearance Scheme were allotted to—postal Department at the instance of the Government.

† Expenditure on account of Interest amounting of Rs. 972-22 and an account of repayment Govt. Loan amounting to Rs. 1,08,096.09 has been met out of saving of Rs. 2,58,184.14 hence net saving under in Interest is Rs. 1,49,115.83.

APPENDIX
SLUM CLEARANCE
(A—CITY AND

Statement showing outstanding Loans of the Slum clearance Scheme (A-City & amount payable for the year 1971-72 the amounts paid during

Serial No.	Particulars of Loans	Date of Issue	Rate of interest per Annum	Balance due on 1st April 1971	Amount raised in 1971-72
(1)	(2)	(3)	(4)	(5)	(6)
	B.—Suburbs and Extended Suburbs.			Rs.	Rs.
	LOANS RAISED FROM GOVT. PROGRAMME NO. 2				
1.	Rs. 3,07,000 Loan (1959-60)	4-8-1959	4½%	3,07,000.00	...
2	Rs. 5,84,000 Loan (1960-61)	28-3-1961	4½%	5,84,000.00	...
3	Rs. 3,54,375 Loan (1962-63)	13-3-1963	5½%	3,54,375.00	...
4	Rs. 1,67,625 Loan (1963-64)	27-3-1964	Do.	1,67,625.00	...
5	Rs. 2,43,364 Loan (1964-65)	13-3-1965	Do.	2,43,364.00	...
6.	Rs. 11,599 Loan (1966-67)	1-12-1966	5½%	11,599.00	...
	Total 2nd Programme			16,67,963.00	...
	LOANS RAISED FROM GOVT. PROGRAMME NO. 3				
7	Rs. 1,62,000 Loan (1960-61)	28-3-1961	4½%	1,44,163.82	...
8	Rs. 9,72,000 Loan (1961-62)	28-3-1962	Do.	8,64,982.59	...
9	Rs. 1,00,182 Loan (1962-63)	13-3-1963	5½%	90,295.89	...
10	Rs. 7,818 Loan 1963-64	27-3-1964	Do.	7,046.70	...
	Total 3rd Programme			11,06,489.00	...
	LOANS RAISED FROM GOVT. PROGRAMME NO. 4				
11	Rs. 4,65,300 Loan (1963-64)	27-3-1964	5½%	4,65,300.00	...
12	Rs. 1,08,900 Loan (1964-65)	27-1-1965	Do.	1,08,900.00	...
13	Rs. 4,75,911 Loan (1964-65)	13-3-1965	Do.	4,75,911.00	...
14	Rs. 1,31,267 Loan (1965-66)	31-8-1965	5½%	1,31,267.00	...
15	Rs. 1,57,357 Loan (1965-66)	16-2-1966	5½%	1,53,917.00	...
16	Rs. 1,07,739 Loan (1965-66)	12-3-1966	5½%	1,07,739.00	...
17	Rs. 1,06,343 Loan (1966-67)	1-12-1966	5½%	1,06,343.00	...
18	Rs. 1,28,866 Loan (1966-67)	30-3-1967	5½%	1,28,866.00	...
19	Rs. 66,705 Loan (1967-68)	23-2-1968	5½%	66,705.00	...
20	Rs. 12,159 Loan (1967-68)	1-3-1968	5½%	12,159.00	...
21	Rs. 22,388 Loan (1968-69) @	12-12-1968	53/4%	22,388.00	...
22	Rs. 3,519 Loan (1968-69) @	31-3-1969	53/4%	3,519.00	...
	Total 4th Programme			17,83,014.00	...
	Total Loans from Govt			45,57,466.00	...
	LOAN FROM PUBLIC				
23	Rs. 50 Lakhs Loan 1962-63	25-3-1963	4½%	50,00,000.00	...
24	Rs. 50 Lakhs Loan 1966-67	31-3-1967	6%	50,00,000.00	...
25	Rs. 50 Lacs Loan (1967-68)	30-3-1968	6%	50,00,000.00	...
26	Rs. 25 Lakhs Loan (1968-69)	29-3-196	6%	25,00,000.00	...
27	Rs. 10 Lakhs Loan (1969-70) ... ..	...	...	...	...
	Total Loan from Public			75,00,000.00	...
	Grand Total			2,20,57,466.00	...

No. 29A—concl'd.

SCHEME (ACCOUNT)

B—SUBURBS)

B-Suburbs) Budget B, the interest outstanding on 1st April 1971, on the different loans, the the year and the balances outstanding on 31st March 1972.

Total	Amount repaid in 1971-72	Balance due on 31st March 1971	Interest out standing 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	...	...	...	...	...
16,67,963.00	...	16,67,963.00	...	80,278.00	80,278.00	80,276.61	* 1.39
1,44,163.82	3,458.05	1,40,705.77	...	6,487.37	6,487.37	6,48.37	...
8,64,982.59	20,748.36	8,44,234.23	...	38,924.22	38,924.22	38,924.22	...
90,295.89	1,963.34	88,332.55	...	4,740.54	4,740.54	4,740.53	0.01*
7,046.70	153.18	6,893.52	...	369.95	369.95	369.95	...
11,06,489.00	26,322.93	10,80,166.07	...	50,522.08	50,522.08	50,522.07	0.01*
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	...	...	...	...	...
1,28,866.00	...	1,28,866.00	...	...	...	...	...
66,705.00	...	66,705.00	...	...	...	...	...
12,159.00	...	12,159.00	...	...	...	...	...
22,388.00	...	22,388.00	...	...	...	...	...
3,519.00	...	3,519.00	...	.92	.92	...	.92*
17,83,014.00	...	17,83,014.00	...	77,727.92	77,727.92	77,723.90	... 4.02
45,57,466.00	26,322.93	45,31,143.07	...	2,08,528.00	2,08,528.00	2,08,522.58	... * 5.42
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	...
...	...	...	...	1,65,000.00	1,65,000.00	...	1,65,000.00
1,75,00,000.00	...	1,75,00,000.00	...	11,40,000.00	11,40,000.00	9,75,000.00	90,000.00*
2,20,57,466.00	26,322.93	2,20,31,143.07	...	13,48,528.00	13,48,528.00	11,83,522.58	... * 1,65,005.42

* To be treated at savings.

Div.—I

**APPENDIX No. 31
EDUCATION FUND**

Revenue Account for the year ended 31st March 1972.

Particulars	Total		Particulars	Total	
	Rs.	P.		Rs.	P.
To Revenue Expenditure	9,76,41,406	45	By Revenue Receipts	9,53,11,236	41
To Balance being surplus for the year	...	...	.. Balance being deficit for the year	23,30,170	04
Total	9,76,41,406	45	Total	9,76,41,406	45
To Revenue Expenditure to be incurred in 1972-73 and provided for as Renewed Grants	69,34,850	00	By Surplus Revenue Fund as at 1st April 1971	93,80,495	84
To Deficit for the year	23,30,170	04	.. Revenue of previous years reserved for the year 1971-72	53,02,453	00
To Balance being Surplus Revenue Fund as at 31st March 1972	55,17,928	80	.. Surplus for the year	...	...
Total	1,46,82,948	84	Total	...	...

APPENDIX No. 35

EDUCATION FUND

Capital Fund Balance Sheet as at 31st March 1972.

Liabilities		Assets	
	Rs.	P.	
Loans Outstanding—			Block Account—
Due to Public—	7,74,50,000	00	Loan Funds—
Trust Fund—	694	31	Property and Assets at original cost 9,50,97,149.94
Advance from Surplus Monies for meeting expenditure on capital works pending raising of new Loan	6,47,149	94	Less: Discount and other charges 2,44,495.14
Surplus—			Trust Fund—
Sinking Fund ... 3,85,74,648	31		Expenditure upto 31-3-1972 ... 2,08,755
Loan Redemption Fund 1,60,00,000.00			Investment—
Less—			Sinking Fund—
Assets written off Rs. 2,44,495.14			Trust Fund—
	1,57,55,504	86	Cash in current Account ... 694
Contribution from Trust Fund ... 2,08,755	42		Loan Fund—
Contribution from Government ... 10,00,000	00		In Fixed Deposit
Grand Total ... 13,36,36,752	84		In Call Deposit
			In Cash
			Grand Total... 13,36,36,752
			84

Statement showing Capital Expenditure upto 31st March 1972:—

Education Fund.

Loan Funds.	Total Capital Expenditure upto 31st March, 1971.	Expenditure during 1971-72 out of Loan Funds.	Capital Expenditure upto 31st March 1972.
	Rs.	Rs.	Rs.
City Section ...	5,18,90,064	22,51,889	5,41,41,953
Suburban Section ...	2,45,96,886	25,24,409	2,71,21,295
Extended Suburban Section ...	1,07,54,240	28,35,167	1,35,89,407
Discount and other charges ...	2,44,495	Cr. 2,44,495	...
	8,74,85,685	73,66,970	9,48,52,655
Trust Fund ...	2,08,755	...	2,08,755
Grand Total ...	8,76,94,440	73,66,970	9,50,61,410

* Face and Market values of Securities held in the Sinking Fund, was Rs. 3,86,22,400 and Rs. 3,83,19,217 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 1971 on the different Loans, the amount payable for the year 1971-72, the amount paid by the State Bank of India, and in Office during that year and the balances outstanding on 31st March 1972.

Particulars of Loans.	Rate of Interest.	Balance due, on 1-4-71	Amount raised in 1971-72.	Total.	Amount repaid in 1971-72.	Balance due on 31st March 1972.	Interest outstanding on 1-4-1971.	Interest payable in 1971-72.	Total Interest due.	Deduct Interest paid by the State Bank of India and in Office.	Outstanding balance March 1972
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Loans raised from the Public											
(1) The 50 Lakhs Education Loan of 1959-60	4 per cent.	Rs. 50,00,000	...	Rs. 50,00,000	50,00,000	Nil	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
(2) The Rs. 38.5 Lakhs Education Loan of 1960-61	4½ per cent.	38,50,000	...	38,50,000	...	38,50,000	...	1,00,000.00	1,00,000.00	1,00,000.00	...
(3) The Rs. 10 Lakhs Education Loan of 1960-61	4½ per cent.	10,00,000	...	10,00,000	...	10,00,000	...	1,63,625.00	1,63,625.00	1,63,625.00	...
(4) The Rs. 55 Lakhs Education Loan of 1961-62	4½ per cent.	55,00,000	...	55,00,000	...	55,00,000	...	42,500.00	42,500.00	42,500.00	...
(5) The Rs. 10 Lakhs Education Loan of 1961-62	4½ per cent.	10,00,000	...	10,00,000	...	10,00,000	...	2,33,750.00	2,33,750.00	2,33,750.00	...
(6) The Rs. 75 Lakhs Education Loan of 1962-63	4½ per cent.	75,00,000	...	75,00,000	...	75,00,000	...	42,500.00	42,500.00	42,500.00	...
(7) The Rs. 25 Lakhs Education Loan of 1962-63	4½ per cent.	25,00,000	...	25,00,000	...	25,00,000	6,317.43	3,56,250.00	3,62,567.43	3,58,933.75	3,633.68
(8) The 137.5 Lakhs Education Loan 1963-64	4½ per cent.	1,37,50,000	...	1,37,50,000	...	1,37,50,000	...	1,12,500.00	1,12,500.00	1,12,500.00	...
(9) The 12.5 Lakhs Education Loan 1963-64	4½ per cent.	12,50,000	...	12,50,000	...	12,50,000	570.00	6,53,125.00	6,53,695.00	6,52,923.16	771.94
(10) The 125 Lakhs Education Loan 1964-65	5 per cent.	1,25,00,000	...	1,25,00,000	...	1,25,00,000	...	59,375.00	59,375.00	59,375.00	...
(11) The Rs. 50 Lakhs Education Loan, 1965-66	5½ per cent.	50,00,000	...	50,00,000	...	50,00,000	...	6,25,000.00	6,25,000.00	6,25,000.00	...
(12) The Rs. 25 Lakhs Education Loan 1966-67	5½ per cent.	25,00,000	...	25,00,000	...	25,00,000	...	2,87,500.00	2,87,500.00	2,84,624.96	2,875.04
(13) The Rs. 25 Lakhs Education Loan 1966-67	6 per cent.	25,00,000	...	25,00,000	...	25,00,000	...	1,43,750.00	1,43,750.00	1,43,750.00	...
(14) 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	...
(15) The Rs. 27.5 Lakhs Education Loan 1968-69	6 per cent.	27,50,000	...	27,50,000	...	27,50,000	...	1,50,000.00	1,50,000.00	1,50,000.00	...
(16) The Rs. 20 Lakhs Education Loan 1968-69	6 per cent.	20,00,000	...	20,00,000	...	20,00,000	...	1,65,000.00	1,65,000.00	1,63,200.00	1,800.00
(17) The Rs. 27.5 Lakhs Education Loan 1969-70	6 per cent.	27,50,000	...	27,50,000	...	27,50,000	...	1,20,000.00	1,20,000.00	1,20,000.00	...
(18) The Rs. 16.5 Lakhs Education Loan 1970-71	6 per cent.	16,50,000	...	16,50,000	...	16,50,000	6,540.00	1,65,000.00	1,71,540.00	1,71,540.00	...
(19) The Rs. 16.5 Lakhs Education Loan 1970-71	6 per cent.	16,50,000	...	16,50,000	...	16,50,000	...	99,000.00	99,000.00	99,000.00	...
(20) The Rs. 33 Lakhs Education Loan of 1971-72	6 per cent.	...	33,00,000	33,00,000	...	33,00,000	...	99,000.00	99,000.00	99,000.00	...
(21) The Rs. 20 Lakhs Education Loan of 1971-72	6 per cent.	...	20,00,000	20,00,000	...	20,00,000	...	...	...	...	...
Loan from Public		7,71,00,000	53,00,000	8,24,50,000	50,00,000	7,74,50,000	13,427.43	37,67,875.00	37,81,302.43	37,72,221.77	9,080.60

APPENDIX No. 40

EDUCATION FUND

Statement showing the amounts of Receipts and Expenditure respectively credited and debited to the Education Fund during the year 1971-72 and the balance at the credit of the Fund at the close of the year 1971-72 (i.e., 31st March 1972).

	Rs.	P.
RECEIPTS—A.—REVENUE ACCOUNT		
(1A) Education Cess	1,60,69,806	52
(2) Contribution towards Primary Education from Municipal Corporation under Section 126C(c) of the Bombay Municipal Corporation Act—		
(i) From Budget 'A' Div. I	2,13,96,220	00
(ii) From Budget 'A' Div. II	89,22,160	00
(iii) From Budget 'A' Div. III	30,48,570	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	78,92,185	00
(4) Interest on Endowment and Investments	9,801	71
(5) Rent and other proceeds of properties	1,46,234	83
(6) Interest and Profits on Investments of Surplus, Loan and other balances	16,55,761	88
(7) Miscellaneous Receipts	1,70,496	47
Total—Revenue Receipts	9,53,11,236	41
RECEIPTS—B.—CAPITAL ACCOUNT		
(1) New Loan	53,00,000	00
(2) Trust Fund	654	31
(3) Advances from Surplus Monies for financing Expenditure on Capital works pending raising of a new Loan	6,47,149	94
Total—Capital Receipts	59,47,844	25
RECEIPTS—C.—SUSPENSE ACCOUNT		
Advances—Municipal Officers—		
(a) Standing Advances for Contingent Expenditure	1,847	50
(b) Motor Cars and Motor Cycles to Officers	13,932	87
(c) Dishonoured Cheques	1,169	50
(d) Loan scholarships to Municipal Teachers Under Training	42,711	49
(e) Advances for meeting the cost of repairs to private buildings housing municipal schools under Section 489/499 recoverable from the landlords.	...	...
Advance for purchase of Plant and Machinery	...	...
Sundries—Miscellaneous Advances	4,87,373	19
State Bank of India and other Local Banks Paper and Cash Account—including Paper Deposits in Office Custody—		
Sinking Fund (Paper and Cash) Account	63,87,863	35
Endowment Fund (Paper and Cash) Account	11,161	12
Loan Fund (Paper and Cash) Account	50,076	00
Surplus Fund (Paper and Cash) Account	85,20,345	28
Sundry Deposits Account	1,93,22,300	00
Deposit Account	37,88,329	37
Provident Fund Recoveries	98,20,000	37
Provident Fund Investments	31,13,177	73
Cash Bills Outstanding	...	...
Cheques Payable	10,63,71,935	53
Wages Deposit Account	...	...
Municipal Contribution Receivable	1,85,489	16
Endowment Fund Account	...	...
Sinking Fund Account—Education	65,87,721	65
Municipal Contribution payable	47,46,130	24
Education Loan Interest Warrants Payable Account	21,53,502	55
Interest Receivable Account	...	...
Interest accrued but not paid	81,125	00
Investment of Surplus Monies in Public Securities	...	...
Advances from Surplus Monies for financing Capital Expenditure pending raising of Loan	...	...
Loan Redemption Fund Account	50,00,000	00
Unclaimed due and deposits refundable Account	28	00
Total—Suspense Receipts	17,66,86,299	90

APPENDIX No. 40—(Contd.)

	Rs.	P.
EXPENDITURE—A. REVENUE ACCOUNT		
A.—General Supervision and Administration ...	19,76,527	48
B.—Municipal Primary Schools ...	7,71,04,090	47
C.—Private Primary Schools ...	2,49,949	86
D.—Medical Inspection of School Children ...	10,15,554	78
E.—Enforcement of Compulsion ...	1,11,683	60
F.—Educational Activities ...	8,83,829	88
G.—Pension and Provident Fund ...	66,41,900	00
I.—New Works ...	5,90,065	95
J.—Debt Charges ...	86,43,640	21
K.—Training Facilities for Municipal Teachers ...	17,662	39
L.—Proportionate Cost of Collection of Education Cess ...	2,77,827	98
M.—Extra-Curricular Activities ...	1,28,673	85
Total—Revenue Expenditure ...	9,76,41,406	45
EXPENDITURE—B.—CAPITAL ACCOUNT		
(1) Loan Funds— ...	73,66,970	52
(2) Trust Fund ...	...
Total—Capital Expenditure ...	73,66,970	52
EXPENDITURE—C.—SUSPENSE ACCOUNT		
Advances—Municipal Officers—		
(a) Standing Advances for Contingent expenditure ...	8,122	00
(b) Motor Cars and Motor Cycles to Officers ...	26,157	87
(c) Dishonoured Cheques ...	1,169	50
(d) Loan Scholarship to Municipal Teachers under Training ...	48	66
(e) Advance for meeting the cost of repairs to private buildings housing Municipal Schools under Section 489/499 recoverable from the landlords. ...	46,323	80
Advance for purchase of Plant and Machinery ...	...
Sundries—Miscellaneous Advances ...	9,88,522	44
State Bank of India and other Local Banks Paper and Cash Account—including paper Deposits in Office Custody—		
Sinking Fund (Paper and Cash) Account ...	79,74,585	00
Endowment Fund (Paper and Cash) Account ...	11,000	00
Loan Fund (Paper and Cash) Account ...	35,770	28
Surplus Fund (Paper and Cash) Account ...	1,07,48,007	93
Sundry Deposits Account ...	1,53,46,500	00
Deposit Account ...	29,63,124	64
Provident Fund Payments ...	98,20,060	37
Provident Fund Investments ...	31,13,177	73
Cash Bills Outstanding ...	...
Cheques Payable ...	10,61,01,743	68
Wages Deposit Account ...	...
Municipal Contribution Receivable ...	1,13,013	84
Municipal Contribution Payable (Refundable) ...	19,17,045	68
Endowment Fund Account ...	161	12
Sinking Fund Account Education ...	50,01,000	00
Education Loan Interest Warrants—Payable Account ...	21,54,295	05
Interest Accrued but not paid ...	2,222	22
Interest Receivable Account ...	...
Investment of Surplus Monies in Public Securities ...	...
Advances from Surplus Monies for financing Capital Expenditure pending raising of Loan ...	6,47,149	94
Repayment of Loan Account ...	50,00,000	00
Assets written off. ...	2,44,495	14
Unclaimed dues and deposit refundable Account ...	6,000	00
Total—Suspense Expenditure	17,22,69,706	89

APPENDIX No. 40—(Contd.)

SUMMARY

Receipts.			Disbursements.	
Rs.	P.		Rs.	P.
Dr. 2,52,656	91	Balance on 1st April 1971—		
9,53,11,236	41	A.—Revenue Account	9,76,41,406	45
59,47,844	25	B.—Capital Account	73 66,970	52
17,66,86,299	90	C.—Suspense Account	17,22,69,706	89
27,79,45,380	56	*Balance on 31st March 1972.	27,72,78,083	86
			4,14,639	79
27,76,92,723	65	Total	Total	27,76,92,723 65
Bank's Reconciliation—			Rs.	P.
*Balance as per Bank's Pass Book			20,84,233	83
Add—Revenue sent to the Bank on 31st March 1971 but acknowledged on 1st April 1972.			4,156	50
			20 88,390	33
Less—Uncashed cheques			17,69,649	57
Balance as per Day Book (Col. No. 10)			3,18,740	76
			Rs.	P.
Balance in Office in Government Promissory Notes etc.			1,200	00
Balance in Office in Cash			3,889	08
Collection kept in office			90,809	95
			95,899	03
			4,14,639	79

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. 3 crores and 70 lakhs. There is however no substantial change in the demand for wheel tax.

Collection of property taxes rose from Rs. 29,18,53,730 to Rs. 32,65,98,388 meaning thereby that during the year under report Rs. 3,47,44,658 were collected more than the amount of taxes collected during the preceding year. The percentage of collection of property taxes to the effective demand, so far as City is concerned is 89.70 whereas the same in respect of Suburbs and Extended Suburbs is 67.48 and 59.96 respectively.

The enforcement drive has been stepped up and the results are encouraging. It may, however, be mentioned here that ratepayers are frequently found resorting to Court for bringing injunctions restraining the Corporation from proceeding with the actions for recovery.

Recovery of taxes in respect of properties in Suburbs is still a great task. Appreciating the difficulties the Dept. has to face for want of sufficient executive staff the M. C. has been pleased to sanction some additional staff and it is expected that this would yield better results.

As regards water charges, percentage of collection in City is 82.49 whereas that in Suburbs and Extended Suburbs is 63.89 and 63.64 respectively. Steps to disconnect water supply to the properties in cases where water charges have not been paid are being expedited, but the process even though simplified is still time consuming.

The assessment of Railway properties is still not finalised but the Railway authorities having accepted the mode of assessment have come forward with some proposals which are being examined. However in the meantime they have made an adhoc payment of Rs. 10,58,546.42 during the year under report.

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

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

The Central Government who have decided to pay service charges from 1st April 1954 in respect of their properties covered by Article 285 (1) of the Constitution have during the year under report paid Rs. 41,45,411.01.

Building Repairs Cess

Collection of Repairs Cess during the year 1971-72 was Rs. 2,44,99,317 which worked out to 70 per cent of the net demand which included demand for the previous year also

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

No. of properties assessed to Cess—20,966	Rateable Value
Category	Rs.
A	9,68,39,793
B	1,51,61,345
C	3,27,45,598

Additional State Education Cess

By an ordinance No. VI of 1971 dated the 19th November 1971, The Maharashtra State Government decided to increase temporarily, the Education Cess with effect from 1st October 1971 at a rate equal to 50 per cent of the existing rates. As the communication from Government in this respect was received late, separate bills for Additional State Education Cess were issued late in March 1972 and, therefore, major portion of the net demand has remained outstanding at the end of the financial year.

R. G. RELE,
Assessor and Collector.

RATES OF TAXATION

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

Nature of Tax.	Percentage	Remark .
1 General Tax (including Fire Tax @ $\frac{3}{4}$ %)	24 $\frac{1}{2}$ %	In the areas of the City and Suburban H to N Wards and defunct Municipalities of Meled (including the Village Valnai) Kandivli (including the Village Dahannakar Wadi), Borivli and Mulund and Villages in respect of properties occupied for industrial purposes.
	22 $\frac{1}{2}$ %	In the areas of the defunct village Panchayat of Goregaon
	20 $\frac{1}{2}$ %	In the areas of the defunct Village Panchayat of Dahisar.
	18 $\frac{1}{2}$ %	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 Rs. 2/- and Rs. 10/- 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 31-3-1972	86,801	80,274	43,051	2,10,126
No. of properties exempted from General Tax during the year 1971-72	3,354	1,962	1,094	6,410
No. of properties newly assessed during the year 1971-72	1,580	2,472	1,308	5,360
No. of properties enlarged during the year 1971-72	1,063	2,194	1,219	4,481
No. of properties demolished during the year 1971-72	279	280	105	664

Rateable Value as on 31-3-1972 and Rates of Rateable Value per head of population.

	City	Suburbs	Extended Suburbs	Total
Rateable Value	52,41,38,944	22,95,35,082	9,75,72,292	85,12,46,318
Population 1972	30,67,381	21,68,160	7,33,065	59,68,606
Rate per head of population	170.87	105.86	133.10	142.61

Disposal of Complaints against rateable value during the year 1971-72.

	Number	Percentage of reduction in rateable value
City	2,416	8.2 %
Suburbs	4,343	7.41 %
Extended Suburbs	2,392	11.95 %
Total	9,151	...

Appeals against rateable value during 1971-72 :—

There were 355, 218 and 618 appeals against rateable value during the year under report in the City, Suburbs and Extended Suburbs respectively out of which 321, 208 and 595 remained pending at the close of the year.

Bills issued during the year 1971-72.

	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...	3,608	1,85,186	4,280	1,93,690	5,295	85,562	13,183	4,70,438
Water charges by meter measurement	3,878	43,189	22,108	98,943	6,455	39,706	32,441	1,86,838
Meter Hire	...	9,307	3,062	11,793	814	3,809	3,956	24,909
Wheel Tax	30,922	3,24,120	10,545	80,090	3,080	17,154	44,547	4,21,364
Total	38,408	5,66,802	39,995	3,89,516	15,724	1,47,231	94,127	11,03,549

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	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	"	71-72	25,67,17,422	20,27,59,462	78.98	5,39,57,960	21.02
Suburbs.	"	"	16,43,14,060	9,11,01,312	55.44	7,32,12,748	44.56
Extd. Subs.	"	"	6,43,81,738	3,27,37,614	50.85	3,16,44,124	49.15
City	Wheel	69-70	2,34,42,064	84,77,823	36.17	1,49,64,241	63.83
Suburbs	Tax	"	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
City	"	71-72	2,56,72,922	97,29,704	37.89	1,59,43,218	62.11
Suburbs	"	"	81,17,918	19,52,359	24.04	61,65,559	75.96
Extd. Subs.	"	"	16,82,492	5,43,786	32.14	11,38,706	67.86

Miscellaneous Receipts:—

	1970-71	1971-72
	Rs.	Rs.
City ...	5,39,497.65	5,30,140.00
Suburbs ...	2,09,679.00	2,65,454.60
Extd. Suburbs	99,452.00	1,19,320.10
Total ...	8,48,628.65	9,14,914.70

Meter Hire Receipts:—

City ...	5,41,508.79	6,38,598.00
Suburbs ...	2,30,487.05	3,37,359.25
Extd. Suburbs ...	91,764.72	1,20,810.13
Total ...	8,63,760.56	10,96,767.38

Exemption from General Tax:—

City ...	1,14,35,045.68	1,29,17,180.00
Suburbs ...	22,29,006.75	23,19,748.35
Extd. Suburbs ...	17,94,249.60	20,53,099.16
Total ...	1,54,58,302.03	1,72,90,027.51

Total Demand, Collection and Outstanding of Municipal Property Taxes during the year 1971-72

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

Period.	Outstanding on 1-4-1971.	Amount of bills issued including the demand for contribution from Government and B.P.T.	Gross Demand.	Amount of bills received.	Net demand.	Less provisional demand. (Details shown under the head provisional demand).	Effective Demand.	Collection during 1971-72.	Outstanding on 31-3-1972.	Percentage of collection to effective Demand	Percentage of outstanding to net D. mand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
CITY											
Upto 1969-70 ...	1,85,64,376	61,79,096	2,47,43,472	12,52,697	2,34,90,775	...	...	1,06,74,234	1,28,16,541	...	54.56%
1970-71 ...	2,52,04,407	1,25,17,985	3,77,22,392	77,45,590	2,99,76,802	...	...	2,15,48,713	84,23,089	...	28.12%
1971-72 ...	...	18,25,70,510	18,25,70,510	1,88,81,016	16,36,89,494	...	...	13,79,03,122	2,57,86,372	...	15.75%
Total ...	4,37,63,783	20,12,07,591	24,50,36,374	2,78,79,303	21,71,57,071	2,74,95,473	18,96,61,508	17,01,26,069	4,73,10,002	89.70%	21.65%
SUBURBS.											
Upto 1969-70 ...	3,24,60,937	41,19,439	3,65,80,376	12,76,464	3,53,03,912	...	...	1,07,35,355	2,45,68,357	...	69.59%
1970-71 ...	2,27,45,109	37,27,576	2,64,72,685	36,35,863	2,28,36,822	...	...	1,28,77,257	99,59,565	...	43.61%
1971-72 ...	...	7,18,98,625	7,18,98,625	61,87,572	6,57,11,053	...	...	4,16,38,160	2,40,72,893	...	36.61%
Total ...	5,52,06,046	7,97,45,640	13,49,51,686	1,10,99,899	12,38,51,787	2,71,61,409	9,66,90,378	6,52,50,722	5,86,00,815	67.48%	47.32%
EXTENDED SUBURBS.											
Upto 1969-70 ...	1,41,32,654	12,68,803	1,54,01,457	2,89,523	1,51,11,934	...	...	48,06,795	1,03,05,139	...	68.19%
1970-71 ...	1,18,21,074	14,78,561	1,32,99,635	20,03,362	1,12,96,273	...	...	57,47,249	55,49,024	...	49.12%
1971-72 ...	...	2,96,89,118	2,96,89,118	32,80,092	2,64,09,026	...	...	1,48,24,119	1,15,84,907	...	43.87%
Total ...	2,59,53,728	3,24,36,482	5,83,90,210	55,72,977	5,28,17,233	1,04,92,211	4,23,25,022	2,53,78,163	2,74,39,070	59.96%	51.95%

Total Demand, Collection and Outstanding of Water by meter measurement during the year 1971-72.
(The amounts of 50 paise and above are taken as full rupee and below 50 paise are omitted).

Period.	Outstanding on 1-4-1971.	Amount of bills issued.	Gross Demand.	Amount of bills recalled.	Net demand.	Collection during 1971-72.	Outstanding on 31-3-72.	Percentage of outstanding to net D. mand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
CITY.								
Upto 1969-70 ...	17,08,283	7,31,195	24,39,483	1,87,878	22,51,605	9,89,504	12,62,101	56.07
1970-71 ...	46,39,838	15,81,241	62,21,079	3,91,701	58,29,378	48,37,193	9,92,185	17.02
1971-72 ...	...	3,16,59,663	3,16,59,663	1,80,295	3,14,79,368	2,68,05,696	46,72,672	12.84
Total ...	63,43,126	3,39,72,099	4,03,20,225	7,59,874	3,95,60,351	3,26,33,393	69,26,958	17.51
SUBURBS.								
Upto 1969-70 ...	51,19,624	5,44,102	58,63,727	1,47,795	57,15,932	20,57,063	36,58,869	64.01
1970-71 ...	72,14,966	25,11,969	97,26,935	5,74,250	91,52,684	59,86,796	31,65,888	34.59
1971-72 ...	...	2,57,54,940	2,57,54,940	1,61,282	2,55,93,658	1,78,06,481	77,87,177	30.43
Total ...	1,25,34,590	2,88,11,011	4,13,45,612	8,83,328	4,04,62,274	2,58,50,340	1,46,11,934	36.11
EXTENDED SUBURBS.								
Upto 1969-70 ...	9,84,615	1,30,790	11,15,405	19,768	10,95,637	5,39,598	5,56,039	50.73
1970-71 ...	20,20,658	5,70,151	25,90,809	75,928	25,14,881	18,68,900	6,45,981	25.68
1971-72 ...	...	80,71,502	80,71,502	1,17,515	79,53,987	49,50,953	30,03,034	37.75
Total ...	30,05,273	87,72,493	1,17,77,716	2,13,211	1,15,64,505	73,59,451	42,05,054	36.36

Total Demand, Collection and Outstanding of Wheel Tax during the year 1971-72.

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

Period	Outstanding on 1-4-1971.	Amount of bills issued	Gross Demand	Amount of bills recalled.	Net Demand	Less provisional demand. (Details shown under the head provisional demand).	Effective demand.	Collection during 1971-72.	Outstanding as on 31-3-1972.	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 1969-70	1,22,18,694	4,43,999	1,26,62,693	25,81,682	1,00,81,011	...	...	10,73,573	90,07,438	...	89.35
1970-71	42,64,778	4,55,611	47,20,389	4,97,716	42,22,673	...	...	16,74,491	25,48,182	...	60.34
1971-72	...	1,17,38,044	1,17,38,044	3,68,805	1,13,69,238	...	...	69,81,640	43,87,598	...	38.60
Total	1,64,83,472	1,26,37,654	2,91,21,126	34,48,204	2,56,72,922	90,67,726	1,66,05,196	97,29,704	1,59,43,218	58.59	62.10
SUBURBS											
Upto 1969-70	40,85,102	1,52,523	42,37,625	2,17,630	40,19,995	...	...	2,98,965	37,21,030	...	92.56
1970-71	13,75,137	1,69,830	15,44,967	93,096	14,51,871	...	...	4,74,634	9,77,237	...	67.29
1971-72	...	26,87,971	26,87,971	41,919	26,46,052	...	...	11,78,760	14,67,292	...	55.44
Total	54,60,239	30,10,324	84,70,563	5,52,645	81,17,918	30,21,894	56,96,034	19,52,359	61,65,559	38.30	75.95
EXTENDED SUBURBS											
Upto 1969-70	7,66,839	41,813	8,08,652	63,337	7,45,315	...	...	1,28,394	6,16,921	...	82.82
1970-71	2,93,144	47,271	3,40,415	31,039	3,09,380	...	...	1,09,213	2,00,167	...	65.31
1971-72	...	6,41,809	6,41,809	14,012	6,27,797	...	...	3,06,179	3,21,618	...	51.27
Total	10,59,983	7,30,893	17,90,876	1,08,384	16,82,492	7,75,535	9,06,987	5,43,786	11,38,706	59.98	67.72

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

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

Period	Outstanding as on 1-4-71.	Amount of bills issued during 1971-72.	Gross Demand.	Bills recalled.	Net Demand.	Collection during 1971-72.	Outstanding as on 31-3-72.	Percentage of outstanding to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
City Upto 1962-63 ...	6,91,827	2,610	6,94,437	4,93,009	2,01,428	27,955	1,73,473	86.13%
Suburbs —do— ...	3,94,231	2,230	3,96,461	3,067	3,93,394	34,458	3,58,936	91.10%
Extended Suburbs —do— ...	2,56,877	1,098	2,57,975	1,636	2,56,339	39,850	2,16,459	84.33%
Total : ...	13,42,935	5,938	13,48,873	4,97,712	8,51,161	1,02,293	7,48,868	87.99%

The State Education cess :

Period	Outstanding as on 1-4-71.	Amount of bills issued during 1971-72.	Gross Demand.	Amount of Bills recalled.	Net Demand.	Collection during 1971-72.	Outstanding as on 31-3-72...	Percentage of outstanding to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
City—								
Upto 1969-70 ...	13,91,171	1,70,559	15,61,730	1,24,773	14,36,957	4,16,923	10,20,034	70.98%
1970-71 ...	20,05,748	8,32,475	28,38,223	7,18,756	21,19,467	14,89,707	6,29,760	29.71%
1971-72 ...	...	1,34,45,740	1,34,45,740	14,60,305	1,19,85,435	1,00,25,797	19,59,638	16.35%
Total ...	33,96,919	1,44,87,774	1,73,45,693	23,03,834	1,55,41,859	1,19,32,427	36,09,432	23.22%
Suburbs—								
Upto 1969-70 ...	23,16,922	80,240	23,97,162	59,449	23,37,713	5,36,737	18,00,976	77.03%
1970-71 ...	19,29,836	2,60,678	21,90,514	3,14,177	18,76,337	9,40,229	9,36,108	49.89%
1971-72 ...	...	57,10,280	57,10,280	4,90,658	52,19,622	32,81,735	19,37,887	37.13%
Total ...	42,46,758	61,51,198	1,02,57,956	8,64,284	94,33,672	47,58,701	46,74,971	49.55%
Extended Suburbs—								
Upto 1969-70 ...	11,51,819	19,686	11,71,505	17,897	11,53,608	3,13,837	8,39,771	72.79%
1970-71 ...	9,76,638	1,24,107	11,00,745	1,81,642	9,19,103	4,62,766	4,56,337	49.60%
1971-72 ...	...	24,51,188	24,51,188	2,84,601	21,66,587	12,12,494	9,54,093	44.02%
Total ...	21,28,457	25,94,981	47,23,438	4,84,140	42,39,298	19,89,097	22,50,201	53.08%

Total Demand, Collection and Outstanding of :

The Additional State Education Cess

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

Period	Outstanding as on 1-4-1971	Amount of bills issued during 1971/72.	Gross Demand	Amount of bills recalled	Net Demand	Collection during 1971/72	Outstanding as on 31-3-1972	Percentage of outstanding to net demand.
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
City upto 1971-72	...	30,53,017	30,53,017	1,79,663	28,73,354	10,66,985	18,06,369	62.86
Suburbs upto 1971-72	...	13,37,302	13,37,302	32,566	13,04,736	3,31,077	9,73,659	74.64
Extended Suburbs upto 1971-72	...	5,78,620	5,78,620	34,325	5,44,295	86,655	4,57,640	84.10

Total Demand, Collection and Outstanding of Repairs and Reconstruction Cess during the year 1971-72 for the City Wards.

	Category	Outstanding as on 1-4-71.	Amount of bills issued during the year 1971-72.	Gross Demand.	Bills recalled (Amount.)	Net demand.	Collection during 1971-72	Outstanding as on 31-3-1972	Percentage of outstanding to the net demand
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Past and previous years.	A	47,47,042.13	1,93,482.41	49,40,524.54	9,54,587.19	39,85,937.35	20,23,521.46	19,62,415.89	49.23%
	B	7,99,899.50	50,683.44	8,50,582.94	2,26,564.94	6,24,018.00	2,71,134.57	3,52,883.43	56.55%
	C	17,19,808.38	2,07,247.95	19,27,056.33	5,86,350.05	13,40,706.28	6,63,231.35	6,77,474.93	50.53%
Total		72,66,750.01	4,51,413.80	77,18,163.81	17,67,502.18	59,50,661.63	29,57,887.38	29,92,774.25	50.30%
Current year (1971-72)	A	...	2,32,01,493.19	23,20,14,93.19	12,82,363.46	21,91,91,29.73	17,05,43,21.67	4,86,48,08.06	22.20%
	B	...	2,94,27,27.79	2,94,27,27.79	3,28,11,68.00	2,61,43,55.99	1,90,48,17.71	7,09,53,82.28	27.14%
	C	...	5,51,10,61.42	5,51,10,61.42	7,81,99,32.24	4,72,90,68.18	2,58,22,90.26	2,14,67,77.92	45.35%
Total		...	31,65,50,27.40	31,65,50,27.40	23,92,47,35.50	29,26,25,53.90	21,54,14,29.64	7,72,11,24.26	26.37%
Grant Total		72,66,750.01	32,10,64,41.20	39,37,31,91.21	41,59,97,56.68	35,21,32,15.53	24,49,93,17.02	10,71,38,98.51	30.40%

Break up of arrears of all taxes including State E. cess and U.I.P. Tax and water charges as on 31-3-72.

	CITY		SUBURBS		EXTENDED SUBURBS	
	Effective Demand.	Provisional Demand.	Effective Demand.	Provisional Demand.	Effective Demand.	Provisional Demand.
(1) Government and Dy. Custodian of Evacuee properties.	25,47,116	—	20,90,850	—	7,03,853	—
(2) Railways	—	4,66,746	—	99,968	—	1,316
(3) Bombay Port Trust	—	5,61,268	—	—	—	—
(4) B.M.C. (Imp.) and Other Municipal Departments.	41,85,816	—	13,10,128	—	9,28,850	—
(5) Court Receiver, Official Assignee etc.	—	25,09,353	—	8,48,250	—	7,21,426
(6) Suits Filed Injunctions and appeals against rateable values.	—	94,99,618	—	72,06,677	—	21,41,689
(7) Properties under attachment	—	40,94,105	—	65,60,639	—	57,38,251
(8) Complaints against rateable values	—	59,23,913	—	53,17,269	—	17,65,010
(9) Amounts involved in respect of unauthorised structures.	18,69,223	—	68,75,032	—	38,21,963	—
(10) Amounts due from B. E. S. T. Undertaking.	1,89,474	—	9,16,974	—	11,915	—
(11) Instalments allowed	—	5,07,024	—	12,13,212	—	9,43,618
(12) Disputed property taxes	—	—	20,07,653	—	73,98,118	—
(13) Disputes regarding wheel tax	—	—	90,67,726	—	90,21,894	—
(14) Bills issued at the lag end of the year	—	—	70,88,390	—	62,71,742	—
(15) Arrears of taxes carried forward from the records of the defunct local bodies.	—	—	—	19,385	—	1,78,743
(16) Monthly tenancy structures	—	4,67,773	—	80,67,060	—	17,18,364
(17) Amounts held in deposits	—	3,16,241	—	14,28,343	—	9,48,657
(18) Other rate payers						
(a) Property taxes	—	1,72,23,781	—	2,76,44,569	—	1,31,05,373
(b) Wheel tax	—	68,75,493	—	20,95,763	—	3,19,138
	3,89,27,254	3,65,63,199	5,52,02,572	3,01,83,303	2,44,39,382	1,12,67,746
	7,54,90,453		8,53,85,875		3,57,07,128	

- (1) Payment was not received from the various Government departments before 31st March 1972. The Dy. Custodian of evacuee properties pays as and when funds permit.
- (2) The Railways have made 'on account' payment of Rs. 10.58 lacs during 1971-72. The question of assessment of Rly. properties for the quinquennium 1954-59, 1959-64 and 1964-69 is still pending with the Railways authorities.
- (3) The payment was not received before 31st March 1972.
- (4) The amount awaits adjustment.
- (5) The payments are made when funds are available.
- (6) The matter is pending before the Court.
- (7) Steps have since been taken to expedite the sale of properties attached.
- (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. Special squad has been appointed for the purpose.
- (10) The matter is under correspondence.
- (11) Recovery would be effected in due course.
- (12) The matter is under correspondence.
- (13) The matter is under correspondence.
- (14) The recovery is in progress.
- (15) Most of the properties no longer exist nor the owners are traceable.
- (16) There are various difficulties for effecting recovery of taxes in respect of monthly tenancy structures.
- (17) Amounts awaits adjustments.

Cinema Theatres :—

	Class I	Class II	Total
City	46	18	64
Suburbs	23	3	26
Extended Suburbs	9	4	13
Total	78	25	103

Collection of Theatre Tax :—

	1970-71	1971-72
City	8,06,574.20	8,08,814.05
Suburbs	3,17,331.69	3,42,162.25
Extended Suburbs	1,50,653.20	1,57,794.80
Total	12,74,559.09	13,08,771.10

Tax Collected on Race Horses—

	1970-71	1971-72
No. of horses taxed	3,578	3,894
Tax collected	9,553.26	10,396.98

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

Rateable Value.	Number of Properties		
	City	Suburbs	Extended Suburbs
Below Rs. 200	30,229	20,591	13,525
Between Rs. 201 and 300	3,985	9,246	4,298
Between Rs. 301 and 400	3,804	6,701	3,446
Between Rs. 401 and 500	3,817	6,299	2,696
Between Rs. 501 and 750	5,283	6,546	3,717
Between Rs. 751 and 1,000	3,798	5,333	2,805
Between Rs. 1,001 and 1,500	4,617	5,554	3,493
Between Rs. 1,501 and 2,000	3,809	4,693	2,463
Between Rs. 2,001 and 5,000	10,718	4,600	3,936
Between Rs. 5,001 and 10,000	7,403	4,755	1,229
Between Rs. 10,001 and 20,000	5,231	3,304	645
Between Rs. 20,001 and 30,000	1,422	1,164	318
Between Rs. 30,001 and 40,000	780	709	187
Between Rs. 40,001 and 50,000	554	387	118
Between Rs. 50,001 and 1,00,000	765	267	140
Between Rs. 1,00,001 and 1,50,000	327	62	28
Between Rs. 1,50,001 and 2,00,000	180	23	2
Between Rs. 2,00,001 and 2,50,000	125	10	2
Between Rs. 2,50,001 and 3,00,000	104	9	1
Between Rs. 3,00,001 and 3,50,000	78	3	1
Rs. 3,50,001 and above	97	13	1
TOTAL	86,801	80,274	43,051

APPENDIX 'B'

Vehicles and Animals taxed during the year 1971-72.

Vehicles or Animals							Number.
Motor lorries	...	...	...	...	...	...	16,112
Motor cars (including taxis)	...	...	...	...	...	...	69,102
Trolleys	...	...	...	...	...	...	21
Trailers	...	...	...	...	...	...	214
Cranes	...	...	...	...	...	...	9
Motor cycles with side-cars (including Auto Rickshaws)	...	...	...	...	...	...	1,441
Motor cycles (Solo)	...	...	...	...	...	...	12,203
Four-wheeled vehicles drawn by animals	...	...	...	...	...	...	209
Two-wheeled vehicles drawn by animals	...	...	...	...	...	...	506
Handcarts	...	...	...	...	...	...	16,876
Horses	...	...	...	...	...	...	31
Ponies	...	...	...	...	...	...	28
Bullocks	...	...	...	...	...	...	361
TOTAL							1,17,113

APPENDIX 'C'

Vehicles and animals taxed under the Public Conveyance Act, during the year 1971-72.

Hack Victoria (including 2 horses for each)	...	...	...	...	...	465
Labour carts (with pair of bullocks for each)	...	...	...	...	...	521
Hand-carts	...	...	...	...	...	2,877
TOTAL							3,863

OCTROI DEPARTMENT

Rates of Octroi.—In 1971-72 the rates of Octroi continued to be the same as those in the year 1970-71.
Income.—Comparative figures of Gross Collection, Refunds and Net Revenue from Octroi for the years 1970-71 and 1971-72 are as under:—

Item	1970-71	1971-72	Increase over 1970-71
	Rs.	Rs.	Rs.
(1) Gross Collection	17,77,83,868	20,17,91,713	+3,10,07,845
(2) Refunds	2,72,86,412	2,59,81,700	+ 26,95,2 8
(3) Net Revenue	15,04,97,456	17,88,10,0 3	+2,83,1 557
(4) Fees for stamping	3,52,841	2,17,881	—01,34,960
(5) Fees in respect of refunds	11,17,222	25,75,977	+ 14,58,755
(6) Departmental Collection	9,18,82,908	11,72,22,493	+ 2,53,39,585

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

Item	1970-71	1971-72	Increase or Decrease.
(i) Sugar & Gur	29,94,199	17,83,682	—12,10,517
(ii) Tea	86,080	60,466	— 25,614
(iii) Edibles	3,45,375	2,16,401	— 1,28,974
(iv) Chee & Vegetable products	2,585	23,890	+ 21,305
(v) Wines & Spirits	4,686	39,069	+ 34,383
(vi) Paper bales	60,972	47,235	— 13,737
(vii) Plywood crates	9,390	5,680	— 3,710
(viii) Molasses	15	2,385	+ 2,370
(ix) Miscellaneous	25,111	—	— 25,111
	35,28,413	21,78,808	—13,49,605

84710 claims for refund of Octroi on exported goods were received during the year as against 83603 claims received in the previous year.

A Study Group appointed by Government of Maharashtra in May 1963 to consider the question of abolishing Octroi all over Maharashtra State and substituting it by a suitable alternative source of revenue, had recommended abolition of Octroi and its substitution by a multi-point turn-over tax, in their report submitted to Government in June 1970 and published by Government. Government of Maharashtra had however, not taken any final decision in the matter upto 31st March 1972.

ELECTION DEPARTMENT

For filling up two vacancies of Councillors in Ward Nos. 122 (Borivali West Rural) and 123 (Charkop and Borivali West) caused due to resignations submitted by Sitting Councillors Sarvasri Santilal Amritlal Modi and Kuldipsingh Amarsingh Sapat on 10th February 1971 and 2nd December 1970 respectively, it was decided to hold the Poll on 7th November 1971. The date of Poll was, however, postponed in deference to the views expressed by members of the Standing Committee in their meeting dated 6th October 1971 and re-fixed on 9th January 1972. The Poll was, however, again required to be postponed due to Indo-Pakistan War in December 1971 and proclamation of a State of Emergency.

The next Municipal General Elections are due in February /March 1973. For holding these Elections some preliminary work such as requesting Government to undertake fresh delimitation of Municipal Electoral Wards and preparing fresh Municipal Electoral Rolls by dividing suitably latest Government Assembly Rolls, as per provisions of Section 19 of the Bombay Municipal Corporation Act, was commenced.

P. R. KARKHANIS
Dy. Assessor & Collector (Octroi).

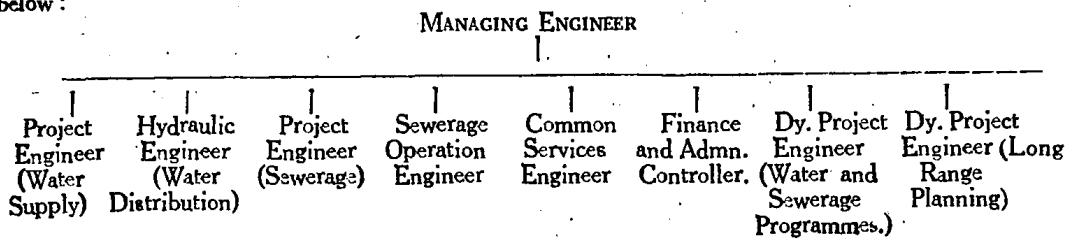
WATER SUPPLY PROJECTS DEPARTMENT

Messrs. Binnie and Partners (India) Ltd., Consultants were appointed by the Corporation for preparing an engineering as well as financial feasibility report in respect of works of City's Water Supply and Sewerage system, for which loan assistance from the World Bank was sought. They have in their report emphasised the need of co-ordinating the activities of water supply and sewerage organisations, and they have, therefore, recommended creation of a separate Undertaking viz., "Water Supply and Sewerage Undertaking", to be headed by a Managing Engineer. To start with the implementation of the Project an existing vacant post of Deputy Municipal Commissioner was filled in by appointing with effect from 1st October 1971 Shri V. D. Desai thereto and designating him as Dy. Municipal Commissioner (Spl. Engineering) as an interim arrangement pending his appointment as Managing Engineer or to such other suitable post with suitable designation to fulfil the requirements of his being the Executive and Administrative head of the new organisation working under the general superintendence of the Municipal Commissioner. The existing Project Engineer, Hydraulic Engineer and Sewerage Design Departments have been brought under his control.

The other appointments made after 1st October 1971 are as under:

- (1) Deputy Project Engineer (Planning and Design) Water Supply.
- (2) Deputy Project Engineer (Common Services).
- (3) Deputy City Engineer (Mechanical and Electrical), Design, Operation and Control.
- (4) Deputy Project Engineer (Sewerage) Incharge.
- (5) Deputy Accountant.

The final executive set up of the proposed Undertaking when it materialises will be broadly as shown below:



During the year 1971-72, the Water Supply Projects Department was under the supervision of the following Officers who worked as the Project Engineer from time to time:—

- (1) Shri L. G. Dhayagude — B. E. (Civil), A.M.I.E. (India) upto 30-9-1971.
- (2) Shri T. M. Kandawalla — B. E. (Civil), A.M.I.E. (India) looked after the P. E.'s duties from 1-10-71 to 15-10-1971.
- (3) Shri Y. H. Kamat — B. E. (Civil), A.M.I.E. (India), appointed from 16-10-1971 to 31-1-1972.
- (4) Shri T. M. Kandawalla — B. E. (Civil), A.M.I.E. (India) from 1-2-1972 till date.

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.—Ulhas River Scheme.
- V.—Upper Vaitarna Scheme.
- VI.—Integrated Bhatsai 'S' Scheme.
- VII.—Misc. Works.

From the next year comprehensive report of the above proposed undertaking would be submitted.

PART I

Vaitarna-cum-Tansa Scheme

(A) *General.*—The work on this scheme was started in the year 1947 and the major works were completed by the end of 1955.

(B) *Land Acquisition.*—All the works were completed long back. However, Land Acquisition proceedings in respect of lands measuring 22,687.70 sq. meters (i.e., 5 acres, 24 gunthas, 4 annas) of village Paspoli and Tungwe and 923 sq. meters (i.e., 9 gunthas, 2 annas) of village Kokkalyan in Bombay Suburban District were still pending with the Land Acquisition Officers. Correspondence for transfer of Government and Forests lands was in progress during the year.

PART II

Master plan for the distribution of Water Supply to Greater Bombay

(A) *General.*—This plan was prepared in the year 1955, for distribution of water that would be available from Vaitarna-cum-Tansa Scheme. Under this plan 11 service reservoirs were proposed in the Greater Bombay of which Worli, Golanji, Pali, Trombay, Veravali High, Veravali Low, Ghatkopar, Powai Low and Bhandup I were completed earlier. Work on the Powai High Level reservoir was in progress. It was decided to abandon the work of construction of Raaji Reservoir (which was to be constructed of prestressed concrete) 45.46 ML (10 m.g.) due to deep fissures in the foundation and following further investigations. Capacity of the above reservoir has now been modified taking into consideration the development in the area. It is now proposed to construct 2 Nos. steel tanks 22.73 ML (5 m.g. capacity) on the top of the hill and low level reservoir 31.82 ML (7 m.g.) capacity at the base with pumping stations.

(B) Land Acquisition :—

Serial No.	Purpose for which land is required.	Area to be acquired in sq. metres.	Party to whom land belongs.	Remarks.
1	2	3	4	5
1	Reservoirs Raoli Hill MP/AQR/77.	18,303	Govt.	... Correspondence with Government was in progress.
2	Trombay Hill, MP/AQR/1A.	25,287.50	Do.	... Do.
3	Ghatkopar Hill, MP/AQR/14(2), MP/AQR/39A.	66,733.71	Do.	... Do.
4	Bhandup Hill, MP/AQR/9A	1,00,644.25	Private	... Acquisition proceedings were in progress. Possession with the Corporation.
	(a) Approach Road, MP/AQR/66 and 73.	5,929.41	Private	... Acquisition proceedings in were in progress.
	(b) Approach Road, MP/AQR/43.	23,770.25	Government	... The occupancy price was to be finalised. Possession with Corporation except for 18,817.50 sq. metres.
5	Vyaravali Hill, MP/AQR/61		Private	... Purchase agreement was under preparation, pending with the Solicitors to Corporation.
	(a) Ancillary Works.	5,437.05		
	(b) Inlet and Outlets MP/AQR/11 and 55.	45,542.80	Govt. Milk Scheme	Government has suggested to give land on lease for 15 years. Correspondence was in progress.
	(c) Pipeline, Tansa, MP/AQR/45.	89,416.60	Forest	... Occupancy price is yet to be finalized. Land in Municipal possession.

(C) Works in Progress

Serial No.	Name of the work	Name of the contractors	S.C.R. No. and date	Sanctioned amount	Amount spent till 31-3-1972	Remarks
				Rs.	Rs.	
Reservoirs						
(1)	Construction of 54.55 ML. (12 m.g.)					
	Powai High Level Reservoir (Balance work).	Messrs. New Great Construction Co.	<u>2677</u> 20-12-1970	7,28,026.99	5,20,854.59	Work was in progress.
(2)	Construction of 22.73 ML. (5 m.g.)					
	Bhandup reservoir	Messrs. Chattarsingh Moti Singh & Co.	<u>4161</u> 18-3-1964 & 3391 9-2-1966	22,45,708.50	22,88,987.14	Work completed.
Treatment Plant						
(3)	Construction of 20 M. G. D. Water Treatment Plant for Vihar Waters. (Balance work).	Messrs. Geo Miller & Co. Pvt. Ltd.	<u>1662</u> 14-10-1970	6,21,471.99	2,13,947.00	Work was in progress.
Misc. Works						
(4)	Access Road to Powai High Level Reservoir etc.	Messrs. Litco Construction	<u>2206</u> 20-11-1970	1,85,796.45	1,28,103.34	Work completed.
(5)	Access road to Trombay Reservoir etc. (Balance work).	Messrs. Union Construction Co.	<u>1726</u> 30-9-1971	2,86,634.03	1,66,512.09	Work was in progress.
(6)	Access road to Ghatkopar Reservoir.	Messrs. Dhirubhai Construction Co.	<u>154</u> 10-9-1969	1,78,145.63	1,40,797.37	Work Completed.
(7)	Staff Quarters at Bhandup Reservoir.	Messrs. Vikram Construction Co.	<u>768</u> 25-6-1969	4,03,843.65	2,76,857.91	Work was nearing completion.

PART III

Dahisar River Project

(A) *General*.—Work on this project was abandoned.

(B) *Land Acquisition*.—The Additional Collector, B.S.D. was requested to take back possession of land admeasuring 23,19,034.15 sq. mt. (i.e., 573 acres, 1 guntha, 13 annas).

PART IV

Ulhas River Scheme

(A) *General*.—This scheme was taken up as an emergency scheme and work on it started in the first week of October 1966 and the scheme was commissioned on 8th May 1967.

(B) *Land Acquisition*.—Progress during the year was as under :—

Lands for the scheme were initially requisitioned under the Defence of India Act, for the period of 5 years on payment of rental compensation.

As the lands are required permanently, 13 proposals for acquisition of private land admeasuring 1,91,865.43 sq. metres (47A—16C—7A) were initiated. Awards in 6 cases were declared during the year.

The transfer proceedings in respect of Government land measuring 69,125.43 sq. metres (17A—3C—4A) were in progress.

(C) Works in Progress

Serial No.	Name of the work	Name of the contractors	S.C.R.No. and date	Amount		Remarks
				Sanctioned amount	spent till 31-3-1972	
(1)	Construction of water bound macadam road between Pogaon and Ambivali Rly. Station.	Messrs. Union Construction Co.	69 9-4-1969	Rs. 19,80,025.00	Rs. 18,22,397.37 + Price variation.	Work completed.
(2)	Construction of channel from the sump of the pump house.	Do.	1920 15-10-1969	45,965.00	13,424.38	Do.
(3)	Providing Cross connections between 1200 mm. Ulhas main and 2500 mm. Vaitarna main near Pogaon.	Departmentally by H. E.'s Deptt.	...	1,55,210.00	1,48,710.00	Do.
(4)	Installation of H. T. Oil circuit breakers at Mohone and Pogaon Pump House.	Do.	...	14,580.00	...	Work completed Testing in progress.

PART V.

Upper Vaitarna Scheme

(A) *General*.—During the year the work of pipe-laying was in full swing. Of the total length of 84 kms. to be laid, 71 kms. were completed and 32 kms. commissioned bringing additional water supply of about 35 million gallons per day to the City.

(B) *Land Acquisition* :—

Serial No.	Purpose for which land is required	Area to be acquired in sq. mtrs.	Party to whom land belongs.	Remarks.
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Out side City in Thana District

1	For pipe laying works from Shaha-pur, Bhiwandi and Thana Tahsils.	17,52,221.45	Private.	Lands acquired upto the end of March 1972.
2	Do.	8,44,349.62	Government.	Lands in possession of Corporation. Transfer proceedings not finalized.
Pipe Laying Works.				
(3) (a)	Paspali, Mulund, Bhandup. VT/AQP/8, UV/LAQ/50, 55 and 57.	11,946.50	Private.	Awards declared during the year.
	(b) Bhandup. UV/LAQ/54	2,806.90	Private.	Acquisition proceedings were in progress.
	UV/LAQ/54A	976.00	Government.	Under Correspondence with Executive Engineer, Express Highway.
4	Akurli and Kanjur. UV/LAQ/65 and 80.	10,360.30	Private.	Acquisition proceedings were in progress.
6	Marol Industrial Area. VP/AQP/4 and 39.	2,99,909.75	M. I. D. C.	Negotiations with M. I. D. C. were in progress Possession with the Corporation.

Serial No.	Purpose for which land is required	Area to be acquired in sq. metres.	Party to whom land belongs.	Remarks.
6	Paspoli, VP/AQP/10.	17,264.28	I. I. T.	Matter was still under consideration of Government in Education and Social Welfare Department.
7	Miral, Parjapur, Paspoli. VP/AQP/6.	30,685.87	Milk Scheme.	Transfer proceedings were in progress. Possession with Corporation.
8	Malad, Bhandup and Nahur, B. S. D. UV/LAQ/5 to 63.	12,789.40	Government.	Transfer proceedings were in progress.
9	Kondivate and Parjapur, B. S. D. VP/AQP/5 and 2.	5,239.04	Private.	Negotiations with parties were in progress.
Thrust Block				
10	Kanjur, UV/LAQ/83	30.00	Private.	Party agreed to sell the land. Purchase agreement was under preparation.
Tunnel.				
11	(a) Gundgaon and Nahur, UV/LAQ/34.	43,563.28	Government (Forest Deptt).	Matter was under correspondence.
	(b) Palsar and Akurli, 50' strip.	14,628.31	Government.	Transfer proceedings were in progress. Possession with the Corporation.
Reservoirs				
12	Malad Hill, UV/LAQ/42	1,87,778.90	Private.	Award was declared on 1-6-1971. Possession with Corporation.
13	(a) Bhandup Hill, UV/LAQ/10	8,22,602.25	Private.	The land measuring 77,918.75 sq. mtrs. in possession of the Corporation. Acquisition proceedings were in progress.
	(b) Approach road and Inlet main UV/LAQ/80.	838.07	Private.	Acquisition proceedings were in progress.
14	Borivali Hill, UV/LAQ/73.	528.00	Private.	Award was declared on 20-3-1972. Possession with Corporation.
15	Borivali Hill UV/LAQ/45.	68,680.85	Government.	Occupancy price is not yet settled. Possession with Corporation.
16	Dahisar, EA/1877	26,299.00	M. H. B.	Transfer of land pending with Maharashtra Housing Board.
17	Trombay Hill, UV/LAQ/72	95,460.30	Atomic Energy	The lands were mutually exchanged between Atomic Energy and Municipal Corporation. Pending for finalising the documents.

(C) Works in Progress

Serial No.	Name of the work	Name of the contractors	S.C.R. No. and date	Amount spent till 31-3-1972		Remarks
				Rs.	Rs.	
Formation						
(1)	Preparing formation work for laying 3000 > 2750 mm. main between Belnalla and Pachhapur.	Messrs. New Asian Construction Co.	1378 25-8-1965	1,56,49,840.50;	1,15,64,908.91	Work completed. Final bill pending.
(2)	Preparation of formation for laying 2750 > 2500 mm. main between Pogaon & Bhandup & construction of service road (between Tarali and Gundoli and Kolsket and Balcurn)	Messrs. Hindustan Construction Co. Ltd.	2392 26-11-1969	15,83,418.25	9,90,926.82	Work Completed.
Fabrication						
(3)	Fabrication, transporting of steel pipes and specials Belnalla to Dharavi and inlets and outlets.	Consortium of firms with Messrs. Hindustan Construction Co. Ltd. as principal contractors.	1505 11-9-1968	3,12,63,629.40	1,85,21,206.91	Work in progress.
Trunk Pipe-laying						
(4)	Laying 3000 > 2750 > 2500 mm. steel pipeline and civil works from Belnalla to Bhandup.	Consortium of firms with Messrs. Hindustan Construction Co. Ltd. as principal contractors.	1505 11-9-1968	5,33,85,519.79	3,45,35,386.50	Work was in progress.

(C) Works in Progress (contd)

Serial No.	Name of the work	Name of the contractors	S.C.R. No. and date	Sanctioned amount	Amount spent till 31-3-1972	Remarks
(5)	Laying 2500 mm. steel pipeline between Bhandup Powai and Bandra-Dharavi including formation work.	Messrs. S. V. Shah	4087 21-3-1967	Rs. 32,37,905.00	Rs. 20,32,000.00	Civil works were completed and as the Corporation could not supply pipes for laying, contract was terminated.
(6)	Do.	Do.	74 21-4-1971	27,81,182.15	11,73,000.00	Work was in progress.
(7)	Laying 2500 mm. steel pipeline between Powai and Postal Colony at Sahar.	Messrs. Gujarat Construction Corporation.	3202 4-2-1970	24,45,363.00	8,39,000.00	Do.
(8)	Laying 2500 mm. steel pipeline between Postal colony at Sahar and Nehru Road at Santacruz.	Messrs. Kusumkant & Co.	1872 15-10-1969	29,97,150.00	19,76,000.00	Work was in progress.
(9)	Laying 2500 mm. steel pipeline between Nehru Road, Santacruz and Highway Bridge at Bandra.	Messrs. R. N. Ghanekar & Co.	1844 8-10-1969	30,29,950.00	22,76,000.00	Do.
(10)	Well sinking for foundation of anchor block at Dharavi.	Do.	76 21-4-1971	3,93,172.50	2,80,000.00	Do.
Internal Painting						
(11)	Sandblasting and painting internally 300(\geq 2750 mm. steel pipeline between.					
	(i) Belnalla-Pachhapur	Messrs. Shotblasting and Metal Spraying Co.	1380 31-8-1970	48,81,135.00	23,54,006.34	Do.
	(ii) Pachhapur-Pogaon	Messrs. Osnar Paints and Contracts Pvt. Ltd.	Do.	45,88,547.25	29,40,284.58	Do.
	(iii) Pogaon-Pachhapur	Messrs. John Fleming & Co. P. Ltd.	Do.	45,01,429.50	40,93,920.65	Do.
Reservoirs, Inlets, Outlets etc.						
(12)	Construction of 18.18 ML (4m.g.) Bhandup II Reservoir.	Messrs. Kusumkant & Co.	812 3-7-1968	21,44,730.00	21,09,946.67	Work completed on 30-4-1971.
(13)	Laying 1800 mm. inlet from Powai to Veravali.	Messrs. Kiron & Co.	3238 29-1-1969	6,42,306.00	6,62,956.48	Work was nearing completion.
(14)	Laying 1800 mm. inlet main from Powai to Ghatkopar.	Messrs. R. N. Ghanekar & Co.	344 8-5-1968	18,55,190.30	21,47,761.23	Work completed.
(15)	Extending 1800 mm. inlet main from Ghatkopar to Chembur.	Messrs. National Painting Works.	2279 17-11-1971	26,17,835.44	1,04,018.45	Work was in progress.
(16)	Laying inlet and outlet mains to Borivali Reservoir.	Messrs. Gujarat Construction Corporation.	1356 20-8-1969	8,01,597.82	4,64,000.00	Work Completed.
(17)	Laying 900 mm. Vikhroli East outlet.	Messrs. Janak Construction Co.	1099 23-7-1969	5,61,414.00	4,60,629.76	Work completed except the portion across Railway Track.
(18)	Laying 2-1200 mm. outlets from Veravali Reservoir to Kurla Andheri Road.	Messrs. Vasant construction Co.	436 23-5-1969	13,00,771.50	10,74,039.92	Work was nearing completion.
(19)	Extending 2-1200 mm. outlets from K. A. Road upto Western Express Highway.	Messrs. Kiron & Co.	831 7-7-1971	6,09,265.55	49,270.58	Work was in progress.
(20)	Laying 600 mm. outlet for Malad Reservoir from Junction Marve Road—Swami Vivekanand Road upto I.N.S. Hamla.	Messrs. United India Welding Works.	3248 22-2-1971	7,93,076.00	2,48,000.00	Do.
Misc. Works						
(21)	Construction of staff quarters at Bhandup Reservoir.	Messrs. Vikram Const. Co.	3945 28-3-1969	3,24,521.00	2,78,000.00	Work completed.
(22)	Transport of steel material from Messrs. S. E. W. Ltd. compound.	(i) Messrs. J.D. Shah (ii) Messrs. Mangatram Bros. (iii) Messrs. Baxisingh & Co. (iv) Messrs. Shori Automobiles.	2015 20-10-1968	19,98,687.90	2,03,568.66	Work started on 29-10-1969 Till 31-3-1972, 67000 tonnes of material transported.
(23)	Providing chlorination equipment—					
	(i) Borivali Reservoir	Messrs. Babubhai Narotmdas & Co.	2876 8-1-1969	25,875.00 plus S.T. plus G.T.	...	Equipment was received, however, installation and testing will be taken up as soon as the reservoir is put into commission
	(ii) Bhandup II Reservoir	Messrs. Indian Engineering Corporation.	1964 13-10-1971	42,260.00 plus S.T. plus G.T.	...	Order on the firm was placed.
(24)	Purchase of 2 Nos. of Dall-Short insert tube suitable for 2750 mm. pipeline.	Messrs. Besto Bell & Co.	3375 25-2-1970	2,02,550.00	...	One Dall Short insert tube was received during the year. Assemblies required are being fabricated in Messrs. I.H.P. Co.

Departmental Works.—Works costing Rs. 5,55,619.30 were carried out departmentally such as extension of school building at Agra Road, construction of Welfare Centre at Karpurbawdi, repairs to roads, maintenance of existing buildings. Works costing Rs. 48,225.00 were in progress.

PART VI

Integrated B'atsai 'S' Scheme

(A) **General.**—Messrs. Binnie and Partners (India) Ltd. who were appointed as consultants to the Corporation for preparing a report on Water Supply and Sewerage for Greater Bombay, continued their work during the year under report and completed their studies. The consultancy agreement was further modified for studying alternatives suggested by the B. M. C. (S. C. R. Nos. 2030 dated the 6th November 1970, 1348 dated the 18th August 1971, 2769 dated the 22nd December 1971 and 3568 dated the 23rd February 1972). The final contract amount was 1,96,000 Pounds Sterling (1,55,000 Pounds Sterling paid by the U. K. Government under the Colombo Plan and 41,000 Sterling Pounds paid by the Corporation) and Rs. 6,72,000 for the counter part services. CPHERI also continued their studies during the year for which they were paid Rs. 3,65,000 (S. C. R. No. 1048, dated the 29th July 1970). Investigations were also undertaken on marine survey at a cost of Rs. 3,42,000 through Messrs. Pent Ocean Steamships Pvt. Ltd. (S. C. R. No. 1, dated the 13th April 1971). Computer studies for inlet mains and trunk main system were also carried out through Messrs. Tata Consulting Engineers at a cost of Rs. 1,04,980 (S. C. R. No. 377, dated the 16th June 1972) and at a cost of Rs. 54,000 (S. C. R. No. 3207, dated the 8th February 1971) respectively. Visual aerial survey was also carried out at a total cost of Rs. 5,100. Aerial Survey mapping of the B'atsai River Basin was completed and that for the entire area within the jurisdiction of B. M. C. was ordered through the Director, Deccan Circle Survey of India, at the estimated cost of Rs. 19,000 and Rs. 40,000 respectively. Sums of Rs. 9,500 and Rs. 20,000 respectively being 50 per cent of the estimated cost are deposited with them (S. C. R. No. 3514, dated the 9th March 1971 and 799, dated the 7th July 1971). The total estimate for the consultancy services thus came to 1,96,000 Pounds Sterling and Rs. 16,02,080.00. The B. M. C. staff continued to assist the consultants.

The above report was being prepared for appraisal by the World Bank to whom the Corporation has approached with the consent of Government of Maharashtra and Government of India for I. D. A. credit. The World Bank Mission visited India in November, December 1971 for appraisal, but the appraisal had to be postponed firstly due to commencement of hostilities in India and Pakistan and secondly due to further studies of alternatives suggested by the B. M. C. required to be made by the consultants. The World Bank Mission promised to come for appraisal in June 1972.

(B) **Land Acquisition.**—Out of 12 proposals, for the acquisition of private Lands in Tahsil Bhiwandi measuring 4,26,675.93 sq. m's. awards in respect of 3 cases measuring 82,083.22 sq. mts. were declared and the possession taken over. Acquisition proceedings in respect of remaining were in progress.

Government Land.—Correspondence for transfer of Government land measuring 76,716.20 sq. meters on permanent basis were in progress.

Government was also requested to lease out on temporary basis, land admeasuring 64,550 sq. metres for stocking materials and for construction of contractor's camps.

(C) Works in Progress

Serial No.	Name of the work	Name of the contractors	S.C.R. No. and date	Sanctioned amount	Amount spent till 31-3-1972	Remarks
				Rs.	Rs.	
(1)	Site Investigation for 'S' Scheme (Including works at Bhandup complex).	Messrs. Shri Sainath Const. Engineering & Trading Co.	453 24-5-1971	1,75,350.00	...	Work of drilling bore holes for pick-up weir, pumping house at Pise, tunnel filtration plant & Master balancing reservoir at Bhandup was completed. Further investigation for Panjrapur sedimentation tank was being undertaken.
(2)	Construction of approach road from Sawad to Pise including laying 200 mm. pipeline.	Messrs. Hindustan Construction Co.	3843 22-3-1972	39,76,521.75	...	Work was awarded.

(D) **Tenders invited.**—Tenders for the work of (i) construction of staff quarters at Pise and (ii) Renovation of Old-Agra Road from Mulund Colony to Vellar Lake, were invited and rejected as tender for staff quarters was much on higher side and that in respect of renovation of road, the contractors submitted tender document without signature.

Above two tenders were reinvited. Tender for the work of construction of approach road from Sawad to Yewai was also invited and are due in short time.

(E) **Miscellaneous.**—(i) Submergence survey for villages, Chiratpada, Ozarli, Juhupada, etc., was completed.

(ii) Survey for Model studies of pick-up weir, Intake channel, silt load etc., as required by CWPRS, Khadakwasla was started and were in progress.

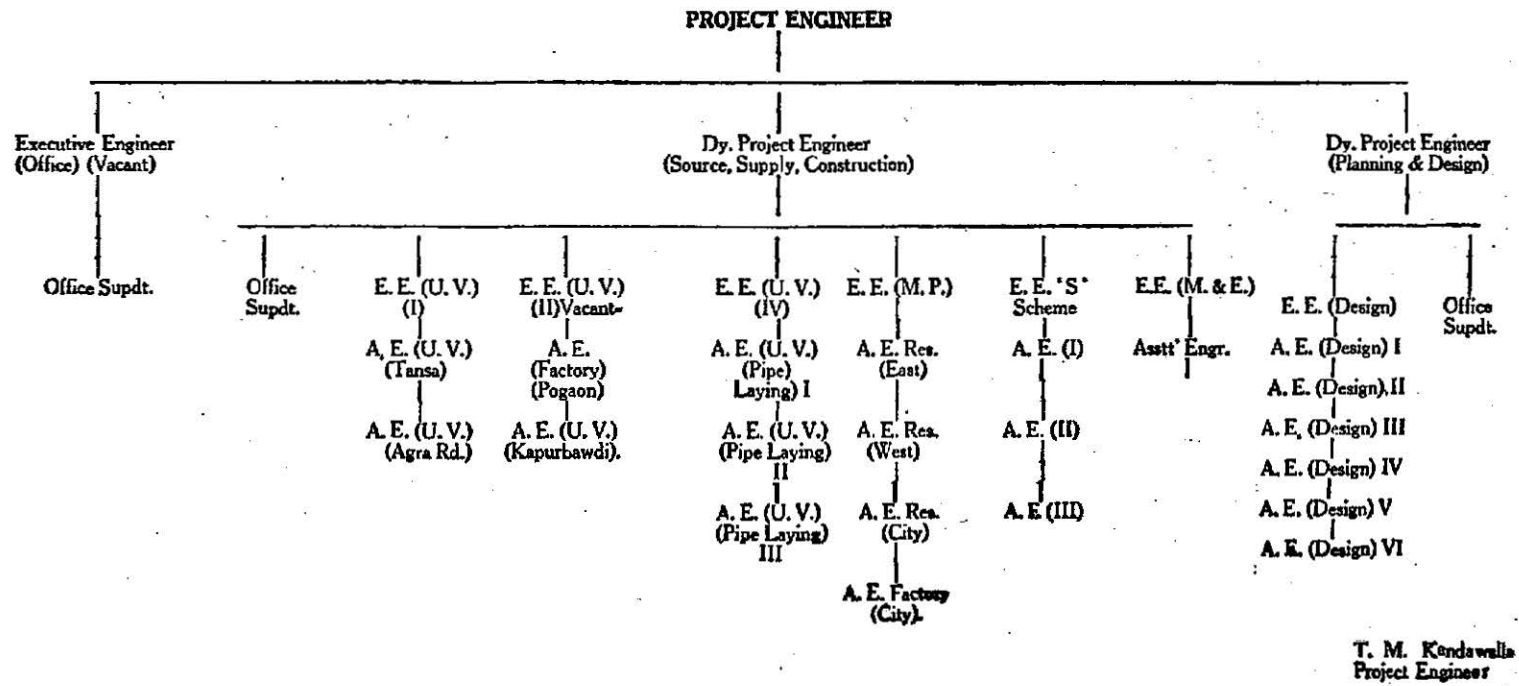
(iii) Rain and river gauging at Pise was continued.

PART VII

Miscellaneous Works

Serial No.	Name of the work	Name of the contractors	S.C.R. No. and date	Sanctioned amount	Amount spent till 31-3-1972	Remarks
				Rs.	Rs.	
(1)	Laying 1800 mm. additional inlet main to Malabar Hill reservoir from Dharavi to K. G. Marg.	Messrs. Eastern Associated Construction Co.	2916 13-1-1971	26,84,598.00	2,69,179.18	Work was in progress.
(2)	Replacing 2-57" mains by 2-1800 mm. mains between—					
	(i) Bandra-Mahim	Messrs. R. N. Chanekar & Co.	2939 5-1-1968	20,81,514.75	16,21,709.95	Work completed.
	(ii) Express Highway, Bandra	Messrs. Janak Construction Co.	3698 24-3-1971	29,63,121.00	5,49,724.14	Work was in progress.

ORGANISATION CHART AT MARCH 1972



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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 office of the City Engineer upto 30-9-71 and thereafter Shri G. Naganna, B.E. (Civil), held that office upto the end of the year.

CITY SECTION.

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

The work of preparation of plans and estimates for sewerage and the storm water drain works for the City and the Suburbs which was looked after by this Department was placed under a separate Department from 1-2-72. Last year the B. M. C. approached the World Bank for International Development Association credit for implementing the water-supply and sewerage and Sewage Disposal Projects. M/s. Binnie & Partners, who were consulting Engineers, to the World Bank have prepared a feasibility report for these projects. While preparing development plan for the projects of Water Supply & Sewerage, they have also recommended that the activities of sewerage which were hitherto a part of the City-Engineers department should be taken out of that department and handled by a new department known as 'Water Supply And Sewerage Undertaking.' This new department will function under the newly appointed Deputy Municipal Commissioner (Special Engineering) and will have two wings viz. (1) Water and (2) Sewerage.

On the sewerage side, a beginning has been made by creation of a post of Dy. Project Engineer Sewerage (Planning & Design). The work of preparation of plans & estimates, calling of tenders and their recommendation has been taken up by the incumbent of this new post. The previous staff working on the plans & estimates for the sewer & S. W. Drain for the City & Suburbs has been placed under him. This office also looks after the preparation of plans & estimates for the work to be undertaken under the development plan, recommended by M/s. Binnie & Partners and to be executed under the IDA Credit.

L—PLANNING BRANCH.

L—(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.	80	60
(ii) Cloth Tracing.	25	20
(iii) Paper Tracing	344	60
(iv) Blue Print Copies.	7848	2690
(v) Block Estimates.	12	14
(vi) Total amount of Block Estimates.	Rs. 1,11,93,930	1,25,26,075
(vii) Detailed plans and estimates completed in all respects (as shown below).	22	5
(viii) Total amount of detailed estimates.	Rs. 1,11,99,627.08	20,89,078.58
(ix) No. of Tenders invited.	20	12
(x) No. of contracts awarded	12	5
(xi) Detailed Estimates in hand	11	4
(xii) Total approximate cost of detailed estimates in hand	Rs. 1,33,61,168.00	Rs. 36,97,177.00

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

Particulars	No. of estimates	Estimated cost
(a) Schools (permanent)	7	Rs. 39,68,767.48
(b) Schools (Temporary)	Nil	Nil
(c) Centralised Ward Offices.	2	7,79,975.95
(d) Markets.	Nil	Nil
(e) Hospitals, Maternity Homes and Dispensaries.	4	30,96,688.10
(f) Miscellaneous.	9	33,54,195.55

I.—(B) PLANNING (Bridges).

The abstract of Work done during the year:—

Particulars.	Details of Plans and Estimates prepared.
(i) Contract Plans.	29
(ii) Cloth Tracing.	Nil
(iii) Paper Tracing.	16
(iv) Blue Print copies.	166
(v) Block Estimates.	3
(vi) Total amount of block estimates.	Rs. 84,55,000.00
(vii) Detailed plans and estimates completed in all respects.	3
(viii) Total amount of detailed estimates.	Rs. 8,65,000.00
(ix) No. of Tenders invited.	1
(x) No. of works instructed to the Rlys.	1
(xi) Detailed estimates in hand.	2
(xii) Total approximate cost of detailed estimates.	Rs. 2,25,000.00
(xiii) Scrutiny of plans received from :	
(a) Railways.	3
(b) Private parties.	1
(xi) Scrutiny of estimates received from railways ...	1

I.—(C) PLANNING (Sewers and storm water drains)

The abstract of work done during the year is as follows:—

Particulars.	
(i) Contract plans.	Nil
(ii) Cloth Tracing.	7 Nos.
(iii) Paper Tracing.	119 Nos.
(iv) Blue print Copies.	1995 Nos.
(v) Block Estimates.	Nil
(vi) Total amount of Block Estimates.	Nil
(vii) Detailed plans and estimates completed in all respects. (As shown below).	40 Nos.
(viii) Total amount of detailed estimate.	Rs. 84,41,872.00
(ix) No. of Tenders invited.	20 Nos.
(x) No. of Contracts awarded.	8 Nos.
(xi) Detailed estimates in hand.	10 Nos.
(xii) Total approximate cost of detailed estimates in hand.	Rs. 25,00,000.00

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

Particulars.	No. of Estimates.	Estimated cost in Rs.
(a) Sewers.	10	Rs. 25,93,549.00
(b) S. W. Drains.	26	Rs. 49,50,640.00
(c) Pumping Stations.	Nil	Nil
(d) Miscellaneous.	4	Rs. 8,97,683.00

I.—(D) CIVIL DEFENCE CELL.

With the Indo-Pak war outbreak in the year 1965, a need for Civil Defence was keenly felt for preparing an effective operation paper plan for orienting the performance of the obligatory and discretionary functions to Civil Defence needs and also to ensure the future planning and execution of Capital Works in a manner so as to take into account, the civil and strategic requirements of the present and the future. Hence the Civil Defence Cell was created on 7-6-1971.

Following activities were carried out by the Cell since its inception.

- (1) Emergency Code was prepared for C. E.'s Department, which contains the detailed plan how to attend to the essential services in the case of damage caused due to air attack or sabotage.
- (2) Scrutinised and brought upto date Emergency Code of H. E.'s Deptt. which contains the detailed plan how to attend to the damage to water mains and distribution system, in the case of air attack or sabotage.

- (3) Men and materials were kept ready round the clock, at different Ward Offices during the recent Indo-Pak War, to attend to the house collapses and damage to Road drainage etc.
- (4) Men and materials were kept ready at all Ward Offices during the recent Indo-Pak War to attend to the removal and disposal of refuse, night-soil and dead animals.
- (5) A list showing the vital installations was prepared and sent to Government to declare the installations as protected places under Defence of India Rules.
- (6) Municipal staff was given training in the following courses:—
 - (a) Fire fighting and patient carrying technology at Fire Brigade Office-48 Nos.
 - (b) Training in First-Aid at K. E. M. Hospital-110 Nos.
 - (c) Training in Civil Defence basic course at Maneksha Staff Training College, Dhobitalao-21 Nos.
- (7) Circulars were issued for the guidance of Heads of Department to take precautionary measures to prevent fire spreading during emergency/peace time.

I.—(E) Slum Improvement Cell.

The Slum Improvement Cell was created on 5-7-69 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, electricity and pucca passages.
- (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 the Municipal lands not immediately required for any development projects, the Corporation provides essential amenities therein such as sanitary blocks, roads, passages water connections, street lights and welfare centres. To maintain these services and ensure general cleanliness necessary staff is appointed.

New Colonies:—New colonies are created by shifting existing ones from plots which are required for development immediately. Under this scheme each hutment dweller is allowed a pitch 15' × 10' where he can erect his own structure.

For provision of civic amenities, so far 56 colonies have been selected. Out of which 28 were taken in hand as under: 8 in 1969-70, 10 in 1970-71 and 10 in 1971-72.

Compensation:—In the case of existing colonies a hutment dweller has to pay compensation charges of Rs. 5 p.m. for 100 sq. ft. subject to the minimum of Rs. 8/- p.m. The recovery of compensation charges is started only after 50% of amenities are provided. Transfer fee is Rs. 50/-.

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

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

Welfare Projects: In addition to the civic amenities numerous social Welfare services are also necessary. As a modest beginning Welfare and Family planning Centres have been started at 2nd October Colony, Dr. E. Moses Road Colony and Govandi Colony. These centres will look after community sanitation, health and medical relief, better nutrition for pregnant women, pre school attention to children etc.

Generally there is a poor response from the contractors whenever tenders are invited for works in colonies under Slum Improvement. This is primarily due to the difficulties like theft, of construction materials from the sites lack of proper access to the sites etc. Another major difficulty in providing these amenities expeditiously is that in most of the colonies suitable vacant sites for locating washing Places sanitary blocks etc. are not readily available. Thus shifting of some of the hutments becomes imperative. As far as possible these hutments are given alternative accommodation in the same colony with the co-operation of the Ward Officer.

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

1.—(F) SLUM CLEARANCE BRANCH.

This branch is mainly concerned with the following functions:—

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

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 in the year 1960. The owners uptill now could not succeed in developing the properties due to disputes between them and the tenants. The disputes were still pending disposal at the small causes court. Corporation cannot do anything with this scheme until the court matter is settled.
(2) Hirvi Chawls—Arthur Road, Tardeo ('D' Ward).	This property was acquired in 1962. But 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 insisted on alternative accommodation in the same area, which could not be acceded to so far by the Corporation. It was proposed to rehabilitate them in the 64 tenements and 16 shops proposed to be constructed at Bane Compound and 60 tenements at Tulsiwadi, Tardeo Area. As the earlier contractor for the pile foundation work had failed to execute the work, fresh tenders were invited both for pile foundation and superstructure works at these places.
(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 inventory work of slum dwellers was completed and their list sent to W. O. 'D' Ward for recovery of rent etc. Completed inventory forms of Gora Gandhi Chawl Slum Dwellers were sent to W. O. (Estates) for record. Due to lack of alternative accommodation and financial stringency, negotiations to get this area developed through Bombay Building Repairs & Reconstruction Board were started.
(4) Papanaswadi—August Kranti Marg ('D' Ward).	Originally, the area was proposed to be developed under a Slum Clearance Scheme by the Corporation. Owners' subsequent request for its development by themselves was not acceded to by the Corporation. In view of the huge amount required for its acquisition and development and also due to a large number of existing non-conforming users in the area, Corporation had decided to drop this scheme vide C. R. No. 1720 dated 17-12-1970. After this, negotiations were carried out with the Bombay Building Repairs and Reconstruction Board for developing the area under the Board's Act. They have agreed to develop the part of this area after declaring a fresh by the Corporation as a Clearance Area.
(5) Sherichi wadi at Forjett Street ('D' Ward).	After completing all the formalities of the Act in respect of the acquisition of this area, under Section 354-R, Government were informed to appoint the Special Land Acquisition Officer for conducting acquisition proceedings. For fixing up the correct boundaries of part properties under acquisition in this area, joint survey and demarcation of these areas were being carried out with the Collector's Staff.
(6) 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. Since Bombay Building Repairs & Reconstruction Board desired to develop this scheme under the Board's Act, Corporation's final approval for handing over this scheme for further implementation under the Board's Act was awaited.
(7) 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 completed by another contractor at the risk and cost of the defaulting contractor and the tenements and shops were allotted by W. O. (Estates).
(8) Sectors B-1 and B-2 of Kamathipura ('E' Ward).	Except a few shopping tenants, till existing in Sector B-2 area, both the Clearance Areas, viz. B-1 and B-2 Sector were already cleared and fenced. Tenders for the construction of tenements and shops as per the revised plans were invited by the Dy. C. E. (P & D) and further steps were also in progress.
(9) Sectors C-1, D-1, G-2 and N-1 Kamathipura 'E' Ward.	Special Land Acquisition Officer has handed over the possession of properties except one, in all these sectors and injunction brought by the owner of one of these acquired properties was still pending disposal in the court. Inventory work of slum dwellers in all these sectors was in progress. Besides, Government have also informed Corporation to de-requisition the properties, belonging to Vithal Mandir Trust in G-2 Sector Area. Solicitor to Corporation's opinion in the matter of this de-requisitioning was awaited. All these sectors form reservations as recreation ground, extension of market and play-ground. As a result, existing tenants thereof become spill over and development of these areas will have to be kept pending till the problem of providing alternative accommodation for them elsewhere is solved.

Name of the clearance Area.	Progress.
(10) Match Factory Lane Kurla ('L' Ward.)	Development of this area, which was acquired on 27th October 1966 was deferred for lack of funds in the past. Preparations of revised plans and estimates for the construction of 540 multi-storeyed tenements in two phases were completed for inviting tenders.
(11) Sector 'F' Jawahar Nagar, Khar (East) ('H' Ward.)	After completion of all the formalities upto the stage of confirmation of the Compulsory Acquisition Order by Government, the Compulsory Acquisition Order became operative from 28th August 1970 and Government was requested to appoint officer for starting acquisition Proceedings. Negotiations for acquisition of Government lands in this clearance area were in progress. Thereafter, since this area was learnt to be a part of the Western Express Highway Slum Clearance—Redevelopment & Rehabilitation Scheme of the Maharashtra Housing Board, correspondence with the Maharashtra Housing Board and Government for merging this entire area with the aforesaid scheme and for implementing the scheme by the Maharashtra Housing Board was in progress.
(12) Sector 'A' of Koliwada, Colaba ('A' Ward.)	All formalities upto the stage of authorising Municipal Commissioner to acquire the lands by making a compulsory acquisition order were completed. But the scheme was later deferred for 5 years vide C. R. No. 971 of 12th August 1970 for want of alternative accommodation. Since the Bombay Building Repairs & Reconstruction Board was interested in implementing the scheme under the Board's Act, Corporation's sanction to the same was applied for.
(13) Kach Karkhana Chawls, G. D. Ambekar Marg (F/North Ward)	All formalities upto the stage of confirmation of compulsory Acquisition order were completed and the Compulsory Acquisition Order became operative from 14th January 1971. Government was requested to appoint a Special Land Acquisition Officer for conducting acquisition proceedings. Municipal Commissioner had visited this area and decided that only if the tenants are willing to pay a rent over Rs. 40 per month per new tenement on site, then alone the area may be acquired and developed by the Corporation, otherwise the scheme may be dropped.
(14) Sector C-2, Kamathipura ('E' Ward.)	After completing all the formalities upto the stage of making compulsory Acquisition Order, the further steps were stayed due to lack of alternative accommodation etc. and correspondence was in progress with Bombay Building Repairs and Reconstruction Board for their consideration to implement this scheme by them under the Board's Act. The Board, however, expressed their inability to implement it.
(15) Tell Gully, near Kala Chowky, Lalbaug ('E' Ward.)	After declaring this area as a 'Clearance Area' by the Corporation and intimating the Government accordingly, further steps were stayed due to lack of alternative accommodation and reservations etc. in the area. After consulting the Bombay Building Repairs & Reconstruction Board, the Board have now agreed to implement the scheme under the Board's Act. The matter was placed before the Corporation for approval.

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

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

- (a) Bakri Adda, N. M. Joshi Marg ('E' Ward.) Originally, it was intended to get this area declared as a 'Clearance Area' for development by the Corporation under Slum Clearance Scheme. However, due to abnormal number of spill over tenants and huge cost of acquisition and development, it was proposed to defer this scheme. Thereafter, as desired by the Bombay Building Repairs & Reconstruction Board, a fresh proposal to declare the area as a 'Clearance Area' under Section 354-R of the Bombay Municipal Act to enable the Board to implement the scheme under the Board's Act was put up for Corporation's approval which the Corporation approved under C. R. No. 993 dated 11th October 1971. The Government and the Bombay Building Repairs & Reconstruction Board were intimated accordingly. As desired by the Board, the inventory of the tenants thereat was also made. The Board is to take further necessary action.
- (b) Siddik Chawls at Bhavani Shankar Road, (G/North Ward) This area is a part of listed slum No. 134 in G/North Ward. After taking necessary preliminary steps, the area was declared as a Clearance Area by the Corporation vide R. No. 932, dated 11th October 1971 to enable the Bombay Building Repairs & Reconstruction Board to implement their scheme of Repairs & Reconstruction under the Board's Act. The Government and the Board were also intimated accordingly. Inventory of the tenants was made as desired by the Board. The Board is to take further necessary action.

- (c) Remaining western part of listed slum No. 134 in G/Nort Ward. Plan for this area was under preparation for the purpose of making a preliminary survey of this area.
- (d) Old Kumbhar Chawl at Curry Road Low Level (F/South Ward). This area is a listed slum No. 105 in F/South Ward. After taking necessary preliminary steps, the area was declared as a Clearance Area by the Corporation vide C. R. No. 237 of 7th May 1971 to enable the Repairs Board to implement their scheme of Repairs and Reconstruction under the Board's Act. The Government and the Board were also intimated accordingly. Inventory of the tenants was made as desired by the Repairs Board. The Board is to take further necessary action.
- (e) Listed Slum No. 83, Mazgaon Road (Near Wallace Flour Mills), 'E' Ward. A Plan of this area was prepared for survey purpose and the preliminary survey of this area was made. As the area is partly reserved for reservation for expansion of J. J. Hospital etc. correspondence with the Bombay Building Repairs & Reconstruction Board in connection with further action to be taken was in progress.
- (f) Old Bengalpura at Lokmanya Tilak Marg (B Ward). This area is a listed slum No. 21 in 'B' Ward. After taking necessary preliminary steps, of preparation of plans etc., a proposal to declare this area as a 'Clearance Area' was put up to the Corporation. But the same was referred back for clarification on some points with regard to the working of the Bombay Building Repairs & Reconstruction Board in such schemes. Necessary remarks from the Board were awaited.
- (g) Parel Village at F/South Ward. This area is a listed slum No. 113 in F/South Ward. After taking necessary preliminary steps, a proposal to declare this area as 'Clearance Area' was submitted to the Corporation for approval. Corporation's decision was awaited.
- (h) Listed Slum No. 30 known as Tadwadi Area in 'C' Ward. Plan of this area was prepared and preliminary survey was made. Proposal with appendix report of the area for declaration as a 'Clearance Area' was under preparation.
- (i) Listed Slum No. 103 known as Kardoli Chawls in F/South Ward. Plan of the entire area was prepared and preliminary survey of the same and inventory of tenants thereat was made. Preparations of Draft proposal with appendix report was in hand.
- (j) Listed Slum No. 106 known as Ambewadi G.D. Ambekar Marg in F/South Ward. Plans for this area was prepared and preliminary survey of the same was made.

B.—Municipal Slums.

No. of slums cleared and development completed so far.	No. of slums under clearance and redevelopment in stages as on 31-3-1972.
24	3

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

No. of tenements Sanctioned till 31-3-1972	No. of tenements completed during the year.	Total No. of tenements completed upto 31-3-72	No. of New tenements started during the years.	No. of tenements in progress during the year.	No. of tenements not started	Remarks.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
6098	288	5110	330	370	618	...

'D'—Financial assistance of loan and subsidy received from Government under the subsidised clearance Scheme.

	Loan.	Rs.
Previously received upto 31-3-1971	...	1,27,93,893
Received during the year under report	...	...
	Total Rs.	1,27,93,893
Previously received upto 31-3-1971	...	1,51,03,418
Received during the year under report	...	...
	Total Rs.	1,51,03,418

I (G).—Municipal Material Testing Laboratory.

The following statement shows the Nos. of various samples tested in the M. T. Laboratory, Worli during the year 1971-72 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.	NO. OF SAMPLES ACTUALLY TESTED			Total Nos.
	Departmental Works	Government Works	Private Works	
Concrete	2121	3197	2082	7400
Bricks	598	245	36	879
Cement	69	6	9	84

STATEMENT NO. 2

Cost recovered on A/C Testing.

Particulars of Samples.	Cost of Testing actually recovered in Rs.			Total Rs.
	Deptt. Works	Govt. Works	Pvt. Works	
Concrete	Rs. 285.00	Rs. 15,985.00	Rs. 20,820.00	Rs. 37,090.00
Bricks	5,980.00	2,450.00	360.00	8,790.00
Cement	4,590.00	660.00	980.00	6,230.00
				52,110.00
Add. for Misc. Test and hre charges of Moulds.				3,119.00
			Total	55,229.00
Cost of testing of concrete and cement samples tested free of cost not recovered.				11,510.00
			Net cost of work done.	66,739.00

I (H).—Repairs Board Cell.

Two Assistant Engineers are in charge of this cell.

This cell has been created since May 1970 for doing such work as will help the five members representing the Corporation on the Board to play their role effectively and also to collect such information as they may need or giving effect to the provisions of the B. M. C. Act concerning the repairs actions as enunciated under Section 58 of the Bombay Building Repairs & Reconstruction Board Act 1969.

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

1. Preparation of agenda notes for Board's meetings. (14 Nos.)
2. Scrutiny of the proposals under Section 33 (3) of the Board's Act, (140 numbers) and the scrutiny the draft schemes submitted by the Board for reconstruction of Buildings (66 numbers).
3. Site inspection of the location of the Buildings which were to be undertaken by the B.B. R. and R. Board for structural repairs (1600 Nos.) These inspections were necessary to determine the admissibility of structural repairs to such buildings viz. a vis the D. P. reservations and the Road widening schemes.
4. Replies to interpellations, short notice questions and notices of motion by the members of the Corporation and in the different Committee meetings, 17 references during the period were replied.
5. Comments on the proposals referred by Building Section in the light of discussions that take place on certain individual cases in the Board's meetings.
6. Sending copies of the cases of repairs works administratively approved by the Board in their monthly meeting to city Ward Officers and Dy. C. E. Z. I. for information and for taking steps in case the work as seen to be executed is a deviation from the approved schemes.

II.—Construction Branch.

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

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

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

Particulars.	Completed work		Works in progress	
	Nos.	Actual cost	Nos.	Estimated cost
		Rs.		Rs.
1. Housing				
(a) Structures	...	5	3	
(b) Tenements	...	141	335	63,47,597
2. Buildings other than housing	2	3,08,531	4	30,98,196
3. School Buildings.	...	...	4	26,80,925

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

II.—(B) Road Construction Branch Zone I.

This branch is in charge of—

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

During this year 5 estimates for resurfacing city roads with cement concrete, 14 estimates for resurfacing roads with asphaltic concrete, 1 estimate for construction of new roads and 5 estimates for widening of roads were prepared.

23 tenders for road works were invited and 16 were awarded to the contractors for execution of the works.

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

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

Particulars	Completed works.		Works in progress.	
	Nos.	Actual cost	Nos.	Estimated cost
		Rs.		Rs.
1. Road resurfacing work in Asphalt concrete.	...	5	4	15,23,295
2. Road resurfacing work in cement concrete	...	4	2	7,29,592
3. New Roads	...	4	6	36,82,091
4. Road widening	...	3	4	8,92,539
		16	16	68,27,517

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

II.—(C) Drainage construction Branch Zone I.

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

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

Particulars	Completed works		Works in progress.	
	Nos.	Actual cost	Nos.	Estimated cost.
		Rs.		Rs.
1. Sewer works	...	2	6	22,33,501
2. Pumping Station	1	6,81,060
3. S. W. Drain	...	3	7	34,19,546
4. Miscellaneous	...	4	8	72,26,048
Total	...	9	22	1,35,60,155

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

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

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

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

(i) Colaba Purification Plant.

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

(A) Colaba Air Compressor Station and Ejectors in the Southern Part of Bombay.

(B) Afghan Church Pumping Station.

(C) Colaba Purification Plant.

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

(2) Complete over hauling work of electric motors of A and B Compressors and accessories and Power House was carried out in the month of April, May and July 1971.

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

(1) As the contractors failed to supply 4 sets of pinion gears and bevel gears for aeration Rows, fresh quotations were being invited to keep the material in stock for immediate replacement as and when necessary.

(2) Complete overhauling work of Power House at Plant and all the electrical equipments and units at Afghan Church Pumping Station was carried out in April 1971.

(3) Complete overhauling work of primary settlement tank No. 2 was carried out in the month of July 1971.

(4) M. S. cones No. 1, 2, 3 of Aeration Row No. 1 and 2 of Aeration Row No. 2 were replaced by new ones as the old cones were found corroded. This work was carried out from August 1971 to October 1971. Steps were being taken to manufacture 4 Nos. of new M. S. cones in Municipal Workshop or replacement of remaining four cones of Aeration Row No. 1 and 2.

(5) Complete overhauling work (i.e. realignment and regrouting of rails, replacement of M. S. trough by new one, replacement of vertical and horizontal 'C' Class 6" C. I. pipes etc.) of Final settlement Tank No. 2 was carried from November 1971 to February 1972.

(6) Complete overhauling work of 55 H. P. electric Motor of 'B' pump at Afghan Church and 25 H. P. electric Motor of 'D' pump was carried out in December 1971 and January 1972 respectively.

(7) Steps were being taken to keep at least 2 sets of C. I. driving wheels (4 Nos. of C. I. Wheels in each set) of the forward reverse trolley of detritus unit at Plant.

(8) New 95 teeth cast steel sprocket wheel was fixed to Aeration Row No. 2 in the month of January 1972 for trial purpose and found to be working satisfactorily. One more new sprocket wheel was kept in stores for standby purpose.

(9) Steps were taken to manufacture in Municipal Workshop 30 CM. New C. I. gates of self sustained type valves of common chambers of Primary Settlement tanks No. 1 and 2.

(10) New 125 M.M. C. I. pipe was got manufactured in Municipal Workshop and was replaced to 'D' pump suction pipe in the wet sump well in the month of February 1972 as the old C. I. pipe was found corroded.

(11) Steps were taken to keep in stock 38 C. M. C. I. pipes for rising main.

(12) Painting of the iron and steel material was undertaken at least twice in a year as there was lot of corrosion due to vicinity of Sea well as presence of H₂S in the surroundings.

The statement showing yearly and monthly figures of sewage, sludge and energy is given in Appendix No. 7.

(II) Love Grove Pumping & Purification Plant

Pumping Stations.

Pumping Station No. 1.—The vertical sulzer pumps as well as Vicker's Gill pumps were operated during the year. The two vertical sulzer pumps were in operation for 4713 Hours and 30 Minutes and two Vicker's Gill pumps for 2543 Hours and 30 Minutes during the administration year. The pumping station No. 1 pumped out 34290.80 m. l. of sewage water directly to Sea. 2119.10 cubic metres of silt and 57.737 cubic metres of screenings were removed from the Sewage.

Pumping Station No. 2.—Three pumps of Pumping Station No. 2 were operated during the year. They worked for a total of 15450 Hours and 15 Minutes during the year and discharged 117060.63 m.l. of sewage water during the year. Prior to pumping 135.84 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 cleansing the main sewers.

Purification Works

Detritus Plant.—Out of two units one unit was operated during the year and 689.38 cubic metres of screenings and 2499.45 cubic metres of silt were removed.

Treatment Plant.—The Primary settlement Tank No. 1 was commissioned on 16th August 1971 after carrying out complete repairs and replacement of the revolving M. S. frames and scrapers.

The Primary settlement Tank No. 2 was working throughout the year.

- (1) Total Sewage treated—15784.17 ml.
- (2) Raw Sludge pumped into Digestion Tanks—76665.65 x 1000 litres.
- (3) Digested Sludge removed—4750.57 x 1000 litres.
- (4) Gas generation—209703.00 Cubic metres.
- (5) Dried sludge manure sold—Nil.

Flood Gates.—The flood gates at L. G. P. Station, Cleveland Bunder and Dharavi were operated during the year.

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

- (1) Providing 8'x8' by pass duct to divert the flow of pumping station No. 2 to the flood gate chamber.
- (2) Gunning and painting with epoxy paint the main delivery duct from the by-pass chamber to a length of about 1000 feet including the replacement of 6' dia. pipe by 8'x8' duct across Dr. Annie Besant Rd.

The following new works were completed during the year at L. G. P. Station.

- (1) Providing new 6' dia. by pass line from the delivery chamber of the pumping station No. 1 to the floodgate chamber. The Pumping Station No. 1 was closed down for 8 days for completing the work of connecting the 6' dia. by pass line to the delivery chamber.
- (2) Repairs to R. C. C. structure of the bar screen prior to pumping station No. 2 was carried out.

The following major repair works were carried out during the year departmentally.

- (1) Making arrangements for providing coffer dams on either side of one bay of floodgates at Cleveland Bunder in order to isolate the same.
- (2) Complete overhauling and repairs to both flaps of the above referred flood gate.
- (3) Complete overhauling and repairs to the M. S. structure and scrapers of centre revolving mechanism and side racking arms.
- (4) Replacing the M. S. Guide channels of the bar screens prior to Pumping Station No. 2.

(III) Dadar Purification Works

General.—Sewage Purification Works of Dadar functioned satisfactorily throughout the year. Total quantity received and treated at the plant during the year was 25548.44 million litres with an average of 69.8 million litres per day as against 30650 million litres with an average of 83.90 million litres/day during the year 1970-71. Out of 69.8 million litres 18.26 million litres sewage was treated completely by secondary treatment.

Sewage Pumping Station.—During the year Dadar Pumping Station pumped 13693 Million litres of sewage as against 9838 million litres in 1970-71. Appendix No. 8 gives the salient features of operation of the Pumping Station during the year 1971-72.

Enclosed forced draft filter No. 1.—(11.35 million litres/day capacity). The filter worked fairly well throughout the year and turned out effluent having 63.1 ml./litres B. O. D.

Filter No. 2 and Filter No. 3.—(Capacity 4.08 million litres per day each). Filter No. 2 worked fairly well and turned out the effluent having 45.7 ml./litres B. O. D. Filter No. 3 was under repairs.

Sludge digestion tanks No. 1 & 2.—Both the units worked satisfactorily by generating 828672 cubic metre and 932154 cubic metre gas respectively as a by-product by digesting 199941600 litres of sludge. The gas generated was utilized as a fuel for domestic and commercial purposes. Total amount of revenue received by sale of gas amounted to Rs. 266807.18 as against 277947.83 during the year 1970-71.

Digested sludge dried on drying beds was removed as manure and sold to Messrs. Godavari Pravara Sahakari Kharadi Vikri Sangh Ltd. for Rs. 1084.00 at a rate of Rs. 4.50 cubic metre. Total quantity of the manure sold is 240.89 cubic metre. The total amount of Rs. 3911.55 was received during the year 1970-71 from sale of sludge manure.

Appendix No. 9 gives the complete statement of gas utilization.

Appendix No. 10 gives the complete data of treatment of sewage, addition and removal of sludge, total electric consumption and total expenditure.

Activated Sludge Plant.—Recently renovated activated sludge plant turned out the effluent of the best quality by aerating the Primary treated sewage in 24 aeration tanks. The Return Activated sludge pumps recirculated the sludge smoothly. The plant worked satisfactorily and turned out a good effluent having 8.00 mg./litre B. O. D. value. Appendix No. 10 gives the statistical and analytical data for the year under report.

New Works.—The work of expansion of the plan to give treatment to additional 5 m.g.d. sewage was started during the year.

The new works comprise the following additional units :—

- | | |
|--|--|
| (A) Primary settlement tank | Circular continuous flow type—1 No. 5 m. g. d. capacity 30.48 x 3.04 m. dia. |
| (B) Screening unit | Mechanically Raked, medium spaced—1 No. |
| (C) Detritus unit | Door Type, 40' x 40' x 4' depth 12.192 x 12.192 x 1.21 metre Capable of treating 22.5 m. g. d. peak flow to isolate 2.3. specific gravity and 100 m ³ grit.—1 No. |
| (D) Renovation of vertical sludge pump house and installing 3 Nos. of Reciprocating sludge pumps of 150 g.p.m. capacity. | |

Laboratory

The laboratory of Dadar sewage works carried out the routine analytical tests of sewage samples from different units of the plant as well as the sewage samples from Khar, Lovegrove and Dharavi.

The wall water samples were tested and certified for the use of concreting purpose for Drainage and Construction Departments.

Industrial waste water samples collected from different industries were tested."

Detergent analysis, foaming problem, chlorination, increase and decrease of mixed liquor suspending solids were also studied by carrying out experimental works in laboratory.

The analytical data and its averages (yearly) is given in Appendix No. 11.

Newly renovated Activated sludge plant was turning the effluent having B. O. D. 8.0 mg./litre and pumping 96 per cent, but filter No. 1 and 2 are turning the effluent having 8688 per cent, respectively.

(IV) Dharavi Purification Plant.

The performance the plans was satisfactory throughout the year sludge gas was supplies to the consumers and the supply was maintained even in rainy season to L. T. M. G. Hosp. by cutting the gas supply to private consumers, as the gas generation in rainy season is poor.

Screening Units.

This unit worked satisfactorily. The screen with mechanically operated comb was out of commission for want of major repairs.

Sewage Pumping Station.

Working of this station was satisfactory throughout the year. Total sewage of 22485.7 million litres was pumped. Appendix No. 8 gives salient features regarding operational performance of the pumping station.

Detritus Tank.

Both units worked satisfactorily.

Primary Settlement Tanks.

All the three primary tanks gave satisfactory performance.

R. C. Pumps and Filters.

The units worked satisfactorily but the filters were kept out of commission since September 1971 as the rods were required to be replaced.

Final Settlement Tank.

This unit worked fairly satisfactorily, but after september 1971, this unit was kept idle for replacement of sludge boxes, air-lift pumps, e.g.i. sheets etc.

Return Sludge Pumps.

Both pumps worked satisfactorily.

Sludge Pumps.

Centrifugal sludge pumps worked satisfactorily. Reciprocating pumps newly installed developed some manufacturing defects, which were being worked into by the manufacturers.

Digestion Tank and Gas Holder.

This unit worked satisfactorily.

Sludge Drying Beds.

The beds were not put into commission as the contractors were not available to purchase dried sludge manure.

Gas Generation and Consumption.

During this year average sludge gas generation was approx. 849.5 cu. metre/day. Total gas supplied during the year was 191733. cubic metres.

The revenue from this gas was Rs. 35253.97.

Appendix No. 12—gives the statistical data for the current year.

(IV) OTHER PUMPING & COMPRESSOR STATIONS.

The statement showing the details of Sewage quantity pumped, electrical energy consumed and its cost, during the year is given in Appendix No. 13.

The pumping and Compressor Stations and ejectors worked satisfactorily during the year.

At Salt Pan Pumping Station, only small capacity pumps of 8700 L. P. M. were being run as :—

- (i) The inflow is less.
- (ii) Running of larger capacity pumps creates overflow in the balancing chamber opp. King's Circle Railway Station.

The work of cleaning of sewer lines from this place onwards was taken up by E. E. D. C. (Z. I.) It is expected that the nuisance of overflow will cease after the completion of this work.

At Wadala Pumping Station, the Jyoti Vertical non-clog pump was being modified by making solid foundation for the pump. It is expected this would considerably reduce the vibrations and consequent wear and tear.

III.—MAINTENANCE OF MUNICIPAL BUILDINGS AND ROADS.

III.—(A) Municipal Buildings.

The total number of Municipal buildings in the City during the year ending 31st March 1972 was as follows :—

- (a) Housing—(i) Structures 1831 Nos. (ii) tenements 34,273 Nos.
- (b) Other Buildings—1,075, Nos.

The work of maintenance is classified under the major heads (1) Normal Repairs (2) Special Repairs and (3) New Works. Normal Repairs include works of monsoon repairs. Special repairs cover the works which are likely to increase the life of buildings or structures whereas the works of additions and alterations to the buildings as also those of providing additional amenities fall under category of new works.

The repairs and maintenance works at the Municipal properties were carried out either departmentally or through annual petty work contractors.

The total expenditure incurred on the maintenance of Municipal properties was Rs. 137,23,348.60, out of which an amount of Rs. 76,23,018.11 was spent on normal maintenance and an amount of Rs. 61,00,330.49 was spent on new works and special repairs works costing Rs. 59,74,409.04 were carried out Departmentally and works costing Rs. 77,48,939.56 were carried out through the annual petty works contractors. Total number of work orders issued to the petty works contractor was 1346. The budget wise break up of the total expenditure incurred on the maintenance of the Municipal properties is as under :—

	Expenditure on normal Maintenance.	Expenditure on New works and special repairs.	Total
	Rs.	Rs.	Rs.
Budget A	40,17,744.33	20,96,312.58	
Budget B	23,62,334.78	32,67,372.00	
Budget E	12,42,939.00	7,36,645.91	
Total	76,23,018.11	61,00,330.49	1,37,23,348.60

III.—(B) Road and Footpaths.

The total length of the roads in the City at the close of the year was 481.57 k.m. as detailed below :—

Sr. No.	Type of Roads.	K. M.
1.	Water bound Metalled Macadam	...
2.	Black Tapped	395.99
3.	Cement Concrete	78.66
4.	Sett paved	6.92
	Total	481.57

An amount of Rs. 33,72,112.55 was spent on repairs to potholes and carriage way during the year and 3,19,882.15 sq. metres of different types of road surfaces were improved departmentally at a total cost of Rs. 24,19,579.29 during the year as detailed below :—

Mode of improvements.	Area in sq. mt.	Expenditure
		Rs.
(a) Sheet Asphalt.	4,853	1,10,405.75
(b) Chip or grit on Asphalt Roads and	93,546	6,23,925.71
(c) Semi-grouting bituminous Roads	86,881.37	9,17,411.98
(d) Asphalt concrete.	18,314.00	1,88,997.07
(e) Surface dressing.	1,16,287.78	5,78,788.98
Total	3,19,882.15	24,19,529.49

As usual, an amount of Rs. 2,32,907.00 was paid to the Bombay Port Trust for cleaning and repairing the Port Trust Wharves and Roads.

III.—C—Miscellaneous Works in connection With roads and Footpaths.

(a) *Street Name Boards.*—The existing street name boards were repaired and maintained at a total cost of Rs. 8,435.73 and new boards were installed at a total cost of Rs. 7,247.41.

(b) *Maintenance of Public Monuments.*—All the statues were periodically cleaned and maintained at a total cost of Rs. 3599.78.

(c) *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. 45,803.21 for 3113.51 sq. metres added. The total amount of claims for compensation for setback land settled during the year was Rs. 18,17,751.27.

(d) *Benches.*—183 Benches on roads and footpaths were maintained.

(e) 14,323 M. of guard railings were maintained during the year.

III.—D—Road Rollers.

During the year there were 24 road rollers out of which 2 were petrol driven, 19 were diesel driven and 3 steam driven.

III.—E—Permits.

(a) *Opening of roads and footpaths.*—During the year 5812 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. 13,15,067.20. The total amount of road opening fees recovered was Rs. 2,89,636.15.

(b) *Occupation of Road 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. 399 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. 41,815.88 from permit holders. In addition 1280 permits were also issued for occupation of roads for erecting mandaps, placing chairs and benches etc. and the total amount realised therefrom was Rs. 41,355.37.

168 permissions for new bus shelters on roads and footpaths were granted.

III.—F—Asphalt Plant & Crushers.

The work of Asphalt Plant footpaths and Roads was continued during the year and footpaths and roads covering an area of 163773.00 sq. mtrs. were asphalted at a cost of Rs. 14,03,778.30. The details are shown in Appendix No. 14.

The Municipal hot mix Asphalt Plant at Worli was in operation throughout the year except during monsoon from 1st July 1971 to 31st October 1971. The Pegson Plant mixer worked for taking out Asphalt chip mixture and cold mixed materials required to fill in the potholes in the City and Suburbs. The labourers for running the Asphalt Plant were engaged departmentally.

An area of 148228.00 sq. Mtrs. (exclusive of pot holes measuring an area of 15545.00 sq. Mtrs.) of roads and footpath was repaired and renewed during the year as against 124834.00 sq. Metrs. repaired and renewed during the previous year.

Different roads measuring 4853.00 sq. Metrs. were repaired with 3" asphalt.

Capital roads measuring 50015.00 sq. metres were repaired by grit coats or chip coats. The seal coating and different miscellaneous work and measuring about 5513.00 sq. mts. were carried out by different modes of constructions.

Footpaths covering an area of 1972 sq. metres were asphalted with seal coat.

The hot mix plant worked for 290 days and remained closed for 75 days on account of rainy season, Sundays, holidays and breakdowns of plant.

The total expenditure for repairing the road surface, with 3" sheet Asphalt was chargeable to repair grant amounted to Rs. 11045.75.

An area of 43531 sq. metres was repaired by providing surface coat chip coat, grit coat etc. on grouted roads.

1985 tests were carried out in the asphalt plant laboratory on different asphalt mixtures. The total turn out by the main and pegson Plant were 7822180 Kg. and 3707150 Kgs. approximately. Appendix No. 15 shows the details of Asphalt plant production.

Crushers at Worli.

There are four crushers and one granulator at Worli out of which on an average two crushers were working during the year 1971-72.

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

The total output of both the crushers during the year was 3570.00 brass metal as against 3370.50 brass during the last year.

The value of stock at hand at the end of the year was Rs. 45146.61 at Worli Crushers.

Appendix No. 16 shows the Rubble Crushed and metal production during the year 1971-72.

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III.—G.—Public Street Lighting.

The total number of electric street lamps at the end of the year was 19,862 as against the previous year's 19,225.

The details of the different types of municipal lamps and All-In-Hire lamps are as shown below:—

Municipal lamps with wattages varying from 60 to 400.

Tungsten Filament	Mercury Vapour	Fluorescent	T. D. Bollards	Total
8460	793	150	447	9850

All-in-Hire lamps with wattages varying from 80 to 400.

Tungsten Filament	Mercury Vapour	Fluorescent	T. D. Bollards	Total
Nil	7,993	2007	Nil	10,000

Besides 19850 electric lamps, 12 policemen's spot lights were maintained during the year. In addition to 19862 lamps, 12 lights along Railway foot over bridges at Chowpatty, Byculla and Dadar were maintained by this department.

The following statement shows the electric energy consumed and expenditure incurred during the year under report.

	No. of lamps	Type of Lighting	Killo. watt	Total consumption K. Wt.	Expenditure Rs.
Municipal lamp	9,874	Electric	2,124.26	7,37,610	
All-in-hire ...	10,000	Do.	2,725.49	9,49,053	
Total ...	19,874		4,848.75	16,86,623	71,83,416.74

Additional expenditure was incurred on the following items of work.

	Nos.	Rs.
1. Erection of new lamps	649	30,866.58
2. Repairs and Maintenance	...	62,953.94
3. Work of improvement in street lighting	...	137,296.00

Additional expenditure of Rs. 40,848 was incurred on account of street lighting of 552 lamps maintained by the Bombay Port Trust Authorities in their docks, bunds and Cotton depots, by adjustment with the amount due from them in respect of General Tax of the year under report.

The work of lighting and maintenance of street lamps was carried out through the Bombay Electric Supply and Transport Undertaking for electric lights.

The statues of (1) Late Sir Pherozeshah Mehta at Bori Bunder (2) Late Vithalbai Patel at Chowpatty (3) Late Lokmanya Tilak at Chowpatty (4) Dr. Babasaheb Ambedkar at Band Stand on Mayo Road and (5) Hutatma Smarak at Hutatma Chowk (6) Swami Vivekanand at Gateway of India were flood lit with electric lights throughout the year under report.

The lights on 7 roads were provided with Tungsten Filament Lamp (Appendix No. 17 gives the names of roads.)

The lights on 43 roads were improved with fluorescent lamps (appendix No. 18 gives the names of roads)

The lights on 142 roads were improved with H. P. M. V. Lamps under All-In-Hire scheme (Appendix No. 19 gives the names of roads.)

16 junctions were improved with high pressure mercury vapour lamps under All-In-Hire schemes. (Appendix No. 20 gives names of junctions.)

22 Nos. of "60 watts Traffic Directional Ballards" were provided at 16 junctions during the year under report. (Appendix No. 21 shows the list of junctions).

Lights were provided in the gardens at the following locations.

- (1) Gowalia Tank Maidan.
- (2) North Brook Garden.
- (3) Hospital Lane D'Lime Street.
- (4) Five Gardens Dadar.

New Tungsten Filament Lamps were provided on 8th roads during the year under report. (Appendix No. 22 gives the names of roads).

Lights were provided in 8th Municipal Hutment Colonies under Improvement of Slums scheme during the year under report. (Appendix No. 23 gives names of colonies).

Pay and Park and Parking Facilities.

New pay & park has been introduced at Flora Fountain in traffic islands. Car park was provided in the Triangular traffic island at the junction of D. N. Road and Phalton Road.

Removal of Vehicles.

1054 No. of vehicles which were found under repairs or abandoned on road thereby causing obstruction to the traffic were removed to the Municipal custody under the provision of section 314 of the B. M. C. Act 938 vehicles were retrieved by the parties concerned on payment of usual charges 56 vehicles which were removed to the Municipal custody during the period from 1st January 1970 to 31st December 1970 but not retrieved by the parties concerned on payment of usual charges within a reasonable period were disposed of by sale under the provision of section 490 of the B. M. C. Act. The total amount realised by sale was Rs. 49,029.00

III (H)—Traffic.

The work of constructing traffic islands, central dividers, R. C. C. railings were carried out on various roads. (Appendix No. 28 shows the names of roads).

Automatic Traffic signals were installed at Six locations at a total cost of Rs. 2,88,174.37 (Appendix No. 25 gives names of locations).

Appendix No. 26 shows the names of roads on which the regular lines were prescribed under Section 297 of the B. M. C. Act.

Graph showing progress of the work is given in Appendix No. 27.

III—(I) Improvement of Private Streets.

1. The private Street section (City) was in charge of the Dy. City Engineer Zone I during the period under report.

2. Action under Section 305 of the Bombay Municipal Corporation Act was taken to improve the private streets.

3. The details of action for the improvement of Private Streets at 3 localities are given in Appendix No. 28.

4. No Government passages were taken over for the improvement and maintenance during the year under report.

5. Improvement work of the two private streets—(1) Private street from Dr. E. Moses Road (Hains Road) to Stores Depot of Western Railway, (2) Private Street off : Dr. S. S. Rao Road (Government Gate Road leading to Rajkumal Studio) were completed. The Accounts in respect of these private streets were yet to be verified by the Chief Accountant. Both the streets were improved at the cost of the frontagers without the resorting to action under Section 305 of the Bombay Municipal Corporation Act. (Appendix No. 29) The private street near Strand Cinema and the private street in Newnagar off : Dockyard Road were also completed during the year under report.

6. Notices under Section 305 of the Bombay Municipal Corporation Act were served against the owners of the premises fronting or adjoining the following 5 private streets—(1) Private Streets in Tokarsey Jivraj Adda, Off: Tokarsey Jivraj Road, Sawri (2) Private Streets in Sunderjee Liladharwadi, Sawri; (3) The private street between Chinchpokli Cross Lane and Divalu Prabhu Wadi near Palitaji Chawl (4) Private Street between Kaladwadi and V. P. Road and (5) Private Street off : Bhulabhai Dasi Road leading to Divalderwar Temple. The works in respect of Sr. No. 1, 4 and 5 were in progress. The work in respect of Sr. No. 2 and 3 was proposed to be carried out under Section 469 of the Act (Appendix No. 30).

7. The work of improvement of passages in private holding were not undertaken during the report under reference.

8. Recoveries in respect of Improvement of private streets including deposits, interest etc. From the frontagers of the streets, for the works carried out in the past and proposed to be carried out amounted to Rs. 48,101.00 during the year under report as against Rs. 11,793.46 during the previous year.

9. No occasion arose to declare the expenses incurred by the Corporation as improvement expenses under Section 494 of the Act.

10. No new references under Section 503 of the Act were filed before the Chief Judge of Small Causes Court during the year under report.

11. Leave to appeal to Supreme Court was granted in six Municipal References dismissed by the Divisional Bench of the High Court as shown in Appendix No. 31.

12. No private street was declared public during the year under report.

13. In five cases the preliminary action to Improve Private Streets under Section 305 of the Act was started during the year under report (appendix No. 32).

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	12,08,926.60	8,894.24
(2) Pipe Sewers.	2,97,966.17	3,864.09

Repairs to manholes and gratings of water entrances :—

The statement below shows the details of the work done :—

	Total No.	Total Cost. Rs.
(1) Repairs to manholes.	67	7,601.18
(2) Replacement of gratings.	5908	9,15,248.70
(3) Removal of vent shafts.	16	7,287.65

Street Connection.—During the year 86 street connections of the buildings were made to sewers.

Requisition in respect of house drains.—4331 Requisition under various Sections of the Act were issued against house owners for rectifying drainage defects.

Biological installation at Banganga.—An amount of Rs. 11520 was spent on maintenance work carried out at the Biological installation at Banganga. 68.72 M. Tonnes of sewage was treated at the Biological installation at Banganga during the year.

V.—Private Buildings Constructions (City).

Building Proposals.—1063 proposals were received during the year. Out of these 401 were under Section 337 of the B. M. C. Act for construction of new buildings and 662 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 358 and 709 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	40
(b) Co-operatives Societies	12
(c) Employers for their employees	20

The details of the tenements constructed by Private parties are given in Appendix No. 33.

The number of proposals for non-residential buildings received during the year under report was 98.

Building Collapse.—150 buildings or portion thereof collapsed during the year as against 170 buildings during the previous year. 126 Persons were injured and 49 were killed as a result of these collapses. The estimated damage to property was Rs. 5,46,520.

Actions under relevant Sections of the Municipal Act.—9416 Notices were issued during the year under different Sections of the Municipal Act, 3288 Notices were complied with during the year and 5113 were still pending compliance at the close of the year.

Removal of unsafe Building.—145 unsafe buildings or portions were removed departmentally under Section 489 of the Act as against 99 removed in the previous year. The following table shows comparative figures for the two years:—

	1970-71	1971-72
(1) No. of actions taken departmentally,	348 Nos.	540 Nos.
(2) Expenditure incurred.	Rs. 3,18,805.67	Rs. 5,07,605.73
(3) Irrecoverable expenditure	Nil	Rs. 22,823.47

Authorities granted under Section 499 of the Act.—252 Authorities were granted under Section 499 of the Act to carry out repairs to buildings. The No. of tenants who took advantage of the same was 5595.

Unauthorised structures.—During the year 1144 unauthorised structures were detected in the city. In addition 260 cases of previous year were pending disposal. Unauthorised works in 168 cases were removed by parties themselves while in 237 cases the unauthorised works were removed departmentally under Section 52-A of the Act.

Complaints from the public.—62451 Complaints were received from the public during the year as against 47068 complaints during the previous year. Out of these 52576 complaints were looked into and disposed of and action on 9875 complaints was in progress 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 applications received.	908
2.	No. of applications disposed of.	797
3.	No. of applications undisposed of.	111
4.	No. of new permits issued.	806
5.	No. of old permits renewed.	1862
6.	No. of prosecutions launched.	1756
7.	No. of prosecutions decided in favour of the Corporation.	1287
8.	No. of prosecutions pending.	626
9.	Amount of fine recovered.	Rs. 28,252
10.	Total Revenue collected.	Rs. 4,52,841.38

VII—MECHANICAL BRANCH.

Municipal Workshops.

During the year under review, the Municipal Workshops received 4036 fresh jobs. Total number of jobs, including some pending from the previous years, was 3733. The total expenditure on the departmental works amounted to Rs. 13,14,734.00. The up-keep and the overhead charges amounted to Rs. 1,59,551, which worked out to 15.18% of those incurred on labour and stores. The labour strength during the year was about 440 and there were 257 working days during the year."

In the machine shop, besides the day-to-day maintenance and the repairs work, various types of other work such as manufacture of a number of impellers, repairs and complete overhauling of large sized Sewage Pumps, pump Casings, manufacturing of large shafts of stork Pumps of L. G. P. Station and Booster Pumps of sister departments, repairs to the steel furniture of the hospitals were carried out. In addition, various types of Brass spindles, studs and brass bushes were also manufactured.

In the Boiler shop, the manufacture of refuse bins, and wheel barrows of the Conservancy Department was the major job carried out throughout the year. Also a number of old refuse bins and wheels barrows were repaired. These refuse bins were manufactured out of old asphalt drums. In addition to this a number of steel hand carts of various sizes were manufactured, and supplied to various departments. Also this section attended to repairs works such as, repairs to pump casings, screening apparatus, overflow weirs of purification works, sliding chutes, road roller wheels, Tar Boilers and aeration cones.

In the Carpentry shop, in addition to usual works of repairs, and polishing to chairs and tables etc. the work of manufacturing of Cash counters and Special types of cabinets was carried out. Also wooden hand carts and spare wheels for the road department and wheel barrows required for the Conservancy Branch were manufactured and supplied.

In the Foundry Shop, besides normal production of ferrous and non-ferrous castings, special types of castings, such as pump casings, impeller, wearing rings, bearing houses, special C. I. distant pieces were also manufactured. Scheduled castings required by C. S. were also supplied. Dirt Boxes of metres and meter covers were also supplied, to Water Department. A detailed report is put up below.

In the Paintshop, besides the day-to-day work of painting of name boards of various Municipal Departments, the work of painting Municipal vehicles, hospital steel furniture, wooden hand carts and wheel barrows was carried out.

During the year the following additional works were carried out.

- (1) Installation of a lathe machine, a grinder, Hack-saw machine, plate cutting machine received from the K. E. M. Hospital.
- (2) Complete overhauling of the travelling crane mechanism including testing of the crane working
- (3) General cleaning of all shops and disposal of M. S. scraps and other obsolete articles.
- (4) Manufacture of a dewatering pump required for Sewage Purification Works. The pump was tested at L. G. P. Station and found to be working very satisfactorily.
- (5) Additional lighting arrangement was provided in all shops.

Regarding labour welfare, it may be stated that there were no labour problems such as Strikes, temporary stoppage of works, etc. and the management handled all problems in consultation with the Union Leaders and the labour staff efficiently.

MUNICIPAL FOUNDRY.

In the year 1971-72, we received about 230 jobs from our Workshop and other departments for supplying different kinds of Castings. Also 6 work orders were received from C. S. for supply of 600 Nos. of C. I. manholes complete and 19 work orders from other departments for supply of 184 Nos. of manholes complete.

Out of 230 jobs received during the year this section has completed 195 jobs and 50 jobs from the year 1970-71, we have supplied to C. S. and other departments 780 Nos. of C. I. manholes complete as again a guarantee of 720 Nos. per year.

The rates for different types of castings were sanctioned by M. C. for the year 1971-72 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 accompanying Appendix No. 34.

Many intricate castings (special Type), Ferrous and Non-Ferrous, were manufactured, like pump casing, closed type impellers, housing, suction pipe, and large wearing plate.

The quantity and soundness of the product was upto the mark.

Our rates also compared more of 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 type of mechanical jobs. It also executes all out door mechanical jobs such as repairing collapsible gates, Rollings Shutters, storage tanks, water pumps, gymnasium apparatus etc.

The following important items were carried out during the year under report:—

A. Drawings estimates, and specifications were drawn for following important works:—

- (1) Manufacturing modern types of play apparatus in various municipal gardens.
- (2) Rag incinerator in Kasturba Hospital.
- (3) Fountain at Rajawadi, Ghatkopar.
- (4) Strengthening of steel pillars at New Dadar Market.
- (5) Layout plan of crusher unit at Asphalt Plant.
- (6) Wooden counter for family planning Section at K. E. M. Hospital.
- (7) Fountain at Mazgaon T.T.
- (8) M. S. cages for wild animals at V. J. B. Udyan, Byculla.
- (9) Fountain at Mulund.
- (10) G. I. ducting and exhaustor at M. P. Press.
- (11) Fountain at Veer Kotwal Garden.

B. Following important works were carried out during the year:—

- (1) Repaired G. I. wire fencing at the Central hedge at Marine Drive for a length of about 600 Metres
- (2) Repaired filter beds at M. G. M. O. Pool, Shivaji Park.
- (3) Provided one high pressure pumping set at Kasturba Hospital.
- (4) Repaired one floodgate at Cleveland Bunder.
- (5) Provided one 100 lbs. package type boiler at K. E. M. Hospital.

Steam pipe line and allied works were in progress.

- (6) Annual survey and repairs were carried on Steam boiler at Kasturba and K. E. M. Hospital work at G. T. B. Hospital was in progress.
- (7) Repaired final settlement tank at Colaba Purification Plant.

C. Following genera' works were carried out:—

- (1) Repaired 198 Nos. of storage tanks.
- (2) Repaired 62 Nos. of Rolling Shutters.
- (3) Repaired 105 Nos. of Gates.
- (4) Repaired 610 Nos. of Steel windows.
- (5) Polishing of wooden furniture to the extent of Rs. 3,800/- was carried out through contractors

During the year Seven tenders and 44 sealed quotations were invited and 149 estimating amounting to Rs. 7,18,692 were submitted, 168 Nos. new drawings, 132 Nos. re-tracing and 70 sketches were drawn, 1500 Blue-Prints were taken.

In total 1380 out door jobs were carried out costing about Rs. 4,03,400/-

MUNICIPAL POWER LAUNDRY.

Municipal Power Laundry rendered washing service to 43 medical institutions of the Corporation during the year 1971-72.

During the year the Laundry washed 5604301 linen of 43 institutions. The rate of washing was fixed at Rs. 25/- per 100 pieces of linen.

To augment the capacity of washing the work of installing two additional washing machines and one Hydro-extractor in the Laundry, (Entrusted to M/s. R. Dilip & Co.) was in progress.

During the year the proposal for the extension of Laundry bay was approved by the Corporation and the work order was issued to P. W. C. through ward Officer F/South to carry out the work.

In order to supply cold water for drinking purposes to the Laundry staff, the water cooler was installed in the Laundry premises.

Similarly in order to overcome the wastage of time of the staff Inter-Com telephone arrangement was provided in the Laundry Office.

VIII—ELECTRICAL BRANCH.

The activities of the different sections of the Electrical branch, during the year under report were as under:—

1. *Planning and Design Section*:—This section deals with the preparation of estimates and invitation and recommendation of tenders for electrical works in the newly constructed Municipal Building, under the Loan Works programme in the city and suburbs.

During the year some of the tenders were invited jointly with the civil tenders for synchronisation of both electrical and civil works.

In all 37 estimates amounting to Rs. 18,11,214.00 were proposed, 41 draft-tenders finalised and 36 tenders invited and 29 tenders amounting to Rs. 14,79,726 recommended as detailed in Appendix No. 35.

2. *Building Construction Section*—This section supervises the execution of the works for which contracts are awarded by the Planning and Design section.

There were 10 contract works amounting to Rs. 5,96,339 completed and 5 works amounting to Rs. 8,75,544 in progress during the year as given in the Appendix No. 36.

3. *Plant and Machinery Section*:—This section carries out repairs and maintenance of electrical machinery and electrical works in the existing municipal properties in the City.

There were 1034 work orders received from the various departments for execution of electrical works, out of which 681 jobs amounting to Rs. 2,95,141 were carried out departmentally and 275 jobs amounting to Rs. 6,75,950 were carried out through contractors and 78 estimates amounting to Rs. 5,34,941 prepared during the year under report as given in the Appendix No. 37.

4. *Ward Maintenance Section*—This section carries out electrical works in the existing Municipal properties in the city other than those looked after by the Plant & Machinery Section.

There were 270 estimates amounting to Rs. 43,21,150 prepared and 219 works of electrification, providing pumping sets, starters etc providing electric fans and fittings and providing sound systems were carried out by inviting tenders quotations as detailed in the Appendix No. 38.

5. *Refrigeration Section*:—This section is entrusted with the preparation of estimates, invitation of quotations and tenders, recommendation of tenders, preparation of contracts, supervision of contracts, works for purchase and installation of new Air-conditioning and Refrigeration machinery under the Loan Work Programme as well as under the Revenue Budget. Moreover, the works pertaining to repairs, maintenance serving of existing machinery is also looked after by this Section for the Greater Bombay area.

The type of equipments looked after by this Section are (i) Central Air Conditioning Plants (ii) Packaged air conditioning Plants (iii) Window units (iv) Cold storage plant (v) Mortuary Plants (vi) Walk-in-coolers (vii) Deep freezers (viii) X-Ray developing tanks (ix) Water Coolers (x) Refrigerations. The equipment is installed mainly in the Hospitals, Mat. Homes Dispensaries, Auditoriums, ward offices, Markets, Schools etc.

There were 13 estimates amounting to Rs. 19,03,610 prepared and 75 tenders amounting to Rs. 21,25,208 were invited as given in the Appendix No. 39.

Planning & Construction for Mechanica and Electrical works for Drainage installation and swimming pools, (Pumping and Purification works) in City in the charge of E. E. Mech. (N. & P).

Name of the work.	Remarks.
1 Construction of a pumping station at Church Street and Dockyard Road.	Tenders were invited and recommended.
2 Robert Road Pumping Station Colaba.	Specifications were reframed and the tenders were being reinvited.
3 Construction of pumping Station at Oval Maidan in lieu of existing ejector at Churchgate Station.	Specifications and estimates were under preparations.
4 Supply and installation of one stand by pump at Mahatma Gandhi Memorial Olympic Swimming Pool, Dadar.	Tenders were received and were under scrutiny.
5 Additional treatment for 22.5 M. L. D. Sewage at Dadar Purification works.	The Civil work was in progress.
6 Supply and installation of one additional pump at Jacob Circle Pumping Station.	Pump set was awaited.
7 Proposed electrically operated flood gates at Dharavi.	Specifications and estimates were under preparation.

IX.—TRANSPORT BRANCH.

The Transport Branch is entrusted with the maintenance, and operation of vehicles for all municipal departments. There were 325 vehicles in the city fleet by the end of the year under report.

These vehicles were used for rendering various civic services as shown below:—

Name of the service.	No. of vehicles.
1 V. I. P. Cars, Staff Cars & Committee Buses.	19
2 Health Services.	
(a) Ambulance/Hearses	37
(b) Mobile Health Unit	7
(c) UNICEF vehicles.	9
(d) Blood Bank.	1
(e) Pest Control.	6
(f) Food sampling.	1
(g) Air Pollution'	1
(h) R. P. T. B. Hospital.	1
3 Conservancy Services	
(a) Refuse removal.	37
(b) Cesspool Services.	5
(c) Dog vans.	2
4 Water Works.	
(a) Fire Vans.	12
(b) Maintenance Trucks.	11
(c) Water sampling.	1
(d) Leakage detection.	1
5 Meat Van Service.	
(a) Meat-Vans.	30
(b) Raid-Vans.	1
(c) Offal Vans.	8
6 Encroachment removal service.	14
7 Administrative Services.	
(a) Cash Vans.	8
(b) A & C's Distress Warrant services.	5
(c) Dispatch Vans.	3
(a) Distribution of M. S. Agenda.	4
8 Miscellaneous Departmental Services.	
(a) Ward & departments Trucks.	34
(b) School Buses.	7
(c) Biscuit Vans.	5
(d) PRO's Van.	1
(e) Traffic and Co-ordination departments vehicles.	7
(f) Cattle Vans.	5
(g) Asphalt Trucks.	13
(h) Silt Vans.	5
(i) Drainage deptts. vehicles.	4
(f) Pumping stations vehicles.	3
(k) Break down and general duty vehicles.	12

During the year under report 19 old & unserviceable vehicles were scrapped and sold.

Stores:—Spare parts and accessories required for the city and suburban transport fleet were purchased by the central transport stores at Nimkar Marg. The total purchases made during the year were of the order of Rs. 6 lakhs.

Working of garages—The overall efficiency of the fleet was maintained between 80% to 85% throughout the year. The average efficiency of different garages is shown against each of them below:—

Name of the Garage.	% of efficiency.
1 Motor repairs shop at Nimkar Marg.	87% to 90%.
2 Ambulance garage at Sane Guruji Road.	80% to 85%.
3 D. Ward Garage at Annesly Road.	84% to 90%.
4 G/North Garage at Dadar.	84% to 91%.
5 Agripada Garage at Scuter Street.	78% to 82%.
6 Prabhadevi Garage.	85% to 88%.

The department earned income of Rs. 79,57,850/- by way of transport charges from different users of these vehicles.

Bull Dozers for Dozing, Levelling & Pressing Refuse at Dumping Grounds.

During the year Corporation has purchased 3 Bull Dozers at a total cost of Rs. 5,86,520/- and these have been commissioned from 1-11-71 for dozing, levelling, pressing refuse etc. at Dharavi Dumping Ground.

X.—Conservancy Branch

Conservancy Branch along with Transport and K. D. Railway continued to be under the charge of Dy. C. E. (M. & C.)

Collection of Refuse.

All the Public Roads, footpaths and house gullies were cleaned daily and quantity of refuse and other waste matter removed during the year was approximately 5,59,500 tonnes, average per day being 1533 tonnes.

The refuse collected during street cleaning operations as well as from the residential premises was regularly removed by engaging necessary mechanical traction.

Transportation of Refuse.

As the municipal fleet was found inadequate, 77,708 vehicles shifts hired from the Contractors were utilised for transporting about 70% of the refuse. The remaining refuse was removed by municipal traction.

Disposal of Refuse.

The final disposal of refuse was carried out by reclaiming low lying land at Deonar and also at Dharavi.

Collection, Removal and Disposal of Night Soil.

There exist 824 Basket privy seats as against 888 for the previous year in F & G Wards. 64 Basket Privy seats were either demolished or converted during the year. Collection, removal and disposal of Night Soil was carried out by engaging on an average 7 cesspool lorries working in 2 shifts per day.

The Night Soil and cesspool contents were disposed of at Dharavi Night Soil Depot.

Cesspool Clearances.

During the year under report 207 cesspools were attended to and approximately 1,32,300 litres per day cesspool contents were removed.

Public and Private Latrines and Urinals.

The total number of Public Latrines was 153 having 658 seats. Total number of urinal stalls was 686.

Prevention of Nuisance.

During the year 3,789 cases were made for urinating and throwing refuse on public roads under Section 115 of the Bombay Police Act.

Removal and Disposal of Dead Animals

Dead animals from the City were removed to Deonar by the Contractor.

Conservancy and Special Halalkhore Service.

These services were rendered to circuses, exhibitions, Big concerns, Industrial Establishments, etc. on payment of scheduled charges. An amount of Rs. 4,74,078.11 was received for rendering conservancy service and Rs. 471.31 was received on account of Special Halalkhore Service. Charges for cleansing Government Foreshores recoverable during the year came to Rs. 1,59,786.00.

Dog Licensing and Destruction Work.

The work of licensing Pet Dogs as well as capturing and destroying stray dogs was carried out throughout the year. During the year under reference 77% pet dogs were licensed, 13,973 stray dogs were captured and 65 dogs were voluntarily destroyed.

Conservancy Staff Quarters.

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 entitled to free housing about 60% staff have been provided with housing accommodation. In addition to 4152 tenements available for housing during the previous year 110 new tenements were made available for housing Conservancy Staff during the year under report.

LABOUR WELFARE.

There are 12 welfare centres working for the benefit of Conservancy Employees at following Municipal Chawls.

- | | |
|---------------------|---|
| (1) Cochin Street | (7) Tank Pakhady. |
| (2) Sukhlaji Street | (8) B. I. T. Chawl No. 12. |
| (3) Annesly Road. | (9) Chinchpokli New Chawl, Shish Mehal. |
| (4) Haystack Road. | (10) Prabhadevi Chawls. |
| (5) Approach Road. | (11) Dadasaheb Phalke Road. |
| (6) Jail Road. | (12) Kasarwadi Chawls. |

Co-operative Credit Societies, for Labour.

There were in all 12 Co-operative Credit Societies with an aggregate membership of 5877 members for the benefit of the Labour Employees of this branch. The share capital subscribed was Rs. 38,30,937.50. The working of the Co-operative Credit Societies was satisfactory.

Expenditure on Conservancy Services.

The total expenditure incurred on conservancy services was Rs. 3,34,59,770.

XI—DEVELOPMENT BRANCH.

During the year under report, some proposals received from the Government under Section 37 of the Maharashtra Regional and Town Planning Act, 1966, giving directives for modifying the development plan were forwarded to the Corporation.

With a view to modifying the Development Plan in cases of discrepancy, and on representation from the owners and councillors some proposals for modification of reservation under Section 37 as also for deletion of the reservations under Section 50 of the M. R. & T. P. Act, were approved by the Corporation and forwarded to the Government for according their sanction to be the modifications of Development Plan.

Certain proposals for modification of the Development Control Rules were forwarded to the Government 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.

During the year under report, the sanctioned Development Plans of suburban wards were got printed and the same were being sold to the members of the public and architects through ward offices. Development Rules as modified up-to-date were reprinted and being sold to the members of Public and Architects through the Public Relations Officer.

ACQUISITION OF LAND.

Possession of 4 properties was obtained through Land Acquisition proceedings and 1 property was acquired by negotiations. Awards were made by special Land Acquisition Officer in respect of 7 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 9 properties. Set back land rates in respect of 13 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 37 Municipal properties was fixed.

XII—TOWN PLANNING SCHEME.

Within the limits of the City proper, there are 4 Town Planning Schemes as under:—

1. Town Planning Scheme Bombay City No. I. (Mandvi and Elphinstone Estate).
2. Town Planning Scheme Bombay City No. II. (Mahim Area).
3. Town Planning Scheme Bombay City No. III. (Mahim area).
4. Town Planning Scheme Bombay City No. IV. (Mahim area).

All these are finalised Town Planning Schemes and works included in these finalised Schemes have been to a considerable extent completed except in respect of Town Planning Scheme Bombay City No. I. The Main reason for non-completion of works is that the area is heavily encumbered which is also the reason for non-completion of all the works in other schemes, there being no adequate alternative accommodation to offer to the persons likely to be dishoused.

Out of the above mentioned 4 Town Planning Schemes the last one has already been declared for variation and the draft Scheme (1st variation) has been submitted to Govt. for sanction in 1969. Sanction was still awaited at the end of the year.

The Town Planning Schemes at Sr. No. 2 and 3 have been declared for first variation. The ward Offices in charge of implementation of the Schemes have taken necessary action in the matter as shown below:—

Implementation of Mandvi and Mahim Town Planning Schemes.

- (a) No. of plots taken by the Corporation—11
- (b) No. of plots handed over to the owners.—1.
- (c) Total expenditure incurred on T. P. Scheme Works—Rs. 33,56,198.77.
- (d) Amount of contribution charges collected —Rs. 9,35,951.05.

SUBURBS AND EXTENDED SUBURBS.

A—PLANNING BRANCH.

During the year, this branch prepared plans and estimates in connection with different works pertaining to buildings, bridges sewars S. W. Drains etc.

A.—(a) Planning (Architectural).

Particulars.	General Building Works.	Housing in Greater Bombay.
(i) Contract Plans.	135	Nil
(ii) Cloth Tracing	20	Nil.
(iii) Paper Tracing.	362	Nil.
(iv) Blue Print Copies.	6988	Nil.
(v) Block Estimates.	24	2
(vi) Total amount of Block Estimates	Rs. 3,02,35,340/-	Rs. 4,42,24,200/-
(vii) Detailed plans and estimate completed in all respects (as shown below).	33	2
(viii) Total amount of detailed estimates.	Rs. 1,96,82,471/-	Rs. 48,26,321/-
(ix) No. of tenders invited.	27	8
(x) No. of Contracts awarded.	15	8
(xi) Details estimates in hand.	11	1
(xii) Total approximate cost of detailed estimates in hand	Rs. 1,09,00,000/-	Rs. 16,00,000/-

Particulars of detailed plans and estimates completed in all respect referred to above:—

Particulars.	No. of estimates.	Estimated cost.
(a) Schools (Permanent)	18	Rs. 1,27,62,052/-
(b) Schools (Temporary)	Nil.	Nil.
(c) Centralised Ward Offices.	Nil.	Nil.
(d) Markets.	1	Rs. 11,88,275/-
(e) Hospitals, Maternity Homes and Dispensaries.	6	Rs. 35,23,035/-
(f) Miscellaneous	8	Rs. 22,09,109/-
Total:—	33	Rs. 1,96,82,471/-

(A)—(b) Planning (Bridges).

Particulars.	
I—Contract Plans.	3
II—Cloth Tracing.	Nil.
III—Paper Tracing.	10
IV—Blue Print Copies.	40
V—Block Estimates.	1
VI—Total amount of Block Estimates. ... ..	...Rs. 3,00,000.00
VII—Detailed plans and estimates completed in all respects.	1
VIII—Total amount of detailed estimates. ... ..	...Rs. 3,00,000.00
IX—No. of Tenders invited	Nil.
X—No. of works instructed to the Railways	3
XI—Detailed estimates in hand.	1
XII—Total cost of detailed estimates in hand. ... ..	...Rs. 60,00,000.00
XIII—Scrutiny of plans received from:—	
(a) Railways.	2
(b) Private parties.	1
XIV—Scrutiny of estimates received from Railways.	3

I—(c) Planning (Sewers and storm Water drains).

The abstract of work done during the year is as follows:—

Particulars.	
(i) Contract Plans	349
(ii) Cloth Tracing	12
(iii) Paper Tracing	61
(iv) Blue Print Copies	613
(v) Block Estimates	17
(vi) Total amount of Block Estimates ... ..	...Rs. 1,32,32,414.00
(vii) Detailed plans and estimates completed in all respects (As shown below).	37
(viii) Total amount of detailed estimates. ... ..	...Rs. 1,95,85,675.00.
(ix) No. of Tenders invited	50
(x) No. of Contracts awarded.	37
(xi) Detailed estimates in hand.	37
(xii) Total approximate cost of detailed estimates in hand. ... ..	...Rs. 2,13,00,000.00

Particulars of detailed plans and estimates completed in all respect referred to above:—

Particulars.	No. of estimates	Estimated cost Rs.
(a) Sewers	37	1,95,85,675/-
(b) Storm Water Drains	28	1,28,00,000/-
(c) Pumping Stations	1	15,00,000/-

(B).—DEONAR ABATTOIR.

During the year under report, the ABATTOIR at Deonar which is the first largest mechanised slaughter House in India was put into commission from 16th August 1971, the day on which the pig Slaughter House started functioning. The remaining slaughtering units were also put into commission progressively. The various units were smoothly functioning supplying and wholesome and hygienically cleaned meat to the consumer. The expenditure incurred on the project upto 31st March 1972 was Rs. 3 crores approximately out of which Rs. 52 lakhs were spent during the year under report.

The Works completed and those in progress during the year under report are listed in Appendices No. 40 and 41.

(C.)—CONSTRUCTION BRANCH.

(i) Building Construction Branch Zones II & III.

The Building Construction Branches of Zone II and Zone III supervise the works of building construction after award of contracts by the Planning and Design Branch.

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

Particulars	COMPLETED WORKS.		WORKS IN PROGRESS.	
	Nos.	Actual cost Rs.	Nos.	Estimated cost Rs.
(1) Housing				
(a) Structures	2	29,93,113.56	6	61,22,208.09
(b) Tenements	415		682	
(2) Building other than housing.	6	13,14,067.61	24	3,10,64,591.41
(3) School Buildings.	2	6,99,710.20	11	94,39,499.07

The statement showing the works completed and works in progress appear in Appendix No. 42.

(ii) Road Construction Branch Zone II & III.

The branch attends to the following works:—

(a) Preparing plans and estimates for resurfacing of existing roads construction of new roads, widening of roads and improving private streets and construction of open storm water Drains.

(b) Invitation of tenders and awarding contracts of road, S. W. drains Annual petty works and roads and S. W. Drains and annual repairs, petty drainage and anti flood works.

(c) Supervision of road and S. W. Drain works.

During the year this branch has prepared 69 plans and estimates and invited 74 tenders.

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

Particulars.	COMPLETED WORKS		WORKS IN PROGRESS	
	Nos.	Actual cost. Rs.	Nos.	Estimated cost Rs.
(1) Construction of roads and S. W. Drains of roads				
Zone II	17	59,23,000	8	53,66,276
Zone III	18	68,27,896	22	1,40,12,885
(2) Resurfacing of roads with Asphaltic or Cement concrete				
Zone II	1	3,13,084	1	16,69,660
Zone III	1	10,07,849	1	1,33,715
(3) Improving private Lanes.—Zone II	Nil.	Nil.	Nil.	Nil.
Zone III	1	76,507	1	1,26,168
Total	38	1,41,48,336	33	2,13,08,704

The statement showing the works completed and those in progress appear in Appendix No. 43.

(iii) Drainage Construction Branch Zone II & III.

This branch is in charge of Providing and Laying underground, Sewers, training of nallas and construction of Pumping Stations. This branch attends to the work of execution and supervision of these works after contracts are awarded by the Planning & Design Branch.

As anti-flood measures, several works of training of nallas have been taken up and are in progress. These works will give considerable relief to the adjoining localities especially in the monsoon period.

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

Nature of work.	COMPLETED WORKS.		WORKS IN PROGRESS	
	Nos.	Actual cost Rs.	Nos.	Estimated cost Rs.
(1) Sewer works				
Zone II	12	18,76,884	34	1,25,24,376
Zone III	4	5,07,154	10	38,40,424
(2) Pumping Stations.				
Zone II ... ..	...	...	1	20,00,000
Zone III ... ..	...	...	1	12,18,960
(3) S. W. Drains				
Zone II ... ..	...	...	...	...
Zone III ... ..	...	...	3	8,78,614
(4) Nallas				
Zone II ... ..	...	...	...	...
Zone III ... ..	...	...	12	58,09,306
(5) Miscellaneous				
Zone II ... ..	...	...	1	17,00,000
Zone III	1	16,650	1	74,087
Total	17	24,00,688	63	2,80,45,767

The statement showing the works completed and those in progress appears in Appendix No. 44.

The progress of work of sewers and S. W. Drains carried out through contract during the year under review appears in Appendix No. 45.

(D)—MAINTENANCE OF MUNICIPAL BUILDINGS.

Buildings.

The total number of Municipal Buildings in the Suburb and Extended Suburbs during the year ending 31st March 1972 was 1156 as detailed below:—

Particulars.	Suburbs	Extended Suburbs.	Total
(a) Housing			
(i) Structures	663	82	745
(ii) Tenements	5946	1001	...
(b) Other buildings	219	192	411
Total Nos. of Municipal Buildings	882	274	Grand total 1156

The work of maintenance is classified under the major heads (1) Normal Repairs, (2) Special Repairs and (3) New Works. Normal repairs include works of monsoon repairs. Special repairs cover the works which are likely to increase the life of buildings or structures where as the works of additions and alterations to the buildings as also these of providing additional amenities fall under category of new works.

The repairs and maintenance works at Municipal properties were carried out either departmentally or through annual petty works contractors.

The total expenditure incurred on the maintenance of Municipal properties in Suburbs and Extended Suburbs was Rs. 62,13,506.02 and Rs. 21,55,889.09 respectively out of which an amount of Rs. 12,26,545.91 in suburbs and Rs. 5,72,716.33 in Extended suburbs was spent on normal maintenance and an amount of Rs. 49,86,960.11 in Suburbs and Rs. 15,83,172.76 was spent on new works and special repairs works. Works costing Rs. 4,54,729.56 in Suburbs and Rs. 3,91,075.99 in Extended Suburbs were carried out Departmentally and works costing Rs. 57,58,776.46 in Suburbs and Rs. 17,64,813.10 in Extended Suburbs were carried out through the annual petty works contractors. Total number of work orders issued to the petty work contractors in suburbs and in Extended suburbs was 687 & 193 respectively. The Budgetwise break up of the total expenditure incurred on the maintenance of the Municipal properties is as under:—

	SUBURB.			EXTENDED SUBURB.		
	Expenditure on normal Maintenance.	Expenditure on New works and special Repairs.	Total Rs.	Expenditure on Normal Maintenance.	Expenditure on New works and special works.	Total Rs.
	1	2	3	4	5	6
Budget A	5,09,553.25	32,87,274.18	...	4,50,914.22	11,57,682.79	...
Budget B	5,70,595.96	3,50,960.87	...	35,922.00	70,573.00	...
Budget E	1,46,396.70	13,48,725.06	...	85,880.11	3,54,916.97	...
Grand Total	12,26,545.91	49,86,960.11	62,13,506.02	5,72,716.33	15,83,172.76	21,55,889.09

E.—MAINTENANCE OF ROADS & FOOTPATHS.

(1) The length of various types of roads maintained in the suburbs and extended suburbs was as under:—

Serial No.	Type of Roads.	Suburbs K. M.	Extended Suburbs. K. M.
(1)	Water Bound.	12.87	7.32
(2)	Asphalt.	361.95	166.19
(3)	Concrete.	48.18	11.05
(4)	Other.	1.65	21.60
	Total	424.65	206.16

An amount of Rs. 17,46,175.56 in Suburbs and Rs. 12,08,386.42 in Extended Suburbs was spent on repairs to footpaths and carriage way during the year and 263549 square Metres in Suburb and 92092.85 sq.

metres in extended suburbs of different types of road surfaces were improved departmentally at a total cost Rs. 21,92,865 and Rs. 17,20,063 respectively during the year as detailed below :—

Mode of Improvement	Area in sq. metres in Suburb.	Expenditure	
		Area in sq. metres in Ext. Suburb.	Expenditure
		Rs.	Rs.
(a) Sheet Asphalt	...	...	...
(b) Chip on Asphalt road	15,000	40,000	...
(c) Semi grouting	99,609	12,13,625	37,770.85
(d) Asphalt Concrete	...	...	...
(e) Surface dressing.	1,48,940	9,39,240	54,322
Total	2,63,549	21,92,865	92,092.85
			17,20,063

Important set-backs added to the public roads are shown in Appendix No. 46 and information regarding improvements of private roads is given in Appendix Nos. 47, 48 and 49.

Normal maintenance of Asphalt roads was carried out during the year at a total of Rs. 17,46,175.56 in the suburbs including cost of reinstatement of trenches opened by various departments and public utility concerns and at a total cost of Rs. 12,08,386.42 in the extended suburbs.

(1) Total length of the roads in the suburbs and Extended Suburbs was 558.24 K. M. at the end of the year.

(2) Private Streets :—Action under Section 305 was started in 6 cases as shown in Appendix No. 50.

(3) Foot Paths :—600 metres new foot paths were constructed during the year in the Suburbs only. No new footpaths were constructed in extended suburbs.

(4) Measures to reduce floodings :—Details of work are given in appendix No. 51.

(5) Street Name Boards :—An amount of Rs. 1,240 in Suburbs and Rs. 2,720 in Ext. Subs. was spent on fixing new street name board an amount of Rs. 10,549 was spent on repairs to the existing ones in the suburbs only.

(6) Widening of roads consequent upon the acquisitions of set backs.

The total area of set back land added to the public road in the suburbs during the year was 19326.05 square Metres as against 18937.30 square Metres in the Extended Suburbs at a total cost of Rs. 5,31,599.65 and Rs. 8,62,370 respectively and the compensation claims settled during the year amounted to Rs. 7,50,055.03 and Rs. 7,57,740.91 respectively.

(7) Benches :—100 benches on roads and footpaths were maintained in Suburbs.

(8) Guard Railings :—1900 R. Metres of Guard Railings in Suburbs and 120 R. Metres in Extended Suburbs were maintained during the year.

PERMITS.

Opening of Roads and foot-paths :—During the year 4106 permits in suburbs and 1479 permits in Extended Suburbs were issued for excavation in roads and footpaths. The cost of reinstatement of disturbed surfaces was charged to the respective permit holders and the trenches were repaired at a total cost of Rs. 3,76,527.87 and Rs. 83,481.25 respectively. The total amount of road opening fees recovered was Rs. 7,453 in suburbs and Rs. 3,806.68 in Extended Suburbs.

Occupation of Roads and foot-paths :—Fees were recovered for the use of roads for stacking materials and putting up scaffoldings. The total amount collected under this head was Rs. 210 from permit holders. In addition 92 permits in suburbs and 19 in Extended Suburbs were issued for occupation of roads for erecting mandaps, placing chairs and benches etc., and the total amount realised therefrom was Rs. 3,744 and Rs. 216 respectively.

22 permissions in suburbs and 24 in Extended Suburbs for new bus shelters on roads and footpaths were granted.

Details of work (other than sewage) carried out under 'Loan Works' are given in Appendix No. 52.

F.—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 pipe sewers was done as detailed in the table given below:—

	Length cleaned in metres.	Silt removed in Tonnes.
(1) House Drains.	2,00,926	3,13,995
(2) Pipe Sewers.	1,11,000	4,893

Repairs to manholes and gratings of water entrances:—

The statement below shows the details of the work done:—

	Total No.	Total cost. Rs.
(1) Repairs to manholes	287	54,120
(2) Replacement of gratings.	84	51,960
(3) Removal of vent shafts.	9	1,937

Street connections:—During the year 153 street connections of the buildings in suburbs and 73 in extended suburbs were made to Sewers.

Requisition in respect of house drains:—872 Requisitions under various sections of the Act in Suburbs and 193 in Extended Suburbs were issued against house owners for rectifying drainage defects.

Miscellaneous works and Amenities

(1) *Village Amenities*:—Statement showing the works carried out under Village Amenities appears at Appendix No. 53.

(2) *Public sanitary conveniences*:—Public sanitary conveniences were constructed at various places in Suburbs as shown in Appendix No. 54.

(3) *Ferry Services*:—The ferry services between Versova and Madh in 'K' Ward, between Marve and Manori in 'P' Ward and between Borivali and Gorai in R Ward were operated through private contractors and an amount of Rs. 10,327 realised from them.

G.—STREET LIGHTING.

The total number of electric street lights at the end of the year, was 11,911 and 5,544 in the suburbs and extended suburbs respectively as against previous year's total of 11,261 and 5255.

The total recurring cost of these 'All In Hire' lamps during the year was Rs. 35,32,000/- and 14,56,350/- in suburbs and Extended Suburbs respectively as against last year's figures of Rs. 31,65,000.62 and 12,90,514.31.

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

Suburbs.

Tungsten Filament.	Mercury Vapours.	T. D. Bollards.	Total.
7807	3995	109	11,911
Extended Suburbs.			
3679	1852	13	5,544

Graphs showing the progress of the work are at appendices 55 and 56. The street lights on the important roads were improved by providing 250 W. H. P. M. V. Lamps. (Appendix No. 57 shows the names of roads).

Street lighting on following roads was improved by providing 400 W. H. P. M. V. Lamps.

- (1) Swami Vivekanand Road, between Mahim Causeway and Andheri Naka.
- (2) Sir Mathurdas Vistanji Road between level Crossing and Bamanpuri (Work was in progress.)
- (3) L. B. S. Marg from Kurla to Vikhroli.
- (4) Sion Trombay Road upto Diamond Circle.

Street lights were provided in the following Hutment colonies.

- (1) Upper Depot Pada, Vikhroli.
- (2) Lower Depot Pada, Vikhroli.
- (3) Near Rajawadi Hospital, Ghatkopar.

Construction of Traffic Island Other Miscellaneous Works

Road markings were painted on all the important roads in Suburbs and Extended Suburbs.

Central dividers.—Were constructed along the following roads :—

- (1) Sir Mathuradas Vissanji Road between Bamnपुरी and Pipe Line, Andheri.
- (2) Sion Trombay Road from Burmah Shell Bridge to Diamond circle.

R. C. C. Guard Railings.—Were provided at following locations.

- (1) Along Sion Trombay Road.
- (2) Along Swami Vivekanand Road at Schools in 'H' and 'K' Ward.

Traffic Islands.—were constructed at following junctions.

- (1) L. B. S. Marg and Hirachand Desai Road.
- (2) Swami Vivekanand Road and Andheri R.O.B.
- (3) Sion Trombay Road junction East Express Highway.

Graph showing the progress of the work of installation of Traffic signals in Greater Bombay is given in Appendix No. 27.

Appendix No. 58 shows the names of roads on which regular lines were prescribed (or proposed) under Section 297 of the B. M. C. Act.

Parking Facilities.

A bus-bay has been provided on linking Road, Opp. National College, Bandra.

Automatic traffic signals were installed at the following places at a total cost of Rs. 1,74,630.14.

Serial No.	Location.
1.	Khar Subway
2.	Swami Vivekanand Road and Turner Road, Bandra.
3.	V. N. Puro Marg (Sion Trombay Road) and Eastern Express Highway.

H.—INSPECTION AND SUPERVISION OF PRIVATE BUILDINGS.

Building Proposals.—1978 proposals under Section 337 and 824 proposals under Section 342 of Bombay Municipal Corporation Act for erection of new buildings and for additions and alterations to the existing buildings respectively were received during the year. The particulars are as under :—

Wards	PROPOSALS.		Total No. of proposals.
	Section 337	Section 342	
H, K, P & R	1360	543	1903
L, M, N, & T	618	281	899
	1978	824	2,802

New Buildings.—The position of residential and non-residential tenements constructed by different agencies (other than Municipality) was as under :—

Wards	NO. OF PROPOSALS UNDER AGENCIES		
	Private enterprises.	Co-operative Societies.	Employers for their employees
H, K, P & R	967	376	26
L, M, N & T	339	179	7
	1396	555	33

The No. of proposals for non-residential buildings by private enterprises was 908.

	H, K, P & R Wards.	L, M, N, & T Wards.	Total
(1) Completion certificates received during the year ...	980	454	1434
(2) Permits for building or building houses issued ...	1622	689	2311
(3) Total No. of buildings dealt with ...	4505	899	5404
(4) Total No. of buildings applications ...	1903	899	2802

Details of the tenements constructed by private parties are given in Appendix No. 59.

Layout, Amalgamation and Sub-Division in the Suburbs and Extended Suburbs.

Wards.	PROPOSALS FOR					
	Lay outs		Amalgamation		Sub-division under Section 302.	
	Received	Sanctioned	Received	Sanctioned	Received	Sanctioned
H ...	5	4	10	2	8	8
K ...	21	8	32	10	30	20
P ...	15	2	24	8	24	6
R ...	13	2	8	2	25	4
L ...	12	4	8	2	10	3
M ...	14	1	19	11	8	Nil.
N ...	17	1	12	4	6	3
T ...	11	3	6	2	14	6

Statement showing the number of proposals received for the Commencement certificates in T. P. SCHEME during the year 1971-72.

Serial No.	Wards	Total No. proposals received.	No. of proposals approved.
(1)	H	63	26
(2)	K	93	37
(3)	P	15	10
(4)	R	45	18
(5)	N	43	28

Building Collapses.—The number of buildings or portion thereof collapsed during the year in suburbs and Extended Suburbs was 26 and 12 respectively and the number of persons killed and injured was 2 and 39 respectively in the Suburbs and only 4 persons injured in Extended Suburbs. The estimated damage of property was Rs. 1,15,800 in the Suburbs and Rs. 6,300 in the Extended Suburbs.

Actions under different Sections of the Municipal Act.—The number of notices issued under different relevant sections of B. M. C. Act in Suburbs and Extended Suburbs was 1593 and 550 respectively. 915 notices in Suburbs and 160 in Extended suburbs were complied with during the year and 678 notices in Suburbs and 390 in Extended Suburbs were still pending compliance at the close of the year.

Authorities granted under Section 499 of the Act.—27 Authorities in Suburbs and 18 in Extended Suburbs were granted under Section 499 of the Act to carry out repairs to buildings. The number of tenants who took advantage of the same was 140.

Unauthorised structures.—During the year 4303 unauthorised structures were detected in the Suburbs and 1626 in the extended suburbs. In addition 1610 cases of previous year were pending disposal in the Suburbs and 802 in the Extended Suburbs. Unauthorised works in 557 cases in the suburbs and in 448 cases in the Extended Suburbs were removed by parties themselves while in 1038 cases in the suburbs and in 302 cases in Extended Suburbs the unauthorised works were removed departmentally under Section 352-A of the Act and in 24 cases in Extended Suburbs the unauthorised works were removed departmentally under Section 351.

Complaints from the public.—The number of complaints received from the public in the Suburbs and Extended Suburbs was 6135 and 1590 respectively. Out of these 5376 in Suburbs and 1486 complaints in Extended Suburbs were looked into and disposed of and action on 759 cases in the suburbs and on 104 cases in the extended suburbs was in progress at the close of the year.

(I)—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	797	491
2	Applications disposed of	775	440
3	Applications undisposed of	22	51
4	New permits issued	493	315
5	Old permits renewed	760	379
6	Prosecutions launched	622	655
7	Prosecutions decided in the favour of the Corporation	393	431
8	Prosecutions pending	452	296
9	Fines recovered	Rs. 18,785.00	Rs. 13,540.00
10	Total revenue collected	Rs. 4,19,245.17	Rs. 1,52,585.86

(J)—DEVELOPMENT BRANCH

Acquisition of Land—Suburban Section

Possession of 10 properties was obtained through the land Acquisition Proceedings and 12 properties were acquired by negotiations. Awards were made by Special Land Acquisition Officer in respect of 10 properties. Proceedings under Land Acquisition Act in respect of 101 properties were in progress. Proceedings to acquire lands by negotiations were in progress in respect of 141 properties. Set-back land rates in respect of 166 properties were fixed for making payment of compensation of land acquired for widening of various roads and lanes and standard rent in respect of 20 Municipal properties was fixed.

(K)—TOWN PLANNING SCHEMES IN SUBURBS AND EXTENDED SUBURBS.

There are 25 Town Planning Schemes in Suburbs.

(A) Following are the Town Planning Schemes which have been finalised and are in force.

- (1) Town Planning Scheme—Bandra No. I
- (2) do. Bandra No. II (2nd variation)
- (3) do. Bandra No. IV (1st variation)
- (4) do. Bandra No. V (1st variation)
- (5) do. Bandra No. VI (1st variation)
- (6) do. Bandra No. X
- (7) do. Santacruz No. I (1st variation)
- (8) do. Santacruz No. III (1st variation)
- (9) do. Santacruz No. IV (1st variation)
- * (10) do. Santacruz No. V
- (11) do. Santacruz No. VI
- * (12) do. Vile Parle No. I (1st variation)
- (13) do. Vile Parle No. III (1st variation)
- (14) do. Vile Parle No. IV-IVA (1st variation)
- * (15) do. Andheri No. I (1st variation)
- * (16) do. Andheri No. VI (1st variation)
- (17) do. Ghatkopar No. I (1st variation)
- (18) do. Ghatkopar No. II (1st variation)
- * (19) do. Ghatkopar No. III (1st variation)

The works included in the finalised schemes have been mostly completed except those which could not be completed due to various difficulties such as removal of hutments on the plots reserved for public purposes and road after providing alternative accommodation to the occupants of the same etc. The ward officers in-charge of implementation of the schemes have taken necessary action in the matter as shown below:—

Implementation of Town Planning Scheme.

(a) No. of plots taken over by the Corporation	48	
(b) No. of plots handed over to the owners	21	
(c) Details of execution of the T. P. Schemes.		
1	2	3
(1) Town Planning Scheme, Bandra II (1st varied final)	Widening of existing roads, & construction of storm water drains.	97% works done.
(2) T. P. S. III, Bandra	Widening of existing roads construction of new roads, laying of sewers and storm water drains.	90% work done The remaining work was held up due to encumbrance on site.
(3) T. P. S. IV (Varied)	Foot-paths to be provided to six roads, laying of sewers and storm water drains.	All works completed.
(4) T. P. S. Bandra V, (varied, Final)	Construction of roads and one passage.	Completed.

1	2	3
(5) T. P. S. Bandra VI (Varied, Final)	... Increasing the asphalted width of a road. Providing and laying sewers.	Completed.
(6) T. P. S. Bandra X (Principal)	... Construction of new roads and a passage construction of cross drain.	Completed.
(7) T. P. S. Santacruz I (varied Final)	... Widening of existing roads, Providing storm water drains.	30% work done. The remaining work will be done in priority basis depending upon the need of the locality.
(8) T. P. S. Santacruz III (1st varied, Final)	... Providing footpaths, Laying sewers & storm water drains.	do. do.
(9) T. P. S. Santacruz IV, (varied-Final)	... Widening of existing roads, providing storm water drains.	Completed.
(10) T. P. S. Santacruz V, (principal-Final)	... Constructing roads, widening existing roads, laying sewers and storm water drains.	30% work completed. The remaining work is held up in view of the changes proposed under the Draft varied scheme and due to encumbrance.
(11) T. P. S. Santacruz VI (Principal-Final)	... Construction of roads, widening of existing roads	20% work done. The remaining works are held up due to heavy encumbrance.
(12) T. P. S. Ghatkopar II	... Constructing roads.	Three partly constructed and one completed.
(13) T. P. S. Scheme Malad No. 1 (1st variation)	S. W. Drains works ... Widening & Improving Road	6 Nos. 5 Nos.
(d) Total expenditure incurred on Town Planning Scheme works	...	Rs. 34,31,266.00
(e) Amount of contribution charges collected	...	Rs. 2,00,009.64

B.—Draft Schemes and variation of Schemes

The Town Planning Schemes which have been marked asterisks under (A) above have been declared for variations so as to bring them in conformity with the final Development Plan as required under Section 39 of the Maharashtra Regional & Town Planning Act 1966. The said schemes except Town Planning Scheme Ghatkopar No. III (1st varied) have been submitted to Government for sanction after undergoing all formalities prescribed under the aforesaid Act. As regards Town Planning Scheme Ghatkopar No. III the work was in progress.

As already reported last year Town Planning Scheme Vile Parel No. V which was submitted to Government has been sanctioned by Government and the Town Planning Officer, who has been appointed, has started arbitration proceedings.

(C) Town Planning Schemes which were before the Town Planning Officer (Arbitrator under the Maharashtra Regional & Town Planning Act, 1966) are:—

(1)	Town Planning Scheme	Bandra No. I (1st variation)
(2)	do.	Santacruz No. II (2nd variation).
(3)	do.	Santacruz No. V (1st variation).
(4)	do.	Vileparle No. II (1st variation).
(5)	do.	Vileparle No. V (Principal)
(6)	do.	Vileparle No. VI (1st variation).
(7)	do.	Vileparle No. I (2nd variation)
(8)	do.	Andheri No. I (2nd variation).
(9)	do.	Andheri No. II (2nd variation).
(10)	do.	Andheri No. VI (2nd variation).

As regards Town Planning Scheme Bandra No. III (1st variation) there was no further progress in the position of the Scheme that was reported last year, though most of the work provided under the scheme were completed.

Extended Suburbs

There are three schemes in the Extended Suburbs.

- (1) Town Planning Scheme Malad No. (1st variation).
- (2) Town Planning Scheme Borivli No. I (1st variation).
- (3) Town Planning Scheme Borivli No. II (1st variation).

Out of these 3 Town Planning Schemes, the first one has been sanctioned by Government and it was being implemented by W. O. P Ward and the other two were still before the Town Planning Officer.

Town Planning Scheme Borivli No. III was awaiting the approval of the Corporation for publication inviting objections and suggestions to the proposals made thereunder.

As reported last year the intention to prepare a Town Planning Scheme for Mulund area was to be declared by the Corporation. The work of collecting the data etc. in connection with the same was also started. However, in the meantime, the appeal filed with the Supreme Court against the High Court's judgment to decide the issue as regards the onus of removing the structures on the reconstituted plots in a finalised Town Planning Scheme came to be dismissed by the Supreme Court with reference to some of the plots in Town Planning Scheme Santacruz No. VI. The repercussions of this judgment are likely to be that it would not be advisable for the Corporation to undertake any further Town Planning Scheme within its jurisdiction, excepting where a completely vacant area will be available for the purpose. Necessary detailed report has already been made to Corporation in this case, for abandoning the proposal and proposing instead development of the areas as per proposals contained in the Final Development Plan.

(L)—SUBVENTION SCHEMES.

(1) In all 528 notices under Section 213 were served and for 308 cases parties submitted their proposals and in 226 cases house owners carried out the work in compliance with the notices served on them.

In all 345 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 36 cases privies were converted into water closets on full flushing system. The total amount of subsidy paid during the year was Rs. 87,250.

(2) The Corporation under their Resolution No. 2102 dated the 17th May 1958 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 24th October 1958 and C. R. No. 1770 dated the 31st March 1959.

(M)—MECHANICAL BRANCH (NORTH & PROJECT)

The following sections are under administrative supervision and control of Executive Engineer Mechanical (North & Project).

- | | |
|--|--|
| (1) Dadar Purification works | } Detailed report appears in City Section. |
| (2) Dharavi Purification plant | |
| (3) Sewage Pumping Stations and Purification works in Suburbs. | |
| (4) Maintenance of electrical installations in Suburbs. | |
| (5) Road Roller Section and mechanical out-door Section in Suburbs. | |
| (6) Planning and construction for Mechanical & Electrical works for drainage installations (Pumping and Purification Works) in City and Suburbs. | |

Sewage Pumping and Purification Plants in Suburbs.—These sewage purification plants in suburbs viz. Khar, Versova and Ghatkopar Purification Plants, each having a Primary Treatment capacity of approximately 9 millions litres per day worked satisfactorily during the year except for the period during which minor break downs occurred.

Versova Purification Plant

The following major repair works were carried out:—

(a) *C. F. S. Tank.*—This unit was put out of commission as the work of repairs of uptake tube and rotating and scraping mechanism, was to be carried out. The work was in progress. All other units were in working order.

Ghatkopar Purification Plant

(a) *Digestion Tank.*—Gunniting work of Digestion Tank was completed. The work of putting the epoxy was in progress. All other units were in working order.

Khar Purifications Plant

This Purification Plant worked satisfactorily during the year. No major repairs were carried out.

The Ten sewage pumping stations in suburbs (7 independent and 3 attached to purification plants) worked quite satisfactorily during the year. The total quantity of sewage pumped was 59832 million litres.

The salient features of operations and performance at the pumping stations are given in the appendix No. 60. A graph showing the sewage pumped in the Suburbs for the last 5 years is shown in the appendix No. 61

Maintenance of Electrical installations in Suburbs.

The electrical staff attached to wards attended to various maintenance works, including rewiring and new works departmentally under the technical guidance of this Department. The total cost of these departmental works comes to Rs. 4,45,564/-approximately.

Also about 122 estimates amounting to Rs 6,36,115 for the electrifications, rewiring, etc. were prepared and sent to different institutions.

In addition to above works, the works of providing water pumping sets, electrifications etc. at various institutions, were carried out by inviting tenders, the total cost of which came to Rs. 1,31,950.00 approximately

The first fountain in suburbs, at Rjawadi, Ghatkopar was completed by this department, partly by inviting quotations, the total estimated cost of which was Rs. 26,000.00. Also, the fountain at Santacruz, Mulund and Kurla were in progress. The work of electrification of Maa Hospital, at the estimated cost of Rs. 88,000.00 was completed by inviting tenders.

Road Roller Section, Khar, Suburbs.

There were 23 Road Rollers for the entire area of suburbs and extended suburbs out of which one was petrol roller, 7 were steam rollers and the remaining 15 were Diesel Rollers (including one sherpa roller).

On an average 74% of the road roller fleet was on the road during the year.

Outdoor Mechanical Work.

Outdoor mechanical repairs at various installations such as Hospitals, Markets schools, gardens and office establishments etc in suburbs and extended suburbs were carried out by outdoor staff.

The repair work 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. 52105.27.

Planning & Construction for mechanical and electrical works for Drainage installation and swimming pools, (Pumping and purification works) in Suburbs, and extended suburbs—

Name of the work.	Remarks.
(1) Proposed pumping station at Goregaon... (West).	Tenders were received and were under Scrutiny.
(2) Augmenting the capacity of the Ghat... kopar Pumping Station.	Specifications for one additional pump were prepared.
(3) Proposed pumping station at Brahman... wadi Kurla (West).	Specifications and estimates for the work were submitted to E. E. Pl (S) for invitation of the tender.
(4) Mulund Pumping Station.	The civil work was in progress. Most of mechanical and electrical equipments were received at site.
(5) Kherwadi Pumping Station.	The civil work was nearing completion. Installation of pumps and other allied machinery was in progress.
(6) Replacing the existing two old pumps by... two new vertical pumps at Jaibharat pump... ing Station.	The erection of the pumps and other machinery was completed. The tests and trials of the pumps were in progress.
(7) Gunitting of digestion tank and replace... ment of uptake tube at Ghatkopar Purifica... tion Plant.	Gunitting work was completed. Replacement uptake tube was in progress.
(8) Replacement of rotating mechanism for... p. s. t. at Versova Purification Plant.	This work was being carried out departmentally and was nearing completion.
(9) 10 Tonnes/24 hrs. capacity refuse Incina- rator at Khar Market.	Civil work to be started. Mech. & Elect. equipments to be received.

N.—ELECTRICAL BRANCH. (Suburban Area)

The activities of the different sections of the Electrical Branch during the year under report were as under:—

(1) Planning and Design Section.

In all 39 estimates amounting to Rs. 18,15,431 were prepared, 27 draft tenders finalised, 26 tenders invited and 24 tenders amounting to Rs. 14,89,740 were recommended.

The details of the works carried out by this section are given in the Appendix No. 62.

(2) Building Construction Section (Zone II & III).

There were 5 works in Zone II and 7 works in Zone III together amounting to Rs. 5,09,750 completed and 5 works in Zone II and 6 works in Zone III together amounting to Rs. 10,73,850 in progress during the year as shown in the Appendix No. 63.

O.—TRANSPORT BRANCH.

Transport services for Suburban section were rendered from different garages in the Eastern & Western Suburbs. From Kurla and Vikroli the services were rendered to the Eastern Suburbs and from garages at Santacruz, Malad & Borivli to the western suburbs.

There were 228 vehicles in the suburban transport fleet at the end of the year under report.

These vehicles were used for rendering various civic services as shown below:—

Name of the Service.	No. of vehicles.
1. Health Services.	
(a) Mobile Dispensaries	2
(b) Pest Control	12
(c) School Clinic	5
2. Conservancy Services.	
(a) Refuse removal	60
(b) Cesspool removal (Manual)	65
(c) Cesspool removal (Mechanical)	12
(a) Dog Vans.	5
3. Other Departmental Services.	
(a) Encroachment removal	7
(b) Ward Trucks	25
(c) Firevan, Cashvan, Minibuses Breakdown etc.	35

During the year under report 7 vehicles were scrapped and sold.

Working of garages :—The overall efficiency of the fleet was maintained at an average of 80% throughout the year. The average efficiency of different garages is shown against each of them below:—

Name of garage.	% of efficiency.
(1) Santacruz garage.	85 to 90%.
(2) Malad garage & Borivli garage.	75 to 85%.
(3) Kurla Garage.	60 to 75%.
(4) Vikroli Garage.	75 to 80%.

The department earned income of Rs. 67,44,110/- by way of transport charges from different users of these vehicles.

P.—CONSERVANCY BRANCH.

The Suburbs and Extended Suburban area has been divided into 4 Ranges—two ranges on the Western side viz. H & K Wards and P & R Wards and two ranges on the Eastern side viz. L & M Wards and N & T Wards for the discharge of administrative and executive functions of the Branch each under the supervision and control of an Assistant Head Supervisor subject to overall control of the Head Supervisor and Dy. C. E. (M. & C.).

Collection of Refuse.

House hold, Trade refuse and sweepings from roads were collected in municipal refuse bins. Municipal refuse bins and Refuse Trailers were attended to daily, on alternate days and weekly depending on the density of the population.

All the public roads, footpaths and house gullies were cleaned and quantity of refuse and other waste matter removed during the year under report was approximately 2,08,826 tonnes, average per day being 572 tonnes.

Transportation of refuse.

As the Municipal fleet was found inadequate, 6587 vehicle shifts hired from the contractors were utilised for transporting about 16% of the refuse. Departmental transport used was 26729 vehicle shifts and the refuse removed was 84%.

Disposal of Refuse.

The final disposal of refuse was done by reclaiming low-lying land at Oshiwara, Malad, Gorai, Deonar, Kamrajnagar Ghatkopar and Mulund.

Collection, Removal and Disposal of Night Soil.

There exist 6,428 basket privy seats as against 8216 for previous year. 1788 basket privies were either demolished or converted during the year.

The Night Soil and cesspool contents were disposed at the night Soil Depot at the following Places:—

1. Khar.
2. Versova.
3. Oshiwara.
4. Gorai Road, Borivil.
5. Malad.
6. Kurla. 7. Ghatkopar. 8. Mulund.

Cesspool Clearance.

During the year under report 3,225 cesspools were attended and total cesspool contents of 9,85,500 litres per day were removed. For the purpose of removal of Night Soil and cesspool contents 73 vehicle shifts were utilised per day.

Public and Private Latrines and Urinals.

The total number of public latrines on full flushing system, basket privies and Septic type or aqua privies was 1,262 having 1910 seats. Total number of private latrines was 26,493. The total number of urinal stalls was 225 and total number of bathing cubicals was 3 only.

Prevention of Nuisance.

During the year 1876 cases were made for urinating and throwing refuse on public roads under Section 115 of the Bombay Police Act.

Removal and Disposal of Dead Animals.

The work of removal and disposal of carcasses was carried out with the help of contractors, as well the municipal staff.

Conservancy and Special Halalkhore Services.

These services were rendered to circus, exhibitions, big concerns, industrial establishments etc. on payment of scheduled charges and the total income from various sources earned by Conservancy Branch (H & K L & M, N & T and P & R Wards) during the year was Rs. 2,01,177/-.

Dog Licensing and Destruction Work.

The work of licensing pet dogs as well as capturing and destroying stray dogs was carried out. During the year under report 4,881 pet dogs were licensed and 31,364 stray dogs were captured.

Conservancy Staff Quarters.

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 3,000 employees about 43% staff have been provided with housing accommodation.

Labour Welfare.

There were 7 Welfare Centres working at (1) Khar (2) Andheri (3) Versova (4) Municipal Staff Quarters at Kurla (5) Vikroli (6) Chembur and (7) Mulund. In addition to above there were co-operative credit societies of which staff members took advantage.

Expenditure on Conservancy Services.

The total expenditure incurred on Conservancy services was Rs. 1,94,76,100/.

“Removal and disposal of Town Refuse at Deonar Dumping Ground.”

About 1000 acres (404,686 hectares) of land spread over about four portions of deep creeks at Deonar is taken over on lease from the Government by the Corporation to tackle the problem of disposal of City refuse, as well as to reclaim creek land in the Khajanas at Deonar. The area is considerably large and the site will be available for dumping refuse many for years to come.

The major portion of city refuse from A, B, C and D wards is generally collected at Mahalaxmi Siding and the same is transported from Mahalaxmi to Deonar reclamation ground by two trains daily, i. e. one train in the afternoon and the other at night. The refuse from the remaining wards is directed to Dharavi Dumping Ground by lorries.

Statistical data regarding expenditure and revenue and other vital information of Kurla Deonar Railway is as follows :—

L—Expenditure.	Rs.
1. Haulage charges.	2,62,493
2. Detention charges.	14,800
3. Hire charges.	1,19,708
4. Maintenance of Siding at Kurla.	700
5. Wages of Pointsmen to Central Railway.	4,560
6. Purchase of materials from C. S.	3,000
7. Purchase of materials from Municipal Workshop.	2,991
8. Telephone Bills.	1,389
9. Wages of superior and labour staff.	2,70,000
10. Total amount paid for unloading 10858 refuse wagons.	3,20,886
Grand Total :	10,00,527

II.—REVENUE.

	Rs.
1. Sale of right of cultivation.	88,172,00
2. Ground and Building Rent.	32,206,00
Total Rs.	1,20,378,00

III.—Statement showing expenditure per Tonne of refuse (excluding the expenditure incurred on the Establishment at Mahalaxmi Refuse Siding.)

Sr. No.	Particulars.	Current year 1971-72	Previous year 1970-71.
(1)	Number of wagons received.	10858 Nos.	9942 Nos.
(2)	Quantity of refuse on an average 17 tonnes per wagon.	184586 Tons.	169014 Tons.
(3)	Cost of Haulage and detention.	Rs. 3,97,000/-	Rs. 3,64,006/-
(4)	Cost of unloading the wagons.	Rs. 3,20,886/-	Rs. 2,89,278/-
(5)	Cost of per Tonne of refuse for haulage and unloading. ...	Rs. 3.92	Rs. 3.87
(6)	Cost per tonne of refuse for the entire expenditure of K. D. Rly.	Rs. 5.42	Rs. 5.12

IV.—The position of the Municipal Rolling stock at the end of the Year.

Sr. No.	Description.	Total.
(1)	Refuse wagons in running condition on 1-4-71. Municipal Hired Total 43 + 66 = 109	109 Nos.
(2)	Running Wagons. Municipal Hired Total 31 + 58 = 89	89 Nos.
(3)	Silt wagons in running condition.	Nil.
(4)	Brake Wagons in running condition.	3 Nos.
(5)	Sick Wagons. Municipal Hired Total 12 + 8 = 20	20 Nos.

In order to augment the rolling stock, an order has been placed with the Central Railway to supply 50 number of converted overaged wagons and the supply was expected shortly.

The cost of maintaining Mahalaxmi and Chembur Railway Siding was Rs. 50,016.38.

The land reclaimed was 491.26 acres (198.7 Hectares) upto March 1971 and during the year 1971-72 only 9.18 acres (3.64217 Hectares, of land was reclaimed.

Total income from various sources i.e. Sale of right of cultivation, sale of sewage water, Ground and Building rent etc. amounted to Rs. 1,20,378/-

There were a number of rail breaking instances, as the rails were very old and out dated. There were only 3 instances of derailment of wagons and Brake vans. There were two instances of fire to the refuse siding out of which one was major and the other was minor. There were no instances of Engine derailment.

A new Railway embankment about 1066 metres (3500 Rft.) with a top width varying from 12.18 metres (40 feet) to 6.09 metres. (20 feet.) was nearing completion The work of laying 40.7 kg. (90 lbs.) rails on this embankment was nearing completion through the agency of Central Railway. With the commissioning of this new track, about 61 Hectares (150 Acres) of Khajan land was expected to be available for unloading operations.

The construction of the approach road (off Deonar Pumping Station) with three arms leading to the creek was completed in all respects. This road was expected to make available about 16 hectares (40 acres) of creek area for reclamation purposes.

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

APPENDIX No. I

Statement showing the progress of works under Slum Improvement Schemes during the year ending 31st March 1972.

Serial No.	Ward.	Name of Colony	Approx. No. of hutments	Progress.
1	F/S	2nd October Colony	1479	The Works of construction of office, sewer, street connections, water main, street lights, sanitary blocks and washing places were completed. The works of open S. W. drains, channels and concreting main passages were also completed.
2	F/S	Bhoiwada Colony	119	The works of construction of sanitary block, sewer connection, street lights were completed.
3	F/S	Sewri Cross Road	128	The works of construction of sanitary block and sewer connection were completed.
4	F/S	Extension to 2nd October Colony	668	The works of concreting main passages, channel drains, open S. W. drains and street lights were completed.
5	F/S	Dabholkar Adda	1000	The works of providing sanitary blocks, washing places and sewer connections were nearing completion.
6	F/S	Parmanand Wadi;	375	The works of construction of sanitary blocks, washing places could not be started as the sites were encumbered by huts.
7	F/S	Ganesh Nagar and Krishna Nagar	270	The works of construction of sanitary blocks, washing places, street lights, passages and open S. W. Drains were completed.
8	F/S	Prabuddha Nagar	200	The works of construction of washing place, sanitary block were completed; and the works of providing cement concrete passages and open S. W. drain were in progress.
9	F/S	Turner sanitorium	200	The works of construction of sanitary blocks, and washing places were nearing completion.
10	F/N	Plot No. 10, Scheme 57, Sewri Wadala	1297	The works of construction of sanitary blocks, washing places, open S. W. Drains & C. C. Passages and sewer connections were completed.
11	F/N	European Cemetery	300	The works of construction of sanitary blocks, washing places were nearing completion.
12	G/S	Dr.E. Moses Road Colony	794	The works of roads, sewers, sanitary blocks, water main, street lights and garden completed. The works of back to back channel was nearing completion.
13	G/N	Shroff Wadi	1,000	The works of construction of sanitary blocks, washing places, open S. W. drains, cement concrete passages were in progress.
14	G/N	Mukund Nagar	1,000	The work of providing street lights was completed. The works of construction of aqua privies, washing places, c.c. passages, channels, open S. W. drains were in progress.
15	G/N	Bharat Nagar Bandra	123	The works of providing c.c. passage, washing place and sanitary block were completed.
16	G/N	North of Nalla at Bandra Slaughter House	100	The works of providing sanitary block, sewer connection, washing place and c. c. passages were nearing completion.
17	M	Govandi Colony, North of K. D. Railway	1,804	The works of construction of aqua privies, washing places, channels, roads, open S. W. drains were completed. The works of construction of office and slum welfare centre was in progress.
18	G/N	Govandi Colony, South of K. D. Railway	2,720	The works of Construction of aqua privies, washing places channels, roads, open S. W. drains were completed. The work order for construction of electric sub-station was issued.
19	M	Extension to Nimboni Baug	250 (proposed)	The entire plot was low lying. The work of filling the plot was in progress.

APPENDIX No. 1—Concl'd.

Serial No.	Ward	Name of Colony	Approx. No. of hutments	Progress.
20	M	New colony north of Slaughter House	2,700 (proposed)	The tenders for construction of aqua privies, washing places, roads and open S. W. drains were invited. The work could not be started for shortage of cement.
21	M	Ghatla Village	440	The quotations for construction of aqua privies, passages, washing places and channels were invited and the quotation was accepted.
22	N	Upper Depot Pada Park Site, Vikhroli	1,100	The work of construction of aqua privies, washing places, passages and drains was completed.
23	N	Lower Depot Pada, Park Site, Vikhroli	600	The work of construction of aqua privies, washing places, passages and drain was completed.
24	N	Rajawadi Hospital Compound	200	The work of construction of sanitary block, wasing place and passages was completed.
25	N	F. P. No. 252, T. P. S. III, Ghatkopar	300 (Proposed)	Filling work was completed. The work of construction of sanitary blocks and washing places was also completed.
26	D	Haystack Road junction Clerk Road.	126	The work of construction of sanitary blocks, washing places was completed.
27	K	Telly Gully	250	The Scheme was executed by the W. O. 'K' Ward.
28	P	Chincholi, Malad	1077	The work of construction of aqua privies, washing places roads, c. c. passages and open drains was nearing completion.
29	F/S	Ram Tekdi, Laxman Tekdi	400	Tenders for construction of sanitary blocks, wasing places, sewer connection and c. c. passages were invited and recommended to S. C.
30	G/N	Kalla Killa, Khambdevi	500	Tenders for construction of sanitary blocks washing places, c. c. passages were invited and recommended to S.C.
31	G/S	Gandhi Nagar	800	Tenders for construction of sanitary blocks, washing places, c. c. passages were invited and recommended to S.C.
32	N	F. P. No. 273, 274 T. P. S. III, Ghatkopar	260	The work of construction of sanitary block was completed. The work of construction of washing places, passages was in progress.

APPENDIX No. 2

Statement showing the works of Building Construction completed and those in progress in Zone I area during 1971-72.

Serial No.	Name of the Works.	Estimated cost.	Expenditure upto 31-3-1972.
		Rs.	Rs.
A—Works Completed			
<i>(a) Housing</i>			
1	Construction of Over Head Storage Tank, under ground-suction Tank and Pump room at 358 T/S Worli	2,12,272	1,95,458
2	Completing incomplete work of 130 Tenements at Worli	12,84,596	11,77,899
3	Construction of 11 Tenements at Rajwadar Street Colaba	1,36,101	1,12,925
4	Pile foundations for 60 Tenements at Body Guard Lines Mahalaxmi	1,52,037	1,46,022
5	Construction of 4 suction tanks and Pump houses at Bane Compound Tardeo	79,653	59,450

Serial No.	Name of the Works	Estimated cost.	Expenditure up to 31-3-72
	<i>(b) Buildings other than housing</i>	Rs.	
1	Construction of dispensary & P. S. C. block at Nawab Tank Road	1,85,832	
2	Pile Foundation for School building at Ganpatrao Kadam Marg. C. S. No. 263 of Lower Parel Division	2,04,058	
	B.—Works in Progress		
	<i>(a) Housing</i>		
1	Construction of 45 Tenements @ Walpakhade Mavji Rathod Road	4,41,336	
2	Construction of 50 Tenements at Dadasaheb Phalke Road	6,84,546	
3	Construction of 240 Tenements at Haji Ali Worli	52,21,715	
	<i>(b) Buildings Other than housing</i>		
1	Construction of a school building at Banganga	10,01,861	
2	Construction of a school building at Babulla Tank X Lane	5,01,423	
3	Construction of a building for fire brigade head quarters at Byculla (Including Electrification, & Pumping arrangement)	26,24,017	
4	Completing the remaining work of school building P. No. 66, South S. W. Estate (Including electrification & pumping arrangement)	8,02,849	
5	Stabilizing of Gollanji Hill at Acharya Donde Marg, Sewree	6,51,900	
6	Construction of a school building on S. C. No. 1476 of Girgaon Division	3,74,792	
7	Construction of mortuary block for Kasturba Hospital	2,01,383	
8	Additional floors for Library and Welfare Centre over municipal dispensary at Worli Koliwada	1,99,977	
9	Extension to the market at Dongri	72,819	

APPENDIX 3.

Statement showing the works of Road Construction Work completed and those in progress in Zone I area during 1971-72.

Serial No.	Name of Work	Actual cost.
	(A)—Completed Works	Rs.
	<i>I.—Road Resurfacing Works in A. C.</i>	
1	N. M. Joshi Marg between Bapurao Jagtap Marg and Keshavrao Khadye Marg	3,73,932.73
2	Sewri Cross Road from 40' Cross Road to Level Crossing	44,287.60
3	Dr. Atinie Besant Road — Worli Naka to Lala Lajpatrai Marg	6,64,273.56
4	Byculla Bridge Junction	1,69,054.78
5	Opera House Junction	92,003.31
		<u>13,43,051.98</u>
	<i>II.—Road Resurfacing Works in Cement Concrete</i>	
1	Madhavrao Rokde Street and Narsi Natha Street	4,25,085.50
2	N. M. Joshi Marg from Lower Parel Bridge to Elphinstone Road	2,86,302.62
3	Victoria Road Over Bridge Southern Approach	1,45,217.94
4	Zackeria Bunder Cross Road No. 1, 2, 3 and 4	86,502.46
		<u>9,43,108.52</u>

APPENDIX No. 3—(Concl.)

Serial No.	Name of Work	Actual cost
<i>III.—New Roads.</i>		
		Rs.
1	Construction full grouted roads near strand Cinema off Arthur Road ...	59,877.00
2	Construction of carriageway, footpath etc. in Elphinstone Estate Section of T. P. Scheme No. 1 Mandvi ...	6,89,452.50
3	Construction of Cement Concrete Road at Nawanagar off Dock-yard Road	19,702.98
4	Construction of internal roads at Municipal Housing Colony Opp. L. G. P. Section	96,619.88
		8,65,652.36
<i>IV.—Road Widening</i>		
1	Adding setback to Sewri Road from Kalachowky Road to 100' wide Zackeria Bunder Road ...	2,18,638.48
2	Adding setback to Sewri Road from Kalschowky Road to 100' wide at 38, Peddar Road	2,18,638.48
3	do. at T. P. Line Road junction with Fergusson Road	3,37,478.45
4	do. where in City	
		5,56,116.93
(B) Works in progress		
<i>I.—Road Resurfacing with A. C.</i>		
1	Dr. Bhødkamkar Marg and Dr. Anandrao Nair Road ...	6,03,325.00
2	Tardeo Junction ...	1,87,286.00
3	Shukhalaji Street from Maulana Shoukatalli Road to Jehangir Boman Behram Marg	3,08,858.00
4	Jerbai Wadia Road ...	4,23,826.00
		14,23,295.00
<i>II.—Resurfacing in Cement Concrete—</i>		
1	Zackeria Bunder Road from Tokersi Jivraj Road to Level Crossing ...	3,74,742.00
2	Wadi Buder Road ...	3,54,850.00
		7,29,592.00
<i>III.—New Roads</i>		
1	Construction of remaining portion of 24.38 wide road joining Swatanrya Veer Sawarkar Marg and Gokhale Road (South) ...	3,60,126.00
2	Construction of Maharshi Karve Road near Churchgate Railway Station ...	4,61,412.00
3	Construction of approaches of Sandhurst Road Overbridge ...	4,03,334.00
4	Construction of Gollanji Hill Road ...	2,02,146.00
5	Construction of roads and drains etc. at Backbay Reclamation ...	21,40,948.00
6	Compound paving in Cement Concrete inside F/South Ward Office Compound ...	1,14,125.00
		36,82,091.00
<i>IV.—Road Widening</i>		
1	Adding setback lands to Altamout Road ...	1,80,787.00
2	Adding setback land to Kemp's Corner ...	
3	Adding Walkeshwar Road ...	
4	Adding Nepcan Sea Road ...	
		7,11,752.00
		8,92,539.00

APPENDIX No. 4.

Statement showing the progress of works of sewers and S. W. drains carried out through contractors during the year 1971-72.

Sr.	Particulars	Total	150	250	300	350	375	400	450	475	500	600	700	800	900	1000	1100	1200	1300	1400	
		No.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
I—Sewers																					
1	Total length of sewers of various sizes.	3010 R.M.	555 R.M.	1520 R.M.	300 R.M.	...	...	135 R.M.	200 R.M.	...	...	200 R.M.	100 R.M.	...	...	...	...	...	...	...	...
2	Total number of manholes provided on sewers.	541																			
3	Total number of ventshafts provided on sewers	4																			
4	Cost incurred on sewers	Rs. 7,25,964																			
II—S. W. Drains.																					
1	Total length of S. W. drain of various sizes.	1231 R.M.	255 R.M.	105 R.M.	6 R.M.	...	...	120 R.M.	200 R.M.	...	...	...	...	100 R.M.	...	...	45 R.M.	400 R.M.	...	...	...
2	Total No. of manholes provided on S.W. drains.	44																			
3	Total No. of ventshafts provided on S.W. drains	29																			
4	Total No. of water entrances provided on S.W. Drains	5																			
5	Cost incurred on S. W. drains.	Rs. 15,14,778																			

APPENDIX No. 5

I.—Statement showing drainage construction works in the City, completed during the year 1971-72.

Serial No.	Name of Work	Actual Expenditure.	
		Rs.	
1	Improvement of common house gullies in A & B Wards	...	1,98,964.00
2	Improvement of common house gullies in 'C' Ward	...	3,97,563.00
3	Improvement of common house gullies in 'D' Ward	...	1,56,356.00
4	Improvement of common house gullies in 'E' Ward	...	4,77,830.00
5	Providing 800mm. 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	...	1,27,475.00
6	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 (Part A and B)	...	1,94,924.00
7	The remaining work of providing and laying 230 mm. 300 mm. dia. pipe sewer and 300 mm. pipe drain and 450 M X 450 M. dia. dhapa drain in Antop Hill Area (Part D) ...		48,930.00
8	Repairs to the damaged sewer in C, D and E Wards	...	2,57,384.00
9	Desilting of small S. W. dhapa drains and main S. W. drains in the whole of B and C Wards	...	1,81,536.00
	Total	...	20,40,942.00

II.—Statement showing Drainage Construction Works in the
City in progress during the year 1971-72.

Serial No.	Name of work	Estimated cost.
		Rs.
1	Construction of 1.90 M X 1.52 M double barrelled dhapa drain and 2.59 -M X 1.52 M single barrelled dhapa drain along Jakeria Bunder Road for a length of 377.95 M (Portion B. C. C.)	5,41,375.00
2	Construction of 2.43 M X 1.52 M double barrelled dhapa drain along Jakeria Bunder Road for a length of 548.64 M. B. B.	9,68,625.00
3	Providing gunite treatment to the outfall at Dr. Annie Besant Road Pumping Station including other allied works at Worli	6,81,060.00
4	Proposed 600 mm. dia., 800 mm. dia. pipe sewer along Bhagwanlal Indrajai Road North of Banganga	3,07,905.00
5	Proposed 11.57 M X 3.53 M. open drainage channel from Matunga Labour Camp to Dharavi	21,40,440.00
6	Proposed 1.32 M X 1.83 M. S. W. open drain along Tokandas H. Kataria Marg at Matunga	1,96,269.00
7	Repairs to the collapsed portion of the triple barrelled drain along 30.48 M road to the south of Mahalaxmi Race Course.	4,51,482.00
8	Desilting of 525 mm, 740 mm 1000 mm., and 1200 mm dia. pipe sewer and 4'-8" X 7'-0" void sewer in Mahim, Dharavi and Sion Areas	2,65,288.00
9	The work of cutting high ground at Dharavi Purification Works, Sion	10,12,161.00
10	Construction of double-barrelled drain having outfall at Timber Pond	6,24,140.00
11	Supplying and fixing the prestressed gully gratings with or without runners in lieu of existing water entrance gratings in the area of E, F and G Wards	5,28,138.00
12	Supplying and fixing the prestressed gully gratings with or without runners in lieu of existing water entrance gratings in area A, B, C, and D Wards.	5,01,703.00
13	Conversion of remaining basket privies into full flushing water closets in Municipal properties in F and G Wards	4,68,840.00
14	Proposed 400 mm. dia S. W. drain along Laxmibai Jagmohandas Marg and 1200 mm. dia. S. W. drain along L. D. Ruparel Marg and extension of 1200 mm. dia. storm water drain through the reclaimed land beyond the sea wall	2,94,143.00
15	Construction of additional manholes in A, B and C Wards	6,46,627.00
16	Construction of additional manholes in D, and E Wards	9,05,455.00
17	Proposed 800 mm. dia. pipe sewer from princess Dock Ejector to proposed pumping Station at Church Street from M. H. 21 to M. H. 36 (Part-II)	6,81,581.00
18	Proposed 230 mm. dia (9") 300 mm. (12") dia. pipe sewer for the area on the south of Vithal Narayan Puroa Marg (Sion Trombry Road) on the sides of the Eastern Express Highway at Sion Stage—V	2,77,590.00
19	Proposed 230-300-350 mm. dia. pipe sewer Part A and 300-500-600-700 and 800 mm. dia. S. W. drain Part B, along private Streets, Tokersey Jivraj Road	3,76,067.00
20	Providing additional treatment units to treat 22.5 million litres per day sewage at Dadar Sewage purification Works	10,22,684.00
21	Desilting of both small and large sized S. W. dhapa drains and pipe drains in A, D and E Wards	3,43,512.00
22	The remaining work of providing and laying 230 mm. dia. and 300 mm. dia. pipe sewer and 300 mm. dia. pipe drain and 450 mm X 450 mm. dhapa drain along the proposed roads at Antop Hill Road, (Part I)	3,25,070.00
	Total	1,35,60,155.00

APPENDIX No. 6.

Statement showing details of the work of cleansing of Main Sewers in Zone I

Month	Length of main sewer cleaned in Rft.	Silt Removed in Cft.
April 1971	4205	17715
May	3490	11600
October	3080	17485
November	3155	25420
December	4040	23660
January 1972	7818	27480
February	7174	28350
March	13265	21395
	46227	173105

i.e. 14093 R.M.
 appv. i.e. 4,902.2 cubic metres
 approximately.

APPENDIX NO. 7.

Statement showing the performance of Colaba Purification Plant during 1971-72

Month	Total Sewage pumped in M. Litres.	Sewage treated in M. Litres.	Grit removed in Cu. Mtr. Plant & Pumping.	Screening in Cu. Mtr.	K. W. H.		Gas generated in Cu. Metre average.	Sludge to digestion Tank in Litres.	Digested sludge removed in Litres.
					Plant	Pumping			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
March 1971	244.98	175.50	10.2	3.84	22,900	24,170	7,867	50,22,000	...
April 1971	216.84	172.62	11.01	4.64	21,920	20,240	7,614	48,60,000	...
May 1971	197.61	175.32	9.8	3.61	22,430	20,170	7,867	50,22,000	...
June 1971	452.23	89.55	4.07	1.56	22,140	31,560	7,614	48,60,000	...
July 1971	369.73	70.33	4.00	2.73	20,130	26,420	7,867	50,22,000	...
August 1971	372.80	85.50	5.32	2.47	13,720	41,950	7,867	50,22,000	...
Sept. 1971	358.78	96.70	2.52	2.36	13,290	36,680	7,614	48,60,000	...
Oct. 1971	330.36	101.88	2.57	2.25	15,340	26,860	7,614	50,22,000	...
Nov. 1971	253.27	116.68	2.92	2.1	19,160	24,650	7,867	48,60,000	...
Dec. 1971	300.33	52.02	1.35	2.17	19,510	26,280	7,867	50,22,000	...
Jan. 1972	293.02	80.64	2.01	2.18	21,220	25,570	7,867	50,22,000	...
Feb. 1972	286.98	101.07	2.44	2.15	23,410	22,080	7,867	46,98,000	...
Total	3675.93	1317.81	58.21	32.06	2,35,170	3,26,630	93,392	5,92,92,000	...
Average	306.32	109.81	4.85	2.67	19,597	27,219	7,782	49,41,000	...

APPENDIX No. 8.

Statement showing the performance of sewage pumping stations in the city in charge of E. E. Mech. (N and P) during 1971-72

Name of Pumping Station.	Installed capacity in M.G.D. Lit./Sec.	Average of Min. level during the year Mtrs.	Average of average level during the year Mtrs.	Total sewage qty. pumped during the year M. Lit.	Average sewage qty. pumped per day M. Lit.	Electrical energy consumed during the year KWH	Cost of Electrical energy consumed during the year.	Cost of operative staff during the year.	Cost of repairs & Maint. during the year.	Cost of oxidized charges.	Total cost of operating station during the year.	Cost per million litres of sewage treated.
Dadar Purification Works, 836.8 L/S		1.5	1.86	13033.02	35.77	524767	44335.52	18470.00	20077.00	8200.00	51082.00	6.55
Dharavi Purification plant, 45 M.C.D. 233.5 for 1971-72 Lit/Sec.		2.77	3.8	22465.7	61.6	716776	75211.7	15004	32767	5032	13034.70	5.89

APPENDIX No. 9.

Statement showing the Gas Utilization at Dadar Purification works during the year 1971-72.

Type of consumption	Gas consumed cft.	Rate 1000 cft.	Cost of Gas	Meter Rent
A Municipal Hospitals and staff ...	2,71,49,800	4.25	115384.00	Rs. 2804.75
B Other domestic ...	66,62,000	5.40	35930.50	4844.75
C Commercial ...	1,67,26,800	6.40	106749.28	1093.90
Total ...	5,05,38,600		258063.78 X	8743.40 Y
		Total	X+Y	266807.18

APPENDIX NO. 10.

Statement of the Analytical Data of Dadar Purification Works for the year 1971-72.

(1) Sewage Treated.	...	25548.44 Million Lits.
(2) Grit removed	...	2942.00 cubic mts.
(3) Screening Removed	...	446.75 cubic mts.
(4) Sludge to Digestion tank	...	199941600 Lits.
(5) Dry matter added to Digestion tank	...	10193117.2 Kg.
(6) Volatile matter added to digestion tank.	...	6477308.8 Kg.
(7) Digested sludge removed	...	4640600 Lits.
(8) Total gas generated.	...	1760826 cubic mts.
(9) Gas per litre of sludge added	...	0.04 cubic mts.
(10) Gas per of volatile matter added	...	0.1233 cubic mts.
(11) Gas per 1000.000 liters of treated	...	332.998 cubic mts.
(12) Total electric consumption (Excluding Pg. Stn.)	...	1427033 K. W. H.
(13) Gas per of dry matter added	...	0.078 cubic mts.
(14) H. P. required per million litres of sewage treated	...	3.1
(15) Total expenditure (including Pg. Stn. and gas service etc.)		
		Rs.
(a) Cost electric energy consumed	...	164900.00
(b) Salaries and wages fixed	...	3,68,024.95
(c) Materials and supplies (Laboratory included)	...	69000.00
(d) Work carried out through external agencies	...	60375.00
(e) Miscellaneous expenses (post, conveyance, P. W. D. Inspection, Licence and Telephone),	...	3714.00
Total	...	6,66,013.95

APPENDIX No. 11.

Analytical Data—in respect of the Laboratory at Dadar Purification Work.

	Sewage		Final Effluent		
	Old Plant	Ext. Plant.	Act. Sludge	Filter-1	Filter-2
4 Hours Oxygen absorption	103.2	58.3	13.0	28.5	21.4
Suspended solids	501.0	250.0	13.0	47.0	43.0
Dissolved Oxygen.	...	...	4.5	0.5	0.9
Bio chemical Oxygen Demand (5 days at 20° C)	393.5	223.0	8.0	63.1	45.7

(All the results are expressed in mg./litre).

APPENDIX No. 12.

Statistical Data in Respect of Effluent Purification plant for 1971-72

(i) Total sewage flow pumped	...	22485.7 M. Litres.
(ii) Grit removed	...	594.3 C. M.
(iii) Screenings removed	...	529.77 C. M.
(iv) Sludge to digestion tank	...	50660350 Litres.
(v) Digested sludge on beds	...	Nil.
(vi) Digested sludge to S. W. D.	...	270,000 Litres.
(vii) Total digested sludge removed (V) + (VI).	...	50930350 Lit.
(viii) Total electrical energy consumption	...	868931 KWH.
(ix) Cost of electrical energy	...	Rs. 91396.91
(x) Gas used as gaseous fuel	...	1,91,733 cum metre.
(xi) Revenue obtained from sale of gas	...	Rs. 35,253.97
(xii) Sludge manure sold during the year	...	Nil.
(xiii) Revenue realized from sale of manure.	...	Nil.
(xiv) Total revenue realized=(XI) + (XIII)	...	Rs. 35,253.97.

APPENDIX No. 13.

Statement showing the details of working of Pumping and Compressor Stations in the City in the charge of E. E. Mechanical (South) during 1971-72.

Serial No.	Name of the Station	Installed capacity in L. P. M. or Cu. M/Min.	Total quantity of Sewage pumped in M. Litres or the air Compressed in Cu. M. during the year.	Av. Quantity of Sewage pumped in M. Litres or the air compressed in Cu. M. per day.	Electrical energy consumed during the year.	Cost of Electrical energy consumed during the year. Rs.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Pumping Stations.							
1	Matunga Pumping Station	...	75,040	20787.4	56.79	11,65,100	108045.93
2	Wadala Pumping Station	...	53,630	9217.4	25.18	54,1620	78463.91
3	Mahim Pumping Station	...	44,620	13952.4	38.12	4,55,200	47512.66
4	Tulsipipe Pumping Station	...	48,920	4951.4	13.53	2,49,320	32163.68
5	Chinchpokali Pumping Station	...	39,480	1101.7	3.01	7,7300	8810.00
6	Nepean Sea Road Pumping Station	...	27,900	2555.3	6.98	1,35,310	15086.26
7	Salt Pan Pumping Station	...	54,600	1023.3	2.79	7,3233	9918.60
8	Globe Mill Pumping Station	...	63,200	6455.5	17.63	2,08,430	15917.17
9	Gadge Maharaj Chowk Pumping Station	...	7,540	13505.2	36.90	2,52,080	38830.83
10	Marve Road Pumping Station	...	12,640	1300.8	3.55	47,723	5778.78
11	Sion Pumping Station	...	6,810	1007.1	2.74	1,18,020	15409.50
12	Duncan Causeway Pumping Station	...	15,190	334.1	0.91	20,040	2815.00
13	Tank Bunder Pumping Station	...	4,540	821.7	2.24	57,665	8306.20
		...	77013.3	210.37	3.43,1041	387058.52	
Compressor Stations.							
14	Victoria Garden Air Compressor Str.	10	1729830	47.210	7,35,700	63763.80	
15	Carrol Road Air Compressor Station	26	2729250	74.60	84,985	11382.35	
	Total	...	20027800	54.670	8,20,685	75146.15	

APPENDIX NO. 14.

Summary of works carried out by Asphalt Plant during 1971-72.

Serial No.	Mode of Repairs	Area in eq. Mtrs.	Amount.
1	Repair with 3" sheet asphalt	4853	Rs. 1,10,405.75
2	Repair with asphaltic concrete on semidense	18314	1,88,997.07
3	Repair to asphalt road with chip or grit coat	50015	3,71,786.60
4	Repair to bituminous road with chip or grit coat	43531	2,52,139.11
5	Seal coat on footpath	1972	10,648.80
6	Miscellaneous work	5513	35,240.77
7	Trenches repaired	2660	18,433.45
8	Pot-holes repaired	15545	1,24,286.65
9	Cracks filled up on different roads	...	4,986.06
10	Humps removed on different roads	...	4,851.47
11	Macadam laid on different roads	...	2,89,415.60
	Total ...	163773	14,03,778.30

APPENDIX NO. 1A

Statement showing the details of Asphalt Plant Production during the year 1971.

Month	MAIN PLANT									PEGSON PLANT.							Working days.
	Macadam Kg.	Semidense Kg.	Binder Kg.	Surface Kg.	Chip Coat Kg.	Grit Coat Kg.	Seal Coat Kg.	Premix 1" Kg. ½ kg.	Total Kg.	Makadam Kg.	Binder Kg.	Chip Coat Kg.	Grit Coat Kg.	Premix 1" Kg. ½ Kg.	Total Kg.		
March 71	...	...	2,90,990	5,53,140	...	55,310	...	...	8,99,440	...	...	...	...	...	...	25
April 71	...	33,310	5,34,640	3,23,300	15,990	27,900	...	...	9,35,140	...	...	...	...	...	...	28
May 71	...	...	6,400	5,54,600	77,530	...	7,020	...	6,45,550	...	...	...	...	...	...	22
June 71	10,110	...	...	42,500	...	...	...	59,830	1,12,440	...	...	...	19,320	5,29,920	5,49,240	25
July 71	2,61,290	87,830	5,44,410	8,93,530	26
August 71	...	...	...	...	...	...	...	...	...	...	...	9,800	8,580	5,40,740	5,59,120	22
Sept. 71	47,740	2,51,650	...	56,960	3,82,080	7,38,440	25
October 71	6,17,660	12,600	...	40,920	6,71,180	21
Nov. 71	4,980	...	76,320	7,73,950	2,12,390	2,710	...	5,390	10,75,740	...	...	2,95,640	...	...	2,95,640	26
Dec. 71	2,56,620	1,77,980	6,53,150	2,38,970	...	1,26,080	83,710	18,650	15,55,160	...	...	...	...	...	...	26
Jan. 72	...	40,440	86,610	3,06,510	8,60,940	1,07,450	2,590	7,070	14,11,610	...	...	...	...	...	...	25
Feb. 72	...	...	46,420	8,45,930	2,94,750	...	...	...	11,87,100	...	...	...	...	...	...	24
Total	2,71,710	2,51,730	16,94,530	36,38,900	14,61,600	3,19,450	93,320	90,940	78,22,180	2,61,290	47,740	11,64,960	22,400	1,72,690	20,38,070	37,07,150	290

Main Plant	78,22,180	Working days.	290
Pegson Plant	37,07,150	Non working days.	75
<u>1,15,29,330 Kg.</u>			

APPENDIX No. 16

Statement showing the rubble crushed and metal production during the year 1971-72.

Month	Rubble	Metal 1½"	Metal 1"	Metal ½"	Grit & Dust
March 1971	... 31,100	15,550	1,555	20,140	1,555
April 1971	... 31,100	15,550	1,555	12,440	1,555
May 1971	... 31,200	15,600	3,120	10,920	1,560
June 1971	... 33,800	16,900	1,690	13,530	1,690
July 1971	... 30,500	16,119	4,315	4,865	4,375
August 1971	... 27,400	17,745	2,730	3,735	2,760
Septemder 1971	... 23,200	16,240	2,320	2,320	1,905
October 1971	... 19,400	14,550	1,940	1,940	970
November 1971	... 24,500	8,375	2,450	2,450	1,225
December 1971	... 29,900	21,725	2,990	2,990	1,495
January 1972	... 38,300	28,725	3,830	3,830	1,915
February 1972	... 36,600	27,500	3,660	3,660	1,830
	3,57,000	2,14,579	32,155	82,820	22,835

APPENDIX No. 17

The roads provided with Tungsten Filament Lamps.

1. Shaheed Bhagat Singh Road. (Near Town Hall)
2. Hindu Cemetery. M. Karve Road.
3. Nawab Tank Bridge.
4. Nariman Point.
5. Charni Road foot-over-bridge.
6. Worli Koliwada.
7. B. D. D. Chawls, Worli.

APPENDIX No.18.

The roads on which lighting was improved with Fluorescent Lamps.

1. Naigaum Road No. 3.
2. Naigaum Road No. 5.
3. S. S. Wagh Road.
4. B. J. Devrukhakar Marg.
5. Jyotiba Pule Road.
6. New Nagpada Street.
7. Home Street.
8. Willoughby Road.
9. Mussafirkhana Road.
10. Sabusiddick Road.
11. Road between Sabu-Siddick and Lokmanya Tilak Road.
12. Pydhonie Road.
13. Carnac Siding Road.
14. Masjid Siding Road.
15. Bhandari Street.
16. Passage around S. K. Patil Udyan off M. Karve Road.
17. Shankar Pupala Road.
18. Road off 'H' Road Churchgate
19. Princess Street overbridge under-pass.
20. Narai Natha Street.
21. Mirchi Street.
22. Madhavrao Rokde Road.
23. Kazi Syed Street.
24. Janjekar Street.
25. Kolsa Street.
26. Princess Street Stair Case.
27. Walkeshwar Road.
28. Sion Road No. 16.
29. Firdosi Road.
30. Telang Road.
31. Perumal Svirighanee Road.
32. Seth Bhagwandas N. Road.
33. Naigaum Scheme No. 6, Road No. 9.
34. Shivaji Park Road No. 5.
35. Altamount Road.
36. Carmichel Road.
37. Byramjee Gamadia Road.
38. Nowroji Gamadia Road.
39. St. George Street.
40. Council Road.
41. Circular Road Marine Drive
42. Fuller Road.
43. Marine Lines.

APPENDIX No. 19

The roads on which lighting was improved with H.P.M.V. Lamps in - All - in - Hire Scheme.

1. Saheed Bhagat Singh Road.
2. Colaba Road.
3. Vithalbai Patel Road.
4. Waudby Road. (Hajarimal Somani Marg)
5. Tardeo Road. (Jaojee Dadojee Road)
6. Napean Sea Road. (Laxmibai Jajmohandas Marg.)
7. Wode House Road.
8. Nawab Tank Road Bridge.
9. Mazgaon Road.
10. Nesbit Road.
11. Dockyard Road.
12. Mahatma Gandhi Road
13. Marvey Road. (Pandita Ramabai Road.)
14. Sandhurst Bridge (Mama Varerkar Bridge).
15. Nanabhai Behramji Street.
16. Charni Wadi.
17. Charni Wadi Cross Lane.
18. Dr. Cawasji Hormasji Street.
19. Dady Santook Lane.
20. Dhus Wadi.
21. Dhobi Talao Ist Lane
22. Dhobi Talao IInd Lane.
23. Fish Market Lane.
24. Jambul Wadi.
25. Lohar Cross Lane.
26. 2nd Marine Street.
27. 3rd Marine Street.
28. 4th Marine Road.
29. Sohrab Santook Lane.
30. Wellington Street.
31. Trinity Street.
32. Hamal Wadi.
33. Bamanji Master Road.
34. Tak Wadi.
35. Kitchen Garden Road.
36. Vithaldas Road.
37. Picket Road.
38. Pathak Wadi.
39. Ratansi Champsiman Path.
40. Mangaldas Road.
41. Flank Road West.
42. Flank Road East.
43. 'S' Bridge under passage.
44. Hindu Colony Road, Dadar.
45. Burrow Cross Lane.
46. Chandan Wadi.
47. Gazdar Street.
48. Mahadeo Shankar Lane.
49. Nowroji Seth Street
50. Sonapur Street.
51. Sonapur Ist Lane.
52. Sonapur IInd Lane.
53. Shankar Bari Lane.
54. St. Francis X'Avier Street.
55. Tod Wadi.
56. Vijay Wadi.
57. Gowalia Wadi.
58. Seweri Wadala Road No. 15.
59. Dr. Babasaheb Ambedkar Road. (between King's Circle & Rly. Bridge).
60. Adenwalla Road.
61. Lady Jamshedji Road.
62. Lady Hordinge Road.
63. B. D. D. Chawls Worli.
64. Worli Road No. 13 A.
65. Globe Mill Passage.
66. Love Grove Road.
67. Dharavi Road.

APPENDIX No. 19—(Conctd.)

68. Mori Road, Mahim.
69. Sewri Wadala Road No. 30.
70. Vincent Square Road, No. 1.
71. Sion Road No. 1.
72. Sion Road No. 2.
73. Sion Road No. 3.
74. Sion Road, No. 3 B.
75. Sion Road No. 8.
76. Sion Road No. 24.
77. Sion Road No. 27 A.
78. Sion Road No. 28 A.
79. Sion Road No. 29.
80. Sion Road No. 30.
81. Sion Road No. 31 A.
82. Sion Road No. 32 A.
83. Sion Main Road.
84. Kohinoor Road No. 4, 6 & 8.
85. Duncan Causeway, Sion.
86. Bhalchandra Road.
87. Lakhamsi Napoo Road.
88. Vincent Square Road No. 2 & 3.
89. Sewri Wadala Road No. 33 A.
90. Babulnath 2nd & 3rd Cross Lanes.
91. West field Estate Off Bulabhai Desai Road.
92. Harkness Road.
93. Sardar V. Patel Road. (Sandhurst Road).
94. Masjid Bunder Road.
95. Abdul Rehman Street.
96. University Road.
97. Nicol Road.
98. Jamshedji Tata Road.
99. Bank Street.
100. Wittet Road.
101. Mayo Road.
102. Bhai Jivanji Lane.
103. Karel Wadi.
104. Sonapur Hindu Burial Ground.
105. Popat Wadi.
106. Narayan Dabholkar Road.
107. Khadilkar Road.
108. Bomanji Petit Street.
109. Mathew Road.
110. Walkeshwar Road.
111. Mangal Wadi.
112. Thakurdwar Private Lane.
113. Tata Road No. 2.
114. Bhatwadi Ist & IInd Lane.
115. Avantikabai Gokhale Road.
116. Borbluat Lane & X Lane.
117. Benham Hall Lane & X Lane.
118. Dr. Bhalerao Marg.
119. Khotachi Wadi, Girgaum.
120. Nikadwari Lane.
121. Akkalkot Lane.
122. Jail Road East.
123. Dr. Maheshwari Road.
124. Samuel Street.
125. Veer Vithaldas Chandan Street.
126. D'Souza Street, X Lane.
127. Garibdas Street.
128. Daryastan Street.
129. Janjekar Street.
130. Kumbharwadi X Lane.
131. Bardan Street.
132. Itala Street.
133. Surat Street.
134. Memonwada Road.
135. Chunam Kilan Lane.
136. Old Nagpada Road.
137. Syed Mukri Street.
138. Erskine Road.
139. Baroda Street.
140. Khatar Ali Lane.

APPENDIX No. 20.

Road junctions improved with high pressure mercury vapour lamps in All-In-Hiree Scheme.

1. Little Gibbs Road and Kemp's Corner Jn.
2. Mazgaon Road, Nesbit Road, & Dockyard Road, Jn.
3. Reay Road & Dockyard Jn.
4. Dhobi Talao Jn.
5. Babulnath, Walkeshwar & Netaji Subhash Road Jn.
6. M. G. Road, Waudby Road, Mayo Road & Napier Road Jn.

7. S. V. P. Road and Huges Road Jn.
8. Frere Road & S. V. P. Road Jn.
9. Dr. D. N. Road and Palton Road Jn.
10. Esplanade Band Stand at Madam Cama Road.
11. Maheshwari Udyan Jn. (King Circle Jn.).
12. Maharani Laxmibai Chowk.
13. B. E. S. T. terminus at Walkeshwar.
14. Shivaji Park Junction.
15. G. V. D. Paluskar Chowk (Opera House Junction.).
16. Kemp's Corner Junction.

APPENDIX No. 21.

Road junctions provided with 60 watts Traffic Directional Bollards.

1. Dr. D. N. Road, off Handloom House.
2. Ridge Road. (B. G. Kher Road.) Mount Pleasant Road Jn.
3. Ridge Road (B. G. Kher Road.) & Nepean Road.
(L. D. Ruparel Marg). Junction.
4. Reay Road.
5. Mia Mohamed Chotani Road.
6. Reay Road and Nawab Tank Bridge.
7. Madam Cama Road and Jivan Bima Marg.
8. Sion Road No. 16 & Central Divider.
9. Victoria Bridge & Reay Road & Nesbit Road.
10. Bhai Jiwaji Lane near S. K. Patil Udyan.
11. Hospital Lane & Dr. Ambedkar Road.
12. Sion Road No. 19 and Bhau Daji Road Extension.
13. Rampart Road & M. G. Road.
14. M. G. Road & University Road.
15. M. G. Road & Fuller Road.
16. Wodehouse Road & Kitridge Road.

APPENDIX No. 22.

The statement showing Roads provided with " new tungsten filament lamps. "

1. Fariyaz Hotel, Passage, Colaba.
2. Wadala Village Road.
3. Morachi Wadi Passage.
4. Approach Road, to 72 Tenements Parel.
5. Passage off Hughes Road.
6. Anant Wadi in C-Ward.
7. Khoja Lane Off Earskine Road.
8. 3rd, Popat Wadi off Bhuleshwar.

APPENDIX No. 23.

Municipal hutment colonies provided with lights under Improvement of slum Scheme.

1. Ganesh Nagar in F/South Ward.
2. 2nd October Colony F/South.
3. Mukund Nagar, Dharavi G/North.
4. Shastri Nagar in F/South Ward.
5. Kidwai Nagar in F/South Ward.
6. Bhoiwade Hutment Colony.
7. Sahu Nagar Colony near Jasmine Mills.
8. European Cemetery hutment Colony.

APPENDIX No. 24.

Roads on which traffic islands, Central dividers & R. C. C., railings were provided.

1. Wodehouse Road, Junction Foreshore Road.
2. Chowpatty Sea Face Jn. Pandita Ramabai Road.
3. Walkeshwar Road, Bus Terminus.
4. Bal Gangadhar Kher Merg Jn. Mount Pleasant Road.
5. Abdul Gafarkhan Road. Jn. Dr. Annie Besant Road.
6. Sane Guruji Marg-Near Sant Gadge Maharaj Chowk.
7. Dr. Ambedkar Rd. Jn. Love Lane.
8. Jamsedji Jijibhoy Road Jn. Nagpada Road.
9. Road No. 19 Sion Jn. Bhau-Daji Road.
10. Road No. 29, Jn. Sion Road No. 16.
11. Road No. 32, Jn. Sion Road No. 16.
12. Souter Road Jn. Sport Road.
13. Waude house Road, Jn. Kitridge Road.
14. Worli Hill Estate.
15. Madam Cama Road. Jn. Jeevan Bima Marg.

R. C. C. Railings. (City).

1. N. C. Kelkar Road, Near Plaza Cinema.
2. Cadell Road. Jn. Lady Jamshedji X Road. No. 2.
3. Lady Jamshedji Road, Near City Light Cinema.
4. Shivaji Park Junction.
5. S. Veer Sawarkar Marg Jn. Shivaji Park Road No. 5.
6. S. Veer Sawarkar Marg Junction Ranade Road.
7. King Edward Jn. Acharya Donde Marg.
8. Reay Road Near Dockyard Station.
9. S. K. Bole Marg-Near Pinto Villa School.
10. Jail Road (East) Opp. St. Joseph School.
11. Foras Road Jn. Falkland Road.

Central dividers.

1. Mohamedalli Road-from Mandvi Jn. to Chakla Jn.
2. Lokmanya Tilak Marg-from Dhobitalao to Crawford Market.
3. Mahatma Gandhi Road-from Museum to Waudby Road Jn.
4. Lady Jamsedji Road-from Shivaji Park Jn. to Shivaji Park Road No. 5.
5. Dadar T. T. Kerb to North Central Reservation.
6. Getway of India -Near Shivaji Statue.
7. Mahalaxmi Bridge-from bridge to Sant Gadge Maharaj Chowk.
8. Mohamedally Road. End of Paraloatic divider to Bhendi Bazar.
9. Dadabhai Naoroji Road-from Flora Fountain to Palton Road Jn.
10. Larmington Road from S. V. P. Road to V. P. Road.
11. Kenedy Bridge-Kerb to East Foot Path.

APPENDIX No. 25.

The statement showing location provided with Automatic traffic signals.

Sr. No.	Locations.
1.	Mahim Church Junction.
2.	Flashing Beacons on Dr. Ambedkar Road at Four places.
3.	J. S. Seth Road & Dr. B. Jaykar Marg.
4.	Lady Jahangir Road and Dr. B. Ambedkar Rd.
5.	Zakeria Bunder Road. Opp. Cotton Green. Railway Station.
6.	Senapati Bapat Marg & Fergusson Road.

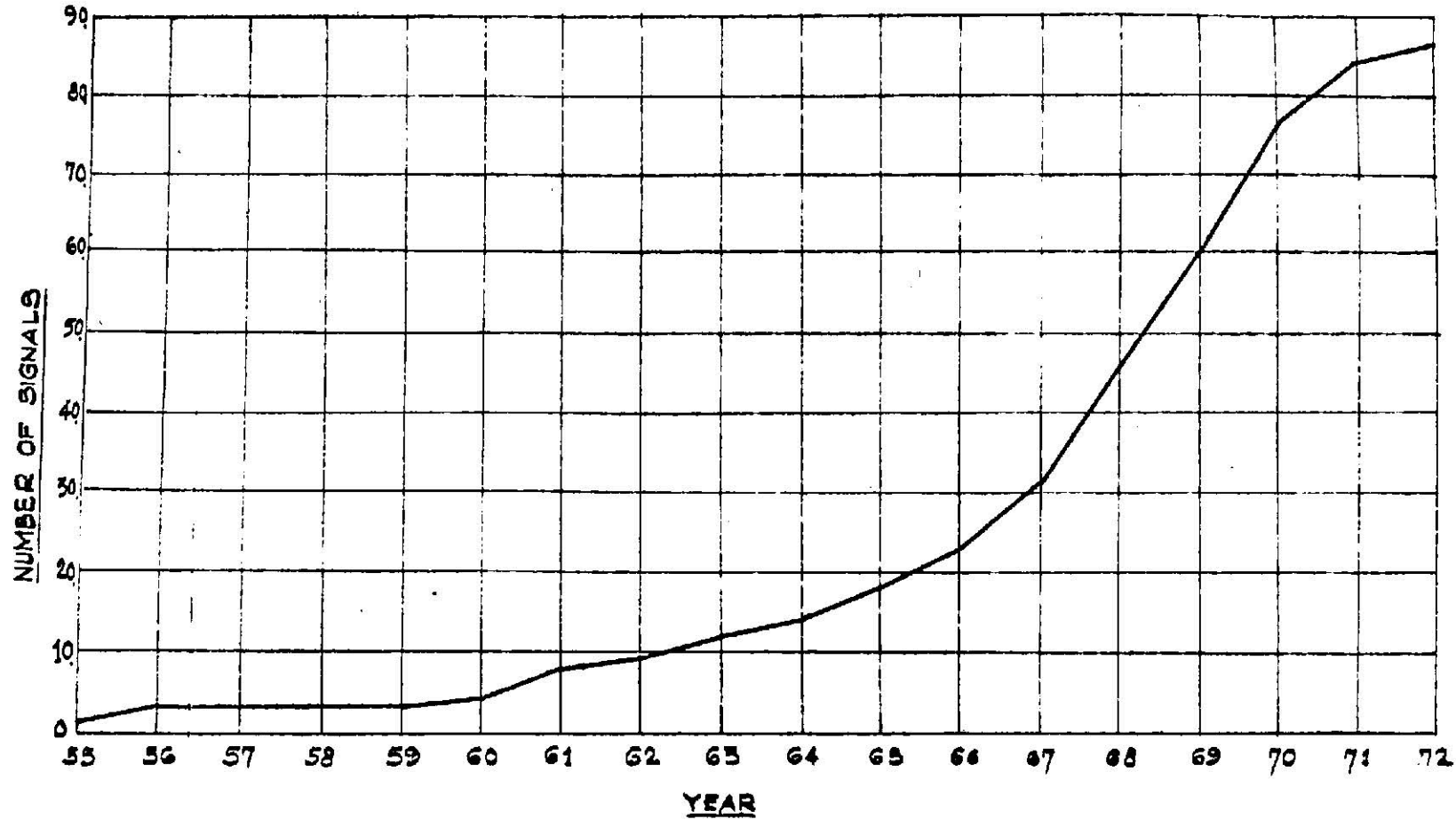
APPENDIX No. 26.

Roads on which regular lines were prescribed under section 297 (i) (a) of the B. M. C. Act.

Name of the Road.	Width.	Remarks.
1 Roads in Banganga Area.	... 12.20 M. 3.66 M. (40') (12')	Sanctioned by Corporation on 11-10-71
2 The junction of Dr. B. Ambedkar Road and Swami Gyanjivandas Marg.	CURVE	Sanctioned by M. C. on 12-7-71.
3 Junction of Road No. 18 and Road No. 33A (At Wadala Estate).		Sanctioned by M. C. on 12-7-71.
4 Senapati Bapat Marg Extension between Mori Road & Turner Road.	27.40 M. (90')	Approved by the Works Committee (City) on 10-11-71.
5 Dr. Bhalerao Marg between Maharsi Karve Road & Jagannath Shankar Road.	12.20 M. (40')	Approved by the works Committee (City) on 29-3-72.
6 Sasoon Dock 2nd Road.	... 21.35 M. (70')	Sanctioned by Corporation on 10-1-72
7 The junction of Reay Road and Nawab Tank Road.	CURVE	Corporation's sanction awaited.
8 Western Express Way.	... 30.50 M. (100')	Sanctioned by Corporation on 13-10-71.
9 Mahim Creek Connector.	... 29.26 M. (96')	do.
10 East Island Freeway (Part)	... 21.95 M. (72')	do.
11 Roads in Dharavi Layout.	... 18.30 M. (60')	Sanctioned by Corporation on 13-10-71

MUNICIPAL CORPORATION OF GREATER BOMBAY

TRAFFIC SIGNALS IN GREATER BOMBAY



10 May 72
2.
A. E.T. (SIGNALS)

H. P. ...
R. E. (T. & C)

APPENDIX No. 28.

Details of Action for Improvement of Pot. Streets in the City.

Sr. No.	Name of the Street.	Remarks.
1	Private Street at Govalia Tank Road. ...	Action under Section 305 of the Act. Fencing on the disputed portion was removed and work of improvement of the said portion was 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 being verified by the Chief Accountant's Office. The street will be declared public under Section 306 of the Bombay Municipal Corporation Act, after demand notices are served.
3	Private street known as Govalia Chawl Lane, Off : Globe Mill passage. ...	Action under Section 377(1A) of the Act. Work of Improvement was completed. Accounts were being verified by the Chief Accountant's Office.

APPENDIX No. 29.

Improvements of Private Streets at the frontager's cost without resorting to Action under Section 305 of the Bombay Municipal Corporation Act.

Sr. No.	Name of the Street.	Remarks.
1	Private Street Off : Dr. S. S. Rao Road, leading to Rajkamal Studio. ...	Work completed except street lighting.
2	Private Street from Dr. E. Moses Road (Haines Road) to Stores Depot of Western Railway....	Work completed. Accounts were to be verified by Chief Accountant.

APPENDIX No. 30.

Action taken under Section 305 of the Bombay Municipal Corporation Act to improve the private streets in the City limit.

Sr. No.	Name of the Street.	Remarks.
1	Private Streets in Tokersey Jivraj Wadi, Off : Tokersey Jivraj Road, Seweri. ...	Notice under Section 305 of the Act served and the work of improvement was being carried under Section 489 of the Act. Sewer and S. W. drain works were in progress.
2	Private Streets in Sunderji Liladharwadi, Off : Seweri Road, Seweri. ...	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.
3	Private Street between Chinchpokli Cross Lane and Dhaku Prabhuwadi near Pallonji Chawl....	Notices under Section 305 served and work was proposed to carry out under Section 489.
4	Private Street between Kakadwadi and V. P. Road. ...	Road work was completed and lighting work was being attended to.
5	Private Street, Off : Bhulabhai Desai Road leading to Dhakleshwar Temple. ...	Lighting work was completed and road work was in progress.

APPENDIX No. 31.

List of Municipal references dismissed by the Chief Judge of the Small Causes Court and in respect of which leave to appeal to Supreme Court has been granted by High Court.

Sr. No.	References	Name of the Respondent	Locality	Remarks.
1	M/123 of 1959 ...	Ranchoddas Gopaldas and others	1st Pasta Lane.	Leave to appeal to Supreme Court granted by High Court.
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 Bansilal and others.	do.	do.

APPENDIX No. 32.

List of Private streets in which preliminary action was taken to Improve the same under Section 305 of the Bombay Municipal Corporation Act.

Serial No.	Name of the Street.	Remarks.
1	Private Street by the south side of Kaiser-I-Hind Mill, off; Rambhau Bhogle Marg. ...	Notices issued & being served to the frontagers.
2	Private Street between Mazgaon Road and Belvedor Road in Bhardiwadi. ...	do.
3	Private Street leading to Hussein Lakda Bazar, Off: Maulana Azad Road, C. S. No. 1577. ...	Action under Section 305 is being taken.
4	Private Street known as Khambatta Lanes, near Victoria Garden P. O. off: Dr. Ambedkar Road. ...	do.
5	Private Street known as Tata Road No. 1 and 2 in Swadeshi Mills Estate between Mama Pramanand Road, Jagannath Shankarseth Road and Raja Ram-mohan Roy Road. ...	do.

APPENDIX No. 33.

Statement showing the number of tenements constructed by private parties during the year 1971-72.

Wards.	No. of one room tenement.	No. of two room tenement	No. of blocks.	Total
'A'	Nil.	57	164	221
'B'	Nil.	29	4	33
'C'	Nil.	8	Nil.	8
'D'	Nil.	6	339	345
'E'	Nil.	120	225	345
'F/S'	Nil.	2	5	7
'F/N'	Nil.	4	28	32
'G/S'	91	Nil.	14	105
'G/N'	50	39	121	210
Total	141	265	900	1306

APPENDIX No. 34.

Detailed report of total out put of Municipal Foundry and sanctioned rates for castings for the year 1971-72

Serial No.	Type of castings.	Nos.	Weight in Kgs.	Rate	Per	Amount.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	C. I. Manhole frames & covers complete	795	194775.0	Rs. 144.00	P. Each	Rs. 1,14,480.00
2	C. I. O. P. Boxes	5	135.0	30.80	"	154.00
3	C. I. S. T. Large Boxes	26	390.0	17.40	"	452.40
4	C. I. Round Boxes	5	90.0	17.40	"	87.00
5	C. I. Gas Boxes	7	133.0	1.50	Kg.	199.50
6	C. I. gratings 20"×19"×2½"	9	612.0	1.50	"	918.00
	Do. 19½"×18"×2"	4	204.0	1.50	"	306.00
8	Do. 19"×19"×2"	6	307.0	1.50	"	460.50
9	Do. 18½"×18½"×2"	5	255.0	1.50	"	382.50
10	Do. 18½"×18"×2"	5	230.0	1.50	"	345.00
11	Do. 6"×6"×½"	200	240.0	3.70	Each	740.00
12	Do. 8"×8"×½"	25	60.0	4.30	"	107.50
13	Do. 5" dia.	40	16.0	2.10	"	84.00
14	C. I. Machinable castings	...	28000.0	2.00	Kg.	5,6000.00
15	C. I. Non-Machinable castings	...	250.0	1.50	"	375.00
16	C. I. Wheels 6"×2"	33	165.0	2.00	"	330.00
17	C. I. Dhapa frames	12	348.0	2.00	"	696.00
18	C. I. Check Chairs K. D. Rly.	23	621.0	2.00	"	1,242.00
Non Ferrous						
19	Gunmetal casting 88-10-2 complete	...	600.0	25.80	Kg.	15,480.00
20	Gunmetal casting 87-7-3-3 do.	...	2800.0	22.40	"	62,720.00
21	Brass casting	...	2100.0	14.00	"	29,400.00
22	Aluminium casting	...	40.0	16.80	"	672.00
23	Copper casting	...	55.0	14.00	"	770.00
24	Aluminium House number plates	518	80.0	4.50	Each	2,331.00
25	Filling in white metal Bearings	9	...	67.20	"	604.80
Total			232506.0			2,89,337.20

APPENDIX No. 35.

Statement showing the details of work carried out by Electrical Planning & Design Section during 1971-72.

Item	Description	Nos. of Estimates prepared	Amounts.		No. of Tenders Advertised		No. of Tenders Recommended		Amount.		
			Rs.	P.	Elect. Deptt.	with Civil	Elect. Deptt.	With Civil.	Elect. Deptt.	With Civil.	
1	Schools	6	2,03,085.00		10	1	9	1	8	62,990.00	3,34,985.00
2	Housing	8	3,25,705.00		10	1	9	1	3	21,937.00	1,59,090.00
3	Lifts	5	2,16,852.00		5	1	...	1	...	62,134.00	...
4	Hospitals	4	2,41,100.00		5	...	4	...	4	...	4,22,300.00
5	Palant & Machinery	3	58,560.00		3	1	2	1	2	10,047.00	52,980.00
6	Markets	2	65,400.00		2	1	1	1	1	59,625.00	5,080.00
7	Ward Offices	2	1,02,100.00		2	...	2	...	2	...	1,04,200.00
8	Fire Stations	1	1,07,000.00		1	...	1	...	1	...	1,25,000.00
9	Miscellaneous	6	4,91,412.00		3	2	1	2	1	38,118.00	21,240
	Total	37	18,11,214.00		41	7	29	7	22	2,54,851.00	12,24,875.00

APPENDIX No. 36.

Statement showing the details of works carried out by the Building Construction (Electrical Section) Zone I during 1971-72.

Serial No.	Description of the work	No. of works completed	Total cost		Nos. of works in progress.	Total cost.	
			Rs.	P.		Rs.	P.
1	(A) Electrification of and providing electrically driven water pumping sets at :—						
	(a) Residential Building	1	1,27,391.00		2	2,40,884.00	
	(b) School	1	26,068.00		1	58,180.00	
	(c) Hospital and Maternity Home	1	2,09,120.00		...	...
	(d) Dispensary	1	9,060.00		...	...
	(e) Welfare Centre	1		...	...
2	(B) Supply and installation of electrically driven water pumping sets at residential colonies	2	97,500.00		...	...
3	(C) Supply and installation of electric lifts at residential buildings, hospitals, offices, etc.	3	1,27,200.00		2	5,76,480.00	
	Total	10	5,96,339.00		5	8,75,544.00	

APPENDIX No. 37.

Statement showing the details of works carried out by Electrical Section Plant and Machinery during the year 1971-72.

Serial No.	Nature of work	No. of work orders received.	No. of Esti-mates prepared	Total cost of Esti-mates.	No. of works execut-ed Dept ly.	Total cost	No. of Tenders-Quotations in- vited.	Total cost	No. of Misc purchase and repairs	Total cost.
(1)	(2)	(3)	(4)	(5)	(6)	(8)	(8)	(9)	(10)	(11)
				Rs.		Rs.		Rs.		Rs.
1	Providing electrical wiring installations electrical connections for power, lighting, Rewiring, etc.	621	54	4,38,590	325	1,81,250	24 (1 Tender)	1,71,550	...	...
2	Supply and installations of water pumping sets	...	3	22,470	...	...	8	24,600	...	...
3	Supply and installations of lifts, Inter-com-units, Geysers Capacitors, Kitchen Equipment, etc.	...	...	...	...	...	10 (1 Tender)	76,050	...	...
4	Supply and installation of ceiling, Table, Exhaust and Pedestal Fans, Air-circulators etc.	12	12	71,306	12	71,306	20	49,750.00	...	...
5	Supply & installation of Fluorescent Fittings, Duoflux Fittings, gate lights, Flood lights etc.	...	...	...	...	...	14	35,550	9	10,800
6	Purchase of cables and wires & other electrical accessories	23	...	...	...	...	29	65,200	23	10,200
7	Supply of Busbars, Electric Motors, M. S. Boxes, Conduit pipes, Switchfuses, Starters, etc.	...	9	2,575	...	...	9 (1 Tender)	42,900	9	2,600
8	Repairs, rewinding of electrical Motors, pumps, repairs to ceiling fans; starters, Switchfuses & other electrical appliances and machines	378	...	...	344	42,585	19	37,150	90	1,22,600
9	Servicing and maintenance and repairs of electric lifts and Inter-com-Units	...	...	...	...	...	8	27,000	...	...
	Total	1034	78	5,34,941	681	2,95,141	141 (3 Tenders)	5,29,750	131	1,46,200

APPENDIX No. 38.

Statement showing the details of work carried out by Electrical Section Ward Maintenance during the year 1971-72.

Serial No.	Type of Buildings	No. & Type of Estimates				Total cost of esti-mates.	Works carried out by tenders/quotations				Total cost.
		Electri-fication works	Provi-ding Water Pump-ing sets.	Provi-ding Electric Fans and Fittings	Provi-ding So-und Sys-tems & Project-tors.		Electri-fication works.	Prvi-ding pumping Sets Star-ters, etc	Provi-ding Elec-tric Fans & Fitting	Porvi-sound Systems	
(1)	(2)	(3)	(4)	(5)	(7)	(8)	(9)	(10)	(11)	(12)	
						Rs.				Rs.	
1	Chawls, Staff Quarters & Labour Camps	36	11	...	...	14,90,650	24 (10 Tenders)	20	1	...	6,58,200
2	Schools	35	13	32	35	12,00,000	20	11	25	4	1,98,350
3	Markets	10	...	...	...	1,32,950	7 (3 Tenders)	...	1	...	85,600
4	Offices	20	...	...	...	3,00,000	11	3	13	...	48,250
5	Maternity Homes & Dispensaries & Clinics.	16	...	...	...	1,11,400	7 (1 Tender)	3	6	...	55,650
6	Cemeteries	4	...	...	...	41,600	2	...	1	...	15,150
7	Fire Brigade Stations	2	...	...	...	19,800	2	...	...	...	8,200
8	Birla Kreedra Kendra, Welfare Centres, Open Air Theatres, Sports Clubs etc.	3	...	...	...	3,550	3	...	2	...	15,800
9	Gardens & Fountains	26	...	...	...	9,44,250	11 (5 tenders)	4	7	...	1,00,700
10	P. S. Cs.	20	...	...	...	59,200	10	...	...	...	15,800
11	Refuse siding, Dumping Grounds Dhobi Ghat etc.	7	...	...	...	17,750	2	...	...	...	15,500
	Total	179	24	32	25	43,21,150	99 (19 Tenders)	41	56	4	12,17,200

APPENDIX No. 39.

The details of work carried out by the Refrigeration Section for the year 1971-72. (Zone-I, Zone-II and Zone-III).

Nature of Proposal	No. of estimates prepared	Amount		No. of Tenders recommended extended	Amount		Total	
		Rs.	P.		Rs.	P.	Rs.	P.
(A) Loan Works :—								
(1) Purchase of New equipments								
(a) Central Air-conditioning Plants ...	13	19,03,610.00		2	10,64,700.00			
(b) Packaged do. do. ...				5	4,19,353.00			
(c) Window units ...				6	1,29,410.00			
(a) Mortuary Plants ...				2	1,61,345.00			
(3) Walk-in-coolers ...				1	22,400.00			
				Total ...	17,97,208.00			17,97,208.00
(B) Revenue Works :—								
(1) Purchase of New equipments								
(a) Packaged air-conditioning plants. ...				2	50,000.00			
(b) Window units ...				20	1,90,000.00			
(2) Repair Works ...				25	76,000.00			
(3) Maintenance Servicing ...				12	12,000.00			
				Total ...	3,28,000.00			3,28,000.00
Total ...	13	19,03,610.00						21,25,208.00

APPENDIX No. 40.

DEONAR ABATTOIR.

Works completed in all respect during the year 1971-72.

Serial No.	Name of the work.	Contract Allotment.	
		Rs.	P.
1	Construction of Bldgs. for sheep & goat slaughter House (Phase I).	...	18,54,578.10
2	Construction of Building for cattle slaughter House and by-product plant (Part II)...	10,69,	114.40
3	Construction of loading and unloading platforms with ante-mortem inspection pens....	2,82,	190.63
4	Construction of pig market shed.	...	70,562.00
5	Providing hot and cold water pipe line system.	...	15,57,970.16
6	Electrification of loading and unloading platforms with ante-mortem inspection pens....	...	36,266.04
7	Electrification of pig market shed.	...	4,056.97

APPENDIX No. 41.

DEONAR ABATTOIR.

Works in progress in the year 1971-72.

Serial No.	Name of the work.	Contract allotment.	
		Rs.	P.
1	Construction of four livestock market sheds (phase II.)	...	13,33,198.84
2	Construction of Roof over the four livestock market sheds.	...	15,11,875.00
3	Filling and levelling ingrazing yard area, constructing water drinking troughs and providing asphalt passages from unloading to market sheds.	...	5,89,762.81
4	Electrification of livestock market sheds.	...	1,04,321.93

APPENDIX No. 42.

Statement showing the works of Building Construction in progress and those completed in Zone-II & III (G/North, H, K, P wards and L, H, N & T wards.) in the year 1971-72.

Serial No.	Name of the work.	Estimated cost		Expenditure upto 31-3-72.	
		Rs.	P.	Rs.	P.
A.—Works completed.					
<i>(a) Housing.</i>					
1	Construction of R. M. O's quarters at L. T. M. G. Hospital... Sion.	11,75,481.00		7,91,309.65	
2	Construction of 328 tenements and 12 shops at Raoli.	26,36,578.00		22,01,803.91	
<i>(b)-Building other than Housing.</i>					
1	Construction of Eastern approach to proposed road over bridge at Andheri.	38,39,818.00		2,11,704.00	
2	Filling low-lying land and construction of compound wall for the proposed transport Garage at Poisar, Kandivli.	96,949.00			
3	Construction of additional floor over the school building at Prabhat Colony Santacruz (East), T. P. S. V.	3,60,670.00			
4	Providing complete North light roof over the open parking place at Malad Transport Garage.	1,37,765.00			
5	Construction of a Temporary Zonal Office building in the compound of Rajawadi Hospital Ghatkopar.	2,44,666.00		2,09,676.17	
6	Construction of Temporary O. P. D. shed in the compound of Rajawadi Hospital, Ghatkopar.	1,61,458.00		1,23,885.29	
7	Construction of a school building at Matunga behind Matunga station.	13,63,753.00		6,63,152.20	
8	PILE foundation work for the proposed school building at Reynolds Road, Wadala (revised.)	1,14,953.00		1,14,948.15	
B.—Works in Progress.					
<i>(a)—Housing.</i>					
1	Construction of tenements at Shradhanand Road Vileparle.	1,98,465.00			
2	Construction of compound wall around Municipal Housing Colony near Jasmine Mill at Dharavi.	1,60,856.00			
3	Construction of 4 buildings of 36 tenements each at Deonar Colony (part. I.)	11,98,341.90			
4	Construction of 7 buildings of 36 tenements each at Deonar (Part II.)	18,29,519.41			
5	Construction of 40 tenement at Sion Village.	5,14,041.64			
6	Construction of 230 tenements and 20 shops at Raoli Koliwada.	22,10,984.14			
<i>(b)-Building other than Housing.</i>					
1	Construction of Central Workshop for Municipal Suburban Transport Division at Santacruz (West).	22,85,813.00			
2	Proposed extension to the existing Maternity Home at Goregaon....	4,88,132.00			
3	Providing additional amenities at Daulat Nagar Cemetery, Borivli (East).	2,83,264.00			
4	Construction of school building at Tata compound Andheri (West).	7,59,205.00			
5	Construction of Municipal school building on Chinwalla Land off S. V. Road, Kandivli (West).	13,95,157.00			
6	Extension to school bldg. at Vakola, Santacruz (East).	7,21,837.00			
7	Proposed extension to school bldg. at M. G. Road Vileparle (East).	4,66,770.00			
8	Construction of a General Hospital-cum-Maternity Home on Plot No. 34, T. P. S. III, Santacruz. (East).	28,64,278.00			
9	Construction of Municipal Market on Plot No. 42-B-43, T. P. S. III, Vallabhbai Road, Vileparle (West).	22,00,614.00			
10	Extension and additions to the existing school building at Dattapada Road Borivli (East).	5,70,210.00			
11	Construction of a Municipal school building at S. No. 145, Marol Village, Andheri.	14,62,896.00			

APPENDIX No. 42—Contd.

Serial No.	Name of the work	Estimated Cost		Expenditure upto 31-3-72	
		Rs.	P.	Rs.	P.
12	Construction of a Temporary open Air Market on Plot No. A6 at J. V. P. D. Scheme. ...	2,72,552.00			
13	Construction of quarters for Medical staff and Nurses at the newly constructed Hospital at J. V. P. D. Scheme. ...	28,64,278.00			
14	Extension of Municipal school building at Old Nagardas Road, Andheri (East). ...	4,10,775.00			
15	Extension to school building at Squatter's Colony, Jogeshwari. ...	9,63,558.00			
16	Construction of Western Approach to proposed road over bridge at Andheri. ...	30,62,271.00			
17	Construction of a market at Raoli Koliwada. ...	11,32,909.74			
18	Construction of fruit and vegetable market at Matunga (Phase B). ...	7,48,308.05			
19	Construction of a Medical college building at L. T. M. G. Hospital, Sion. ...	40,66,412.57			
20	Construction of a school building at Dockyard Colony, Powai. ...	10,02,888.75			
21	Construction of a school building at Bail Bazar Kurla. ...	9,06,707.47			
22	Construction of a building for proposed T-ward office at Devidayal road Mulund (West). ...	17,42,546.56			
23	Extension to 'N' ward office building on market portion side at Ghatkopar (East). ...	9,90,716.45			
24	Expansion of Acworth Leprosy Home at Wadale. ...	7,77,634.27			
25	Construction of proposed 1,82,400 litre suction tank at Sion Koliwada for L. T. M. G. Hospital staff quarters. ...	86,920.69			
26	Construction of superstructure for school building at Reynolds Road, Wadala. ...	7,79,495.85			
27	Fill in low lying area and construction of compound wall at Racli camp near Guru Nanak School. ...	4,47,434.08			

APPENDIX No. 43.

Statement showing the works of road construction in progress and the three completed in zone II & III in the year 1971-72

Serial No.	Name of the work.	Expenditure	
		Rs.	P.
Works completed.			
1	Construction of the remaining roads in Mahim Town Planning Scheme-IV in full grouting. ...	3,64,503.00	
2	Resurfacing with cement concrete, Shivaji Park junction. ...	3,13,084.00	
3	Construction of remaining roads in T. P. S. III (Mahim) in cement concrete including drainage. ...	1,48,945.00	
4	Improving and widening 33rd Road, Bandra, T. P. S. III, including S. W. Drains....	2,02,929.00	
5	Widening and improving 13th Road, Khar, including S. W. Drains. ...	3,25,124.00	
6	Concreting passages in Danda Pada village, Khar. ...	3,40,360.00	
7	Remaining work of widening Mathuradas Vasanji Road near Marol Market and Mithi River bridge in asphalt macadam. ...	1,33,086.00	
8	Widening and improving of Swami Vivekanand Road from Piramal Industries to Goraswadi, Stage II. ...	19,14,397.00	
9	Construction of an access road to refuse dumping ground at Malad. ...	1,92,241.00	
10	Widening of Shantilal Mody road from Swami Vivekanand Road to proposed 13.40 Metres Road at Kandivli. ...	2,69,203.00	
11	Construction of cement concrete portion of Swami Vivekanand Road adjoining Borivli Level Crossing. ...	1,43,700.00	

APPENDIX No. 43—Contd.

Serial No.	Name of the work	Expenditure	
		Rs.	P.
12	Widening of Mathuradas road from Swami Vivekanand Road to Jamu Kunj at Kandivali.	3,33,770.00	
13	Widening of Lokmanya Tilak road from Babhai to Gorai creek, Borivli.	3,37,314.00	
14	Construction of access and loop roads in Dharavi Dumping ground.	3,00,698.00	
15	Construction of 15.24 m. (50') wide road at Lohar gully of Improvement Trust Scheme No. 76.	1,59,055.00	
16	Construction of 9.15 m. width (out of 30.5 m.) road in full grouting in plot No. 18-19 T. P. S. VI Santacruz.	5,50,556.00	
17	Widening of Suren Road Andheri with Storm water drain.	1,75,000.00	
18	Improvement of the existing kutchha road joining 30.50 metres. Linking Road, and 18.30 Mts. wide road in J. V. P. D. Scheme Vil parle (West).	42,500.00	
19	(1) Road Resurfacing in Asphaltic Concrete.		
	Re-surfacing Dr. Ambedkar Road from B. N. Maheshwari Udyan to Khodad Circle.	9,17,753.00	
	Construction of brick masonry channel with R. C. C. dhapa in the central reservation on the road between B. N. Maheshwari Udyan and Khareghat at Dr. Ambedkar Road. (For Bombay Tel. phones.).	90,096.25	
	(2) Widening and improving the roads with S. W. Drains.		
20	Construction of proposed 18.30 mts. (60') road between Ram Krishna Chemburkar Marg (Ghatkopar Mahul road) and Deonar on the north of Kurla Mankhurd Rly. including S. W. Drains (in asphalt macadam)	3,78,171.75	
21	Construction of internal roads in Slaughter House at Deonar including providing S. W. Drains and culvert (in asphalt macadam) at Deonar.	15,10,992.44	
22	Construction of proposed access road to the dumping site near Truck-Terminal Mulund.	3,18,074.37	
23	Widening of Sapled pool and training of Nalla on Mathurdas VasANJI Road, Kurla....	1,40,610.00	
24	Proposed slum improvement to Nimboni Baug South of K. D. Railway.	1,41,540.00	
25	Construction of an approach road to the Deonar Pumping station (in asphalt macadam) Deonar.	1,49,265.00	
26	Widening and improving Parsiwadi road No. 1 including providing storm water drains, Ghatkopar.	1,04,413.20	
27	Improving and widening the existing Agarwadi Road between Sion Trombay Road and 4th road, Deonar.	1,77,909.49	
28	Asphalt paving the internal roads and providing S. W. drains at Slaughter House, Deonar.	19,00,096.00	
29	Construction of a road for refuse dumping in Deonar.	6,50,853.00	
30	Providing embankment for the proposed K. D. Railway Deonar.	1,75,050.00	
31	Widening and improving Sarogini Naidu Road, Mulund.	1,64,759.00	
32	Construction of path ways at New Municipal Colony, Deonar	48,600.00	
33	Construction of road leading to Pratap Nagar off Jangal Mangal Road, Bhandup	2,27,876.00	
34	Providing storm water drain for a portion of pipe road and Masrani Lane, Kurla	1,55,670.00	
35	Construction of 18.30 metres road leading to slaughter House, Deonar, construction of sand wicks/sand drains	1,72,822.00	
36	Proposed extension of Gamdevi Road including S. W. Drains	87,904.00	
	(3) Providing Storm water drains.		
37	Providing storm water drain along Dedidayal Road Mulund	3,23,290.00	
	(4) Improving Private Lanes.		
38	Construction of a road leading to Karjolkar Society of L. B. S. Marg Ghatkopar	76,507.00	

APPENDIX No. 43—Concl.

Serial No.	Name of the work.	Estimated cost.	
		Rs.	P.
<i>Works in Progress 1971-72.</i>			
1	Laying asphaltic concrete over Swami Vivekanand Road from Andheri Naka to Oshivra	...	16,69,600.00
2	Widening of Jawahar Nagar Road, No. 2, at Goregaon	...	2,27,237.00
3	Resurfacing existing cement road in c. c. and widening the remaining portion of 78' wide road to its full widths from 44' road to Estrella Batteries	...	9,59,605.00
4	Construction of 13.41 M. (44') wide road in semi grouting in Dharavi Development Scheme	...	2,33,037.00
5	Widening and improving Parsi Panchayat road Andheri including providing S. W. Drains	...	2,60,005.00
6	Rebuilding of remaining portion of Oshivra bridge Jogeshwari	...	16,53,550.00
7	Widening and improving old Nagardas road Andheri including providing storm water drains.	...	5,87,441.00
8	Providing S. W. drains in Liberty Garden Scheme at Malad	...	1,88,855.00
9	Widening of Aarey Road at Goregaon from S. V. Road to Express Highway	...	12,56,546.00
<i>(I) Resurfacing in asphaltic concrete or cement concrete.</i>			
10	(i) Resurfacing with cement concrete Sion road, between telephone exchange Building and L. T. M. G. Hospital	...	1,33,715.00
<i>(II) Road widening and improving with S. W. Drain</i>			
11	Widening and improving Mathurdas VasANJI Road with S. W. Drains Kurla	...	9,24,711.77
12	Widening and improving Govandi station road with S. W. Drains	...	10,10,630.00
13	Proposed octroi and truck terminus at Bombay Panvel Road near Panvel Bridge	...	6,66,789.00
14	Approaches to Govandi Bridge at Deonar	...	35,00,000.00
15	Construction of proposed sewri Chhatkopar Road	...	7,73,043.00
16	Widening and improving Gokhale Road, Sant Tukaram Road, Sant Ramdas Road Mulund (East).	...	4,71,249.00
17	Widening and improving Mahatma Phule road and providing S. W. Drain in Mulund	...	4,26,452.00
18	Construction of 18,288 metres wide Shaikh Mistry Road from Darga to Metropolitan Spring Mill at Wadala	...	8,83,397.00
19	Construction of 9,144 mts. wide road Raoli	...	1,53,616.00
20	Widening and improving road leading to Vidyavihar (West) off L. B. S. Marg	...	9,36,927.00
21	Widening and improving Lokmanya Tilak Road, Mulund (East).	...	4,25,527.00
22	Improving and widening of 30' and 44' roads in Mulund in Gavade Vinze Scheme	...	7,04,185.00
23	Construction of 18.29 mts. wide road No. 33A between road No. 18 and 23 in Semi grouting including foot paths on both sides	...	4,24,190.00
24	Widening and improving the road leading to Chittaranjan Nagar upto Rajawadi Vidyavihar (East)	...	1,56,336.00
<i>(III) Providing S. W. Drains.</i>			
25	Providing S. W. drain at Municipal Colony, Deonar	...	8,67,540.00
26	S. W. Drain at K. D. Railway, Deonar	...	1,23,367.00
27	Construction of S. W. Drain along station Road, Vikhroli	...	73,022.00
28	S. W. Drain at Bhandup Village	...	71,043.00
29	S. W. Drain along Kanjur Village, Road, Bhandup	...	1,39,196.00
30	Widening culvert on central Selectte Track road, Kurla (East)	...	2,43,980.00
31	Providing S. W. Drain on Lal Bahadur Shastry Marg, Bail Bazar to Magan Nathuram Road	...	9,36,684.00
32	Construction of storm water drain in Katcharwadi area, Kurla	...	1,01,260.00
<i>(IV) Improving of Private Lane</i>			
33	Improvement of road leading to Rifle Range, Chhatkopar	...	1,26,168.00

APPENDIX No. 44

Drainage Construction Zone II & III

Works completed during 1971-72 in Zone II area.

Serial No.	Name of the Work	Expenditure incurred (Approximately)	
		Rs.	P.
1	Providing and laying 230 mm. dia. sewer for sub-plot 20, 21, 22, 23 along 100' wide D. P. Road final plot 18, 19 in T. P. S. VI in Santacruz (West)	...	1,60,000.00
2	Providing and laying 230 mm. dia sewer in Pali Hill	...	1,52,000.00
3	Providing and laying S. W. Sewer in Koldongri 60' road Vile Parle (East)	...	1,16,000.00
4	Providing and laying S W. Sewer in area E & I, J. V. D. P. Scheme Vile Parle (West)	...	1,10,000.00
5	Providing and laying 230 mm. & 330 mm. diameter S. W. pipe in Malad (West) Area I	...	1,70,000.00
6	Providing and laying 230 mm. & 300 mm. diameter S. W. Pipes in Malad (West) Area I	...	1,90,000.00
7	Providing and laying 230 mm. dia. S. W. pipe sewer in Malad (West) Area 'G'	...	1,95,000.00
8	Providing and laying 230 mm. and 300 mm. dia S. W. pipe sewer along Chincholi Road Malad (West) Area 'H'	...	2,85,000.00
9	Providing and laying 230 mm. and 300 mm. dia. S. W. sewer in Ramgully in Area 'B' Kandivli (West)	...	1,27,311.00
10	Providing and laying 230 mm. dia. S. W. sewer along Khajuria road in area 'E' Kandivli (West)	...	1,51,000.00
11	Providing and laying 700 mm. dia. 900 mm. dia R. C. pipe sewer in Shankar Gully (Remaining works)	...	1,55,235.00
12	Providing and laying 230 mm. dia. S. W. pipe sewer along Station Road in area 'G' Kandivli (West)	...	1,90,000.00

Works completed during 1971-72. Zone III Area.

Serial No.	Name of the work	Estimated cost.		Actual cost.	
		Rs.	P.	Rs.	P.
1	Providing and laying 230 mm. 300 mm. dia. stoneware pipe sewer along Lokmanya Tilak road and Mahatma Phule road at Mulund (East)	...	2,53,670.00	1,47,526.00	
2	Providing and laying 230, 300 mm. dia. stone ware pipe sewer and 400 mm. dia. R. C. pipe sewer at Mulund (East) Area 'B'	...	3,00,742.00	1,94,890.00	
3	Removing choke from 30" dia. main sewer from Somaiya College to Nathani Steel Yard, Vidyavihar, Kiroli Chhatkpar	...	25,000.00	20,000.00	
4	Providing and laying 230 mm. dia. stone ware pipe sewer in Kamgar Co.-operative Society at Kurla	...	95,225.00	69,961.00	
5	Providing and laying 400 mm. dia. R. C. H. P. Sewer and 230 mm. dia. stone ware pipe sewer in the remaining area of Sindhi Immigrants Society at Chembur	...	1,27,994.00	99,082.00	
	Total	...	8,02,631.00	5,30,459.00	

Work in progress during 1971-72 in Zone II Area

Serial No.	Name of the Work	Estimated cost.	
		Rs.	P.
1	Construction of Pumping Station at Kherwadi Bandra East	...	19,39,659.34
2	Providing and laying 1050 mm. dia. C. I. pipe from Kherwadi Pumping Station to culvert on Western Express Highway, Bandra	...	17,76,007.33
3	Providing and laying 230 mm. and 300 mm. dia. S. W. drain pipe sewer in Bazar Road	...	1,07,336.93
4	Providing and laying 350 mm. dia. R. C. Hume Pipe Sewer from Bazar Road to Banderwadi Pumping Station	...	1,24,960.83
5	Providing and laying 1200 mm. dia. H. P. Sewer across Western Express Highway near Kalanagar at Bandra (East)	...	1,27,150.02

APPENDIX No. 44—Contd.

Serial No.	Name of the Work.	Estimated cost.	
		Rs.	P.
6	Providing and laying 230 mm. and 360 mm. W. sewer in Area A & C, J. V. D. P. Scheme, Vile Parle (West.)	3,60,670.25	
7	Providing and laying 230 mm. and 300 mm. S. W. sewer in area B. & D, J. V. D. P. Scheme, Vile Parle (West.)	3,88,424.89	
8	Providing and laying 230 mm. S.W. sewer in area E. & F. G. & H. J. V. D. Scheme, Vile Parle (West.)	5,05,537.92	
9	Providing and laying 350 mm. dia. R. C. C. sewer and 300 mm. and 230 mm. S. W. sewer in Juhu Area, A, Vile Parle, (West)	4,99,594.00	
10	Providing and laying 230 mm. S. W. sewer in area G. & E, T. E. S. V, Vileparle (East.)	3,59,471.63	
11	Providing and laying 900 mm. dia. sewer in parts III & IV along Western Express Highway	7,34,401.51	
12	Providing and laying 900 mm. dia. sewer in Part I & II along Western express highway	6,18,560.85	
13	Providing and laying 300 mm. and 230 mm. S. W. sewer in area, B Juhu Vileparle (West)	4,35,086.64	
14	Providing and laying 600 mm. R. C. Pipe sewer in Area L, Andheri (East)	1,56,207.00	
15	Providing and laying 230 mm. (9") S. W. pipe sewer in area C, D, E, T. P. S. V. Vile Parle (East)	5,64,467.79	
16	Providing and laying 230 mm. (9") dia. S. W. pipe sewer in area A & B, T. P. S. V. Vile Parle (East)	5,84,738.79	
17	Providing and laying 350 mm. R. C. Pipe sewers and 230 mm. s. w. sewers from Royal Hotel to Juhu Church	6,25,947.41	
18	Providing and laying 230 mm. and 300 mm. dia. s. w. pipe sewers in area A Malad (West)	2,75,007.00	
19	Providing and laying 230 mm. and s. w. pipe sewers in area B—Malad (West)	2,77,975.00	
20	Providing and laying 230 mm. and 300 mm. and 450 mm. pipe sewers in Area C Malad (West)	2,10,498.00	
21	Providing and laying 230 mm. and 300 mm. dia. s. w. pipe sewer in area D Malad (West.)	5,17,654.00	
22	Providing and laying 230 mm. and 300 mm. dia. s. w. pipe sewer in area E Malad (West)	3,91,518.00	
23	Providing and laying 230 mm. and 300 mm. and s. w. pipe sewers in Area F, Malad (West)	2,07,470.00	
24	Providing and laying 1200 mm. R. C. Pipe sewers along proposed relief road Goregaon (West) Part I.	5,94,786.00	
25	Providing and laying 1200 mm. R. C. pipe sewers along proposed relief road Goregaon (West) Part II.	3,93,302.00	
26	Providing and laying 900 mm. R. C. pipe sewer on south side Sidharth Nagar Goregaon (West) Area 12-C	4,13,222.00	
27	Providing and laying 1000 mm. R. C. pipe sewers along proposed 21.35 M road south of Sidharth Nagar, Goregaon (West), Area 12-A	5,53,845.00	
28	Providing and laying 1000 mm. R. C. pipe sewers along proposed 21.35M Road South of Sidharth Nagar, Goregaon (West), Area 12-B	5,77,950.20	
29	Providing and laying 230 mm. and 300 mm. dia. s. w. pipe sewers along proposed 44' D. P. Road at Malad (West)	2,03,128.00	
30	Providing and laying 230 mm. and 300 mm. dia. s. w. pipe sewers in Jawahar Nagar Goregaon (West) Area 2, 3, 4 and 5.	3,95,656.00	
31	Providing and laying 230 mm. dia. s. w. pipe and 700 mm. dia. R. C. Pipe sewer along Kasturba road Kilacl and road in area F, Kandivli (West)	2,66,156.00	
32	Providing and laying 1100 mm. dia. R. C. pipe sewers in area H, Part I (Along Relief Road) Kandivli (West.)	3,81,000.00	
33	Providing and laying 1100 mm. dia. R. C. pipe sewers in area H, Part II (Along Relief Road) Kandivli (West).	3,78,000.00	
34	Providing and laying 1100 mm. dia. R. C. pipe sewers in area H, Part III. (Along Relief Road) Kandivli (West)	3,15,000.00	
		43,00,791.24	

APPENDIX No. 44—Concl'd.

Work in progress during the year 1971-72 in Zone III Area.

Serial No.	Name of the work.	Estimated cost. Rs.
1	Providing and laying 230.300 m. m. dia. stone ware pipe sewer in area 'A' at Mulund (East). ...	2,81,868.00
2	Providing and laying 230.300 m.m. dia. stoneware pipe sewer in Area 'C' at Mulund (East). ...	2,79,752.00
3	Providing and laying 1200 m.m. dia. R. C. H. P. Sewer from Rly. culvert No. 18/1 upto Mulund (South). Pumping Station (Change O to 320 m.) at 230 m.m. dia. stoneware and 1000 m.m. dia. R. C. H. P. sewer at Mulund (West) Part I. ...	4,34,496.00
4	Providing and laying 1200.1600 m.m. dia. R. C. H. P. sewer from Rly. Culvert No. M-18/1 upto Mulund (South) pumping Station at Mulund (East) Part II. ...	6,01,604.00
5	Providing and laying 800 m.m. dia. R. C. pipe sewer along Purshottam Kheraj Road at Mulund (West). ...	3,89,219.00
6	Providing and laying 450.600 m.m. dia. R. C. H. P. Sewer along Devidayal road from the junction of Lalbahadur Shastri road to junction of Five roads in Mulund (West)...	7,84,058.00
7	Construction of Dumping Ground Nalla at Mulund (West). ...	5,01,465.00
8	Training of remaining portion of Kesari Baug Nalla upto the culvert across Eastern Express Highway (AB-BC) at Mulund (East). ...	9,42,244.00
9	Providing and laying 450 m.m. dia. R. C. H. P. & 230 m.m. stone ware pipe sewer in Garodia Nagar in Ghatkopar (East) Part I. ...	1,34,916.00
10	Providing and laying 230.300 m.m. dia. stone ware pipe sewer and 450 m.m. dia. R. C. H. P. Sewer in Garodia Nagar in Ghatkopar (East) Part II. ...	2,56,899.00
11	Proposed gunite treatment to the existing digestion tank and Ghatkopar sewage purification works. ...	74,087.00
12	Training of Nalla between culvert No. 20 below Tansa pipe line and south of Chittaranjan Nagar Vidya vihar (East). ...	4,66,629.00
13	Training of Nalla (A-C) & remodelling of culvert (@A) at Barve Nagar (Horse Shoe Valley) at Ghatkopar (West). ...	7,14,617.00
14	Training of Nalla (B-C) & remodelling of culvert (@B) at Barve Nagar (Horse Shoe Valley) at Ghatkopar (West). ...	7,64,059.00
15	Construction of pumping station (Civil Mech. & Electrical) compound wall, night soil depot at Mulund pumping station at Mulund (East). ...	12,18,960.00
16	Providing S. W. drains from Christian village to Lal Bahadur Shastri Marg along Sonapur Lane at Kurla. ...	3,21,618.00
17	Construction of storm water drain at Chunabhatti area at Kurla (East). ...	3,32,538.00
18	Construction of storm water drain from Sane Gurūji Vachanalaya to Culvert across express highway Chunabhatti area, Kurla (East). ...	2,24,458.00
19	Training of Nalla from Railway Culvert No. M-9/5 to S. G. Barve Marg (C. S. T. Road) Culvert at Kurla (East) Part II. ...	1,82,736.00
20	Training of Nalla from Railway Culvert No. M-9/5 to S. G. Barve Marg (C. S. T. Road) Culvert at Kurla (East) Part I. ...	3,57,344.00
21	Training of Govandi nalla from the junction of V. N. Puro Marg with Govandi station road to the Demographic Institute at Deonar Part I. ...	3,09,278.00
22	Training of Nalla from the existing culvert across S. G. Barve Marg to the culvert across railway refinery siding at Kurla (East). ...	3,01,964.00
23	Construction of channel from the culvert on the approach Road to Sahakar Nagar to Tansa pipe Line at Chembur. ...	2,49,923.00
24	Training of nalla from the culvert across Ghatla village road to the culvert across Kurla Mankhurd railway at Chembur (East) Part I. ...	5,17,934.00
25	Training of Nalla from the culvert across Ghatla village road to the Culvert across Kurla Mankhurd railway at Chembur (East) Part II. ...	5,01,113.00
26	Providing and laying 230 m.m. dia. stone ware pipe sewer in Union Park area at Chembur. ...	1,60,110.00
27	Providing and laying 230 m.m. dia. stone ware pipe sewer in Displaced persons colony at Chembur. ...	5,17,502.00
	Total ...	1,18,21,391.00

APPENDIX No. 45

The progress of work of Sewers and S. W. Drains carried out through contract during the year under review is as under :

Serial No.	Particulars	Total length or No.	230 mm.	300 mm.	330 mm.	400 mm.	450 mm.	700 mm.	800 mm.	900 mm.	1000 mm.	1100 mm.	1200 mm.	1500 mm.	S. W. Drains Nalla.
1	Total length of sewers of various sizes	19987.76 R.M.	16998.25 R.M.	3811.48 R.M.	673 R.M.	230 R.M.	450 R.M.	466 R.M.	578 R.M.	232 R.M.	181.24 R.M.	670.50 R.M.	1358.24 R.M.	8.50 R.M.	1417.25 (S.W. Drain) 2132.91 (Nalla)
2	Total No. of man-holes provided on sewers	916													
3	Total No. of vent shafts provided on sewers	179													
4	Cost incurred on Sewers	Rs. 63,60,632.00													
	do. on Nallas	Rs. 20,02,113.00													
	do. S. W. Drains	Rs. 2,12,903.00													

APPENDIX No. 46.

Important Set backs added to the public roads in Suburbs & Extended Suburbs.

Serial No.	Name of Road.	Total area added in sq. Metres.
1	Vakola Village Road, Vakola, Santacruz (East).	...Approx. 1500 Sq. Metres.
2	S. V. Road, Santacruz (West).	... do. 1000 do.
3	Station Road, Santacruz (West).	... do. 200 do.
4	Hill Road, Bandra.	... do. 50 do.
5	Mamledar Wadi Road.	... do. 1728 do.
6	Sainath Road.	... do. 452.65 do.
7	Junction of School road & Dadi Sheth's Road.	... do. 218.25 do.
8	Nursing Lane.	... do. 1356 do.
9	Sainath Market Road.	... do. 464.84 do.
10	Turel Pakhadi Road.	... do. 488.30 do.
11	Quarray Road.	... do. 295.41 do.
12	Khotkuwa Road.	... do. 2165.02 do.
13	Turel Pakhadi Road.	... do. 361 do.
14	Marve Road.	... do. 396.83 do.
15	Kedarmal Road.	... do. 300 do.
16	Amarsi Road.	... do. 1074.09 do.
17	S. V. Road (Goregaon).	... do. 5576.21 do.
18	Jawahar Nagar Road No. 2.	... do. 4972.00 do.
19	Shimpoli Road Bus Terminus, Borivli.	... do. 76.54 do.
20	Lokmanya Tilak Road, Borivali.	... do. 807.03 do.
21	S. V. Road, Dahisar.	... do. 5521.27 do.
22	Mahadeobhai Desai Road.	... do. 91.53 do.
23	Jain Mandir Road, Borivali (East).	... do. 371.03 do.
24	Chitabhai Patel Road, Kandivali.	... do. 453.81 do.
25	Lok Manya Tilak Road, Dahisar.	... do. 3374.94 do.
26	Ashra Colony and Chandpuria Road, Borivali.	... do. 983.85 do.
27	S. G. Barve Marg.	... do. 3000 do.
28	Old Agra Road.	... do. 2600 do.
29	Vidya Vihar Road.	... do. 3000 do.
30	Masrani Road.	... do. 900 do.
31	R. C. Marg.	... do. 2275 do.
32	S. T. M.	... do. 2389 do.
33	Deonarpada Govandi Station Road.	... do. 797 do.
34	Sarojani Naidu Road.	... do. 1650 do.

APPENDIX No. 47.

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	Subhash Nagar Road, Jogeshwari.	...	20,000.00
2	Macrana Mohalla Road off Subhash Road Jogeshwari (East).	...	4,584.00
3	Road leading to ketkipada, Dahisar.	...	30,550.00
4	Road leading to Medona Colony from Sardar Vallabhbhai Patel Road, Borivli.	...	7,640.00
5	Govan Road from Laxman Mhatre Road to river, Dahisar.	...	51,085.00
6	Ovaripada Road from Swami Vivekanand Road, Dahisar.	...	21,625.00
7	Gafoorkhan Estate (in two phases).	...	52,000.00
8	Military Camp Road from L. B. S. Marg to Military Camp. (in three phases).	...	1,30,000.00
9	Cement Concrete passages in Asalphe Village.	...	52,000.00
10	Asphalt passages in Jarimari (West). (in 3 phases).	...	85,000.00
11	Approach Road to Acharya Nagar.	...	12,429.00
12	Approach Road P. S. C. at Sidharth Colony.	...	19,708.00
13	Extension of St. Anthony Road.	...	25,150.00
14	Road leading to Shastri Building Opp. R. C. Marg.	...	18,432.00
15	Quarry Road.	...	39,271.00
16	Passage connecting Chembur Camp, (Nityanand Baug).	...	12,644.00
17	Road at Raja Milind Colony.	...	18,024.00
18	Gamdevi Temple Road.	...	13,919.00
19	Construction of Sammansingh Road, Bhandup with side S. W. Drains and street lights, approximate length 500 Metres, 6 Metres wide (between Jungle Mangal Road and Tembhipada near Sarvodaya Nagar).	...	1,71,580.00
20	Construction of Khuresh Nagar Road, Bhandup (passage leading to Haji Hajari Chawl, Pratap Nagar, Bhandup) with side drains and street lights, approximate length 200 Metres, 4 Metres wide).	...	41,117.00
21	Construction of Nardas Nagar Road, Bhandup, with side S. W. Drains and street lights (passage from jungle Mangal Road to the boundary of Shivaji Nagar, Tembipada, Bhandup) Approximate length 250 Metres 4 Metres wide.	...	74,436.00
22	Construction of Sai Nagar Road with side drains and street lights (passage from Tembipada Road to Sai Hill). Approximate length 250 Metres, 4 Metres wide.	...	25,606.00
23	Construction of road between pipe-line and Gamdevi Road, Tembipada, Bhandup with side S. W. Drains and street lights Approximate length 250 Metres, 6 Metres wide.	...	74,436.00
24	Construction of Jamil Nagar Road, Bhandup, with S. W. Drains and street lights. Approximate length 750 Metres; 5 Metres wide.	...	2,29,510.00
25	Construction of passage near Suyog Co. operative Housing Society, Mulund (East). (Passage from the end of Sant Dnyaneshwar Road to Kesar Baugh Nallah) with side S. W. Drains and street lights. Length 70 Metres; 4 Metres wide.	...	25,430.00

APPENDIX No. 48.

Statement showing the roads which were in public use for more than 10 years.

Serial No.	Name of the Roads.
1	Approach Road to Oshiwara Cemetery at Jogeshwari (West).
2	Road leading to Dhakupada from Ceaser Road Andheri (West).
3	Cross Road at Sahakar Road Jogeshwari (West).
4	Sahakar Road Extension Jogeshwari (West).
5	Lane in Andheri Gaothan Near House No. 147 Andheri (West).
6	Extension of Cama Road upto Gilbert Hill Khoja Jamat. Andheri (West).
7	Cemetery Road at Pratap Nagar Jogeshwari (East).
8	Samartha Nagar Road Jogeshwari (East).
9	Kaiuwadi Road, Andheri (East).
10	Bandrekarwadi Road, Jogeshwari (East).
11	Telly gully Cross Road from Sahar Road Andheri (East).
12	Road joining Quarry Road and Jitendra Road through Hind Stone Quarry Malad (East).
13	Bye lane off Jawahar Nagar Road No. 1 Goregaon (West).
14	Kisan Cross Road, Malad (West).
15	Extension of Liberty Garden Cross Road upto Zakeria Road.
16	Jain Mandir Road Goregaon (West).
17	Road leading to Chandralok Building, off Aaray Road, Goregaon (West).
18	Road No. 17, in Jawahar Nagar, Goregaon (West).
19	Road No. 18 in Jawahar Nagar, Goregaon (West).
20	Road joining to Gogate Wadi Road, Pandurang Wadi Road, Goregaon (East).
21	Road leading to Tilak Nagar from Vishweshwar Nagar, Goregaon (East).
22	Extension of Lokmanya Tilak Nagar Road No. 5 upto Shastri Nagar Goregaon (West).
23	Road No. 16 in Jawahar Nagar, Goregaon (West).
24	4 Cross Roads in Liberty Garden Scheme No. 2.
25	Road leading to Pahadi Municipal School from Array Road Goregaon.
26	Two Cross Lane of Ramchandra Lane, Malad.
27	Extension of Dattamandir Road, upto C. O. D. Road, Malad (East).
28	Roads joining Jitendra Road, & Makrani pada Road.
29	Road from Plot No. 86, Puspa Park to Hawa Hira Road and Daffatary Road, Malad (East).
30	Road Nos. 13,14,15 in Jawahar Nagar.
31	Extension of Ramchandra Lane.
32	Daruwala Cross Lane, Road No. 2.
33	Road leading to Bandengari to Datta Mandir Road.
34	Road to Khot kuwa leading to Dhanji Wadi.
35	Jawahar Nagar Road Nos. 19 to 22.
36	Road leading to Ketkipada Dahisar.
37	Road leading to Medona Colony from Sardar Vallabhbbhai Patel Road, Borivali.
38	Govan Road from Laxman Mhatre Road to River, Dahisar.
39	Ovaripada Road from Swami Vivekanand Road, Dahisar.
40	Kurla Kamgar Society Road.
41	Passage leading from old Sion Chembur Road to Malik Co-operative Housing Society.
42	Passage leading from Kurla Andheri Road to Mohili Village.
43	Passage leading from Hall Road to Premier Quarters.
44	Passage leading to Nityanand Baug off R. C. Marg.
45	Survodaya Estate Road.
46	Passage leading to Datar Colony.
47	Jamil Nagar Road off Pratap Nagar.
48	Utkarsha Nagar Road.
49	Sai Vihar Road off Tembepada.
50	Sai Hill Road off Tembepada.
51	Road leading to Gamdevi Temple off Gamdevi Road.
52	Road leading to Church off Gamdevi Road.
53	Gamdevi extension upto quarry Road.
54	Passage between pipe line and Gamdevi Hill at Tembepada.
55	Passage from the junction of Nardas Nagar to boundary of Shivaji Nagar, Tembepada (In front of School).
56	(Sarvodaya Nagar) Road from Jungle Mangal joining Tembepada Road.
57	Passage leading to Hazi Hazari Chawl at Pratap Nagar (Kureah Nagar).
58	Extension to Pratap Nagar Road to Hanuman Nagar.
59	Extension of Dutta Mandir Road.
60	Passage leading to Devipada.
61	Damle Colony Road.
62	Passage between Gamdevi Road and Lake Road.
63	Road leading to proposed Municipal Industrial Estate of Bhandup Village Road.
64	Passage behind Mangatrem Petrol Pump off Quarry Road.
65	Extension of Quarry Road (From Yusuf Nagar to Shivaji Talao).
66	Part of Ganesh Gavde Road, Mulund (West).
67	Road near the Suyog Co. operative Housing Society, Mulund (East).

APPENDIX No. 49

Statement showing the private roads taken over by the Corporation in the Suburbs and Ex. Suburbs.

Serial No.	Name of the Road.
1	Hardevi Co-operative Housing Society Road Andheri (East).
2	Hemukalani X Road No. 4 Kandivli.
3	Khajuria Tank Road, Kandivli.
4	Akurli Cross Road leading to Vaishnav Nivas, Kandivli.
5	Kamla Nehru Cross Road, Kandivli.
6	Dahanukar Wadi Cross Road, Kandivli.
7	Ashok Nagar Cross Road, Kandivli.
8	Road leading to Bandongri from Ashok Nagar Main Road.
9	Cross Road of Dattapada Road towards North upto Carter Road No. 1.
10	Extension of Dattapada Road, Kandivli.
11	Factory Lane joining Simpoli Road through Rajda Nagar.
12	Road joining Carter Road No. 3 with Raidongri near P. S. C. upto Hill, Kandivli.
13	Road joining Carter Road No. 3 and Dattapada, Kandivli.
14	Road leading to I. C. Colony, Kandivli.
15	Shimpoli Road upto Umedashram, Kandivli.
16	Road leading to Palhar House of Naya Bangalow, Kandivli.
17	Road leading to Bhansali Bldg. from S. V. Road, Kandivli.
18	Road leading to Kajupada starting from Shrikrishna Nagar.
19	Road joining M. H. B. Colony with Dattapada Road near Municipal School, Dattapada, Kandivli.
20	Road leading to Reveira Wadi off Sawant Road, Dahisar.
21	Road leading to Devipada starting from Express Highway, Borivli.
22	Road leading to Top of Hill off Rai Dongri Road, Borivli.
23	Road joining Mahadeobhai Desai Road with Raidongri Road, Borivli.
24	I. C. Colony Cross Road, Borivli.
25	Dattapada Cross Road behind Dattapada Municipal School, Borivli.
26	Holi Colony Cross Road at I. C. Colony.
27	Passage leading from Kurla Andheri Road to Kajupada (East) off Jarimari.
28	Passage leading from L. B. S. Marg to Guru Nanak Road.
29	Passage leading from Saki Vihar Road to Tunga Village.
30	Passages in Makka Wadi.
31	Passages in Ramdas Chawl.
32	Passages leading from Sion Chembur Road to Air India Colony.

APPENDIX No. 50.

Action under Section 305 of the Bombay Municipal Corporation Act to improve the Private street in Suburbs and Extended Suburbs.

Serial No.	Name of the Street.	Remarks.
1	Private Street in Gazdar Scheme, Santacruz (West).	Action under Section 305 of the Act was taken. Notices were issued. There were in all 10 roads involved in this case. Out of which 4 roads were improved by the owners abutting these roads. 3 roads were improved U/Section 489 of the B. M. C. Act. Regarding one road there was representation from the owners abutting this road. The matter was being looked into. As regards remaining two roads W. O. 'H' to take action under Section 489 of B. M. C. Act.
2	Private Street known as Cross Lane Off Rokdia Lane, Borivali (West).	Action under Section 305 of the Act was taken. Notices were issued. In spite of such notices served on 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.
3	Private Street in Khandubhai Desai Road (Gulab Baug) J. V. D. Scheme, Vile Parle (West)	Action under Section 305 of the Act to be taken. Information was being collected by the Collector of Bombay.
4	Private Street known as Military Road at Malad off Malad Moroshi Road, Andheri (East).	Do.
5	Kherani Lane, Kurla.	Notice under Section 489 of B. M. C. Act were served on the frontagers and it was proposed to start the work in the fair season of 1972-73.
6	Roads in Pestom Sagar Area, Chembur.	Do.
7	Extension to Gannadas Sadan Road, Ghatkopar.	Proposal has been approved by the Corporation. Notices under Section 305 served on the landlord.
8	Extension to Sainath Nagar, Road.	Do.
9	Private Street in Pestom Sagar Scheme off Ghatkopar Mahul Road, Chembur.	Notices under section 305 of the B. M. C. Act were served on the owners fronting, abutting or adjoining the private streets. The parties failed to come together & carry out the works in the stipulated time. Action was being taken to serve notices under section 489 of the B. M. C. Act declaring our intention to carry out work at the frontagers cost. The work was proposed to be carried out under section 489 of the B. M. C. Act. Plans and estimates for the road and storm water drain work were submitted to the works Committee (Subs.) and the Corporation for the Sanctions.
10	Private street in Kherani Lane at Saki Vihar Road, Kurla.	

APPENDIX No. 51.

Measures taken for reducing the recurrence of flooding during the year 1971-72.

Serial No.	Name of the Work.	Amount
		Rs.
1	Desilting Nalla from Kherwadi upto M. H. B. Pumping Station & High Way Bandra ...	1977.98
2	Desilting Nalla from Kherwadi and pipe Line towards Nandadeep culvert along Express High Way Bandra. ...	5169.95
3	Desilting Nalla from Kherwadi upto Khar Pumping Station to Express Highway ...	3599.84
4	Desilting Nalla from Kherwadi upto Sunder Nagar Santacruz ...	1832.48
5	Desilting Nalla from Kherwadi upto Katcha drg. at Vile Parle subway ...	2119.84
6	Desilting Nalla from Kherwadi upto Katcha drg. at Chunabhatti ...	176.64
7	Desilting Nalla from Kherwadi upto Green Street and Linking Road, upto Gazdar Bund, Santacruz. ...	2328.64
8	Desilting Nalla from Kherwadi upto Vakola Bridge, Santacruz. ...	92.80
9	Desilting Road side of Vakola Village at Sunder Nagar and Military Road, Santacruz. ...	1782.40
10	Desilting Road side of Vakola village at Rly. Culvert No. 28 at Khar ...	2380.80
11	Excavation of drg. from Mt. Mary off St. Peter's Road, Bandra ...	1311.78
12	Desilting the Nalla at Sherly Village, Bandra ...	1516.80
13	Desilting the Nalla at Katcha drg. along east side 14th Road from Junction of 30th Road Khar Pali Road ...	944.42
14	Desilting the Nalla at Perferiyal Nalla at Mahim Creek ...	6059.52
15	Desilting the Nalla along 33rd Road from Linking Road Western Rly. Culvert No. 29 ...	2189.30
16	Desilting the Nalla along 96" water main at Kherwadi Bandra. ...	8514.72
17	Desilting the Nalla at Boran Nalla at Bbandra. ...	5177.60
18	Excavation in material along east and west side of 16th Road from Jn. of 30th Road to Khar Pali Road ...	953.12
19	Cleansing Nalla from Rajaram wadi to across Hill Road and B. J. Road ...	152.06
20	Cleansing Nalla from Rajaram wadi from Rebellow Rd. to Mahim Creek across St. John Baptista Road. ...	980.35
21	Varoda Road to Mahim Creek across Chapel Road ...	3416.33
22	Varoda Road to dhapa drg. from the Junction of Linking Road and 33rd Road W. R. ...	1471.14
23	Varoda Road to Mahim Creek across from 30th Rd. Jn. to Khar along S. V. Road ...	3525.44
24	Desilting of Nalla from pipe line towards Nandadeep Culvert (Part 'B') ...	4493.86
25	Desilting vakola River South side Nehru Road, Santacruz (East) ...	3588.48
26	Cleansing the Nallas through the Rly. Culvert along Bandra. ...	1756.16
27	Desilting of Vakola River North of Nehru Road, Santacruz ...	6904.00
28	Cleansing the open drg. of Linking Road from the junc. of Bandra Talkies ...	577.92
29	Cleansing the katcha drg. along Nawpada Road Kherwadi Bandra ...	2138.94
30	Desilting the Nalla of Chunabhatti & behind S. No. 7, Santacruz ...	3471.36
31	Desilting the road drg. of C. S. T. Road at Santacruz ...	1770.72
32	Desilting the Periferiyal Nalla Opp. Behrampada Kherwadi ...	8579.97
33	Desilting of Nalla of Rly. culvert No. 24 of Khar ...	3548.16
34	Cleansing covered drg. at junction of S. V. Road and Turner Road at Bandra ...	811.52

APPENDIX No. 51—Contd.

Serial No.	Name of the work	Cost
35	Cleansing covered drg. at Nalla from Behrampada to Nandadeep Culvert ...	Rs. 8611.39
36	Cleansing of Boran Road Nalla from St. Peter Road near Pork Market to Mahim Creek ...	2505.66
37	Desilting drg. passing through L. I. C. Qrts. Santacruz ...	1790.43
38	Desilting Nalla starting from S. V. Road Culvert near L. I. C. Qrts. to Rasraj Hotel ...	8154.24
39	Excavation in Peripheral Channel at Mahim Creek ...	9015.55
40	Cleansing of katcha gutters at Shastri Nagar ...	1004.48
41	Excavation katcha drg. at Sunder Nagar Kalina ...	1614.56
42	Excavation katcha drg. at Tagore Road and Tilak Road ...	1103.30
43	Cleansing the Road at Makadwalla Compound Kalina ...	304.80
44	Cleansing the 44, Proposed Road ...	624.96
45	Excavating side drg. of 1st Road Union Park Bandra ...	392.38
46	Excavating side drg. along Kher Nagar Bandra ...	546.62
47	Desilting open drg along Municipal chawl at Kherwadi Bandra ...	1551.30
48	Desilting open drg. along Bapuji Stall Kherwadi Bandra ...	1104.35
49	Desilting of open drg. at Gandhi Nagar Bandra ...	1187.01
50	Desilting of open drg. along Kherwadi Road near Kherwadi Huts Bandra ...	1183.17
51	Excavation and removal of earth and harder silt from around the Bldg. Kherwadi Municipal tenaments ...	2173.02
52	Levelling of earth dump on S. V. Road at Bandra Tank ...	2715.65
53	Desilting of Boran Nalla from S. V. Road Boran Nalla ...	3688.22
54	Desilting of open drg. of 28th Road, 15th Road and 24th Road Bandra ...	4621.86
55	Excavation & desilting or drg. or 19th Road, 18th Road, and 1st Road. Khar ...	6837.55
56	Excavation katcha drg. in Khar, Santacruz (Part I.) ...	4723.68
57	Excavation katcha drg. Khar, Santacruz, (Part-II) ...	1872.00
58	Laying pipes in—(i) Saraswat Colony, (ii) Saraswati Road, (iii) Parle Sub-way ...	4028.80
59	Cleansing Khar Subway ...	400.00
60	Cleansing of S. W. drg. & Cleansing road between Khar Pali Road & Juhu Road ...	4419.74
61	Cleaning of Gundawli Nalla Andheri East ...	4920.00
62	Cleaning of pipe drain at Kurla Andheri Road, Andheri East ...	2032.00
63	Cleaning of S. W. Drains at Maharashtra Housing Board Colony, D. N. Nagar and Azad Nagar, Jai Prakash Road, Andheri (West) ...	1874.00
64	Cleaning of S. W. Drains at Bazar Lane Veraova Village ...	1325.00
65	Cleaning of Nalla at Hanjar Cinema S. V. Road, Jogeshwari (West) ...	1595.00
66	Cleaning of S. W. Drains along S. V. Road and J. P. Road, Andheri (West) ...	1700.00
67	Cleaning Oshivra Nalla at Oshivra Village. ...	1995.00
68	Cleansing Covered S. W. Drains in Lallubhai Park Andheri (West) ...	2278.00
69	Cleaning sub-way Nalla X S. V. Road upto Andheri Market ...	2450.00
70	Cleaning Marol Market Nalla Kurla Andheri Road ...	3995.00

APPENDIX No. 51—(Contd.)

Serial No.	Name of the work	Cost
		Rs.
71	Cleaning Majas Nalla from Caves Road to Bandrekar wadi Jogeshwari (East) ...	6390.00
72	Cleaning Mogra Nalla from Western Express Highway to Old Nagardas Road, Andheri (East) ...	6003.00
73	Cleaning Majas Nalla from Dhobi Ghat to Caves Road culvert Jogeshwari (East) ...	6160.00
74	Excavation of katcha drain at Mithi River Kurla Andheri Road, Andheri (East) ...	1235.00
75	Cleaning of Majas Nalla from Samarth Nagar to Dhobi Ghat Jogeshwari ...	6295.00
76	Cleaning of Mogra Nalla from Old Nagardas Road to Sub-way Andheri (East) ...	6775.00
77	Excavation of katcha drain at Marol Maroshi Road, Andheri (East) ...	2435.00
78	Excavation of gutter at 60' Road from S. V. Road to N. S. Road Vile Parle (West) ...	1020.00
79	Excavation of side drain along Vaikunthlal Mehta Road from S. V. Road Culvert ...	610.00
80	Excavation side drain at N. S. Road No. 13, J. V. D. Scheme Vile Parle ...	4150.00
81	Cleaning Dhapa drain from Vallbhbai Road Jn. to Besant Road Junction upto S. V. Road, Vile-Parle (West) ...	1367.00
82	Excavation of side gutter at N. S. Road No. 13 J. V. D. Scheme Vile Parle (West) ...	4590.00
83	Excavation of gutter of Link Road North of Irla Nalla J. V. D. Scheme Vile Parle (West) ...	5345.00
84	Excavation of side drain of Link Road North of Irla Nalla. Vile Parle (West) ...	5640.00
85	Cleaning of Irla Nalla from Lallubhai Park Road to N. S. Road No. 1 Vile Parle ...	5505.00
86	Cleaning of Irla Nalla from Rly. line to Lallubhai Park Road Vile Parle ...	6240.00
87	Cleaning Dhapa drain from S. V. Road to Juhu Nalla ...	770.00
88	Excavation of katcha drain at H. F. Society Road. No. 2, Jogeshwari (East) ...	300.00
89	Cleaning Nalla at Issa Stable, from S. V. Road to Rly. Jogeshwari ...	840.00
90	Cleaning Nalla at Bandrekar Wadi Jogeshwari ...	3238.00
91	Cleaning Nalla at P. P. Dias Compound Jogeshwari ...	1885.00
92	Cleaning of S. W. Drain at H. F. Society and Caves Road Jogeshwari ...	2040.00
93	Excavation of katcha Gutter along 60' Road Vile Parle ...	1800.00
94	Cleaning of Dhapa S. W. Drain along Thanawala lane Vile Parle. ...	2360.00
95	Cleaning of Dhapa Drain along Shradhanand Road Vile Parle ...	3605.00
96	Cleaning of Dhapa S. W. Drain along Hanuman Road from Thosarwadi upto Tejpal Road Vile Parle ...	3230.00
97	Excavation of Katcha drain along Express Highway from Paranjape 'B' Scheme Road No. 4. ...	7394.00
98	Cleaning of Shradhanand Nalla Vile Parle (East) ...	6058.00
99	Excavation of Katcha gutter inside and outside at Parla Product Vile Parle ...	3540.00
100	Cleaning of Katcha Gutter from Nehru Road upto Kumar Co.op. Housing Society Dayaldas Road, Vile Parle ...	1538.00
101	Cleaning of Katcha Gutter from Amrut Wadi upto Express Highway of Dayaldas Road, Vile Parle ...	2620.00
102	Cleaning of katcha gutter from Express Highway upto Lallubhai Park Rly. Bridge along Koldongri ...	3390.00
103	Cleaning open drain along Sahar Road, P. & T Colony ...	8210.00
104	Cleaning nalla of Koldongri Vile Parle (East) ...	6535.00

APPENDIX No. 51—(Contd.)

Serial No.	Name of work	Cost
		Rs.
105	Excavation of katcha gutter at Chavan Wadi, Vile Parle	3255.00
106	Cleaning of katcha gutter at Kunku Wadi Vile Parle	1390.00
107	Excavation side drain from Nanavati Hospital to S. V. Road Vile Parle	1300.00
108	Cleaning of Juhu Nalla from Palm Grove Hotel to Khandi Bhandar Vile Par	4465.00
109	Excavation side drain at N. S. Road No. 9 North of Irla Nalla	2680.00
110	Excavation side drain at N. S. Road No. 1 Vile Parle	2755.00
111	Cleaning of Aerodrome Nalla from Bus Stop No. 2 to 'H' Ward Area Culvert	7280.00
112	Cleaning of Aerodrome Nalla from Highway culvert upto Bus stop	8001.00
113	Excavation of katcha gutter from Malhiya Road to Old Kumar Co. op. Housing Society, Vile Parle	1112.00
114	Excavation of katcha gutter from Azad Road to Shradhanand Road Vile Parle (East)	852.00
115	Cleaning of Aerodrome Nalla from Bus stop No. 1 & 2 Vile Parle (East)	7555.00
116	Cleaning of S. W. Drain at Oshiwara dumping ground	1580.00
117	Excavation of katcha channel drain from Meghdoot Bldgs. Andheri (West)	420.00
118	Excavation of Katcha drain along Nariman Road Vile Parle (East)	435.00
119	Cleaning Juhu Nalla from Khadi Bhandar to the Junction of N. S. Road No. 5 Vile Parle	5540.00
120	Cleaning of side drain at Old Nagardas Road Andheri	615.00
121	Excavation of katcha drain at Marol Village	805.00
122	Cleaning of Juhu Nalla from N. S. Road No. 5 to N. S. Road No. 10 V. Parle (West)	5237.00
123	Cleaning katcha drain at Mogra Village	1325.00
124	Cleaning Shyam Nagar Nalla Jogeshwari (East)	5505.00
125	Excavation of side drain along N. S. Road No. 10 Vile Parle	5240.00
126	Cleaning of Marol Village	7065.00
127	Excavation of side drain at N. S. Road No. 5 Vile Parle	4975.00
128	Excavation of Kutch gutter by the side of Marve Road & Charkop Road, Junc. Malad	133.00
129	Removing the silt from subway nalla from Rly. bridge towards Daruwalla compound Malad (West)	2477.00
130	Excavation of kutch gutter behind W. O. P's office compound starting from Bank of Maharashtra Bldg up to Nalla.	515.00
131	Removal of silt from Chincholi nallah from S. V. Road to Sarvoday School, Malad	3310.00
132	Removing silt & excavating in the nallah starting from Khoti Well Road to Bachani Nagar	648.00
133	Removing the silt from the Nallah starting from Paver Bag joining S. V. Road, Malad	1296.00
134	Removal silt & clearing the nallah starting from Rly. Culvert to Masjid S. V. Road	4737.00
135	Removing silt and clearing Vijaykar wadi Nallah Malad (West)	1584.00
136	Excavating & Desilting the Main nallah from S. V. Road bridge to Adarsh Housing Society Road	3121.00
137	Removal of silt & clearing the nallah at Madina Masjid Goregaon	1235.00
138	Excavating & desilting the nallah Behind Bhadranagar Parallal to W. Ryl. Malad...	648.00

APPENDIX No. 51—(Contd.)

Serial No.	Name of the work.	Cost
139	Excavating & desilting Nallah parallel to W. Rly. behind Daruwalla compound, Main nallah Malad (West) ...	Rs. 637.00
140	Removing silt & excavating the nallah from Saptarshi Bldg and joining Manchubhai Road ...	1006.00
141	Removal of silt & cleaning the Nallah at the Down stream culvert at Jewahar Nagar Road No. 4, Goregaon. ...	1033.00
142	Removal silt & clean the Nallah of Shrinagar Society Goregaon ...	497.00
143	Removal of silt and clean the nallah at Pirmal Nagar Goregaon ...	3324.00
144	Removal of silt & clean the nallah of Ibrahim Mansion nallah Goregaon ...	1753.00
145	Removal of silt and clean the nallah at Churi Wadi Part II Goregaon ...	3754.00
146	Excavation of katcha gutter at Gokte wadi X Road Goregaon ...	77.00
147	Removal of silt & clean the nallah at the Churi Wadi Part-I Goregaon ...	4039.00
148	Removal of silt and clear the nallah Sidharth Nagar Road 15 & 10 Goregaon ...	2434.00
149	Removal of silt and clean the nallah at Mandleep Society Goregaon ...	58.00
150	Desilting the open channel from P. W. C. starting from Bachani Nagar joining Subhash Lane ...	468.00
151	Excavating & removing silt from the Nallah starting from Ganga Niwas & flowing towards crack by Rayam Pack. ...	2567.00
152	Desilting & removing the rank vegetation starting from off Mamlatdarwadi & joining Main nallah Malad (West) ...	2079.00
153	Excavating the kutchra open drain by the road side in squatters colony Malad ...	415.00
154	Desilting open pitchel drain at Malvani Municipal colony Malad West ...	191.00
155	Desilting & removing the rank vegetation on street from the nallah starting from Mamladar wadi Joining main Nallah. ...	1926.00
156	Providing & laying hume pipe drain across the Rambaug road to abate the flooding on S. V. Road. ...	1340.00
157	Excavating the kutchra drain at Malvani Colony at the back side of open tenancy land and joining the same to Nallah. ...	479.00
158	Excavating the kutchra open drain coming from Pandit Solicitor Road to Daftary Road, Malad. ...	191.00
159	Excavation of kutchra open drain at Malvani Municipal Colony. ...	324.00
160	Providing cross pipes at Malvani Colony main road to abate the flooding ...	1641.00
161	Providing cross pipes at Jakeria Road to abate the flooding nuisance. ...	778.00
162	Excavations and desilting nallah at Devchand Nagar. Malad (East.) ...	3888.00
163	Providing cross drain at Liberty Garden Road No. II Malad (West.) ...	368.00
164	Excavation of Kutchra gutter along the Aarey Road, Goregaon. ...	1200.00
165	Removal of silt & clearing the nallah going from B. E. S. T. quarters to Osajwara Goregaon. ...	3705.00
166	Removal of silt and clearing the nallah start from BEST stand to Topiwala. ...	1552.00
167	Removal of silt & clearing the nallah of Walbhat Road Part I Goregaon. ...	4284.00
168	Removal of silt and clearing the nallah the Walbhat Part II Goregaon. ...	3870.00
169	Removal of silt and clearing the nallah at the Walbhat-Part III Goregaon. ...	3959.00
170	Providing cross pipes at chincholi squatters colony, Malad (East.) ...	903.00
171	Removal of silt & clearing the nallah at Motilal Nagar Part I, Goregaon. ...	2531.00

APPENDIX No. 51—(Contd.)

Serial No.	Name of the work	Cost
		Rs.
172	Removal of silt & cleaning the gutter of Motilal Nagar Part II, Goregaon. ...	2777.00
173	Removal of silt & clearing the nallah gutter of Motilal Nagar Part II and III. ...	2851.00
174	Excavating & clearing open drain on L. G. X. road and Road 1. Malad. ...	106.00
175	Excavating a trench for a water way in Zakeria Tank land Malad. ...	97.00
176	Desilting the open S. W. Drain and S. V. Road Malad. ...	799.00
177	Cutting the road side portion and providing katcha drain on Marve Road, pumping station. ...	1024.00
178	Levelling of earth at Asra Colony, Borivli. ...	6,524.00
179	Excavation of Gutter, M. G. Cross Road, No. 2, Kandivli. ...	187.00
180	Excavation of Gutter, Khajuria Road, Kandivli. ...	197.00
181	Excavation of Gutter, Bhulabhai Desai Road, Kandivli. ...	149.00
182	Excavation of Gutter, Kasturba Road, Kandivli. ...	259.00
183	Desilting Shankar Lane Nalla, Kandivli. ...	454.00
184	Desilting Sai Nagar Nalla, Kandivli. ...	1,200.00
185	Desilting Sai Nagar Nalla Kandivli. from Ashok Nagar, Kandivli. ...	207.00
186	Desilting Sai Nagar Nalla from Dube Compound, Kandivli. ...	335.00
187	Desilting Joglekar Nalla, Kandivli. ...	1,398.00
188	Widening and deepening katcha drain, Dattapada at Borivli. ...	351.00
189	Widening and Deepening katcha drain Dattapada to M. H. B. Borivli. ...	719.00
190	Desilting Amba Shetty Nalla, Borivli. ...	1,892.00
191	Desilting Nalla between Kasturba Road No. 7 and 8, Borivli. ...	617.00
192	Levelling of earth at Sodawala Lane, Borivli. ...	1,738.00
193	Desilting katcha Drain and Nalla at Naitodi & Telephakhadi Borivli. ...	4,733.00
194	Desilting Rambaug Nalla, Borivli. ...	763.00
195	Desilting Mhatre Nallah, Borivli. ...	476.00
196	Desilting Chandavarkar Nalla, Borivli. ...	425.00
197	Desilting Mandhu Park Nalla, Borivli. ...	2,287.00
198	Desilting M. H. B. Nalla, Borivli. ...	672.00
199	Widening & Deepening of Katcha Nalla at Maratha Colony, Dahisar. ...	694.00
200	Widening & Deepening of Ch. Shivaji Road, Dahisar. ...	1,446.00
201	Widening and Deepening of S. V. Road, Dahisar. ...	2,670.00
202	Providing Hume Pipe drain in Dube Compound, Kandivli. ...	6,301.00
203	Levelling the earth between Kasturba Road No. 2 and 3, Borivli. ...	1,854.00

APPENDIX No. 51—(Contd.)

Serial No.	Name of the work.	Cost
		Rs.
204	Providing open channel drain along trolley track, Asalpha Kurla.	39,931.00
205	Construction of side open drain in Jarimari.	8,894.38
206	Construction of side open drain in at Naupada.	28,948.45
207	Desilting of Nallah on both sides of Rly. Culvert No. 10/1.	5,237.04
208	Desilting of Nallah on both sides L. B. S. Marg.	11,322.36
209	Desilting of Nallah of L. B. S. Marg. River (City).	282.75
210	Desilting of Nallah of Leyland Culvert.	26,516.52
211	Desilting of Nallah of S. T. Road to Highway.	9,207.64
212	Desilting of Nallah at Safed Pool to Mithi River.	8,290.05
213	Desilting of Nallah at water mains to safed Pool.	17,763.89
214	Desilting of Nallah at Rly. Culvert No. 9/5 to S. G. Barve Marg.	14,731.69
215	Desilting of Nallah at Refinery Rly. Culvert to S. T. Road.	42,945.30
216	Desilting of Nallah at Asalpha Village	876.92
217	Desilting of Nallah at along L. B. S. Marg.	1,921.88
218	Desilting of Nallah at near New Kurla Court.	512.21
219	Desilting of Nallah at Kalpana Cinema to Mithi River.	11,519.01
220	Construction of S. W. Drain near Aziz House, Pipe Road.	20,057.09
221	Desilting of Nallah at Nehru Nagar West of Govt. Housing Colony.	6,993.19
222	Desilting of Nallah (Culverts I)	...
223	Desilting of Nallah at Nehru Nagar (North).	5,419.40
224	Desilting of Nallah (North) at Nehru Nagar East of Govt. Colony	8,399.19
225	Desilting of Nallah along Express Highway.	4,058.00
226	Deepening of the nalla of Telcom Factory, Chembur.	5,913
227	Desilting Maroli Nalla from F. C. I. to Burmah Shell Track Chembur.	7,679
228	Desilting charai nalla from Golf Club to Behind Charai Cemetery Chembur.	4,537
229	Desilting of S. W. Drains at Shell Colony, Chembur.	2,382
230	Cleaning of S. W. Drain from Sidharth Colony, upto Highway Culverts.	1,450
231	Desilting S.W. Drains along K. B. Road from F.C.I. to Chembur Police Station.	2,021
232	Desilting S. W. Drains in Subhash Nagar.	7,140
233	Desilting nalla at Nimunibaug, Govandi.	4,970
234	Desilting open katcha drain from Telcom Factory to Metal box Govandi.	2,670
235	Desilting S. W. Drain in Tilak Nagar, Colony.	9,800
236	Desilting Nalla at Deonar Colony from Culvert School to Foot-bridge Part I.	9,768
237	Desilting Nalla at Somaiya College to Pumping Station.	9,800
238	Desilting Nalla near B. E. S. T. Depot at Glass Factory, Deonar.	8,094
239	Desilting Nalla from A. F. A. C. School to Rly. Culvert Chembur.	9,372

APPENDIX No. 51—(Contd.)

Serial No.	Name of the work.	Cost
		Rs.
240	Provision of katcha drain at upper Trombay.	3,750
241	Desilting nalla from S. T. Road to AFAC School, Ghatla.	9,372
242	Desilting nalla at Mankhurd Station.	7,029
243	Desilting Nalla at Janata Colony.	4,737
244	Desilting Nalla from Children Home to Express Highway bridge Mankhurd.	7,668
245	Desilting Nalla at Deonar Colony Part II.	8,946
246	Cleansing side drains of S. T. Road from C. S. T. Road junction to Petrol Pump to Panjarpole.	2,173
247	Desilting Nalla passing through Borla Society & Lalwadi Opp. Jun. S. T. Road.	3,468
248	Desilting S. W. Drain at New Deonar Colony & Old Colony.	4,367
249	Desilting Nalla from the Foot bridge upto the culvert Part III at Deonar Colony	9,798
250	Desilting open drain along Rly. from Govandi Station to Creek.	4,650
251	Desilting Nala at Tilak Nagar.	74,455
252	Excavating S. W. Drains from dukes factory to culvert at 120 ft. road.	4,180
253	Cleansing of open drains in S. S. III.	9,770
254	Cleansing side drain at Deonar.	1,704
255	Branch Nalla near Chawl No. 337, Tagor Nagar, Vikhroli.	5,425.99
256	Nalla passing through transmission line, Pant Nagar.	2,794.46
257	Nalla Kannamwar Nagar.	7,923.60
258	Kirol nalla from L. B. S. Marg to Vidhaya Vihar Station.	4,057.78
259	Nalla from Railway track to 100 ft. Road, Pant Nagar.	2,362.62
260	Nalla, transmission line, Tagor Nagar.	5,238.50
261	Nalla from Tagor Nagar to Kannamwar Nagar.	782.78
262	Branch Nalla near Chawl No. 300-304 and 220-221.	4,510.87
263	Nalla from Kadar Plot to Ganga wadi.	2,330.21
264	Nalla from Rajawadi to Chittaranjan colony.	5,327.78
265	Nalla from Blatwadi to L. B. S. Marg.	8,625.61
266	Nalla from M. M. Compound to L. B. S. Marg.	1,236.53
267	100 ft. road to creek at Pant Nagar.	1,678.46
268	Kutchra drain at K-13, 16 Barve Nagar.	135.35
269	From Pant Nagar Depot to Creek Pantnagar.	2,373.85
270	Kutchra open drain Tagor Nagar to Vikhroli Station.	696.65
271	Gangawadi to Railway Channel.	5,111.28
272	Excavation kutchra drain at Ramabai Colony.	1,102.94
273	Providing kutchra drain at Nari Seva Sadan Road.	569.59
274	Kutchra drain Vikhroli Park site & desilting of side drain.	429.73
275	Nalla Nerayan Nagar.	948.70
276	Nalla Jivdaya Lane.	765.71
277	Kutchra drain along Kanjur Village Road.	1,903.90

APPENDIX No. 51—(Contd.)

Serial No.	Name of the Work.	Cost
		Rs.
278	Kutchra drain Tagor Nagar.	244.60
279	Nalla Park site Road No. 17 Vikhroli near Godrej Compound.	4,076.05
280	Desilting of Nalla along Mahatma Gandhi Road.	3,509.19
281	Desilting of Nalla along P. K. Road. Mulund.	8,107.24
282	Desilting of Nalla along Nehru Road.	9,909.87
283	Desilting of Nalla at the junction of Bazar Road and Main Road Colony, Mulund.	5,778.54
284	Desilting of Nalla at culvert of L. B. S. Marg and Mulund Colony.	4,649.40
285	Desilting of Nalla along Nahur Village.	1,420.65
286	Desilting of Nalla from Hoechst Co. to Gavanpada Village.	3,254.58
287	Desilting of Nalla along A. C. C. Co.	2,881.89
288	Desilting of Nalla at B. V. Road.	2,081.00
289	Desilting of Nalla at Datta Mandir Road to C.-No. 3 Colony, B. V. Road.	1,948.00
290	Desilting of Nalla from Bombay Cable.	2,391.00
291	Desilting of Nalla along Bhattipada nalla.	3,055.00
292	Desilting of Nalla along covered drain.	590.00
293	Desilting at Gamdevi Nalla.	5,793.00
294	Desilting of Nalla at B. A. Road Culverts.	6,642.00
295	Desilting of Nalla at Pratep Nagar.	4,072.00
296	Desilting of Nalla along Gamdevi Road.	1,261.00
297	Desilting of Nalla at Pannalal Silk Mills.	3,675.00
298	Desilting of Nalla at Datar Colony.	9,347.00
299	Desilting of Nalla at Datta Mandir Road.	8,856.00
300	Desilting of Nalla at Mini Land.	2,597.00
301	Desilting of Nalla at Nirmal Nivas.	1,195.00
302	Desilting of Nalla along B. V. Road side nalla.	7,571.00
303	Desilting of Nalla at Darakhi Baug.	3,985.00
304	Desilting of Nalla along Rly. Line.	9,298.00

APPENDIX No. 52.

Statement showing the works which were either completed or in progress (under Loan Works) during the year (Works other than sewage).

Serial No.	Name of the Work.	Estimated cost.
		Rs.
1	Removing and reconstructing the existing structure, semi permanent, affected by set-back at Sainath Subway Road	3,873
2	Adding setback at the junction of Liberty Garden Road No. 1 and Mamletdar Wadi Road, Malad (West)	1,949
3	Adding set-back at Sainath market Road at Market Portion Malad	13,491
4	Adding set-back of Sainath Road and Market portion, Malad	17,872

APPENDIX No. 52—(Contd.)

Serial No.	Name of the Work.	Estimated cost.
		Rs.
5	Excavating and removing the earth set back portion of Aarey Road at Saint Pies Collage, Goregaon	3,321
6	Adding set-back and improve surface of J. N. Road No. 1 at B.E.ST. Dept.	31,011
7	Adding set-back at the Junction at school road & Dadi Sheth Road	2,664
8	Adding set-back of Nursing lane Link Road, Goras Wadi (Part II) Malad	27,291
9	Adding set-back and improving the surface of the Mantri Street, Malad	28,377
10	Adding set-back and improving surface of Amesi Road, Malad	35,266
11	Adding set-back of nursing lane Link Road, Goraswadi (Part II)	42,919
12	Removing and reconstructing the structure affected by road widening at Sainath sub-way road Malad	19,572
13	Filling the well at Mamledar Wadi extention Malad	4,038
14	Construction of additional shop at Kedarmal Road for alternate accommodation on Mahtre Plot, Malad	14,365
15	Reconstruction of compound wall at premises of Aminabai, Pushpa Park Malad	1,824
16	Adding set-back and improving the surface of Khotivel Road nallah to express Highway, Malad	46,076
17	Adding set-back and improvement of Khotivel Road	19,491
18	Adding set-back and improving surface at Turelphakhadi	44,265
19	Adding set back at Turelphakhadi Road	21,851
20	Cosnt. of Compound wall at Municipal School, Sodawala Lane, Borivali	39,483
21	Providing storage tank at Octroi Chowky, Dahisar	4,019
22	Septic Tank and soak-pit shifting at Factory Lane, Borivali	3,940
23	Septic Tank and soak-pit shifting at Chandavarkar Lane, Borivali	6,020
24	Shifting of Electric cabin for R. L. Sawant, Kandivali	1,215
25	Shifting of Electric cabin for B. H. Mathani, Kandivali	1,215
26	Shifting of Electric cabin for R. N. Patil, Kandivali	1,215
27	M. G. Road from Kasturba Road No. 9 to Express Highway, Borivali	36,185
28	M. G. Road from G. H. High School to Kasturba Cross Road No. 9, Borivli	26,545
29	Charkop Road upto Industrial Estate Kandivli	34,035
30	Dahanukar Wadi Road, Kandivli	15,520
31	S. V. Road from Jain Mandir to Cemetery, Borivli	1,57,300
32	Chitabhai Patel Road, Kandivli	38,070
33	Ashok Road between Miranda Factory & Bandongri Road, Kandivali	21,300
34	Adding side berms at Kandivli Industrial Estate Road, Kandivli	84,500
35	Industrial Estate Main Road, Kandivli	11,700
36	Sarojini Naidu Road South side, Kandivli	39,400
37	Street connection to premises No. 382, Mach Factory Lane (Ambica Bhuvan)	918.60
38	Street connection to premises No. 96-AB, 230, Belgrami Road	1,011.00
39	Street connection to premises S. No. 317/3, Pt. L. B. S. Marg	2,882.00
40	Street connection to New Kurla Court	2,650.00

APPENDIX No. 52—(Concl'd.)

Serial No.	Name of the Wor.	Estimated cost
41	Street connection to premises S. No. 445 off, L. B. S. Marg	Rs. 713.00
42	Street connection to Premises No. 233, Jume Masjid Lane	1,370.00
43	Street connection to premises No. 466-467, New Mill Road	2,424.00
44	Street connection to premises No. 268, Takia Ward	1,757.00
45	Conversion of P. S. C. near Khanolkar's Housing	2,580.00
46	Street Connection to Premises No. 64-65, Hill Road	1,396.00
47	Street Connection at 230, Belgrami Road	1,038.00
48	Street Connection to Premises No. 97-98, Belgrami Road	934.00
49	Street Connection at 302-303, L. B. S. Marg, Rana Bldg.	596.00
50	Street Connection to along L. B. S. Marg, for S. W. Drain under construction	4,700.00
51	Widening and improving the surface and Providing S. W. Drains along Gamdevi Road, Mulund	95,000
52	Providing S. W. Drain along Devidayal Road, Mulund	3,15,486
53	Widening and improving surface and providing S. W. Drains along Sarojini Naidu Road, Mulund	2,00,000
54	Providing S. W. Drain in Bhandup Village	65,000
55	Widening improving the surface and providing S. W. Drain along Gokhale Road, Mulund, (East)	4,58,990
56	Widening improving the surface and providing S. W. Drains along Lokmanya Tilak Road, Mulund (East).	3,98,000
57	Widening, Improving the surface and providing S. W. Drains along G. V. Scheme Roads, Mulund	6,50,000
58	Providing S. W. Drains at Kanjur Marg	1,40,000
59	Providing S. W. Drains and widening and improving the surface of Pratap Neger Road, Bhandup.	2,98,000

APPENDIX NO. 53.

Statement showing the works carried out under Village amenities.

Serial No.	Name of the work.	Estimated cost.
		Rs.
1	Improving passages in Bamanweda Vile Parle (East)	17,000.00
2	C. S. Passages in Juhu Gaothan	1,900.00
3	Construction of cement concrete road in Malvani Stage II	22,171.00
4	Construction of C. C. Road in Malvani Stage I, Malad	21,029.00
5	Widening the city main road in Malvani Village, Malad	2,622.00
6	Construction of road at Hanuman Mandir, Malad	3,724.00
7	Cement Concrete passages, Pandurang Gawand Road, Dahisar	1,248.00
8	Cement Concrete passages, at Thomas D'Silva Road, Dahisar	9,743.00
9	Cement Concrete passages, at Govind Mali Road, Dahisar	738.00
10	Cement Concrete passages, at Kolar Pakhadi, Borivli	19,222.00
11	Cement Concrete passages, at Kandarpada, Dahisar	46,180.00
12	Cement Concrete passages, at Dahisar Gaothan, Dahisar	27,838.00
13	Steps along the bund on Dahisar River, Dahisar	3,728.00
14	R. C. C. Slab and repairs to culvert at Gorai Village, Borivli	9,433.00
15	Cement concrete passage at Bhandup Village	10,000.00
16	Cement Concrete passage at Kanjur Village	10,000.00
17	Cement concrete passage at Gavan-pada	12,300.00
18	Cement concrete passage at Sidharth Nagar.	28,883.00
19	Cement concrete passage at Uday Municipal School	8,606.00
20	Cement concrete passage at Bhanoshi-pada	11,693.00
21	Cement concrete passage at Navghar-pada	4,260.00

APPENDIX NO. 54.

Construction of Public Sanitary Conveniences during the year under report works either completed or in progress.

Serial No.	Name of the Work.	Remarks.
1	Construction of 6 seated Acqua privy Block at Sarkar Bavdi, Bandra	... Work Completed.
2	Construction of 6 seated Acqua privy Block at Pratiksha Nagar	... Do.
3	Construction of 8 seated Acqua privy Block at Prabhat Colony Santacruz (E)	Do.
4	Construction of 10 seated P. S. C. with free flushing system at Golibar at the end of 4th Road	... Do.
5	Construction of 6 seated urinal block below footover bridge Santacruz (E)	... Do.
6	Construction of 4 seated urinal block at Vakola Bridge	... Do.
7	Construction of 6 seated urinal block at Golibar	... Do.
8	Construction of 5 seated urinal block at Prabhat Colony	... Do.
9	Construction of P. S. C. at Jogeshwari (East)	... Do.
10	Construction of W. C. Block at Navalkar Market Jogeshwari (East)	... Do.
11	Construction of P. S. C. at Telly Gully Andheri (East).	... Do.
12	Construction of P. S. C. and washing place at Ambica Nagar Jogeshwari (East)...	Do.
13	8-Seated P. S. C. at Juhu Koliwada Juhu, Vile Parle (West)	... Do.
14	Four seated P. S. C. at Podar Road, Malad	... Completed.
15	Eight seated P. S. C. Govind Nagar Malad	Do.
16	Eight seated P. S. C. at Makrani Pada, Malad	... Do.
17	Eight seated P. S. C. at Makrani Pada, Malad	... Work was in progress but work stopped due to court injunction.
18	Eight seated P. S. C. in Malvani	... Completed.
19	4-Seated Extension to raising P. S. C. at Naupada Village	... Do.
20	8 Seated P. S. C. at Kolekalyan Road	... Do.
21	4 seated extension to P. S. C. at Khanda Chawl	... Do.
22	4 Seated P. S. C. at Tanaji Chowk	... Do.
23	4 seated extension to P. S. C. at Azad Guly Chunabhatti	... Do.
24	8 seated P. S. C. at Hill No. 2 Nari Seva Sadan Road	Do.
25	8 Seated P. S. C. at Hill No. 2 Nari Seva Sadan Road for ladies	... Do.
26	8 Seated P. S. C. at Kammaddin Estate	... Do.
27	8 seated P. S. C. at Sambhaji Chowk	... Do.
28	10 seated P. S. C. at Jariman (8+8)	... Completed
29	P. S. C. at Amir Baug	... Do.
30	P. S. C. at Deonarpada	... Do.
31	P. S. C. at Upper Trombay	... Do.
32	P. S. C. at Ganesh Rahwashi, Sangli, Ghatla	Do.
33	P. S. C. at Wadoli Village	... Do.
34	P. S. C. at Trombay Village near Daraya Daulat	... Do.
35	P. S. C. at Camp in place of privy No. 16	... Do.

APPENDIX No. 54—(Concl.)

Serial No.	Name of the Work	Remarks.
36	P. S. C. at Camp in place of privy No. 17	... Completed.
37	P. S. C. at Camp in place of privy No. 18-19	... Do.
38	P. S. C. at Camp in place of privy No. 6	... Do.
39	P. S. C. at Camp in place of privy No. 7	... Do.
40	P. S. C. at Municipal Labour Camp, Chembur Station	... Do.
41	P. S. C. at Ramabai Colony near Chembur Station	... Do.
42	P. S. C. at Chembur Camp opposite Shiv Temple	... Do.
43	P. S. C. at Shastri Nagar at Vasi Naka	... Do.
44	P. S. C. at Mahur Village	... Do.
45	P. S. C. at Anand Nagar.	... Do.
46	Construction of 8 seats P. S. C. at Balblipada T. P. S. III Ghatkopar	...
47	Construction of fish market Agra Road, Ghatkopar	...
48	Construction of Khalavi Village, Ghatkopar	...
49	Construction of 8 seats Kirol Village Ghatkopar	...
50	Construction of 8 seats Gorishankarwadi, T. P. S. III	... All works are completed and the P. S. C.'s are functioning
51	Construction of 8 seats Bhimnagar, Ghatkopar (West)	...
52	Construction of 8 seats Hanuman Grah,	...
53	Construction of 8 seats Anand Nagar	...
54	Gavanipada	...
55	Salphadevipada	...
56	Bhandup Village	...
57	Tempepada Village	... Works completed.
58	Colony block No. 63.	...
59	Rohidas Nagar	...
60	Quarry Road	...
61	Sidharth Nagar	...
62	4 seated urinal block at Lala Tulsiram Park	...

MUNICIPAL CORPORATION OF GREATER BOMBAY

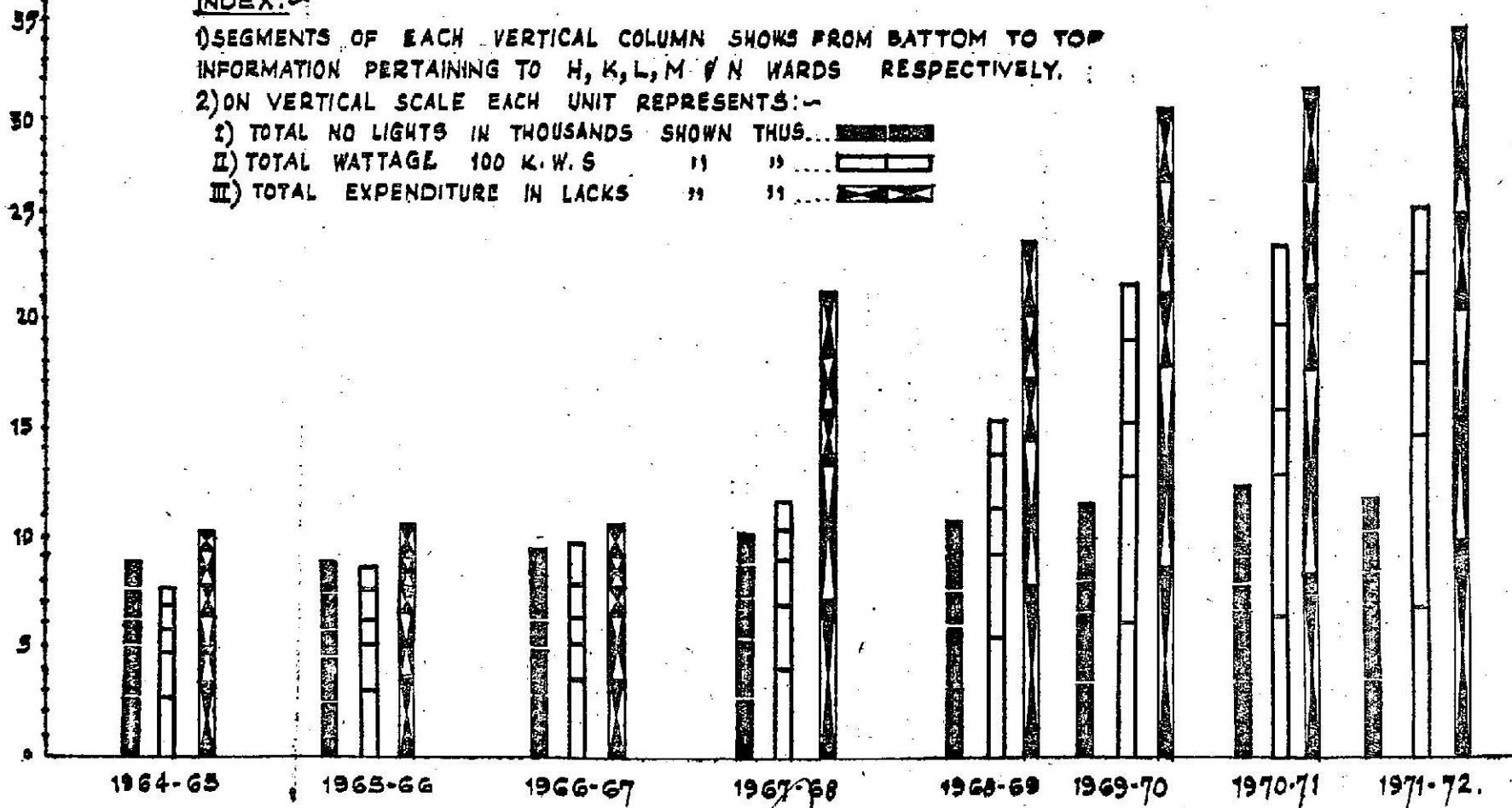
GRAPH SHOWING NO OF LIGHTS TOTAL WATTAGE & EXPENDITURE ON STREET LIGHTING IN EACH WARD OF SUBURBS DURING THE YEAR 64-65, 65-66, 66-67, 67-68, 68-69, 69-70, 70-71, 71-72.

INDEX:-

1) SEGMENTS OF EACH VERTICAL COLUMN SHOWS FROM BATTOM TO TOP INFORMATION PERTAINING TO H, K, L, M & N WARDS RESPECTIVELY.

2) ON VERTICAL SCALE EACH UNIT REPRESENTS:-

- I) TOTAL NO LIGHTS IN THOUSANDS SHOWN THUS... [Patterned Box]
- II) TOTAL WATTAGE 100 K.W.S [Patterned Box]
- III) TOTAL EXPENDITURE IN LACKS [Patterned Box]



M. J. Jangani
A. E. (T. & L.)

L. J. Jangani
E. E. T. & C.

MUNICIPAL CORPORATION OF GREATER BOMBAY

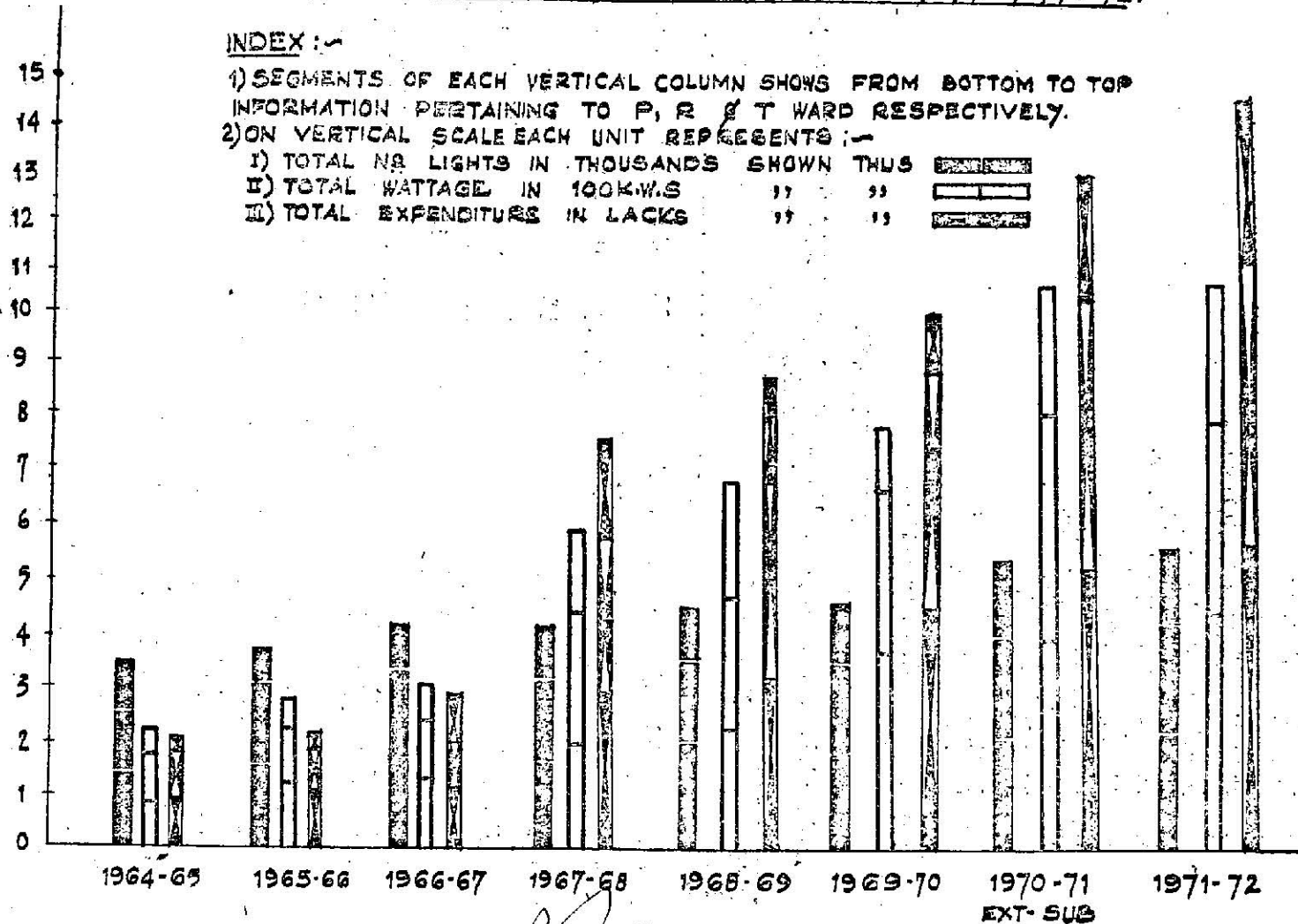
GRAPH SHOWING NO. OF LIGHTS TOTAL WATTAGE AND EXPENDITURE ON STREET LIGHTING IN EACH WARD OF EXTD SUBS DURING THE YEAR 64-65, 65-66, 66-67, 67-68, 68-69, 69-70, 70-71, 71-72.

INDEX :-

1) SEGMENTS OF EACH VERTICAL COLUMN SHOWS 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 100K.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. 57.

The roads on which lighting was improved by providing 250 W. H. P. M. V. lamps during the year 1971-72.

- (1) Turner Road, Bandra.
- (2) Waterfield Road, Bandra.
- (3) South Avenue, Khar.
- (4) Nehru Road, Santacruz.
- (5) Kalina Kurla Road.
- (6) C. S. T. Road.
- (7) North South Road No. 1, J. V. P. D. Scheme.
- (8) Telli gully, Andheri.
- (9) New Nagardas Road, Andheri.
- (10) Roads in Siddarth Nagar, Goregaon.
- (11) M. G. Road, Goregaon.
- (12) Malad Marve Road.
- (13) Mathurdas Road, Kandivli.
- (14) Shantilal Modi Road, Kandivli.
- (15) Adkukia Road, Kandivli.
- (16) M. G. Road, Kandivli.
- (17) Kasturba Road, Borivli.
- (18) M. G. Road, Borivli.
- (19) Tilak Road, Ghatkopar.
- (20) Hingwalla Lane, Ghatkopar.
- (21) Vallabhbaug Road, Ghatkopar.

APPENDIX NO. 58.

Roads on which Regular lines were prescribed (or proposed) under section 297 of the B.M.C. Act during the year 1971-72

Serial No.	Name of the Road.	Width	Remarks.
1	Jayaprakash Road between Sheruvilla to Seven Bungalow (Sub.).	27.40 M.	Corporation's sanction was awaited
2	Swami Vivekanand Road near Jarimari Temple at Bandra. (Sub.).	27.40 M.	Corporation's sanction was awaited
3	Tilak Road at Santacruz (Sub).	18.30 M.	Do.
4	Old Agra Road (Sub).	18.30 M.	Sanctioned by M. C. on 28-10-71.
5	Anandilal Potdar Road, (Sub.)	18.30 M.	Sanctioned by Corporation on 31-1-1972.
6	Jungal Mangal Road at Bhandup (Sub).	23.80 M.	Sanctioned by M. C. on 7-3-1972.
7	Gopal Krishna Gokhale Road at Mulund (Extended Sub).	18.30 M.	Approved by the Works Committee (S). R. 263 of 21-7-1971.
8	Lokmanya Tilak Nager Road No. 5 at Goregaon (West) (Extended Sub).	18.30 M.	Sanctioned by M. C. on 4-8-1971
9	Turel Pakhadi Road, Bhailal Road & Nanabhai Laxman Road at Malad (Extended Sub).	18.30 M.	Corporation's sanction was awaited
10	Mahatma Phule Road, at Mulund (Extended Sub.)	18.30 M.	Corporation's sanction was awaited.
11	Chincholi Road at Malad (West) (Extended Sub.)	18.30 M.	Do.
12	Approaches to Gogte Wadi, Goregaon	13.41 M.	Sanction under Section 297 (1)(a)
13	Walbhat Road, Goregaon.	13.41 M.	Do.
14	Jawahar Nagar Road No. 4, Widening of Corner	...	Do.
15	Underai Road, Malad.	9.14 M. 13.41 M.	Sanctioned under Section 297(1)(a)
16	Solicitor Road, Malad.	13.41 M.	Do.
17	Kedermal Road, Malad.	13.41 M.	Do.
18	Sarojini Road Extension Kandivli.	9.14 M.	Do.
19	Chapel Lane Santacruz	9.14 M.	Do.
20	Tank Lane, Santacruz.	9.14 M.	Do.
21	Zig Zag Road.	9.14 M.	Do.
22	Hindu Cemetery Road from Sion Trombay Road to Muslim Cemetery Road, Chunabhatti Kurla.	13.41 M.	Sanctioned under Section 297(1)(a).
23	R. L. between Sant Ramdas Road from G. K. Gokhale Road at Mulund (East)	9.14 M.	Sanctioned under Section 297 (1)(a)
24	Nahur Village Road from Vishwakarma Nagar to Nahur Gaothan, Mulund (West).	9.14 M.	Do.

APPENDIX NO. 59.

Statement showing the number of tenements constructed by private parties during the year 1971-72.

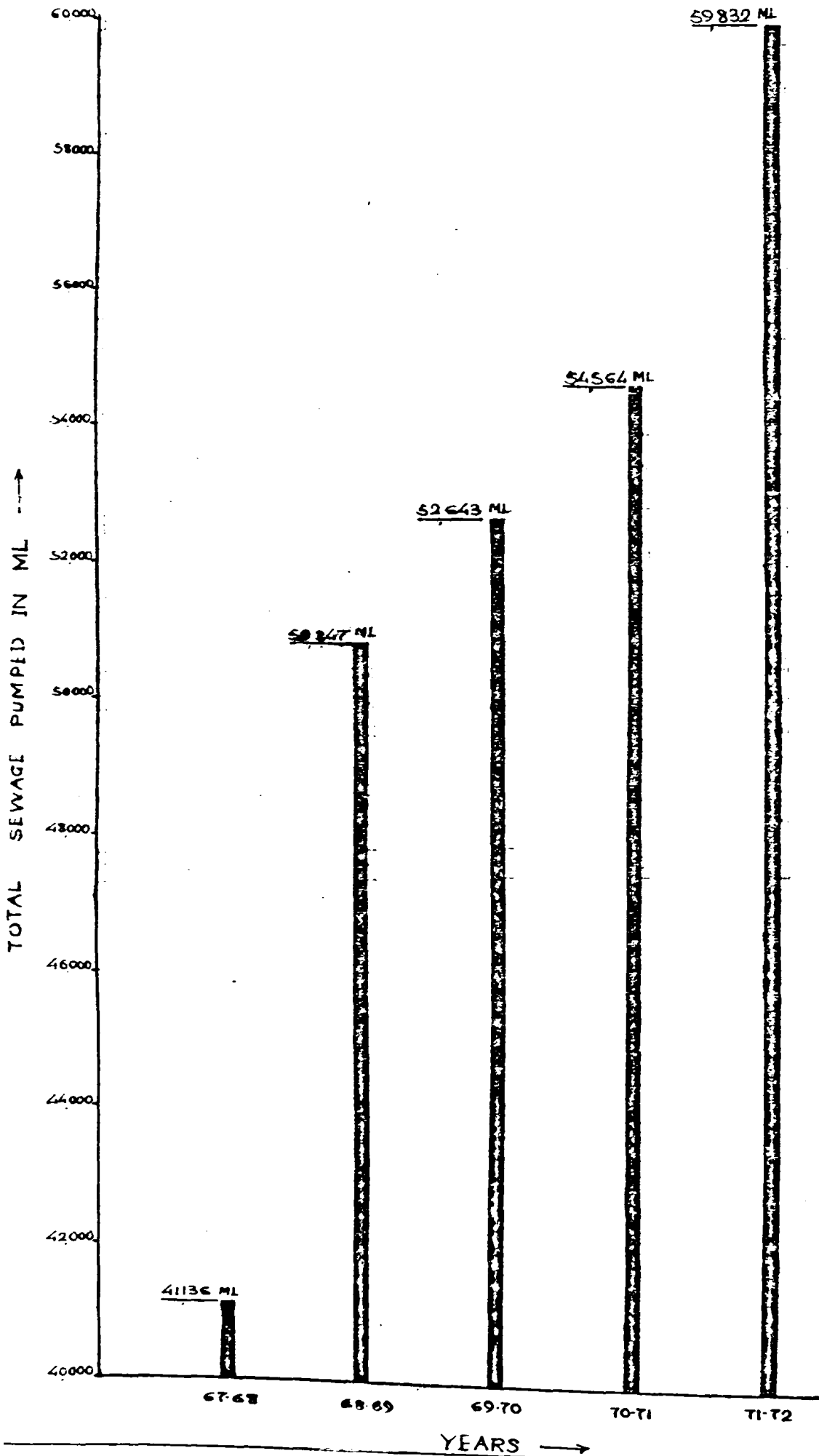
Ward.	No. of one room tenements	No. of two rooms tenements	No. of larger tenements usually known as blocks.	Total
H	55	503	1161	1719
K	106	301	1230	1637
P	147	1869	1182	2398
R	323	597	1376	2296
L	20	46	68	134
M	11	303	351	665
N	174	402	407	983
T	133	182	186	501

APPENDIX NO. 60.

Statement showing the performance Sewage Pumping Stations in Subs.in charge of E. E. Mech. (N & P) during 71-72

	Ghatkopar Pumping Station.	Kurla Pumping Station.	Deonar Pumping Station.	Vikhreli Pumping Station.	Versova Purification Plant.	Khar Purification Plant.	Bunderwadi	Jaibharat	Chimbai	Malad.
1 Installed capacity in Ltrs./Sec. ...	871	442	424	78	1,248	832	351	254	78	2,632
2 Average of minimum level during the year in mtrs. ...	2.2	1.21	0.67	0.6	5.0	1.78	1.87	0.86	1.57	2.8
3 Average of average level during the year in metres ...	3.99	2.6	1.92	1.77	5.7	3.33	3.22	2.65	3.30	5.3
4 Total sewage quantity pumped during the year in million litres ...	14761	3815	657	94.6	21,912	9,504	3,270	2,225	493	3,100
5 Average sewage quantity pumped per day in million litres ...	40.5	10.45	1.8	7.8	60	26.21	8.96	8.4	1.4	10.3
6 Electrical energy consumption during the year in KWH ...	11,35,030	1,94,542	52,940	4,902	7,57,746	5,19,724	2,72,180	96,159	25,211	1,28,562
7 Cost of electrical energy consumed during the year in rupees ...	1,05,454	25,686	13,498	943	77,787	55,269	29,908	18,294	3,363	29,056
8 Cost of operative staff during the year in rupees ...	24,381	24,381	31,834	14,118	26,295	29,955	33,699	29,955	29,955	26,280
9 Cost of repairs and maintenance during the year in rupees ...	6,798	6,798	2,947	3,823	19,900	9,589	8,845	4,148	4,776	500
10 Cost of overhead charges during the year in rupees ...	6,846	4,431	2,431	2,831	12,060	8,741	7,787	7,674	7,411	6,390
11 Total cost during the year 7+8+9+10	43,479	61,296	50,710	21,715	1,36,042	1,03,554	80,239	60,071	45,505	62,226
12 Cost per million litres of sewage pumped	9.72	16	77	229.5	6.2	10.89	23.92	26.99	92.30	26.00

Graph Showing The Sewage Pumped In Suburbs



APPENDIX No. 62.

Statement showing the details of Works carried out by Electrical (Planning & Design Section) (Subs), during the year 1971-72.

Sr. No.	Description.	No. of estimates prepared.	Amounts		No. of Draft Tenders sent.	No. of tenders Advertised.		No. of tenders estimated		Amounts.	
			Rs.	P.		Elect. Dept.	with Civil.	Elect. Dept.	With Civil.	Elect. Dept.	With Civil.
(1)	Schools	20	8,31,291.00		14	14	13			5,61,670.00	
(2)	Housing	4	2,24,211.00		4	4	4			4,88,630.00	
(3)	Lifts	2	1,30,474.00		1						
(4)	Hospitals	6	3,93,700.00		6	6	5			3,58,090.00	
(5)	Plant & Machinery										
(6)	Markets	2	45,775.00								
(7)	Ward Offices	1	77,300.00								
(8)	Miscellaneous	4	1,09,680		2	2	2			81,550.00	
	Total	39	18,15,431.00		27	26	24			14,89,740.00	

APPENDIX No. 63.

Statement showing the details of works carried out by Building Construction Zone II and Zone III (Electrical Section) during the year 1971-72.

Serial No.	Description of the work.	No. of works completed.		Total cost.	No. of works in progress.		Total cost.
		Zone II	Zone III		Zone II	Zone III	
	Electrification of and providing electrically driven water pumping sets at :—			Rs. P.			Rs. P.
1	Schools	1	1	69,400.00	4	1	1,86,050.00
2	Ward Offices		1	22,250.00			
3	Hospital Dispensary Maternity House and staff Quarters	1	3	2,32,850.00		1	6,69,250.00
4	Markets	1	1	51,850.00		1	36,150.00
5	Residential Buildings	1		21,100.00		1	37,750.00
6	Gardens						
7	Miscellaneous	1	1	1,12,300.00	1		22,350.00
8	Providing electric lifts					2	1,22,300.00
	Total	5	7	5,09,750.00	5	6	10,73,850.00

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 1.

The undeveloped land at present with the Corporation is approximately 494 acres which covers the land at Dharavi Scheme 56.

B.—Municipal Section

4 plots in Municipal Scheme have been disposed of in the year 1971-72 as shown in Appendix 2.

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. metres.	Capital value. Rs.
1968-69	— 1	232.26	2,784.00
1969-70	— 2	2,244.46	3,91,354.00
1970-71	— 1	222.96	—

III.—SLUM CLEARANCE

The following new tenements were completed during the year under report :—

- (1) 60 tenements at Raoli Camp.
- (2) Ravli camp (BKE-3 & A-7) 44 tenements.

IV.—INDUSTRIAL ESTATES

The construction of Industrial Estates has been taken by the Corporation for rehabilitation of the Industrial Units required to be shifted from the lands required for Municipal purposes.

No new gala for Industrial Estates were completed during the year under report.

V.—NEW HOUSING SCHEMES

The following new tenements were completed during the year under report :—

- (1) 130 tenements at Worli Municipal Staff and Councillors.
2. **Housing of Squatters.** The number of squatters families authorised for residing at Mankhurd and Jogeshwari Colonies were 2,315 and 1,937 respectively.
The recoveries of rent in both the colonies were Rs. 41,860 and Rs. 1,03,705 during the year against the demand including the arrears of Rs. 13,54,293 and Rs. 6,46,800 respectively.
3. The recoveries of rents of the dormitory at Palton Road amounted to Rs. 46,910 during the year.

VI.—DISPOSAL OF LANDS

(1) Long Leases

Three plots were let out during the year. The total area of the land thus disposed of admeasures 55,453.02 sq. metres valued at Rs. 40,73,711. The total number of plots disposed of upto the end of 1971-72 was 4,347 with an area of 52,92,932.79 sq. metres and valued at Rs. 13,93,47,523 yielding an annual ground rent of Rs. 55,93,473. Plots in respect of which premium or commutation amounts had not been received, the rate at which the ground rent was commuted was 22½ years purchase of plots let before 23rd November 1920 and 18 years' purchase thereafter upto May 1948. The ground rent for the plots was charged at 5 per cent per annum (instead of 6 per cent per annum charged since 1920) on the value of land and the amount of commutation was fixed at 21 times the annual ground rent (vide Corporation Resolution No. 157, dated the 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 the 11th February 1943), but now commutation is being discouraged. The rate of ground rent per annum is charged at 7 per cent of the market value (vide C. R. No. 557, dated the 20th September 1962) from the 1st July 1962, and commutation is stopped.

The progress in the disposal of Trust lands on permanent basis the year is shown in Appendix No. 3.

The details of leasehold plots disposed of are shown in Appendix 3A/A statement of permissions granted in respect of leased plots for the year is shown in Appendix No. 4.

The amount received by way of commutation of ground rent and premium etc., during the year was Rs. 2,23,931.

A comparative statement showing the number of permanent leasehold plots with the demand and collection as on 31st March of the past four years is shown in Appendix 5.

The amount received by way of commutation of ground rent and premium during the year 1968-69 to 1971-72 are shown in Appendix No. 6.

As can be seen in the appendix No. 5 *vide* item No. 8 a percentage of 33.05 arrears could be attributed mostly to the usual tendency on the part of the prospective lessees to withhold payment of ground rent to the extent to cash security deposited by them with a view to getting the same adjusted towards the ground rent. The main items of arrears which constitute a part break of Rs. 21,72,944 pertaining to 'B' Budget shown in Appendix No. 7 and of Rs. 1,04,148 pertaining to 'A' Budget shown in Appendix No. 8 can be classified as under :—

	Rs.
(1) Ground rents withheld by lessees to the extent of their security deposits ...	1,49,657
(2) Ground rents in respect of plots occupied by Government of Maharashtra and Defence Department ...	74,367
(3) Ground rent in respect of properties vested in the Deputy Custodian of Evacuee Property ...	10,313
(4) Ground rent in respect of plots against which disputes have been raised and their cases are under consideration ...	5,51,500
(5) Ground rent due from Western and Central Railways ...	20,995
(6) Ground rent due from Municipal Departments ...	7,623
Total ...	8,14,455

(2) Short Leases

No temporary leases were granted during the year under report.

The number of vacant land tenancies both *ex-Trust* and Municipal Estates excluding those given in Mankhurd and Jogeshwari Colony were 5,246 and 939 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. 10,16,566 and Rs. 6,08,017 and the recovery was Rs. 8,99,144 and Rs. 6,95,163 respectively inclusive of arrears.

VII.—MANAGEMENT OF PROPERTY AND COLLECTION OF REVENUE

A—Trust Section

(a) *Chawls permanent*.—The gross demand of tenements in the Chawls for the year was Rs. 32,29,833 on 31st March 1972 as against Rs. 34,55,739.

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. 30,25,478 deducting therefrom the charges on account of outgoing amounting to Rs. 39,27,224 net less comes to Rs. 9,01,746.

A statement showing yearwise receipt, and expenditure pertaining to 'B' Budget properties is shown in Appendix No. 9.

The Capital expenditure incurred on the chawls including the value of the land is Rs. 246 lakhs. The Corporation have to pay interest and sinking fund charges at the rate of 4.61 per cent. per annum on the capital expenditure prior to 1919-20 and 6.35 per cent. per annum on the capital expenditure incurred in subsequent years and 4.24 per cent in respect of those constructed after 1950. This amounts to 12.96 lacs per annum (*vide* Appendix 10). After adding the amount of net loss into the amount of interest and sinking fund charges as shown in Appendix No. 10 the accounts for the chawls show a loss of about Rs. 19,51,007 (as shown in the said Appendix column No. 11).

(b) *Semi-permanent sheds*.—The gross demand in respect of 7451 rooms in the Semi Permanent Shed including Labour Camps for the year was Rs. 18,21,377. The net demand after excluding the concessional rent and vacancies was Rs. 17,34,191. The revenue actually collected comes to Rs. 17,58,420 which was equivalent to 70.42 per cent. of the total recoverable rent including arrears of Rs. 24,97,031 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 11 on the basis of annual rental of Rs. 32,10,900 for chawls and Rs. 17,34,191 for semi-permanent sheds total outgoings being 129.82 per cent. and 154.92 per cent. respectively.

Amount transferred to Rent Equalisation Fund and Amenity Fund was Rs. 1,78,178 and Rs. 59,391 respectively. The difference between the standard rents worked out on 5 per cent. of the cost of land and 10 per cent. on the cost of construction of post-war residential tenements and the subsidised rents actually charged are to be met from the Rent Equalisation Fund.

Revenue collected from tenements constructed for slum clearance was Rs. 25,36,820 (Appendix No. 7A against the demand of Rs. 34,98,210 inclusive of arrears. The tenements constructed under slum clearance (City and Suburbs) are shown in (Appendix No. 12).

Acquired properties.—At the commencement of the year there were 426 acquired or surrendered buildings in charge of this department containing 6353 tenancies. At the close of the year, corresponding figures were 439 buildings and 6375 tenements.

The gross demand of 6375 tenements in the acquired and re-entered buildings was Rs. 12,54,403. After excluding the amount for concession in rent and vacancies the net demand for the year was Rs. 12,51,379.

The revenue actually collected amounted to Rs. 12,23,964 which was equal to 64.74 per cent. of the total recoverable amount including arrears of Rs. 18,90,571 for the previous year.

Summary of revenue.—The total collection of revenue from leasehold plots and rent and ground rent from Building and vacant land tenancies and slum clearance properties are shown in Appendix No. 7 and Appendix No. 7A.

Requisitioned buildings.—The management and collection of rent in respect of 17 properties having 414 tenancies requisitioned from private landlords for A. R. P. purposes were continued to be looked after by this department. The demand inclusive of arrears in respect of these tenancies for the year was Rs. 1,77,474 and the recovery was Rs. 76,580 which was equal to 43.15 per cent of the total recoverable amount.

During the year under review, the demand and recovery of taxes aggregated to Rs. 68,908 and Rs. 1,00,585 respectively. The arrears due for collection at the close of the year stand at Rs. 5,65,029.

B.—MUNICIPAL SECTION

Details of the total collection of revenue in respect of Municipal properties under Budget 'A' are shown in Appendix No. 8.

Tenements constructed under Budget 'A' for Municipal General Staff are shown in Appendix No. 13.

GENERAL

(1) **Stopping the use of flour mills in Motor garages.**—The Corporation by their resolution Nos. 403 of 19th July 1957, 796 of 8th September 1968 and 169 of 10th May 1968 sanctioned the flour mills being permitted to be established in motor garages on Ex-trust plots where the sanctioned user was for shops and with a residential user having a shop line. Under the D. C. Rules flour mills are not allowed in motor garages and such a permission is not given to private property owners. In order, therefore, to bring Ex-trust plots on par with the provision of D. C. Rules, the Corporation sanctioned to rescind previous resolutions and stop the grant of such permission in future. (*Vide* I. C. R. No. 307 of 16th October 1969 and C. R. No. 553 of 2nd July 1970).

(2) **Ignoring change of user of motor garages.**—The change of user of already constructed motor garages on Ex-trust plots as ironing shop is not to be permitted henceforth and the period of ignoring the change of user of motor garages already granted before 21st May 1959 on Ex-trust plots is extended for a further period of 5 years from 19th December 1969 (*Vide* I. C. R. No. 86 of 19th June 1970 and C. R. No. 904 of 12th August 1970).

(3) **Grant of lease of land to the Co-operative Housing Societies formed by Municipal employees at concessional rate.**—In order to encourage municipal employees to form Co-operative Housing Societies and construct ownership blocks for them, the Corporation sanctioned the allotment of lands vesting in the Corporation (except acquired lands) to Co-operative Housing Societies formed by municipal employees at concessional rates (*Vide* I. C. R. No. 623 of 17th February 1971 and C. R. No. 2257 of 18th March 1971).

(4) **Relaxation of lease conditions regarding conducting of toddy shops in buildings on Ex-trust plots.**—As per covenants Nos. 5 and 12, the lessees are not allowed to prepare, keep, sale or deal in any kind of toddy on any part of the land leased to them. However, in view of the liberalisation of the policy of prohibition of the State Government the Corporation have sanctioned the suitable modifications in the above-mentioned covenants allowing sale of liquor, toddy, opium etc., by any holder of the licence of the Excise Department in the shops on Ex-trust plots with the consent of the M. C. in writing (*Vide* I. C. R. No. 662 of 23rd March 1971 and C. R. No. 336 of 19th August 1971).

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	As at the
	beginning of 1971-72	end of 1971-72
	Square metres in thousands	square metres in thousands
DEVELOPED LAND		
Area permanently leased	5006.08	5063.24
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	5230.69
Rent of permanently leased area (in rupees in thousands)	4752.01	5094.91

APPENDIX No. 2

Number of plots disposed of in different Municipal lands in the City during 1971-72.

Land.	C. S. No.	Area in sq. mtr.	Capital value:	Annual ground	Value paid
			Rs.	Rs.	if any. Rs.
(1) Dadar Naigaum Division Behind F/South Ward, Muni- cipal Offices, Parel Naka	8 (part)	2,452.00	5,57,217	39,005	—
(2) Worli Division at Worli Labour Camp near Lokumal Nagar	193 (part)	1,400.00	62,776	4,394	—
(3) Lower Parel Division	286 (part)	1,759.18	1,05,198	7,364	—
(4) Municipal land bearing Final Plot No. 122-A of Town Planning Scheme No. III at Mahim	—	1,460.72	3,49,404	24,458	—
		7,071.90	10,74,595	75,221	—

APPENDIX No. 3

Statement showing the disposal of Ex-trust lands during 1971-72 :—

Particulars.	No. of plots.	Area in sq. meters.	Capital value	Annual rent
			Rs.	Rs.
Plots leased on I Rental basis	3	56,463.02	40,73,711.00	3,40,600.00
Plots disposed of in 1970-71 or earlier but surrendered to the Municipality				
Corresponding figures for disposal of plots during last three years—				
1970-71	1	705.13	31,625.00	2,214.00
1969-70	—	—	—	—
1968-69	—	—	—	—

APPENDIX No. 3A

Number of plots disposed of in the different Ex-trust Estates during 1971-72 :—

Estates.	Plot No.	Area in sq. mts.	Capital	Ground	Premium	Remarks.
			value. Rs.	rent per annum Rs.	received if any.	
(1) Sion Matunga (East)	368	44,894.33	40,40,490	3,38,266	...	...
(2) Land behind Plot Nos. 65 to 72 Dadar Matunga (North)	...	642.15	23,021	1,595	...	... Building for Club. Play ground.
(3) Land in front of plot No. 202 Sion Matunga (East)	...	10,642.26	...	25	...	...
	...	284.28	11,200	714	...	...
Total	...	56,463.02	40,73,711	3,40,600	...	...

APPENDIX No. 4

Statement of permissions granted in respect of leased plots for 1971-72:—

Description.	No. of proposals.	Premium	Ground rent.
		Rs.	Rs.
Motor Garages	44	1,352	4,405
Additional floors	71	4,530	22,248
Change of use and Miscellaneous proposals such as encroachments, Basement floors, Canopies, temporary structures, Gallery Projections, Rewas Projections, Oil Projections, Lifts and Mezzanine floors	118	10,517	2,37,717
Fines	...	9,825	...
Transfer fees	...	3,500	...

APPENDIX No. 5

Comparative statement of demand, collection, etc., in respect of permanently leased plots:—

Particulars.	1969	1970	1971	1972
(1) Number of Tenancies	3,710	3,721	3,739	3,745
(2) Opening balance of arrears in lacs of rupees	20.81	26.03	20.13	19.77
(3) Demand for the year in Lacs of rupees	44.40	43.35	44.37	45.96
(4) Total demand including arrears in lacs of rupees	65.21	69.38	64.50	65.74
(5) Amount collected in lacs of rupees	42.81	46.12	47.74	48.22
(6) Percentage of collection to the demand including arrears	65.65	66.48	74.02	73.34
(7) Percentage of collection to the demand for the year	96.42	106.40	107.60	104.50
(8) Percentage of arrears to amount for collection	34.35	33.52	30.65	33.05

APPENDIX No. 6 Capital Account. Figures in Lakhs.

Particulars	1968-69		1969-70		1970-71		1971-72	
	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	75.00	2,378.56	...	2,378.56	...	2,373.56	...	2,378.56
Discount or Premium	...	-15.01	...	-15.50	...	-15.01	...	-15.01
Sale Proceeds	4.89	807.42	3.00	813.42	21.86	832.35	3.16	835.51
Appropriation from General Account	22.95	-204.61	18.87	-183.74	44.56	-141.18	45.10	-56.08
Special contribution from Government...	...	59.00	...	159.00	...	159.00	...	59.00
Release of Debentures lodged with Govt.	...	42.60	...	42.60	...	42.60	...	42.60
Extraordinary receipts	...	23.10	...	25.10	...	25.10	...	25.10
Miscellaneous	...	...	...	...	...	...	...	...
Total	102.84	3,100.91	21.87	3,122.78	66.42	3,181.42	48.25	3,421.84
EXPENDITURE								
I.—On Govt. and Municipal Property—								
Schedule 'W'	...	13.50	...	13.50	...	13.50	...	13.50
Do. 'X'	...	16.20	...	16.20	...	16.20	...	16.20
Do. 'Y'	...	4.70	...	4.70	...	4.70	...	4.70
Police Accommodation Schemes	...	91.60	...	91.60	...	91.60	...	91.60
Total	...	126.00	...	126.00	...	126.00	...	126.00
II.—On the Trust own acquired lands—								
Cost of Management and Estab.	4.95	229.60	4.33	333.93	1.04	334.97	2.08	337.05
Acquisition of land	0.40	1,052.70	1.9	1,054.66	...	1,054.65	-2.86	1,575.52
Chawls	47.52	552.91	2.92	574.63	10.00	585.63	1.99	578.62
Roads	15.36	701.15	5.65	706.80	4.51	711.33	6.51	717.94
Other works	...	9.07	...	91.07	0.78	91.85	4.49	6.34
Mill companies chawls	...	7.70	...	7.50	...	7.70	...	7.70
Total	68.23	2,735.13	33.86	2,768.99	17.15	2,781.14	28.53	2,815.07
III.—Miscellaneous—								
Office Buildings	...	4.50	...	4.50	...	4.50	...	4.50
Other items	...	12.30	...	12.30	...	12.30	...	12.30
Total	...	16.80	...	16.80	...	16.80	...	16.80
IV.—Disposal of Profits	...	...	...	...	...	...	...	...
V.—Debentures lodged with Govt.	...	42.60	...	42.60	...	42.0	...	42.60
VI.—Repayment of Loan	41.27	640.76	9.42	737.58	89.10	827.8	12.96	840.04
Total	68.23	3,064.90	33.86	3,098.76	106.25	3,798.62	41.89	3,849.51
Balance	34.71	76.0	11.99	14.70	-37.83	-617.0	6.27	-418.67

APPENDIX No. 7.

Summary of Revenue of 'B' Budget properties for 1971-72 :—

Particulars.	Collection of Revenue.		
	Permanent	Temporary	Total
Demand for the year	45,96,822	72,38,163	1,18,34,985
Arrears	19,77,946	69,30,244	89,08,190
Total	65,74,768	1,41,68,407	2,07,43,175
Amount collected	48,22,123	69,02,555	1,17,24,678
Variation in demand for the previous year carried during the year	+5,17,780 -97,481	+3,18,216 -3,73,121	+8,35,996 -4,70,602
Amount written off under S. C. R. Nos. 2039 & 2103 of 22-10-71 and 25-10-71.	...	24,073	24,073
Arrears as on 1st April 1972	21,72,544	71,86,874	93,59,818
Arrears as on 1st April 1971	19,77,946	69,30,244	89,08,190
Arrears as on 1st April 1970	20,13,527	62,79,503	82,93,030

Note.—Figures in appendix No. 6 are subject to reconciliation.

APPENDIX No. 7A

Summary of revenue of 'B' Budget properties under Slum Clearance for 1971-72 :—

Particulars.	Collection of Revenue		
	City	Suburbs	Total
Demand for the year	16,17,045	5,58,626	21,75,671
Arrears	5,66,276	7,56,260	13,22,536
Total	21,83,321	13,14,886	34,98,207
Amount collected	14,93,007	10,43,063	25,36,070
Variation in demand for the previous year carried out during the year	+1,23,802 -1,50,224	+2,510 -2,972	+1,50,312 -1,53,196
Amount written off	750	...	750
Arrears as on 1st April 1972	6,63,142	2,95,351	9,58,503
Arrears as on 1st April 1971	5,66,276	7,56,260	13,22,538
Arrears as on 1st April 1970	5,98,135	4,55,152	10,53,287

Note.—Figures in Appendix No. 6A are subject to reconciliation.

APPENDIX No. 8

Summary of Revenue of 'A' Budget Properties for 1971-72 :—

Particulars.	Collection of Revenue.		
	Permanent	Temporary	Total.
Demand for the year	2,43,912	31,93,520	34,37,432
Arrears	1,07,417	18,87,954	19,95,381
Total	3,51,329	50,81,484	54,32,813
Amount collected	2,49,072	31,43,759	33,92,831
Variation in demand for the previous year carried during the year	+2,624 -732	+1,03,176 -3,01,015	+1,05,800 -3,01,747
Arrears as on 1st April 1972	1,04,148	1,39,887	18,44,035
Arrears as on 1st April 1971	1,07,417	18,87,954	19,95,381
Arrears as on 1st April 1970	1,54,417	15,17,332	16,82,423

Note.—Figures in appendix No. 7 are subject to reconciliation.

APPENDIX No. 9

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	Rent received in 1898-99 was mainly rent under Schedule 'Z'.
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	---	3.1	---	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	*Includes interest paid to Government and the Municipality under Section 68 (1) of the old Act as shown below :-
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	24.3	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	
1925-1927	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	50.2	---	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	
19 9-1930	51 0	22 9	---	2 7	0 1	76 7	10 2	2 9	39 3	---	102 4	-25 7	
1930-1931	50 2	23 1	---	2 7	0 2	76 2	10 2	3 4	32 1	---	105 7	-29 5	

*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	-33.4
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	135.4	-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	79.5	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	68.0	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	+7.7
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	63.53	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	...	121.44	-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	37.89	6.38	3.78	0.64	119.30	45.86	2.45	75.62	...	123.93	-4.63
1956-1957	68.68	43.75	5.00	4.10	0.93	122.46	44.46	7.38	75.19	...	127.03	-4.57
1957-1958	67.24	44.53	14.56	4.39	0.26	130.98	49.14	7.71	76.12	...	123.97	+7.01
1958-1959	67.22	46.04	7.56	2.86	0.38	124.06	41.58	6.65	75.92	...	124.15	-0.9
1959-1960	69.78	47.44	7.64	1.95	0.70	127.51	41.31	7.85	75.82	...	124.98	+2.53
1960-1961	78.19	47.27	5.11	1.39	0.55	132.51	47.97	7.75	76.81	...	132.53	-0.02
1961-1962	78.45	54.67	5.13	3.21	0.68	142.14	45.62	7.85	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	10.07	3.38	0.54	205.26	87.75	16.10	94.91	...	178.76	+6.5
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	73.09	14.03	101.71	...	194.83	+22.95
1969-1970	122.79	121.78	0.39	3.35	3.63	251.94	10.82	17.13	106.12	...	233.07	+13.87
1970-1971	124.37	183.17	...	1.63	7.24	316.43	149.26	20.36	102.25	...	271.87	+44.56
1971-1972	132.09	2 0.20	...	6.42	4.28	342.99	164.30	35.12	98.47	...	277.89	+45.10
Total to the end of 1971-1972	3728.22	2501.27	293.06	252.07	45.14	6827.98	857.69	391.26	4633.84	27.33	6915.18	-255.32

Particulars of Municipal (Improvements) Chawls Cost, Net Annual Returns

Serial No.	Name of the Chawl.	Year in which these chawls appropriated for 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 1/2 per cent. for management and establishment	Cost of work value of the management and establishment charges columns 6 and 7	Interest and Sinking Fund charges on Capital outlay at 4 1/2 per cent. on column 8 up to 1919 and thereafter at 6.35 per cent.	Gross annual rent
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
			Sq. Metro	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1	1-4 Agripada A Chawls	1900	6091.21	8	50,995	1,85,505	2,36,500	10,903	39,012
	5-16 Agripada B Chawls	1903	9970.85	6	71,550	5,41,639	6,13,189	28,269	51,570
3	38-40 } Agripada C Chawl	1903	5226.65	6	37,506	2,79,182	3,16,688	14,599	1,00,098
	45-46 }								
4	19-24 Chandanwadi Chawl	1904	8080.36	15	1,44,960	3,76,915	5,21,875	24,059	1,00,786
5	25-27 } Imamwada A Chawls	1905	11239.26	13.8	1,81,467	4,98,562	6,80,029	31,349	1,05,718
	29, 30 & 31 }								
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	94,192
8	52 Workmen's Cottages Matunga	1905	789.31	5	4,720	12,083	16,803	774	1,695
9	17-18 Nagpada A Chawls	1903	2148.02	7	17,983	82,358	1,00,341	4,676	17,219
10	39 Nagpada A Chawl	1904	1755.04	7	14,693	95,776	1,14,469	5,277	18,116
11	28 Princess Street Chawls	1907	1237.47	30	44,400	42,417	86,812	4,002	9,948
12	42-44 } Superibaug Chawls	1910	6756.77	4.8	36,364	3,39,878	3,76,242	17,345	53,970
	47-49 }								
13	52-57 Chinch Bunder Chawls	1913	7103.76	26.66(d)	2,26,560(e)	3,79,622	6,06,182	27,945	82,798
14	86-95 Cottage Blocks (old)	1920	2324.44	10	27,800	36,069	63,869	4,056	4,735
15	58-61 Clerk Road Chawls	1921	3495.86	15	62,715	4,39,814	5,02,529	31,911	46,146
16	62 Pais Street Chawls	1921	2858.73	15	51,285	1,70,863	2,22,148	14,106	20,300
17	63-66 Mominpura Chawl (Old)	1921	6488.37	15	1,16,400	4,31,655	5,48,055	34,801	42,104
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	25,509
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	2,34,879
22	1-16 Maangon Chawls	1922	24315.50	10	2,90,810	21,77,079	24,67,889	1,56,711	1,70,916
23	1 Mominpura Chawls (N.W.)	1923	3270.10	20	78,220	3,14,276	3,92,496	24,923	35,524
24	1-23 Love Lane Chawls	1925	11176.50	18.8	2,47,289	11,36,407	13,83,696	87,865	1,33,465
25	1-10 Sydenham Road Chawls	1925	10698.28	16	2,04,720	7,78,071	9,82,791	62,407	99,919
26	1-2 Palton Road Chawls	1940	2721.60	25	81,375	2,32,503	3,13,878	19,931	78,129
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	60,871
29	Naigam Chawls	1957	3362.08	40	1,60,840	5,59,481	7,20,321	29,110	37,113
30	Sion Chawl	1958	927.27	40	44,360	1,40,842	1,85,202	7,997	14,468
31	Wadala Chawls 112 Tenements	1959	2897.19	40	1,38,640	6,27,257	7,65,899	32,474	59,917
32	Wadala Chawls 272	1960	10058.68	40	4,81,680	15,58,841	20,37,521	86,391	1,36,476
33	Wadala Chawls 144	1961	6765.13	5	4,04,550	5,92,806	12,7,356	55,008	72,495
34	Wadala Chawls 160	1961	6212.45	50	3,71,500	10,13,999	13,85,499	58,745	76,298
35	Wadala Chawls 224	1961	7836.21	50	4,68,600	14,67,658	19,56,258	82,945	85,899
36	60 T. Morbag								19,094
37	Tenements at 144 S. G. Marg								62,672
38	Jamino Mills-Rejeshri Shahu Nagar								5,93,110
39	10 St George Road, Sion Koliwada								35,129
40	24R at Sion Agrivada								16,468
41	Do. as New colony								2,64,352
42	36 T. Worli								27,240
	Total		2,65,288		54,70,60	1,91,84,087	2,46,14,610	12,96,415	31,57,468

(a) 15.8-0-0 (or 8 large rooms (double) rooms having partition inside A- Includes rooms rent free in 8 Sweepers
 (b) Represents 1 room B- Room used for Office and Store
 (c) This figure represents the value of Rs. 40 per sq. yd. of the site situated C- do temporarily occupied by Schools.
 between the 25 road and the Railway and measuring 5,664 sq. yds. D- do do do Shops.
 figure is arrived at by dividing by 8.4% yds. E- do do do Gymnasium
 F- do do do Cinema
 G- do do do Cinema

Calculated at 6.24 per cent.

No. 10

Number of tenements, full letting value

Annual profit or loss— i.e. 29.82 per cent. of column 10-9.	Percentage of rat- annual return 29.82 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 of 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. -22,536	4.92	312	3	Sq. ft. 175	R. P 7 49	8 14 0	276	1-B 5-D & 3-E
-43,645	2.51	558	4	110	10 40	7 10 0	926	20-E
-44,440	9.42	288	4	142	6 45	8 1 0	414	18-E
-54,113	5.75	433	4	177	7 75	8 12 0	433	1-F
-64,357	4.43	674	4	125	8 95	10 6 0	846	2-D, 9-E
-56,210	4.77	857	4	135	11 93	9-13, 10-1 10-5	30	2-B, 4-C & 5-D
-1,324	3.27	30	4	160	8 31	Rs. 9-13 10-1, 10-5	222	...
-9,10	5.11	278	4	176	9 96	17 5 0	...	10-E, 26-C
-6,963	4.71	15	1	120	8 31	12 7 0	144	...
-33,438	4.28	144	4	148	9 96	9 10 0	144	...
-52,635	4.07	144	4	160	10 83	14 2 0	479	...
-5,467	0.22	64	4	136	12 98	9 4 0	372	...
-45,671	2.74	481	4	176	9 30	13 6 0	...	...
-20,183	2.73	405	2	176	8 36	38 0 0	...	...
-45,156	1.92	14	1	275	10 09	13 12 0	320	4-E
-25,138	2.08	325	4	176	24 81	15 13 0	131	1-F
-27,759	2.40	134	4	175	28 87	13 8 0	241	3-E
-8,619	1.07	246	4	175	9 62	Rs. 55, 60 & 65	...	6-D
-2,76,634	2.15	(b) 160	4	562	40 77	Rs. 35, 33, 32	...	...
-2,07,670	2.07	36	4	338	22 81	35	...	...
-35,516	2.70	72	3	325	29 47	...	...	...
-1,27,664	2.88	10	5	325	30 83	...	...	...
-92,202	3.03	1,549	3	176	10 66	Rs. 16 5, 8-6 17-14	1,513	20-C 7-D & 9-E
-71,253	2.76	1,305	3	176	12 83	Rs. 15-6, 15-14	1,263	36-C, 4-D & 2-E
-66,106	2.70	234	4	176	9 36	13 8 0	227	7-E
-40,177	2.33	...	...	176	11 24	...	792	6-D, 22-E & 1-F
-50,341	2.33	...	...	176	9 46	15-1, 16-9, 17-1, 7-9	387	1-B, 1-C, 1-D & 1-E
-1,27,088	1.96	821	4	176	12 38	Rs. 15-7, 16, 16 8, 32 33, 35	125	24-E
-76,626	1.67	391	4	328	26 74	Rs. 15 7, 16, 16-8	76	1-E, 6 C
-81,497	1.64	156	4	180	10 38	Rs. 35	194	...
-1,08,560	1.31	86	4	180	11 09	Rs. 36-10	120	...
		194	2	180	26 03	...	24	...
		120	4	190	27 06	...	...	...
		24	4	237	22 91	...	...	...
		112	4	273	24 20	...	...	...
		272	4	...	21 86	...	...	...
		144	4	...	29 43	...	...	...
		160	4	...	50 33	...	...	...
		224	4	...	31 50	...	...	...
			4	...	47 00	...	...	...
			4	...	64 00	...	...	...
			4	...	66 50	...	...	...
			4	...	67 50	...	...	...
			4	...	97 00	...	...	...

* 5-A, 61-C, 35-D, 180-E, 4-F, 72-G

APPENDIX No. 11

Statement of percentages of outgoings in respect of Chawls and S. P. Sheds :—

Particulars.	Permanent Chawls		Permanent ground floor rooms & S. P. Sheds	
	1970-71	1971-72	1970-71	1971-72
Sanitary Staff	18.75	20.90	24.88	29.98
Pumpmen	...	...	...	...
Cost of Management and Establishment	7.50	7.50	7.50	7.50
Municipal Rates and Taxes	24.20	44.04	33.68	64.37
Repairs and Maintenance including lighting	60.43	55.38	36.19	5.07
Vacancies	...	...	...	...
Total	110.88	129.82	102.25	154.92

APPENDIX NO. 12

Statement of tenements constructed for Slum Clearance Scheme (City & Suburbs)

Serial No.	Locality.	Year of Construction	No. of structures	Number of Tenements		Subsidised rents Charged	Standard Rent	
				Residential	Shops Godowns		Rs. P.	Rs. P.
Municipal Scheme :—								
1	Patil Road Chawl No. 4	1956	1	83	20	31.27	46.04	105.85
2	Trains Road Transit Camp.	1957	19	137	9	24.59	29.24	29.24
3	Tank Pakhadi Transit Camp	1958	27	254	...	24.59	29.24	29.24
4	Dharavi	1959	5	120	...	27.24	...	...
5	Shopping Block at Haines Road...	1960	1	...	4	...	22.69	63.20
6	do. do. Milk Street...	1962	1	...	17	16.48	73.64	92.05
7	Shopping Block at Tulsiwadi Body-Guard line	1963	1	...	15	...	...	30.91
8	Shopping Blocks at Water St.	1963	1	...	10	...	...	Varying from 35.15 to 43.94.
Government Aided Schemes								
1	Haines Road	1959	7	112	...	29.24	...	57.5
2	Haines Road	1959	5	80	...	29.24	...	...
3	Sukhalaji Street	1960	1	76	...	30.34	...	...
4	Sion, Scheme 6	1960	1	40	...	29.25	...	...
5	Body Guard Lines Dharavi	1960	6	96	...	31.24	52.23	51.22
6	Dharavi	1961	5	168	...	29.24	...	...
7	Feras Road	1961	1	42	13	29.24	...	...
8	Rawli Camp	1961	18	288	...	29.25	...	74.84
9	Rane Compound Arthur Road	1961	6	208	...	29.11	...	...
10	Water Street, Byculla	1961	7	112	...	29.24	...	...
11	Haines Road	1962	2	32	...	31.24	...	...
12	Sion Scheme 6	1962	2	80	...	29.24	...	...
13	Body Guard Lines	1962	8	128	...	32.48	...	...
14	Bapty Road	1963	1	40	...	31.24	...	75.40
15	Haines Road	1963	6	96	...	31.24	...	70.85
16	Rawli Camp	1964	14	224	...	31.24	...	...
17	Sion Village Blk E	1964	1	24	11	67.09	...	135.40
18	Kamathinura C Bk Bapty Rd.	1964	1	22	...	31.24	...	69.66
19	Do. Bapty Rd. 'A' Block	1964	1	26	11	31.24	...	85.00
20	Kamathinura MI Area stable street	1965	1	41	11	31.24	...	78.60
21	60 t. at Falkland Road 8th X Lane	1966	1	60	...	...	...	75.30
22	60 t. at Hains Road	1966	3	60	...	38.67	...	85.7
23	Rawli Camp	1967	6	240	...	37.67	...	87.87
24	Rawli Camp	1969	5	132	8	39.67	...	83.86
25	Rawli Camp near Koliwada level crossing Cpn. S. S. S. Near.	1969	1	32	10	153 for shops—	...	64.53
26	Kamathinura MI Area stable street	1970	1	45	12	...	...	68.29
27	Peru chawl Lalbaug Gas Work Lane	1970	1	30	...	...	...	...
28	60 t. Rawli camp	1971	3	60	...	51.50	...	...
29	Rawli camp BKE 3 & A. 7	1972	2	44	...	...	...	75.00
Suburbs								
30	Vikhroli	1961	16	396	...	29.24	...	55.56 & 61
31	Do.	1963	12	348	...	31.24	...	52.53 & 54
32	Kharwadi Bandra	1964	17	272	...	31.50	...	58.50
33	Tenements along Eastern Express Highway Ghatkopar	1965	108	1004	...	...	...	...
34	60 t. at Bombay Agra Road Ghatkopar	1966	3	60	...	...	...	...
35	320 t. at Santacruz	1966	20	320	...	31.50	...	58.50

APPENDIX No. 13

Statement of Tenements constructed from Budget 'A' for Municipal General Staff :—

Serial No.	Locality.	Year of construction.	No. of structures	No. of tenements	Subsidised Rent		Standard rent.
					Maximum	Minimum	
					Rs.	Rs.	Rs.
					(Subsidised rent at Rs. 12 per 100 sq. ft.)		
1	Gilder Lane Tenements, Bombay Central.	1958	4	144	54.79	38.79	93.59
				(64)*	38.24			65.30
2	Elphinstone Road	1958	3	72	25.81	19.70	41.86
				(80)			
3	Surya Cinema Tenements Naigaum	1958	2	48	25.81	19.70	41.96
3	Chinchpokli Tenements Arthur Road.	1959	2	32	33.13	26.82	53.73
				31.15			
				35.04			
				32.94			
5	Maratha Hospital Compound, Byculla.	1959	4	64	34.84	26.70	52.61
6	Worli, Tenements Dr. Annie Beasant Road.	1961	7	112	36.64	26.82	66.94
					33.72		
					33.08	72.19	
					35.44		
7	40 tenements Maratha Hospital Compound.	1965	2	40	34.82	—	70.55
					32.95		
					33.51		
					33.88		
					34.75		
8	Maratha Hospital Compound, Byculla.	1962	2	16	41.24	—	71.19
				8@	38.15			65.19
9	88 Tenements near Wadala Railway Station.	1966	3	88	68.23	23.73	114.08
				22	23.73			136.08
							(Shops)
							57.00
							(Rooms).
Suburbs.							
1	Khar Tenements Hasnabad Lane.	1961	5	60	37.09	—	—
					40.16		
2	18 Tenements at Khar	1968	—	18		—	71.80
							90.50

* Three room tenements. Rest are two rooms tenements.

@ Four room tenements.

As per new formula rent to be charged at 10 percent of total emoluments or Standard rent whichever is less if the allotment is made on and after 19-8-1971. (C. R. No. 547 of 19-8-71)

HYDRAULIC ENGINEER'S DEPARTMENT

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 Veihar, 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 Bhivpuri.

II.—BRIEF HISTORICAL REVIEW OF SOURCE DEVELOPMENT

The first source to be developed was the Veihar Lake in 1860, the supply until then having been drawn only from local wells and tanks. The demand for piped water through initially limited, rose rapidly, necessitating the developments of the Tulsi Lake in 1878. The supply potential of the Veihar Lake was 61.36 m. l. d. (13.5 m. g. d.) and that of the Tulsi Lake 18.18 m. l. d. (4 m. g. d.). Both these sources were located on the Salsette Island itself.

The next stage of development required water to be conveyed from the main land over much longer distances and across the intervening Thana Creek. The first stage of the Tansa Scheme was completed in 1892, the conveyance of the water having been achieved by constructing a masonry duct running along the contours of the hills at a gradient of 150 mm. (6") per mile with an inverted syphon main of 1200 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 syphons. This brought the total capacity of Tansa to about 182 Ml. (40 m. g. d.)

The Tansa completion work consisting of raising the dam by another 1.62 mt. (5.42 ft.) constructing a new outlet well and laying 2 Nos. 1800 mm. (72") diam. rivetted steel mains by a somewhat different alignment to convey another 327 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 2nd 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 spill-way of the Tansa Lake increasing its full supply level by 0.61 Mt. (2 ft.).

The new augmentation scheme consisted of building a dam on the Vaitarna River in the neighbouring catchment of Tansa, a tunnel through the intervening range of hills for conveying water to Tansa and an additional main from Tansa to Bombay. The size of this main was 2,400 mm. (96") diam. It was of welded steel construction and 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 M) was the longest pipe-line of such a larger diameter anywhere in the world. A total combined capacity of the Vaitarna and Tansa complex on completion of the augmentation scheme in 1956 was about 909 Ml. (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 Mt. (120 m. g. d.) to Bombay.

The Powai Lake which was developed in 1889 has not been mentioned in the above review, as it was hardly ever used as part of the system owing to the rather inferior quality of its water. During recent years, it is being used for supplying to the stables in the Aarey Colony and for growing paragrass in the surrounding areas.

III.—DETAILED DESCRIPTION OF HEAD WORKS AND CONVEYANCES SYSTEM

(a) **Vaitarna Head Works.**—The Vaitarna Head Works consist of a gravity dam spanning a gorge of 555 Mts. (1820 ft.) and having a height of 82 metres (269 ft.) above the bed of the river. It is built of mass concrete which had been pre-cooled to the temperature of about 15.60 centigrade (60° F) at the time of construction, this being the first instance of this type of construction in the country.

The spillway section consists of 8 gates each of 12 metres (40 ft.) width and 8 Mts. (26 ft.) height. Four of these gates are electrically operated and the remaining four work by buoyancy. For emergency repairs to gates prefabricated stop-logs have been prepared and kept ready mounted on the dam and for lowering these into position, a 14 ton capacity Goliath Crane has been installed running along the dam. The dam is also provided with a 14 ton capacity Goliath Crane has been installed running along the dam. The dam is also provided with under sluices and has two inspection galleries at different levels. There are arrangements for measuring the deflection of the dam under different condition of loading the reservoir.

Intake 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 (480 ft.) were provided. Thus the total number of additional opening in the Intake Tower are now at levels 158.50 metres 152.40 mts. 146.30 mts. and 140.20 metres (520 ft. 500 ft. 480 ft. and 460 ft.) THD so as to enable the water to be drawn from the level nearer to the surface.

The length of the tunnel between Vaitarna and Tansa is 9.24 Kms. (6 miles) being made up for three sections with 3150 mm. diam. steel pipes spanning the Balwant and Tasu Nalas which run across the alignment. The tunnel divides into two branches at a Bifercation 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 lower 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 system.

During the year under review a direct supply was maintained from Vaitarna lake to the City and there was no transfer of water to Tansa lake.

About 47,400 ML (10,440 Mgs.) of water was transferred from storage at Upper Vaitarna lake to Lower Vaitarna lake in which the levels at the close of the year were comparatively much higher.

The Vaitarna Head Works are manned by a total staff of 82 persons including a Medical Officer. The power required for domestic use, work-shop etc. and for the operation of spillway gates, was generated departmentally at Vaitarna, the power house consisting of 3 Nos. 100 KW capacity Diesel Generators which generate power of 440 volts and transmit it over the area through overhead lines aggregating about 4.82 Km (3 miles). Besides the Inspection Bungalow and the staff quarters, there are also 9 furnished bungalows which are utilised by members of public visiting the site. All these bungalows including the Inspection Bungalow have been oil-painted.

Turbidity levels in Vaitarna Lake.—During the moonsoon of 1971, the maximum level of turbidity measured at the lowest intake point was 15 ppm, the values being much lower than those of previous year because of the stabilising 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 year under review, Upper Vaitarna water amounting about 47, 400 ML. (10,440 Mgs.) was released in the Vaitarna lake from 19th February 1972 to 31st March 1972.

Primary School at Vaitarna.—The primary school conducted by the Zilla Parishad has been taken over by the Corporation under its management in May 1971. The average attendance of the pupils both children of Municipal employees and others, was about 150. The school was shifted from the old school building to the other renovated building, from November, 1971.

Renovation of Dispensary at Vaitarna.—The work of renovation of dispensary building was in progress.

(b) Tansa Head Works.—The Tansa Head Works consist of a gravity masonry dam having a length of 2,835 mt. (9,300 ft.) above the bed of the river. The spillway section consists of 38 gates each of 15.24 mt. (50 ft.) and 1.22 mt. (4 ft. height). These shutters operate automatically, falling into open position when the lake level reaches their lip and being brought into the shut position with the help of counter weights, as soon as the level falls slightly below the lip. There is an arrangement for drawing water at seven different levels the lowest outlet being 1200 mm. (48") dia. opening at level 114 mt. (375 ft. THD) re-entering the outlet well which is located 86 meters (250 ft) away from one end of the outlet well and connected with it by pipeline downstream side of the dam. This last outlet was specially made in 1947-48 in order to be able to draw upon the lake to a lower level in emergencies.

From the outlet, the following pipes take off:—

1. No. 2400 mm. (96") dia. Vaitarna main.
2. Nos. 1800 mm. (72") dia. Tansa East and West steel-mains.
1. No. 1200 mm. (48") main leading into a masonry duct.

The Tansa Head Works are manned by total staff of 110 persons. Specially furnished Inspection Bungalow commanding a panoramic view of the lake. A pavillion has also been provided for picknickers.

(b) Ulhas Head Works.—The Head Works of Ulhas Scheme consist of an Intake Channel, the flow level of which is at a head of 25 metres (82 ft. THD) leading into a feeder channel from which the pumps installed in the Machine Pump House, on the right bank of the Ulhas river derive their water. There are 8 pumps of 250 HP including 2 standby units. From this pump house, the water is pumped into a 1200 mm. (48") dia. pipeline 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. 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 HP installed at this place including 4 stand-by units.

Support from Ulhas River.—The quantity of water pumped from Ulhas River during the year under review was 34,614 ML. (76.0 mg.) and the quantity of water filtered was 30,468 ML. (6740 mg.).

APPENDIX No. I—Contd.

Date and Time.	Place.	Business	Extinguished by	Damage	Estimated loss.
1	2	3	4	5	6
24-7-1971 1729 hrs.	Messrs. Trichem Laboratories Unit No. 11, Lalwani Industrial Estate, Bhandarkar Road, Dadar.	Mfg. Chemicals & printing press.	Firemen with six jets of four motor pumps and one T. T. L. monitor.	Large quantity of fine chemicals, wax, finished goods, laboratory equipments, machinery electrical installation, small quantity of papers, office furniture, record documents, etc., severely damaged by fire, heat, smoke and water with window, doors, ceiling plaster, beams on second floor of a four floored Industrial R. C. C. Building.	4,82,200
7-9-1971 (216 hrs.	Vanjara Building 14/22 Old Nagpada Road, Dongri.	Coir matting timber, etc.	Firemen with one first aid appliances and six pump.	Stock of cotton mattresses, cosmetics, oil drums, transport goods, coir palm tree mattresses spices, coir strings, broom sticks and such other commodities severely damaged by fire, heat, smoke and water in a godown situated in a two floored, brick walled building area about 15×12 metres.	3,72,000
22-11-1971 1658 hrs.	380, Jagannath Shankar Seth Road, Nana Shankar Seth Compound.	Printing press, plastic toys, etc.	Firemen by cutting off current, one first aid appliance and 3 motor pumps and two C. D. appliances.	Large stock of plastic goods, raw and finished goods, machineries, painting frames, hardware, timber sheets, wooden and steel furniture electric installation, office record, severely damaged by fire, heat, smoke and water with ground floored, A. C. Sheet structure.	1,52,000
5-12-1971 0345 hrs.	Shroff Market, Gokhale Roa (South).	Readymade garment.	Firemen with 6 engine lines of 6 motor pumps.	Various types of machineries, electric fans, irons, wooden furniture, readymade garments, clothes, bobbins, large quantity of thread, office record, electrical installation and partition with A. C. and wooden partition severely damaged by fire, heat, smoke and water with wooden flooring, doors, windows of the room area 24×12 mts.	1,01,000
14-12-1971 1104 hrs.	Carlie House, Chhatrapati Shivaji Marg.	Laundry, guest house and residential.	Firemen with 18 lines from 14 pumps.	The entire five floored, timber flooring ceiling, and staircase building was completely gutted by fire and collapsed leaving the four walls and windows, roof of the adjacent two buildings also severely damaged by fire, heat, smoke and water.	27,43,000
14-1-1972 2036 hrs.	State Bank of India Building, Madam Cama Road, Nariman Point.	Offices and Canteen	Two lines and one first aid line (foam fixed wetriser installation).	Air conditioning machines, office furnitures, few typewriters, costly floor carpets, paints, thinners painting on cloth, electrical fittings, electric lifts, telephones, with false ceiling, partitions, walls, window panes, etc., severely damaged by fire, heat, smoke and water on 8th floor to 21st floor of a twenty one storeyed R. C. C. building (with two basements) used as offices and canteens.	1,21,50,000
20-1-1972. 2114 hrs.	New Cork Industry, Gala No. 5 and 8, Agadhi Ind. Estate, Building No. 2, Ram Mandir Road, Goregaon.	Mfg. Cork products.	Firemen and Home Guards with three motor pumps, four engine lines.	Two pulverising machines, one disintegrator machine, four sewing machines, and one stirrer slightly damaged, eight electric motors, eight starters and about 16 switches, electric installations, paint work of the wall ceiling scorched.	75,000
30-1-1972. 1305 hrs.	L. B. S. Marg, Kanjur (West) Shri Hanuman Silk Mill Compound off Dockyard Colony.	Mfg. Corrugated board and boxes.	By firemen with seven engine lines of seven pumps.	Drums of Sodium Silicate, glue (about 4 each) large stock of paper rolls, machinery, slotting, punching, cutting etc., spare parts of machinery, weighting machine, furniture, electric installations and fixtures, finished and semi finished goods, currency notes, about 80 paper rolls damaged.	3,30,600
18-2-1972. 1254 hrs.	Messrs. Bombay Soap Factory Maulana Azad Road, Maulana Cross Road.	Soap and Oil Factory.	Firemen with 7 engine lines with ten motor pumps.	Large stock of packing material wooden and plastic cases machinery, tools, wooden furniture, sigh bibles, oil cakes steel tanks, containing oil electric installation severely damaged by fire heat smoke and water with brick walls steel framed A. C. sheet roof, false ceiling of two floored building area 35 mts. × 25 mts.	2,25,000

Serial No.	Name of the Plant	Supply	Dosages.
1	Central Chlorination Plant	... Vaitarna, Tansa Vehar.	1.7 to 2.5 p.p.m.
2	Tulsi Chlorination Plant	... Tulsi	2.0 to 3.5 p.p.m.
3	New Bhandup Chlorination Plant	... Vaitarna, Tansa	2.00 to 3.00 p.p.m.
4	Old Mulund Chlorination Plant	... Vaitarna, Tansa	2.5 to 3.0 p.p.m.
5	Veravali Chlorination Plant	... Vaitaran, Tansa	3.0 p.p.m.
6	New Mulund Chlorination Plant	... Vaitarna, Tansa	3.0 to 4.0 p.p.m.

Besides Chlorination, the Tulsi supply was also given Alum Treatment for coagulation. The dose of Alum, varied from 0.56 to 1.0. grains per gallon of water. The total quantity of chemicals used in all the above plants including those in city also was as under :-

(a) Liquid Chlorine	936.696 M. Tonnes.
(b) Alum.	40.00 M. Tonnes.

The following chemicals were kept in reserve for Emergency use.

(a) Bleaching Powder	...	2350.0 Kg.
(b) Potassium Permanganate	...	50.0 Kg.
(c) Copper Sulphate	...	1.0 M. T.
(d) Soda Ash	...	50.0 Kg.

(j) Medical Aid.—During the year, there were two dispensaries and one first-aid centre working in the outside City and Head Works Divisions of this department with one Medical Officer, two Pharmacists and one Dresser. Attendance at the dispensaries, one at Ghatkopar and one at Kapurbawadi and first-aid Centre at Powai was as follows:

	New Patients.	Old Patients	Total
(1) Ghatkopar Dispensary	3,796	12,992	16,788
(2) Kapurbawadi	2,118	13,315	15,433
(3) First Aid Centre, Powai	799	1,442	2,241
	6,713	27,749	34,462

(k) Work of Importance

1. Making 24" cross connection between 1200 mm. (48") Old Tansa and New 1800 mm. (72") Chord main at Ghatkopar cross connection and Commissioning the newly laid 1800 mm. (72") Chord main from Powai to Ghatkopar cross connection on 5th February 1972.

2. Providing additional 150 mm. (6") Scour Valve and a manhole on new 1800 mm. (72") Chord main at Ghatkopar cross connection.

3. Expansion joints of 2400 mm. (96") dia. of Vaitarna main between Powai and Sahar Anchor Block were repaired and 3 major leaks were arrested.

4. A new pattern gland rings with rubber packing were tried out on three of the leaking expansion joints at Kasheji Powai of 2400 mm. > 1800 mm. (96" > 72") dia. Vaitarna main and the results were encouraging i.e. the leak could be stopped without isolation of trunk mains.

5. Fabrication of 15 Protective Covers for Expansion joints of 2400 mm. (96") Vaitarna main were carried out in the Workshop at Ghatkopar departmentally.

6. Extensive patch plating was carried out on steel mains in the Outside City and Ulhas Divisions.

7. Complete electrification of Vchar Gardens and Visitors' Bungalows and also Powai Park and gardens were carried out.

8. The Diesel driven pumping units were replaced with 2 Nos. of electric driven pumping sets at Vehar.

9. In the monsoon the abutment wall of 2 span culvert near Ghatkopar cross connection collapsed and temporary repairs were carried out during monsoon. Permanent repairs were in progress.

10. A landslide occurred at two places for lengths 60.96 Mts. (200 ft.) in the cutting at Bhandup. The trolley traffic was dislocated for about a week.

11. Two additional 600 mm. (24") dia. middle Sluice valves on 600 mm. (24") Tulsi main at Khar Golibar were provided.

Commissioning of Upper Vaitarna Main

(p) A portion of 2750 mm. (108") dia. Upper Vaitarna main was put into commission from Aghai to Mohili on 25-11-1971, from Kapurbawadi to Mulund on 23-8-1971, from Pogaon to Tarali on 19-11-1971 and from Tarali to Gundovali on 7-1-1972 in addition to the portion from Gundovali to Kapurbawadi put into commission during the previous year, and as such the Vaitarna Head Works was gainfully utilised throughout the year thereby increasing the City's supply.

The Ullhas Division pipelines maintenance works were manned by total staff of 225 persons at Kasheli and Jamboli.

(M) Security Measures during Indo Pak War.—

(1) All the vital installations in the Head Works Division were prohibited to the public under Defence of India Rules and the staff members volunteered their services for guarding the same day and night, during the black-out period.

(2) All the employees and their family members were issued identity slips and outsiders and unknown persons were not allowed to enter Municipal premises and colonies;

(3) Hourly water samples were taken from Tansa and Vaitarna lakes for testing for toxic elements.

V.—DISTRIBUTION DIVISIONS

(i) Distribution Division (City).

General.—Distribution Division deals with distribution and regulation of water supply within City limits. It also deals with investigation of short supply complaints, granting permission for new connections, additional fittings and their certifications, taking court actions for enforcement of Sections of Bombay Municipal Corporation Act relating to public and private water supply, 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.—The new control room at Babula Tank is equipped for the entire Greater Bombay, Water Works, continued to be in charge of an Engineer designated as Assistant Engineer Water Works Distribution and Control. He is responsible in all matters covering control of all water supply for the entire Greater Bombay including lakes.

For the purpose of distribution of supply, the City is divided into five main divisions, each division receiving supply from (a) Malbar Hill Reservoir, (b) Bhandarwada Hill Reservoir, (c) Golanji Hill Reservoir, (d) Worli Hill Reservoir (e) Directly from trunk mains.

The details of area served by the four Reservoirs and the direct supply area shown in Appendix XVII. The timings as actually operated on 1st October 1971 are given in Appendix XVIII.

The average quantity of water per day brought to the City, Suburbs and Extended Suburbs was as follows:

	In Mega Litres	In Million Gallons.
City	690.11	151.81
Western Suburbs	212.79	46.81
Eastern Suburbs	154.37	33.96
Extended Suburbs (West)	81.46	17.92
Extended Suburbs (East)	25.00	5.50

Short supply Complaints.—During the year 32,794 Nos. of complaints were received as against 55,662 number of complaints during the last year as detailed in Appendix XIX.

Reservoirs.—Malbar Hill Reservoir 800 mm. (32") Tardeo outlet was converted into inlet main in parallel with 900 mm. (36") M. H. R. inlet main from Nana Chowk to M. H. R. from 3-2-1972 to improve the input to this Reservoir.

Golanji Hill Reservoir.—An orifice plate on 600 mm. (24") inlet main to Golanji Hill Reservoir was fixed on 29th October 1971 for measuring the input to the Reservoir.

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 153 cases, under Section 271 (2) in 22 cases in respect of premises which without adequate water supply. The number of prosecutions launched during the year was 142. The number of convictions was 164.19 Cases were withdrawn after compliance with notice and 47 cases were pending disposal at the end of the year. The total amount of fine recovered was Rs. 3,016 Besides, about 2853 notices under Section 278 (2) of the Bombay Municipal Corporation Act were served on the owners for defects in the water fittings excluding those in respect of unauthorised work infringing the provisions of Section 287(A) and (B) of the Municipal Act and non-compliance of Water Bye-laws and as a result of these 693 prosecutions were launched. The number of convictions was 625 and the amount of fine recovered was Rs. 3,926.

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 1,163 against 1,617 in the previous year. In 7 cases, the supply was cut off. In the remaining cases, the execution of disconnections orders was not carried out, as the consumers complied with the municipal requirements.

Fire Attendance.—The total number of calls received by the Babula Tank Control from the Fire Brigade Department for City, Suburbs and Extended Suburbs were 1,805 as against 2,026 received in previous year. Out of these 265 calls were false. 56 calls were on account of house collapse and 85 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 12.56 Ml. (2.76 mg.). The total number of fire vans were five and were stationed at (1) 'A' Ward, (2) Babula Tank, (3) 'E' Ward, (4) F/South Ward, (5) G/South Ward.

Flying Squads.—As a result of low pressure in Municipal water mains and increase in number of payment dwellers, hydrants were found open in various localities in the City by use of crude keys. This apart from wastage of water and low pressures created problems as hydrants were rendered inoperable due to damage to spindle gates. In order to minimise wastage due to unauthorised opening of hydrants, two flying squads each consisting one Overseer, Two Policemen and Two labourers operated during the period from 19th April 1971 to 19th July 1971. Further it was discontinued and monsoon broke out heavily. During this period 633 hydrants were closed, 75 spanners and keys, 42 masks, 1935 Utensils, buckets and vessels were confiscated. Revenue received from returning utensils to the public on payment of small fees was about Rs. 2,891 and through auction of unclaimed confiscated utensils was Rs. 785.

Stand Pipes.—Metered stand pipes were given for a group of not less than 20 persons on receipt of their application. During the year 74 new stand pipes were given and 11 were cut off, bringing the total number of stand pipes at the end of the year to 348. The details are given in Appendix XXII.

II.—DISTRIBUTION DIVISION (SUBURBS AND EXTENDED SUBURBS).

Distribution System.—The Suburbs and Extended Suburbs are supplied water by gravity through several tapping points on the trunk mains coming from the lakes. For distribution purposes, the areas are divided into two zones viz. Western and Eastern. Former derives supply from the tappings on the 2,400 mm. (96") dia. Vaitarna, 1,450 mm. (57") dia., West Tansa 600 mm. (24") dia., Tulsi Main between Powai and Bandra and the later through tappings on the 1,800 mm. (72") West Tansa Main, 1200>800>600 mm. (48")>32">24" Vellar Main and 1200 mm. (48") New and Old Tansa, Tansa Mains. The hours of supply of different localities in the Suburban and Extended Suburbs are shown in Appendix—XVIII.

(a) Tunnels

The 3.96 metres (13') dia. tunnel between Mulund and Kandivali was put into commission fully.

Borivali, Dahisar, Kandivali, Malad and Goregaon (West) areas were supplied from 3.96 metres (13') dia. tunnel.

(b) Tulsi Supply

In addition to Aaray Milk Colony, the supply from Tulsi lake was given to Goregaon (East) and part of Malad (East) in a staggered manner. The supply timings is shown in Appendix—XVIII.

(c) Reservoirs.

The Pali Hill Reservoir.—The Pali Hill Reservoir is continued to supply water by pumping to the hilly areas of Pali Hill. This reservoir is being used on fill and draw basis like the one at Worli and Golanji Hill.

600 mm. (24") Danda outlet was used from 13th May 1971 by partially opening it for about 3 hours to boost pressure in Danda areas of 'H' Ward.

Trombay Hill Reservoir.—This reservoir is being utilised occasionally during system breaks down. 900 mm. (36")>600 mm. (24") Panjrapole outlet was commissioned from 27th September 1971, partially for supplying for municipal slaughter house at Deonar. An orifice plate on 1200 mm. (48") inlet mains to this reservoir was already fixed in February 1970 for measuring the input.

Fire Attendance.—The quantity of water used to put out the fire was about 1.24 Ml and 0.016 M. (0.27 mg. and 0.035 mg.) respectively.

Notices and Court Cases.—611 and 640 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 48 and Nil cases respectively. The amount of fine recovered was Rs. 210 and Rs. Nil for Suburbs and Extended Suburbs respectively.

Quantity of Water Supply.—Statistics as regards quantity of water supplied to the areas in the Suburbs and Extended Suburbs during the year are shown in Appendix IX and X.

Stand Pipes.—Metered stand pipes were given for a group of not less than 20 persons on receipt of their applications. During the year 253 and 99 new stand pipes were given and 7 and 8 were cut off, bringing the total number of stand pipes at the end of the year to 2276 and 546 in Suburbs and Extended Suburbs respectively. The details are given in Appendix XXII.

Short Supply Complaints.—The number of short supply complaints received for various reasons and attended to during the year from the areas in the Suburbs and Extended Suburbs was 11981 and 2816 respectively, as detailed in Appendix XIX-A.

1 Notice for Suburbs and 19 for Extended Suburbs under Section 271 (2) and 36 Notices for Suburbs and 4 Notices 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 was about 1.24 and 0.016 M. L. (0.27 M. G. and 0.035 M. G. respectively).

Notices and Court Cases.—611 and 640 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 48 and 'Nil' cases respectively. The amount of fine recovered was Rs. 210 and 'Nil' for Suburbs and Extended Suburbs respectively.

Disconnection Order.—Disconnection orders were issued in the Suburbs and Extended Suburbs 472 and 149 respectively.

32,200 and 12,183 meters of sizes varying from 15 mm. ($\frac{1}{2}$ " 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 4490 and 2743. These fixed on new connections were 1756 and 561, those removed from existing connections were 420 and 'Nil' and number of new properties metered were 14 and 106 for the Suburbs and Extended Suburbs respectively.

VI.—MAINTENANCE DIVISION

(i) Maintenance Division (City).

The Maintenance Division at 566 N. M. Joshi Marg, Byculla, continued attending to major works of repairs and bursts on big sized mains, maintenance of testing house, meter-workshop, pumping and chlorination at reservoirs and other places in the City etc. This Division continued attending emergent works connected with repairs to pipes even after office hours and on Sundays and Holidays.

Major Maintenance Works.—The total length of 953.39 Kms. (592.39 miles) of water mains of sizes 80 mm. (3^{rd}) and above, was maintained during the year. There was one burst and 28 leakages on large sized mains during the year. The details of burst on the 1200 mm. (48^{th}) diam. main 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 Reservoirs.—(i) **Malabar Hill Reservoir.**—The existing six pumps *viz.* three nos 100 H.P., two Nos. 75 H.P. and one No. 40 H.P. were maintained in the existing pump houses. In addition to this, eight new pumps each of 100 H.P. were installed in a new pump house. The total capacity of the pump house has now become 1,290 H.P.

(ii) **Bhandarwada Hill Reservoir.**—The existing two pumps, *viz.* one of 275 H.P. and one of 300 H.P. were maintained. The total capacity of the pump-house remained at 575 H.P.

(iii) **Golanji Hill Reservoir.**—The existing three pumps *viz.*, two numbers of 100 H.P. and one No. of 80 H.P. were maintained, and the total capacity of the pumps-house remained at 280 H.P.

The aggregate capacity of pumping units at the reservoirs in the City was 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. Five boosting stations as shown in Appendix XV. (at Serial Nos. 1 to 5).

Chlorination Plants.—Rechlorination was done at various places in the City for maintaining required residual chlorine in the water mains. Auxiliary chlorination stations at (a) Futka Tank, King's Circle, (b) 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 1,756 cylinders with chlorine of 117.6 M.Tons approximately.

Testing of Water Mains.—The total number of pipes and fittings tested during the year was approximately 4,57,062 out of which 2,55,439 pieces were for private parties and the remaining for the Municipal works realising a revenue of Rs. 70,045. The corresponding figures during the previous year were 4,95,594 pieces and Rs. 71,680.

Meter Shop.—The total number of meters maintained was 23,487. The total number of Municipal meters repaired during the year was 9,799. The total number of meters tested was 25,022 out of which 20,952 were Municipal meters.

New Meters.—The total number of new meters purchased during the year was 2,536.

Boosting Pumps for hire to public.—In order to give interim 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 short duration. Two Nos. of plastic tanks, each of 49,987 liters (11,000 gallons) capacity were also offered on hire to public.

Improving the water supply in Municipal Buildings Inside City.—49 New connections were made during the year. 450 odd jobs such as cleaning of water connections, arresting wastage rewashing of taps and replacement of old pipes etc., were carried out.

Maintenance Water Works Buildings.—The routine maintenance works such as, 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 3272 as shown in Appendix XVI, as against 3483 in the previous year. The grant total of water connections existing in different premises in the City came to 1,03,772 as against 1,00,500 in the previous year. Similarly water connections out off during the year were 70 as against 343, during the previous year.

(ii) Maintenance Division (Suburbs & Extended Suburbs.)

The Maintenance Division at L. B. S. Marg at Ghatkopar continued to execute and attend major works of repairs and bursts on big on big sized mains ranging from 300 mm. to 1200 mm. (12" to 48" diam.), maintenance of a testing house, meter workshop, reservoirs and pumping stations in Suburbs and Extended Suburbs. This division continued to attend emergent works connected to repairs to pipes, sluice valves, boosting stations and miscellaneous works connected to water works, even after office hours and also on Sundays and Holidays.

Maintenance of water mains.—702.71 Km. (438.15 miles) and 309.65 Km. (192.38 miles) of water mains of sizes varying from 50 mm. (2") to 900 mm. (36") in Suburbs and Extended Suburbs respectively were maintained. 29 No. of bursts on mains from 150 mm. (6") to 750 mm. (30") were attended to. The details of bursts on mains 600, mm (24") and above in diameter is shown in Appendix No. XIV.

Maintenance of Pumping Stations.—26 Small boosting stations and 3 bulk pumping stations, as detailed in Appendix No. XV-A and XV-B were maintained and Vehar Pumping Station having an installed capacity of 2755 H.P. was operated for 8474 hours during the year.

Testing of Water Pipes and Fittings.—The work of testing small galvanised iron pipes (27,484 Nos) and Brass fittings (116866 Nos. was carried out at Ghatkopar. The revenue from testing of Pipes and Fittings submitted by private parties amounted to Rs. 32,468, and the work of testing small galvanised iron pipes (39,315 Nos.) and fittings (1,98, 845 Nos.) was carried out at Bandra and the revenue derived was Rs. 52,298.

Repairs to Water Meters.—There is a Meter Workshop at Ghatkopar and Bandra where meters were tested, cleaned, overhauled and repaired. In all 6706 Nos. and 4530 Nos. of meters were repaired at Ghatkopar and Bandra respectively. Revenue derived from testing and sealing of meters was Rs. 49,833 and Rs. 32,454 respectively.

Water connections.—The particulars of connections made during the year are given in Appendix XVI. The total number of new connections granted was 2,145 in the Suburbs and 697 in the Extended Suburbs. The total number of connections at the end of the year was 35, 258 in the Suburbs and 12,474 in the Extended Suburbs.

Testing of water fittings.—With the exception of 2 free stand-pipes, Municipal properties, benevolent and charitable institutions, was supplied to all the properties in the Suburbs and Extended Suburbs through metered connections.

Plant and Machinery.—Details of plant and machinery maintained during the year is shown in Appendix XIII.

VII—CONSTRUCTION DIVISIONS

The Works Divisions in City, Suburbs and Extended Suburbs carried out the works of laying of water mains and other construction works as per the provisions in the Loan Works Budget. They also carried out departmentally the works of diverting of 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") diam. and above in size.

(i) **Works Division (Inside City).**—The total strength of the staff was 706. The cost of the budgetted works executed was about Rs. 15,57,791 and the unbudgetted works was about Rs. 15,81,039.

Details of plant and machinery and Tools with this division is shown in Appendix XIII.

Total length of the pipes of various sizes laid is shown in Appendix XXI.

Stray current corrosion survey.—Stray current corrosion survey of trunk mains in City was undertaken during the current year and the work was awarded to a contractor. Test points at various places have been fixed and the effect of stray current is being observed. The cost of survey including establishing test points is about Rs. 1,00,000.

(ii) **Construction Divisions in Suburbs and Extended Suburbs.**—Construction Divisions in Suburbs and Extended Suburbs are divided into three zonal units viz. Zone-I, comprising L. M. N. and T. Wards, Zone-II of H and K Wards and Zone -III of P and R Wards. During the year, the cost of budgetted works carried out for Suburban Wards was Rs. 33,94,011 and Rs. 17,92,034 for the Wards of Extended Suburbs. The cost of unbudgetted works was Rs. 2,92,988 for Suburbs and Rs. 1,37,410 for the Extended Suburbs.

Details of Plants and Machinery maintained by three divisions is given in Appendix XIII and the length of pipes laid in Appendix XXI.

VIII—CORE UNITS

On 15th May 1969 various basic units of the department were grouped together with a common headquarters at the new Ward office Building at Babula Tank in order to facilitate the coordination 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) Investigation and Monitoring
- (3) Quality Control and Waste Prevention
- (4) Industries
- (5) Productivity.
- (6) Security Division.

Activities of various divisions are given in what follows. Although the sub-divisions maintained their individual identity after the merger many grouped activities were also possible, notable amongst these being the commencement of the comprehensive leakage control programme and the distribution studies undertaken through the firm of Tata Consulting Engineers.

(1) **PLANNING DIVISION.**—(a) The main activity of this division continued to be zoning in conformity with the revised working plan for the Augmentation stage with the completion of Upper Vaitarna Augmentation Works. The population forecast was made again on a realistic basis in the light of 1971 Census figures. Detailed reports on proposed zones were prepared for 13 more zones, bringing the total to 55. Out of the total number of 74 zones covered under the Plan. The total number of zones increased to 74 against 68 mentioned in the last report and some zones were re-adjusted. The zones analysed were tested for the 1981 stage of development. Most of the planning work was done with the help of C. D. C. 3600 electronic computer at the Tata Institute of Fundamental Research at Colaba, the total computer time used during the year being 2 hours 57 minutes and 48 seconds.

(b) In addition the Planning Division was also associated with Messrs. Binnie and Partners, Consultants to the Municipal Corporation.

(c) The Planning Division attended to various local problems of distribution of water supply in various wards and also scrutinized the distribution networks in private and public layouts.

(2) **INVESTIGATION AND MONITORING DIVISION.**—This division was amalgamated into the Leakage Detection Division which was formed from 4th August 1971 for effective functioning.

(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 pito meters.

Routine sounding of mains and allied activities.—In Greater Bombay Area the total length of mains covered under the sounding programme excluding special sounding done for various investigations to study leakage losses was 2,144 Km. (1,332 miles). The total number of defects detected by the sounding gangs was 6,087 of which 1,623 were aboveground. The number of taps rewashed was 53,504. The number of hydrants flushed was 51,931.

Pito meter works.—Twelve pito meter units were in the field from April 1971 to March 1972. The staff worked for 4,164 unit days during the year as compared to 3,650 unit days last year. The total number of points gauged was 340 which were made up of the following :—

(1) Gauging the quantity of water conveyed by the trunk and distributory mains for finding out the average daily break-up of the total supply in the different zones of Greater Bombay and for the purpose of day to day control	...	83
(2) Gauging in connection with leakage evaluation and consumption studies	...	80
(3) Periodical checking of the pipe flows at various points of the distribution system	...	37
(4) Gap settling cases of big size private party connections for the billing purposes, in 'A to T' Wards.	...	99
(5) Venturi Calibration of 96" Vaitarna main at Powai	...	19
(6) For finding 'C' value of the distributory mains and reservoir outlets	...	16
(7) Water hammer tests in trunk mains in the Outside City Division	...	3
(8) Finding head loss across the sluice valves on trunk mains at Mulund Anchor Block	...	3

Sampling.—In each of the Wards of the City & Suburbs there were as in the preceeding year two groups of sampling points from which water was sampled at regular intervals for the purpose of bacteriological and chemical examinations.

Bacteriological Standards of waetr supplies.—The sampling points being on service mains were expected to be representative of the quality of water supply obtainable in different parts of the the City, Suburbs & Extended Suburbs. Samples of water were collected by the mobile squads of trained personnel of the municipal analyst's staff. The sampling was done daily but not on Sundays.

As against the previous year's figures 77.44 percent samples free from coliform bacteria, the year's figure was 91.50. The total number of routine samples collected for bacteriological examination was 5,290 compared to 5,106 last year. This was exclusive of 5,632 special samples collected from the areas where reports of contaminated water had been received. 4,680 samples were also collected this year from the service reservoirs of Malbar Hill, Bhandarwada Worli Golanji and Pali, as compared to 4,658 samples collected last year. 96.52 percent of these samples were free from coliform organism compared to 81.95 percent during the previous year.

Chemical analysis.—The total number of samples of water collected for chemical analysis during the year both from the lakes and the distribution systems was 335.

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 underground 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.**—Industries division deals with granting of water quotas to various industries in City, Suburbs and Extended Suburbs. Industries drawing water over 1.5 lakhs litres per month were brought under quota scheme. During the year 36 new industries were brought under quota scheme. Quota of 8 industries was revised. 11 Industries were granted additional connections to enable them to draw their full quota.

Industries drawing water in excess upto 10% of their sanctioned quota were not penalised with effect from 1st April 1970. Penalty rates for excess consumption were 2, 4 and 5 times for first, second and subsequent occurrence, respectively. The same were revised to 100% and 200% for first time subsequent occurrences respectively.

The Industrialists who have more units spread over in the same ward were allowed to pull their quotas if they request for amalgamation of quotas of their units. This has an advantage, as it saves them from penalty charges for drawing excess water from one of the Units and by counter balancing the total limit of quota by using less water in another unit.

(5) Productivity Division—Implementation of the report on utilization of maintenance in 'D' Ward.—The Productivity Unit monitored the implementation of the recommendations made in the report. The implementation of the salient suggestion of replacing the municipal water meters periodically was started in July 1971. About 360 meters were exchanged every month since then. At the end of the year the unit was assessing the effects of periodical replacements on the generation of Meter -out-of-order reports. The decision of whether this system should be accepted as a normal method of preventive maintenance of meters depends on the results of the assessment.

Introduction of modified billing frequencies.—The suggested billing frequencies were introduced in 'D' Ward from 1st April 1971. The change brought about a reduction of billing workload.

The new billing frequencies are being introduced in all the City wards from 1st April 1972. The unit attended to all the preparatory works such as explaining the staff concerned about the new frequencies, levelling the billing workload by staggering the billing periods etc.

The meter hire charges are being included in the regular water charges bills in arrears from 1st April 1972. The unit developed a new billing form to facilitate inclusion of meter hire and also suggested a system of using the existing billing forms till their stocks last.

Sub Committee on Meter Assemblies.—A sub-committee of officers of the department was formulated to study the water meters, meter assemblies and allied problems. The unit did the spade work for the committee by conducting the experiments on losses through elements of meter assemblies and their combinations, critical analysis of the meter chamber design etc. The Committee's recommendations are being considered.

Preparation of Manual of Water Works Section in Wards.—This work was continued throughout the year.

(6) Security Division.—(1) Aboveground static tanks.—In all there are 31 aboveground static tanks. Out of these, 4 tanks were in good condition and the remaining 27 tanks were leaking. One tank at Manmala Tank Road was repaired departmentally with the help of specialised contractor in the line of waterproofing. The work of rendering water proof another tank at playground behind Sion Bus Depot was also entrusted to the same contractor. In the meantime, sealed quotations were invited for 25 tanks 14 tanks in F & G Wards and 7 tanks in A to E Wards were rendered waterproof through another contractor and the remaining four tanks in A to E Wards through the first contractor. Portion of the roof slabs over the tanks were broken, and the same were also got repaired through contractors entrusted with the work of constructing approach roads to the static tanks. The tanks thus repaired have been kept filled with water.

(2) Underground Static Tanks.—This department had taken over the charge of 36 underground static tanks constructed by the Government of Maharashtra. Out of these it was observed that seventeen tanks were leaking profusely. Recently the B. & C Department of Government of Maharashtra has rendered four of them waterproof and the work on remaining tanks is still to be carried out. Joint testing of tanks was arranged between the Government and Municipal Engineers for retesting the leaky tanks to their current position with regard to the water -tighten.

(3) Approach Roads to Static Tanks.—In all there were 43 aboveground static tanks on municipal plots on which approach roads were provided. The work of approach roads are for 1 A to E Wards and the other for F and G Wards was entrusted to two contractors. They completed the works entrusted to them.

(4) Wells.—The wardwise lists of wells were completed and copies of the lists were sent to all wards, Secretary to the Government, Chief Fire Brigade Officer and the Director of Civil Defence.

Emergency opening of wells.—In each Ward about 20 wells were selected. The wells in the City were treated with bleaching powder. Some of the wells in Suburbs were also treated similarly.

Notices were also displayed at all the wells disinfected advising the public that the well water should be used only after boiling. As directed by Government of Maharashtra further disinfection of the wells was discontinued and the hermetically sealed wells which were opened during the emergency were closed against after providing manhole covers.

With the help of a well -cleaning unit with this division, fourteen wells in the City and two wells in the Suburb (P Ward) were dewatered and cleaned during the emergency.

19 Municipal Hand-pumps were fixed in B, C, E, F/N and F/S Wards in the City in order to facilitate the drawing of water from the wells. The same were removed except the one fixed at the District Jail, Byculla which was temporarily allowed to be retained as per the request of the Jailor.

(5) **Plants and Machinery.**—The Plant and Machinery actually purchased by this division were as under :—

	Rs.
(i) Purchase of Air Compressor ...	43,102
(ii) Purchase of dewatering pumps for emergency works (3" × 3" size) 4 Nos. of Kirloskar type AVI Engines coupled to Kirloskar type ...	18,232
(iii) Purchase of gas welding & cutting sets 2 Nos. ...	1,279
(iv) Purchase of 2½ hose pipe ...	4,012
(v) Purchase of tyres ...	3,032

The total cost of materials such as sand, rubble, aggregate, bricks etc. purchase is Rs. 1,87,481.

In addition, 4 fire vans and two station wagons have been purchased through Transport Department at a total cost of Rs. 23,04,601.

(6) **Wireless.**—During the emergency 3 wireless sets were borrowed from B. E. S. T. Undertaking and tested at Vaitarna and Tansa.

(7) **Special Advances.**—The special advances of Rs. 45,000 were sanctioned by Municipal Commissioner for Emergency works during the Emergency. A small amount was spent from these advances by different officers. The balance amount after a small amount spent by different Ward Officers was returned.

(8) **Reserving Fire Storage in Multi storied Buildings.**—One compartment of the underground suction tank constructed for every tall building is meant exclusively for firefighting purposes. Hence the manual covers over such compartment of the suction tank and the valves on suction pipe from the compartment to the pumps were sealed so as to reserve the storage. Notices in this regards were served on the owners of the such tall buildings before sealing.

(9) **Hiring of Tankers.**—In order to meet any eventuality during Emergency, it was decided to get the tankers on hire for supplying water in the affected areas. Accordingly enquiries were made from Messrs. Burmahshell who expressed their inability to supply tankers on hire basis. Subsequently, contractor supplying tankers on hire-basis were contacted and it was decided to hire four tankers from one of such contractors. However, as the situation eased the tankers were not hired as previously contemplated.

(10) **Plastic tanks.**—In view of the vital role the hospitals had to play during war, it was decided to purchase one plastic tank of 10,000 gallons capacity each for K. E. M. Sion and Nir Hospitals. Two tanks one each at K. E. M. and Sion Hospitals were provided at a total cost of Rs. 12,960. These tanks can serve as additional storage of water for emergency purposes. The third tank could not be purchased as there was no suitable place at Nair Hospital to accommodate the tank. The above two tanks were later removed and stored by A. E. M. (City) Water Works.

(11) **Warning Boards.**—In the meeting held on 23rd December 1971 in the Sachivayala, Secretary-II Home Department, stated that all the Security Guards should be withdrawn from the sites, of the above ground static tanks and instead Warning Boards should be provided at all the sites of the aboveground static tanks warning the public. Accordingly the Security Guards were withdrawn with effect from 1st January 1972 and the Warning Boards have been provided at all the 31 sites of the aboveground static tanks.

IX.—LEAK DETECTION DIVISION.

This Division has mainly worked on the problem of leakage detection. The following zones were taken up during the year 1971-72.

(1) **Siri Road Zone.**—At Siri Road Zone where the average supply is Rs. 1.64 ml. (0.36 m.g.). The initial loss was 1,46,061 litres (36,042 gallons) and after repairs the same was brought down to 24,488 litres (5,382 gallons). The cost of water saved per year is Rs. 13,153 against the total cost of Rs. 30,000 for the work. The leakage was brought down from 10% to 1.5%.

(2) **Dockyard Road Zone.**—The corresponding figures for Dockyard Road Zone are :—

Average supply is 40,01,370 litres (9,00,000 galls.).

The initial loss was 5,45,520 litres (120,003 galls.) After repairs the loss was brought down to 1,15,200 litres (25,343 gallons).

The cost of water saved per year is Rs. 58910.

The total cost of work carried out in zone Rs. 46,780.

The leakage was brought down from 13.4% to 2.8%.

(3) **Carmichael Road Zone.**—The average total supply per day was 21,63,741 litres (4,74,150 gallons). The initial loss was 2,96,946 litres (65,400 gallons), and loss after repair was 57,988 litres (12,768 gallons). The total cost of the work of Carmichael Road Zone was Rs. 21,078 and the value of the water saved per year was Rs. 26,168. The leakage was brought down from 13.80% to 2.69%.

(4) **Mouut Road Zone.**—The work is in progress at the end of March 1972.

(5) **Mandvi Zone.**—The work is in progress at the end of March 1972.

(6) **Globe Mill Passage Zone.**—The average supply of the zone is 13.62 m. l. d. (3 m. g. d.). The initial loss was 12,00,000 litres (2,66,670 gallons). After repairs the leak was brought down to 3,00,000 litres (66,667 gallons). The cost of water saved per year is Rs. 1,68,480/-. The total cost of work carried out in zone is Rs. 22,000/-. The leakage was brought down from 8.9% to 2.2%.

(7) **Pedder Road Zone.**—The work is in progress at the end of March 1972.

(8) **Mulund Agra Road Zone.**—The average supply is 3.8 m. l. d. (8,33,400 gallons) per day. Initial loss was 1,96,200 litres per day (1,92,400 gallons) per day. After the repairs the same was brought down to 6,66,158 litres per day (44,020 gallons per day). The cost of water saved per year is Rs. 90,720/-. The total cost of the works carried out of the zone is Rs. 14,488/-. The leakage was brought down from 23% to 5.4%. Further during the last year about 22 new mains even varying in diameter from 150 m.m. (6") to 300 m.m. (12") and a total length being 9,470 metres (28,697 ft.) were tested. The result varied from nil to 7,470 litres/cm/km/day-(15,200 gallons /inch/diameter/mile/day) in the first test.

1. The length of the main test at Siri Road was 2091 Mts. (6,850 Rft.).
2. The length of the mains tested at Carmichael Road Zone 2,595 R. Mts. (8,500 R. feet).
3. The length of the mains tested at Doc yard Road Zone was 23,850 Rft. (7227.27 Mts.)
4. The length of the mains tested at Globe Mill Passage Zone was 9100 ft. 0 inch. (2757.57 Mts.).
5. The length of the water mains tested at Mulund Agra Road zone was 25,740 Rft. (7800 Mts.)

X.—SURVEY AND DESIGN DIVISION

This division is entrusted with the work of maintaining records of water and other structures. Preparing plans and estimates of all engineering works to be carried out, maintaining statistics of (i) lake levels, (ii) storages (iii) discharges, (iv) rainfalls, (v) chemical and bacteriological etc. maintaining records of water work-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.

Preparation of Plans and estimates—Several proposals for laying water mains, for improvement and expansion of the distribution system were formulated during the year. Plans and estimates below were prepared.

Budget	No. of plans	No. of estimates.	Estimated cost in Rs.
(City) Division-I	155	212	1,15,95,203
(Suburbs) Division II	100	153	1,41,45,199
(Extended Subs) Division III	67	76	54,71,658
Total	322	441	3,12,12,060

Compounded charges for water used for construction purposes.—1,388 estimates of compounded, charges for water used for construction purposes in the City were framed as against 941 in the corresponding year. The total estimated amount was Rs. 15,51,756/- as against Rs. 11,05,961/- in the preceding year. On similar lines 4,079 estimates for the Suburban and Extended Suburban Areas against 2,889 in the preceding year were framed amounting to Rs. 21,52,309/- as against Rs. 15,19,646 in the preceding year.

XI.—METERING.

17,972; 32,200 and 12,183 meters of sizes varying from 15 m.m. (1/2") to 300 m.m. (12") in City, Suburbs and Extended Suburbs respectively, were on the connections as detailed in Appendix XX. The number of meters exchanged was 12,660; ; 4,490 and 2743, those fixed on new connections were 1,071; 1,756 and 561 and meters removed from the existing connections were 598, 420 and nil for City, Suburbs and Extended Suburbs respectively.

Progressive metering programme.—The number of new properties metered during the year 157, 14 and 106 for City, Suburbs and Extended Suburbs respectively. Premises metered during the year pertain to trades and new residential buildings on flat systems.

Revenue from metered connections.—The total revenue derived from water supply by meter measurement was Rs. 4,94,75,893, Rs. 2,79,01,319 and Rs. 80,94,349 in City, Suburbs and Extended Suburbs respectively.

XII.—ESTABLISHMENT.

The total number of scheduled superior staff during the year was 388 under Division-I (Budget 'A') and the establishment cost thereof amounted to Rs. 27,18,432. The labour staff during the year numbered about 2,397 and its establishment cost was Rs. 59,38,593. The temporary staff both superior and inferior was 913 with establishment cost of Rs. 9,43,975.

Under Division II and III the total number of Scheduled superior staff during the year was 180 and 73 and the establishment cost thereof amounting to Rs. 10,26,420 and Rs. 4,55,530. The labour staff during the year numbered about 415 and 159 and its establishment cost was Rs. 10,67,670 and Rs. 4,55,530. The temporary staff both superior and inferior was 215 and 65 respectively with a total establishment cost of Rs. 6,35,512 and Rs. 1,94,493.

K. D. MULEKAR
Hydraulic Engineer.

XIII—LIST OF APPENDICES

Serial No.	Description
	I.—Statistics of Lakes.
	II.—Statement showing evaporation losses of different lakes.
	III.—Map showing lakes and trunk mains providing water supply to Greater Bombay.
	IV.—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.—Statement of water connections of different sizes made during the year.
	XVII.—Plan showing zones of water supply.
	XVIII.—Statement showing hours of supply in different localities in the City Suburbs and Extended Suburbs.
	XIX.—Statement showing short supply complaints in City.
	XIX-A.—Statement showing short supply complaints in Suburbs and Extended Suburbs.
	XX.—Statement showing details of meters in City, Suburbs and Extended Suburbs.
	XXI.—Details of works carried out by construction branch in City, Suburbs and Extended Suburbs.
	XXII.—Details of stand pipes in City, Suburbs and Extended Suburbs.
	XXIII.—Organisation chart of H. E.'s Department (as on 31-3-1972).

APPENDIX I
Statistics of the Lakes for 1971-72

Serial No.	Particulars	Vaiterna	Tansa	Vihar	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	Waterspread 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) ...	2,655.30 (104.52)	2,834.70 (111.59)	2,828.46 (111.33)	3,337.01 (131.37)	2,999.40 (118.07)
5	Average rainfall of the preceding five years in Millimetres (Inches).	2,578.83 (101.52)	2,624.10 (103.30)	2,290.01 (90.15)	2,875.17 (113.19)	2,317.62 (91.24)
6	Fluctuation in rainfall as compared with preceding 5 years in Millimetres (Inches).	-270 (10.62)	-265 (10.40)	-674 (26.52)	-640 (25.17)	-907 (35.71)
7	No. of rainy days, [rainfall of 2.5 mm. (0.10") and above]...	30	9	86	72	59
8	(a) Number of days in which rainfall was moderate [between 7.6 mm (0.3") and 34.9 mm (1.38")].	46	26	37	41	21
	(b) Number of days in which rainfall was heavy [between 35.0 mm (1.38") to 64.9 mm. (2.5")].	12	14	10	3	8
	(c) Number of days in which rainfall was very heavy [between 65.0 mm. (2.56") and 84.9 mm (3.34")].	3	5	5	4	4
	(d) Number of days in which rain fall was very heavy 85.0 mm. (3.35") and above..	9	7	10	17	11
9	Maximum rainfall in millimetres (Inches) ...	165.08 (6.49)	195.60 (7.69)	223.77 (8.80)	231.14 (9.09)	345.80 (13.61)
10	Dates of maximum rainfall	...30-9-1971	16-7-1971	24-6-1971	24-6-1971	26-4-1971
11	The lakes commenced to overflow when the rainfall amounted to mms. (inches).	... 788.55 (310)	1,980.00 (78.00)	...	1,954.55 (77.00)	1,178.00 (46.00)
12	Dates on which the lakes started overflowing	... 8-7-1971	28-8-1971	...	14-8-1971	24-6-1971
13	Dates on which the lakes stopped overflowing	... 12-10-1971	2-10-1971	...	3-10-1971	13-9-1971
14	Number of days the lakes over flowed	... 96 7,03,474	13 1,3,112	...	30	55
15	Quantity of water that overflowed over the waste weir in Mega Litres (Million gallons)	... (54,747) MG	(24,881.67) MG	...	6,117.24 (1,411.64)	17,347.37 (3,816.00)
16	Full supply levels of the lake above Town Hall Datum in Metres (Feet).	163.06 (535.00)	128.62 (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)	1,84,838.00 (40,660)	41,823 (9,200)	10,428.00 (2,294)	5,455.00 (1,200)
18	Highest levels above TownHall Datum during the year in Metres (Feet).	... 163.17 (535.36)	128.62 (422.20)	78.29 (256.87)	139.27 (456.94)	60.70 (195.90)
19	Dates on which the highest level was reached	... 30-9-1971	29-9-1971	10-9-1971	2-9-1971	2-8-1971
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).	... 151.83 (498.14)	120.77 (396.57)	72.70 (238.53)	133.10 (436.72)	55.83 (183.19)
22	Dates on which the lowest levels were reached	... 22-6-1971	3-6-1971	30-5-1971	31-5-1971	29-5-1971
23	Contents of the lakes above the lowest outlets at the lowest level reached in Mega Litres (Million Gallons).	97,097.00 (21,359)	62,702.00 (13,793)	6,905.00 (1,519)	3,859.00 (851)	1,077.00 (237)
24	Lake levels above T. H. D. in Metres (Feet) on 1st October 1971.	... 163.14 (535.29)	128.47 (421.52)	78.29 (256.53)	139.23 (456.80)	59.46 (195.11)
25	Contents of the lakes above the lowest outlet in Mega Litres (Million Gallons) on 1st October 1971.	1,80,293.00 (39,660)	1,82,020.00 (40,040)	28,717.00 (6,317)	10,428.00 (2,294)	5,455.00 (1,200)
26	Quantity of water required to fill up the lakes, to full supply leve from the lowest level reached in Mega Litres (Million Gallons).	33,195.00 (18,301)	1,22,136.00 (26,867)	34,917.00 (7,681)	6,560.00 (1,443)	4,378.00 (963)
27	Percentage run off into the lakes from the catchment as per rainfall registered at the lakes.	78.0	69.50	80.25	83.00	...
28	Quantity of water brought into the City and Suburbs including Extended Suburbs during the year in Mega Litres (Million Gallons).	2,15,901 (47,493)	1,27,941 (28,144)	12,484 (2,746)	6,830 (1,502)	...
29	Average quantity of water brought into the City and Suburbs including Extended Suburbs per day in Mega Litres (Million gallons)	595 (130)	350 (77)	34 (8)	19 (4)	...
30	Total loss of water due to evaporation leakage and absorption in Mega Litres (Million gallons) during the dry-period of 7 months.	19,200 (42.19)	33,217 (7,307)	38.19 (842.90)	2,221 (488)	...
31	Average loss of water per day due to evaporation and other losses during the dry months in Mega Litres (Million Gallons)	90 (19.96)	157 (35)	18.16 (4)	10.5 (2.3)	...
32	Total loss of water due to evaporation only in Mega Litres (Million gallons) for 7 dry months of the year	6,533.48 (1,437.20)	12,415.18 (2,731.04)	3,593.42 (790.48)	760.55 (167.30)	...
33	Average loss of water per day due to evaporation only in mega Litres (Million Gallons) for the 7 dry months of the year	90.67 (6.75)	98.28 (12.82)	16.87 (3.71)	9.57 (0.78)	...

APPENDIX—II

Statement showing Evaporation Losses of different lakes during the year 1971-72

Month	Evaporation in Metres				Evaporation in Mega-Litres			
	Vaitarna	Tansa	Vohar	Tulsi	Vaitarna	Tansa	Vohar	Tulsi
April 1971 ...	0.205 (0.673 ft.)	0.149 (0.490 ft.)	0.166 (0.544 ft.)	0.110 (0.360 ft.)	1441.93 (317.18 M.g.)	2,069.43 (455.55 m.g.)	600.07 (132.02 m.g.)	104.56 (23.00 m.g.)
May 1971 ...	0.192 (0.631 ft.)	0.160 (0.527 ft.)	0.176 (0.579 ft.)	0.124 (0.408 ft.)	1257.18 (276.54 m.g.)	2,057.35 (425.56 m.g.)	584.75 (128.63 m.g.)	109.24 (24.04 m.g.)
June 1971 ...	Not recorded				Not recorded.			
July 1971 ...								
August 1971 ...								
September 1971 ...								
October 1971 ...	Not recorded				Not recorded.			
November 1971 ...								
December 1971 ...								
January 1972 ...								
February 1972 ...	0.090 (0.298 ft.)	0.094 (0.308 ft.)	0.123 (0.402 ft.)	0.084 (0.276 ft.)	555.66 (122.22 m.g.)	1,513.81 (333.00 m.g.)	434.10 (95.49 m.g.)	86.29 (18.97 m.g.)
March 1972 ...	0.162 (0.532 ft.)	0.126 (0.415 ft.)	0.146 (0.479 ft.)	0.105 (0.344 ft.)	1,065.70 (234.42 m.g.)	1,501.99 (418.39 m.g.)	479.24 (105.41 m.g.)	101.56 (22.34 m.g.)
Total—:	0.948 (3.112 ft.)	0.805 (2.646 ft.)	0.892 (3.225 ft.)	0.728 (2.393 ft.)	6,533.48 (1,437.20 M.G.)	12,415.18 (2,731.04 M.G.)	3,593.52 (790.48 M.G.)	760.55 (167.39 M.G.)

Grand Total—23,302.73 Mega Litres (5,126.02 Million Gallons) in dry season (219 days) for all Lakes.

109.40 Mega Litres (24.05 Million Gallons) per day for all Lakes.














30.67 Mega Litres (6.75 Million Gallons) per day for Vaitarna.

58.28 Mega Litres (12.82 Million Gallons) per day for Tansa.

16.87 Mega Litres (3.71 Million Gallons) per day for Vohar.

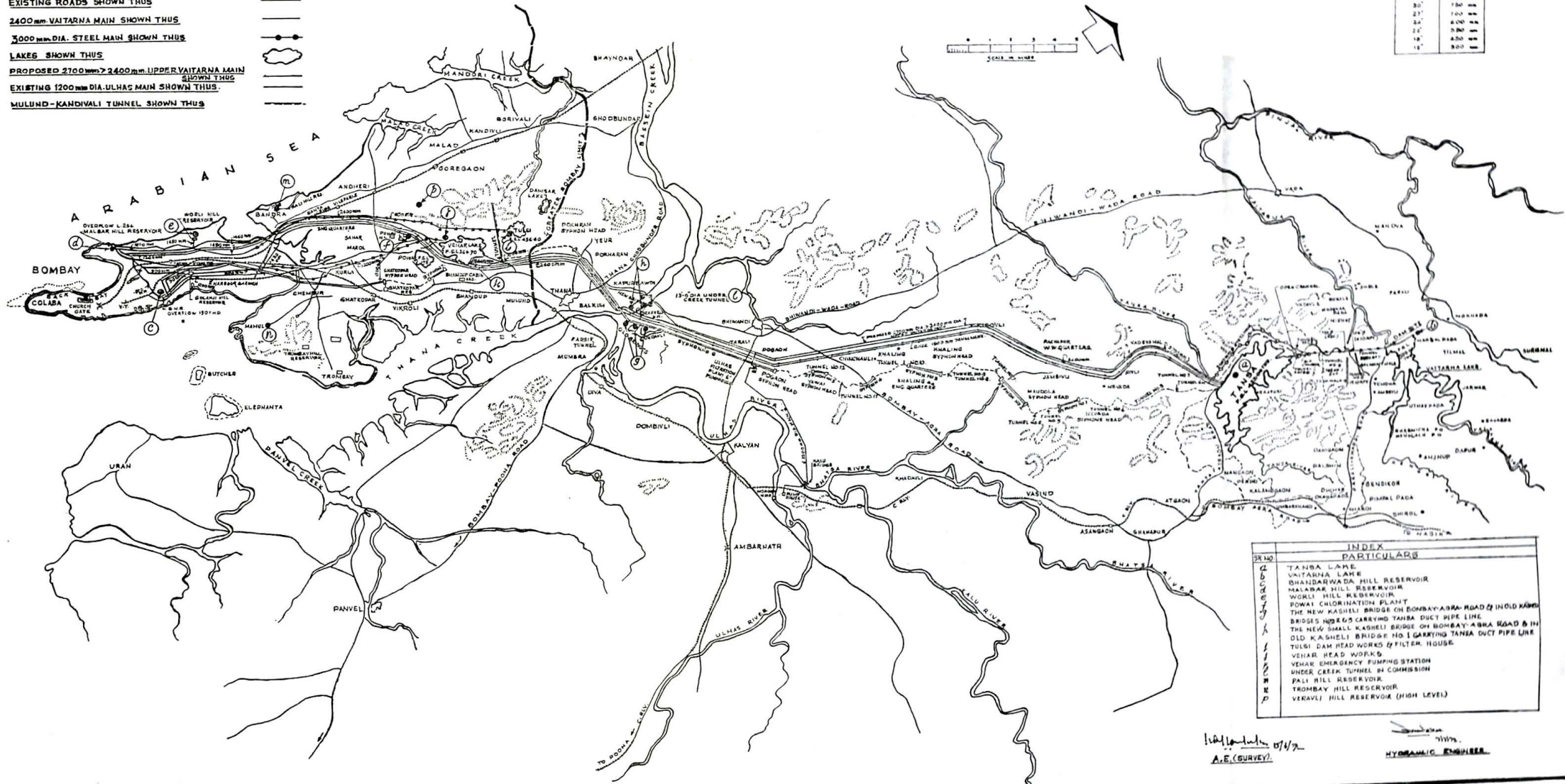
3.57 Mega Litres (0.78 Million Gallons) per day for Tulsi.

NOTES.

- 2-1800mm DIA. TANSIA MAINS SHOWN THUS 
- MASONRY DUCT & SYDNON LINE SHOWN THUS 
- 1200mm DIA. VEHAR MAIN SHOWN THUS 
- 600mm DIA. TULSI MAIN SHOWN THUS 
- HORSE SHOE SECTION (CZ71 & VETRES) TUNNEL SHOWN THUS 
- TANSA-BELNALA ROAD SHOWN THUS 
- EXISTING ROADS SHOWN THUS 
- 2400mm VAITARNA MAIN SHOWN THUS 
- 3000mm DIA. STEEL MAIN SHOWN THUS 
- LAKE 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

IN INCHES	DIAMETERS
120	3050 mm
108	2750 mm
96	2450 mm
72	1850 mm
60	1550 mm
54	1350 mm
48	1200 mm
36	900 mm
32	800 mm
30	750 mm
27	680 mm
24	600 mm
22	550 mm
18	450 mm
15	380 mm

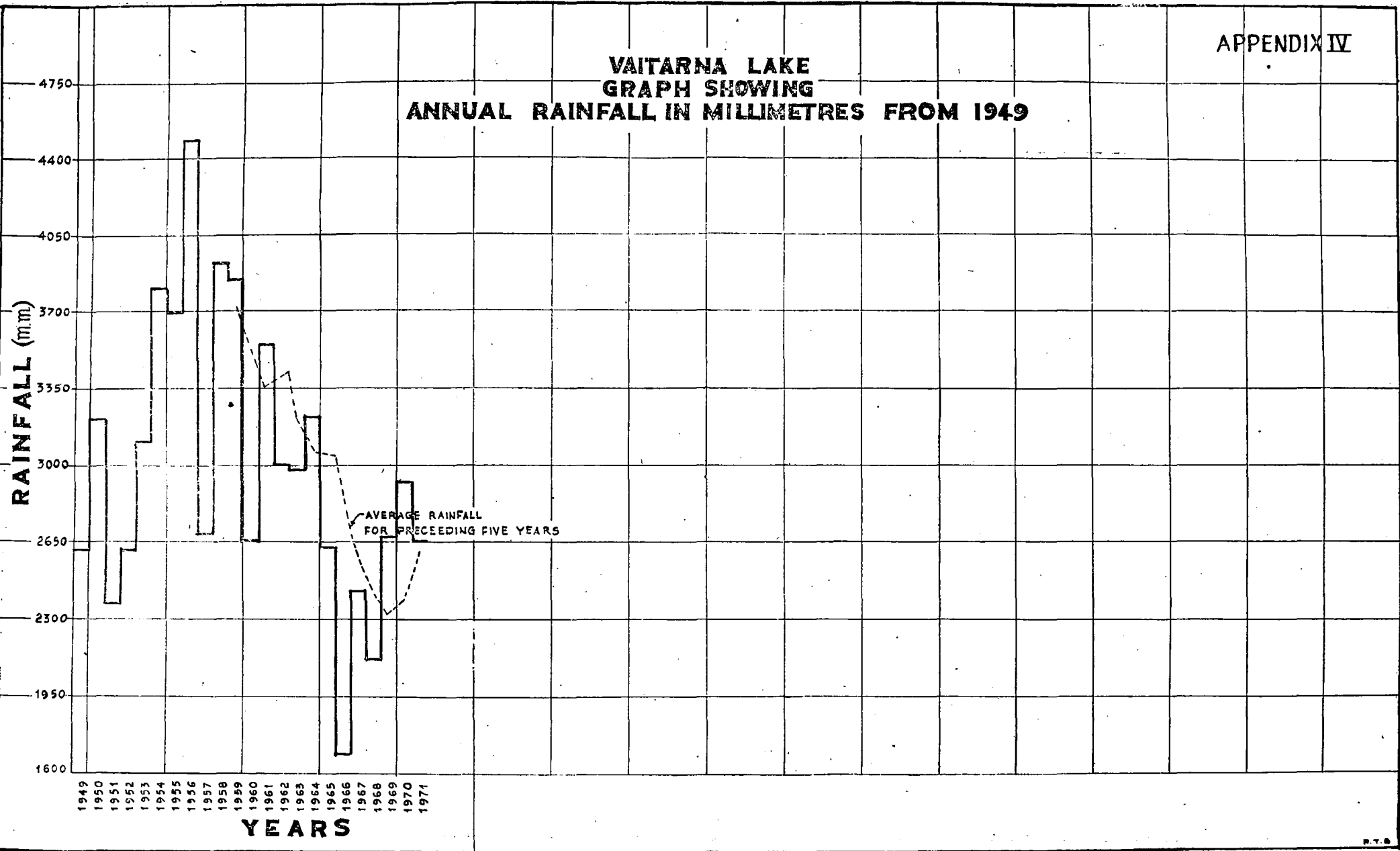


SR NO	PARTICULARS
1	TANSA LAKE
2	VAITARNA LAKE
3	SHANDARWADA HILL RESERVOIR
4	MALABAR HILL RESERVOIR
5	WORLI HILL RESERVOIR
6	POWAI CHLORINATION PLANT
7	THE NEW KASHALI BRIDGE ON BOMBAY-AHRA ROAD & IN OLD KASHALI BRIDGE ON BOMBAY-AHRA ROAD & IN OLD KASHALI BRIDGE ON BOMBAY-AHRA ROAD
8	TULSI DAM HEAD WORKS & FILTER HOUSE
9	VEHAR HEAD WORKS
10	VEHAR EMERGENCY PUMPING STATION
11	UNDER CREEK TUNNEL IN COMMISSION
12	FALLI HILL RESERVOIR
13	TROMBAY HILL RESERVOIR
14	VERAVLI HILL RESERVOIR (HIGH LEVEL)

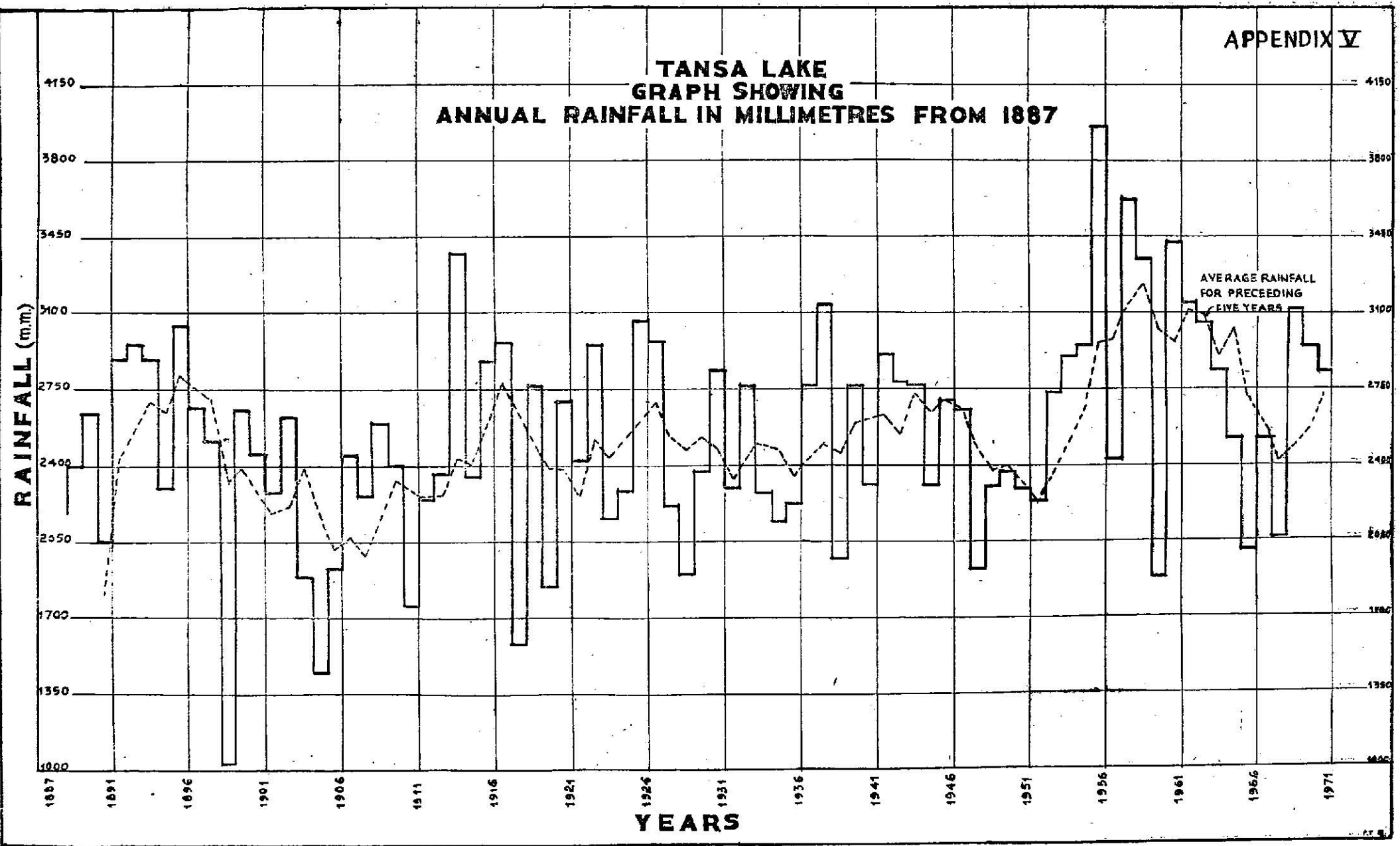
A.E. GURVEY
A.E. GURVEY

H.Y.M.
HYDRAULIC ENGINEER

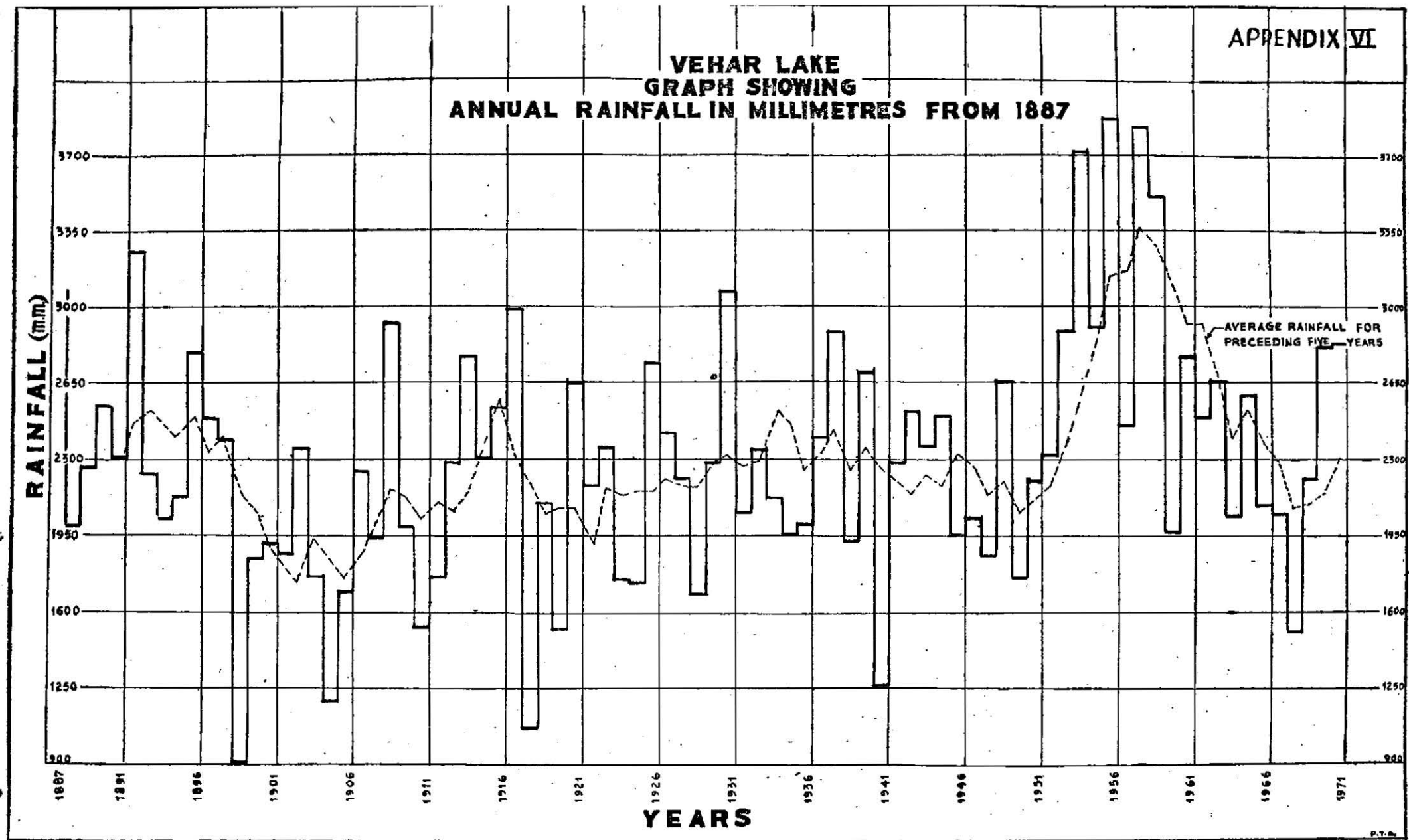
**VAITARNA LAKE
GRAPH SHOWING
ANNUAL RAINFALL IN MILLIMETRES FROM 1949**



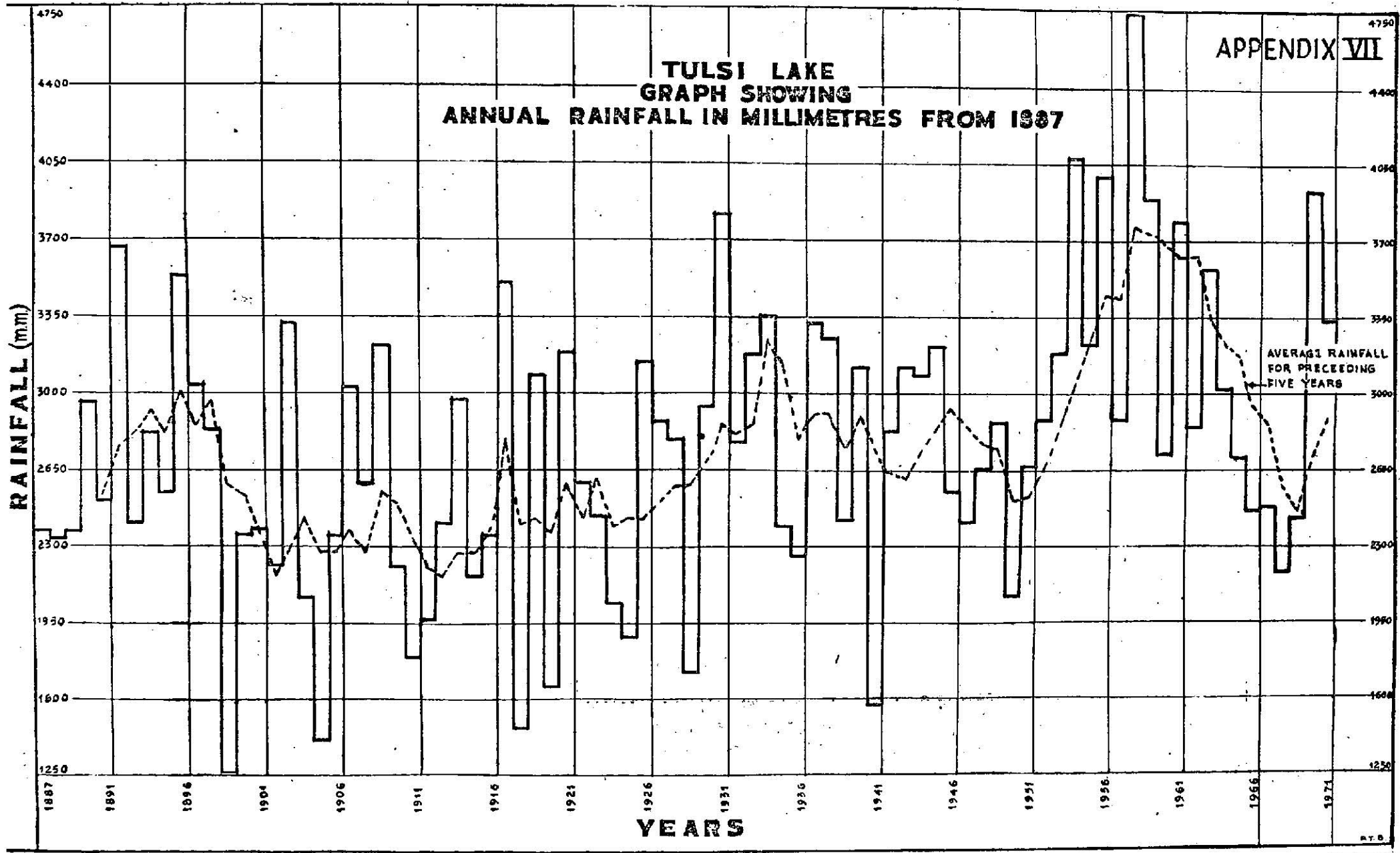
TANSA LAKE GRAPH SHOWING ANNUAL RAINFALL IN MILLIMETRES FROM 1887



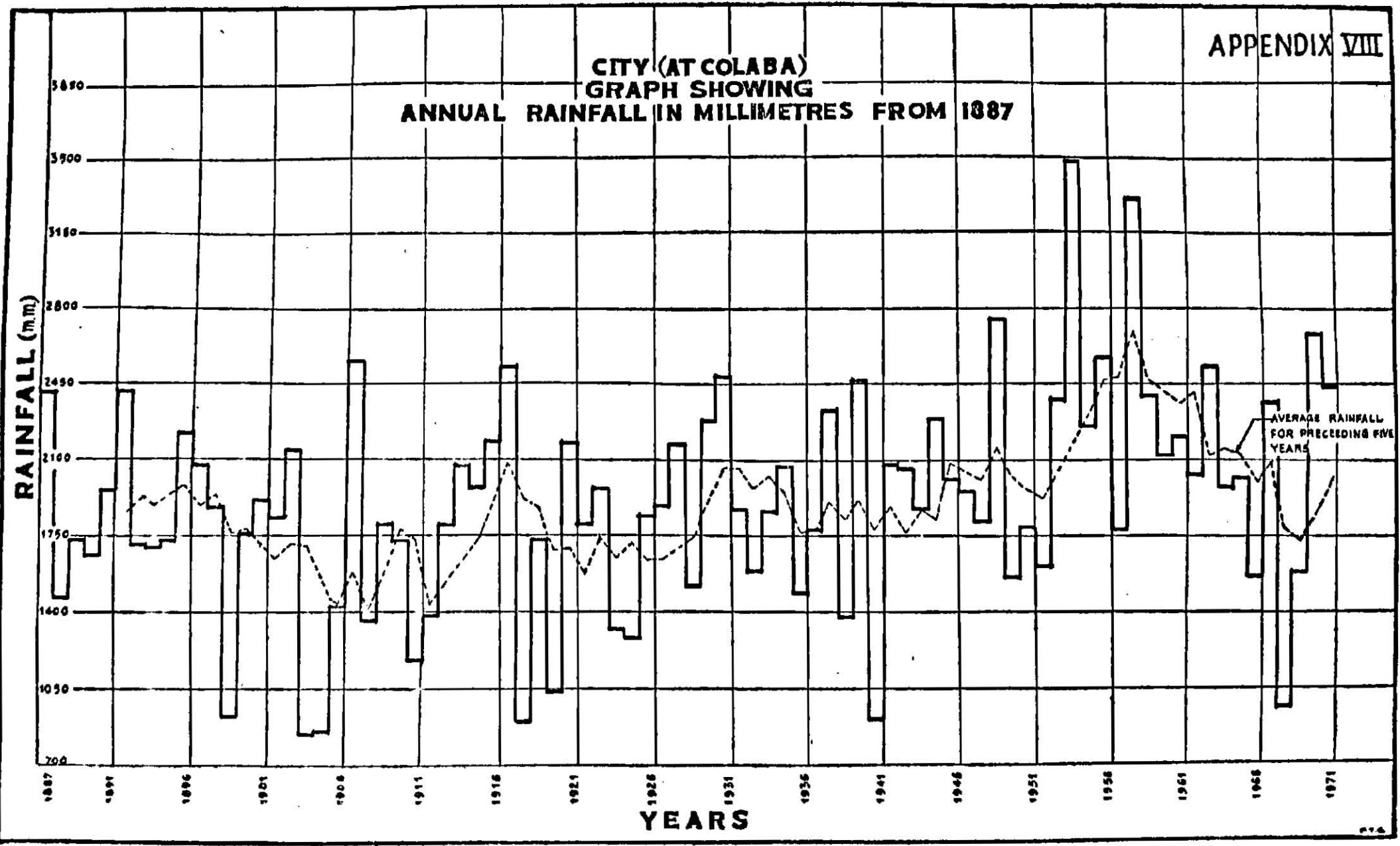
**VEHAR LAKE
GRAPH SHOWING
ANNUAL RAINFALL IN MILLIMETRES FROM 1887**



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 (1971-72)

(1) Quantity of water supplied to the Greater Bombay during the year in Mega Litres	4,25,956.45 (93,700.00 M.G.)
(2) Quantity of water supplied to the City proper during the year in Mega Litres	2,52,588.17 (55,563.00 M.G.)
(3) Quantity of water supplied to the Greater Bombay during the previous year in Mega Litres...	3,52,902.86 (77,630.00 M.G.)
(4) Increase over the previous year's supply in Greater Bombay in Mega Litres	73,053.57 (16,070.00 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	8,629.57 (1,897.68 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	18,170.74 (3,997.68 M.G.)
(7) Average daily supply during the year to City proper in Mega Litres...	690.11 (151.81 M.G.)
(8) Average daily supply during the year to Western Suburbs in Mega Litres	212.79 (46.81 M.G.)
(9) Average daily supply during the year to Eastern Suburbs in Mega Litres	154.37 (33.96 M.G.)
(10) Average daily supply during the year to Extended Suburbs West in Mega Litres	81.46 (17.92 M.G.)
(11) Average daily supply during the year to Extended Suburbs East in Mega Litres	25.00 (5.50 M.G.)
(12) Average daily supply during the year in Greater Bombay in Mega Litres	1,163.73 (256.00 M.G.)
(13) Increase over previous year's average daily supply to Greater Bombay in Mega Litres	196.88 (43.32 M.G.)
(14) Estimated mid year (1971-72) population of City as given by Director of Public Health, Government of Maharashtra	30,73,000
(15) Do. Suburbs Do.	22,12,000
(16) Do. Extended Suburbs Do.	7,48,000
(17) Do. Greater Bombay Do.	60,33,000
(18) The maximum supply per day during the year on 27th November 1971 in Mega Litres	1,072.84 (236.00 M.G.)
(19) The minimum supply per day during the year on 4th April 1971, in Mega Litres	756.89 (166.50 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 18,170.74 M.L. (3,997.12 M.G.) tapped outside Greater Bombay and 62,536.58 M.L. (13,756.52 M.G.) tapped upstream of Powai Venturi at Mulund	4,24,776.01 (93,404.44 M.G.)
(21) Average quantity of water conveyed daily by the two 1800 mm. (72") and diam. 2400 mm. (96") dia. mains in Mega Litres	939.15 (206.69 M.G.)
(22) Total quantity of water transferred from Duct to Vihar in Mega Litres	Nil.
(23) Total quantity of water transferred (by pumping) from Ulhas River to Vihar in Mega Litres	12,975.00 (2,854.00 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") diam. main to Vihar in Mega Litres	Nil.
(26) Total quantity of water transferred from Upper Vaitarna to Vaitarna during the year in Mega Litres.	42,550.00 (9,360.00 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	12,484.10 (2,746.20 M.G.)
(30) Average quantity of water conveyed by 1,200 mm. (48") diam. Vehar main during the year in Mega Litres	34.09 (7.50 M.G.)
(31) Total quantity of water conveyed by 600 mm. (24") diam. Tulsi main during the year in Mega Litres	6,830.30 (1,502.50 M.G.)
(32) Average quantity of water conveyed daily by 600 mm. (24") diam. Tulsi main during the year in Mega Litres	18.63 (4.10 M.G.)
(33) Quantity of water supplied for domestic purposes during the year to City in Mega Litres	1,60,217.12 (35,243.85 M.G.)
(34) Quantity of water supplied for domestic purposes during the year to the Suburbs in Mega Litres	81,619.29 (17,954.25 M.G.)
(35) Quantity of water supplied for domestic purposes during the year to the Extended Suburbs in Mega Litres	24,641.09 (5,420.44 M.G.)
(36) Quantity of water supplied for domestic purposes during the year to Greater Bombay in Mega Litres	2,67,105.89 (58,756.77 M.G.)
(37) Average quantity of water supplied for domestic purposes per head per day to the City in Litres	142.42 (31.33 gallons.)
(38) Average quantity of water supplied for domestic purposes per head per day to Suburbs in Litres	100.73 (22.16 gallons.)
(39) Average quantity of water supplied for domestic purposes per head per day to the Extended Suburbs in Litres...	89.91 (19.78 gallons.)
(40) Average quantity of water supplied for domestic purposes per head per day to Greater Bombay in Litres	120.91 (26.60 gallons)
(41) Average daily supply for all purposes per head per day to the City in Litres	224.56 (49.40 gallons.)
(42) Average daily supply for all purposes per head per day to the Suburbs in Litres	166.51 (36.63 gallons.)
(43) Average daily supply for all purposes per head per day to the Extended Suburbs in Litres	142.19 (31.28 gallons.)
(44) Average daily supply for all purposes per head per day to Greater Bombay in Litres	192.97 (42.97 gallons.)
(45) Percentage of water for domestic purposes to total supply in Greater Bombay	62.70
(46) Percentage of water supplied for other purposes to total supply in Greater Bombay	22.30

APPENDIX X

Statement showing the quantity of Municipal water used for different purposes during the year 1971-72 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 ...	1.50	0.33	0.00	1,420.75	312.53	1.06	337.26	74.19	0.86	
2	Other Stables ...	18.41	4.15	0.01	...	...	...	...	...	...
3	Textile Mills ...	20,001.33	4,399.80	7.91	1,142.84	251.40	0.86	34.23	7.53	0.08	
4	Dyeing, Printing Bleaching Mills ...	7,887	380.31	0.68	885.91	194.90	0.67	77.00	16.94	0.19	
5	Gymnasias, Flay Grounds, etc. ...	24.73	53.40	0.09	30.64	6.74	0.02	0.23	0.05	0.00	
6	Race Course ...	173.79	37.33	0.07	...	...	...	...	...	...
7	Industries ...	7,263.58	1,597.81	2.87	8,630.27	1,898.45	6.43	4,324.25	951.23	11.10	
8	Lundries and Dhobi Ghats ...	982.42	216.11	0.39	288.30	63.42	0.21	11.18	2.46	0.03	
9	Lodging and Boarding Houses ...	315.76	69.46	0.12	135.56	29.82	0.10	17.81	3.92	0.04	
10	Hotels ...	652.10	141.45	0.26	34.64	7.62	0.03	...	...	...
11	Restaurants ...	2,203.10	481.63	0.88	1,055.47	232.18	0.79	259.48	57.08	0.68	
12	Floor Mills ...	85.97	18.91	0.03	0.59	0.13	0.00	...	...	...
13	Private Hospitals ...	531.92	117.01	0.22	90.23	19.85	0.06	42.59	9.37	0.11	
14	Railways ...	9,390.91	2,055.77	3.72	3,318.36	729.96	2.47	455.36	100.17	1.17	
15	Bombay Port Trust ...	6,858.13	1,508.62	2.71	239.98	52.79	0.18	...	...	...
16	Private Markets ...	71.24	15.67	0.03	24.73	5.44	0.02	0.95	0.21	0.00	
17	Bakeries ...	107.51	23.65	0.04	73.00	16.06	0.05	13.32	2.93	0.03	
18	B. E. S. & T. Undertaking properties ...	705.07	155.10	0.28	102.87	22.63	0.07	196.06	43.13	0.50	
18A	B. S. E. S. properties ...	...	...	...	43.91	9.66	0.08	37.72	8.30	0.10	
19	Municipal Dhobighat ...	521.10	114.63	0.22	...	...	...	...	...	...
20	Cultivating lands ...	3.64	0.80	0.00	4.90	1.08	0.00	...	...	...
21	Construction Works (Metered) ...	86.55	19.04	0.03	180.62	39.74	0.13	197.51	43.45	0.51	
22	Construction Works (Unmetered Estimated) ...	2,068.41	455.00	0.82	2,241.10	492.99	1.66	628.51	138.26	1.61	
23	Aarey Colony & Worli Dairy ...	...	...	...	...	...	...	1,820.92	400.56	4.63	
24	Fertilizer Corporation ...	...	...	...	9,772.94	2,149.81	7.27	...	...	...
25	Refineries ...	...	...	...	2,057.18	461.33	1.56	...	...	...
Total supply for Industrial and Trade purposes ...		54,019.08	11,882.08	21.39	31,814.92	6,998.53	23.67	8,454.39	1,859.76	21.69	
26	Fire purposes ...	12.56	2.76	0.00	1.22	0.27	0.00	...	...	...
27	Municipal Construction Works ...	18.90	4.16	0.01	136.76	30.07	0.10	25.45	5.60	0.06	
28	Road watering cleaning and cleansing and flushing gullies ...	Nil	Nil	...	Nil	Nil	...	Nil	...	...
28A	Municipal Markets ...	431.41	94.90	0.17	661.17	145.43	0.49	9.55	2.10	0.02	
Total Supply for Non-domestic purposes ...		54,431.98	11,981.70	21.57	32,614.07	7,174.30	24.26	8,489.39	1,857.46	21.77	
29	Domestic supply to City Suburbs, and Extended Suburbs										
(a)	Metered including residential ...	42,918.21	9,440.30	16.98	61,387.24	13,503.69	45.68	21,520.68	4,734.02	55.22	
(b)	Unmetered ...	1,17,301.89	25,803.95	46.43	20,232.06	4,450.56	15.06	3,120.42	686.42	8.01	
30	Assumed unaccounted losses such as leakage, bursts, de-watering of mains during construction and repairs works, unauthorized use of fire hydrants, ...	37,898.06	8,334.45	13.02	20,158.85	4,434.45	15.00	5,846.06	1,286.10	15.00	
Grand total ...		2,52,887.17	55,553.00	100.00	1,34,392.22	29,563.00	100.00	38,977.06	8,574.00	100.00	

Note 1—The total quantity of water supplied to the City, Suburbs and Extended Suburbs, is, i.e. Greater Bombay was 4,25,556.45 Mega litre (93,770 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 (Buoyancy operated).	"	7.74 Mts. 25.40 feet.
"	Under Sluices	... 2	Stoney gates (Main).	4.72 Mts. × 1.98M Mts. (15'-6" × 6'-6")	50.90 Mts. 167.00 feet.
"	Do.	1	Circulating rollers type.	5.91 Mts. × 1.98M Mts. (19'-6" × 6'-6')	Balanced load operation.
"	Intake Tower	... 1	Stoney gate. (Main).	3.96 Mts. × 1.98M Mts. (13'-0" × 6'-6")	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).			
(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	...	...	5	6
2	Portable welding transformer	...	2	...	...	4	7
3	Portable arc-welding sets	...	6	...	...	...	12
4	Portable compressor unit	...	3	...	...	2	9
5	Garage air compressor	...	2	...	...	1	4
6	Portable dewatering unit	...	3	...	...	2	9
7	Portable 2" pumping unit	...	4	...	...	4	13
8	Portable 3" pumping unit	...	5	...	...	11	21
9	Portable 4" pumping unit	...	4	...	...	1	13
10	Portable lighting set	...	1	...	...	1	3
11	Portable generating set 75 KW (Diesel)	...	2	...	...	...	2
12	Portable concrete mixer	...	1	...	...	1	5
13	Sump pump Portable (Pneumatic)	...	1	...	...	2	4
14	Lathe machines	...	4	...	...	4	11
15	Battery charger	...	2	...	...	2	6
16	Radial drilling machine	...	1	...	...	1	3
17	Shaping machine	...	1	...	...	...	2
18	Electric Blower Unit for smithy shop	...	1	...	...	...	2
19	Hack saw machine	...	1	...	...	1	2
20	Band saw machine	...	1	...	...	...	1
21	Pedestal drilling machine	...	2	...	...	2	6
22	Grinding machine (Bench type)	...	1	...	...	1	3
23	Flexible grinding machine (Portable)	...	33	...	...	1	35
24	Booster Pump (Electric)	...	3	...	...	...	3
25	Hydraulic Testing machine	...	5	...	...	2	7
26	Portable chlorination Plant	...	8	...	...	2	10
27	Pipe-cutting machine	...	1	...	...	...	1
28	Carpentry lathe	...	1	...	...	...	1
29	Multipurpose carpentry machine	...	1	...	...	...	1
30	Mechanical forge hammer	...	2	...	...	...	2
31	Threading machine (Electrical)	...	1	...	...	...	2
32	Flow Recorder	...	1	...	...	1	1
33	Tool Grinder (Pneumatic)	...	1	...	...	...	1
34	Tool grinder (electric)	...	1	...	...	...	1
35	Heavy duty grinder	...	1	...	...	...	1
36	Plate bending machine	...	1	...	...	...	5
37	Power hammer	...	4	...	...	8	12
38	Paving beaker	...	2	...	...	...	2
39	Mechanical Jack hammer	...	2	...	...	...	2
40	Pile driver	...	1	...	...	...	1
41	Mobile crane	...	1	...	...	...	1
42	Bar bending machine	...	3	...	...	...	4
43	Concrete vibrator	...	1	...	...	...	1
44	Cement gun	...	1	...	...	...	14
45	Petrol driven motor trolleys	...	...	...	...	...	2
46	Diesel rail locomotives	...	...	...	...	2	4
47	Jeep	...	...	...	...	...	5
48	Out board petrol engine for boats	...	...	...	...	...	3
49	Boats for vehar, Powai & Tulsi	...	...	...	...	...	1
50	Diesel drive pumping unit 10 H.P.	...	...	...	...	...	...
51	Hydraulic trolley jack 10 ton capacity	...	...	...	...	...	1
52	Hydraulic trolley jack 5 ton capacity	...	...	...	...	...	2
53	Venturi recorder A. M. Type	...	...	...	...	...	1
54	Pumping unit for Vehar (40 H.P.)	...	...	...	...	...	11
55	Venturi meters	...	...	...	...	...	2
56	Pumping Unit diesel for vehar	...	...	...	...	...	1
57	Electric blower for switches	...	...	...	...	...	1
58	Transformer oil fitting equipment	...	...	...	...	...	1
59	Dielectric strength tester	...	...	...	...	...	...
60	500KVA, 22KV/440V power transformer	...	...	...	...	3	3
61	Rock drilling machine (pneumatic)	...	...	...	...	...	1
62	Portable generating set (Petrol) 1.5 K.W.	...	...	...	...	...	1
63	Portable generating set (Diesel) 3 K. W.	...	...	...	...	...	3
64	Time punching machine	...	...	...	...	...	1
65	Well cleaning unit	...	...	...	...	...	...
66	Truck	...	...	...	...	...	1
67	(a) Welding Set (Diesel)	...	...	...	...	...	2
67	(b) Welding Set (Elect.)	...	...	...	...	...	1
68	Road roller 10T	...	...	...	...	...	1
69	Tunnel Inspection vehicle	...	...	...	...	...	...

APPENDIX XIV

Statement showing the details of bursts of mains on 600 mm. (24") and above in City, Subs. and Ext. Sub

Serial No.	Site	Size of the main	Date
1	Netaji Subhash Road, Marine Drive	1200 mm. (48")	30-8-1971
2	Opposite Electric Pole No. 32, Near Princess Street Fly-Over Bridge, Netaji Subhash Road	1200 mm. (48") Fort Outlet	2-9-1971
3	Bandra Slaughter House, Bandra (West)	600 mm. (24") Pali Hill Outlet	9-5-1971
4	Near Cama Industries Western Express Highway, Goregaon (East)	600 mm. (24")	12-7-1971
5	Opposite Bhandup Police Station, Lalbahadur Shastri Marg, Bhandup	600 mm. (24")	20-7-1971
6	Near Joseph Church, Pali Road, Bandra (West)	600 mm. (24") Bandra Outlet	5-10-1971
7	Near Ciba Company, Aarey Road, Goregaon (East).	600 mm. (24")	2-4-1971
8	Khot Kua Quarry Road Near Shantaram Talao, Western Highway, Mulund (East)	600 mm. (24")	18-10-1971
9	12th Road, Khar	600 mm. (24") Santacruz Outlet	9-2-1972
10	Opposite Petrol Pump, near Gandhi Nagar, Lalbahadur Sastri Marg, Junction Powai Road, Vikhroli	600 mm. (24") (Prestressed Cement pipe).	14-2-1972
11	Khod Bawadi Road, Bandra	600 mm. (24")	17-10-1971
12	Slaughter House, Govandi	600 mm. (24")	1-3-1972
13	Western Express Highway, Vile Parle	750 mm. (30")	18-12-1971

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 75).
5	5th Pasta Lane ...	4	2 Nos. 40 H. P. Each. 2 Nos. 50 H. P. Each.
6	Hill Road Pumping Station, Bandra ...	2	40 H.P. Each Electric.
7	Pali Hill Pumping Station Bandra ...	3	60 H.P. 2 Nos. Electric. 25 H.P. 1 No. Electric.
8	Juhu Vileparle Development Scheme Pumping Station, Juhu.	2	50 H.P. Each Electric.
9	Guzdar Hall pumping Station, Andheri ...	2	50 H.P. each Electric.
10	Dadabhai Pumping Stn. Versova Rd. Andheri.	2	25 H.P. each Electric.
11	Telly Gully pumping Stn. Andheri ...	2	25 H.P. each Electric.
12	Caves Road Pumping Stn. Jogeshwari ...	1	40 H.P. Electric.
13	Majaswadi Pumping Station, Jogeshwari ...	1	30 H.P. Electric.
14	Kunj Niwas, Pumping Station, Jogeshwari ...	1	13 H.P. Electric.
15	Sidharth Nagar Pumping Stn. Goregaon ...	2	90 H.P. Each Electric.
16	Quarry Road, Pumping Station, Malad ...	2	25 H.P. Each Electric.
17	Zakeria Road Pumping Station, Malad ...	2	25 H.P. Each Electric.
18	Pushpa Park Pumping Station, Malad ...	1	25 H.P. Electric.
19	Sainath Pumping Station, Malad ...	2	50 H.P. Each Diesel Engin.
20	Malavani Pumping Station, Malad ...	2	50 H.P. Each Electric.
21	Anik Village Pumping Station, Chembur ...	2	6 H.P. Each Diesel Engin.
22	Ghatla Pumping Station, Chembur ...	2	90 H.P. Each Electric.
23	Sindhi Colony Pumping Station, Chembur ...	3	15 H.P. 2 Nos. Electric. 25 H.P. 1 No. Electric.
24	Janata Colony Pumping Station, Deonar ...	2	25 H.P. Each Electric.
25	Deonar Pumping Station, Deonar Colony ...	2	40 H.P. Each Electric.
26	Chunabhatti Pumping Station, Kurla ...	2	25 H.P. Each Electric.
27	Kurla Market Pumping Station, Kurla ...	2	25 H.P. Each Electric.
28	Rifle Range Pumping Station, Ghatkopar ...	2	40 H.P. Each Electric.
29	Barve Nagar Pumping Station, Ghatkopar ...	2	40 H.P. Each Electric.
30	Parkside Colony, Pumping Station, Vikhroli...	2	40 H.P. Each Electric.
31	Shiv Tekadi, Jogeshwari. ...	1	10 H. P. —

APPENDIX XV-B

List of Municipal Bulk Pumping Station in Outside City and Ulhas Divn.

Serial No.	Site	No. of Pumps	Horse Power of Pumps.	
1	Vehar Pumping Station ...	170 H.P. 135 H.P. 120 H.P. 100 H.P. 80 H.P. 210 H.P. 160 H.P.	1 Electric. 3 " 3 " 2 " 3 " 2 Diesel. 6 "	170 H.P. 405 H.P. 360 H.P. 200 H.P. 240 H.P. 420 H.P. 960 H.P.
		20 Pumps	2755 H.P.	
2	Mohone Pump House, Ulhas River	250 H.P.	10 Electric.	2000 H.P.
3	Pogaon Pump House ...	250 H.P.	10 Electric.	2500 H.P.

APPENDIX XVI

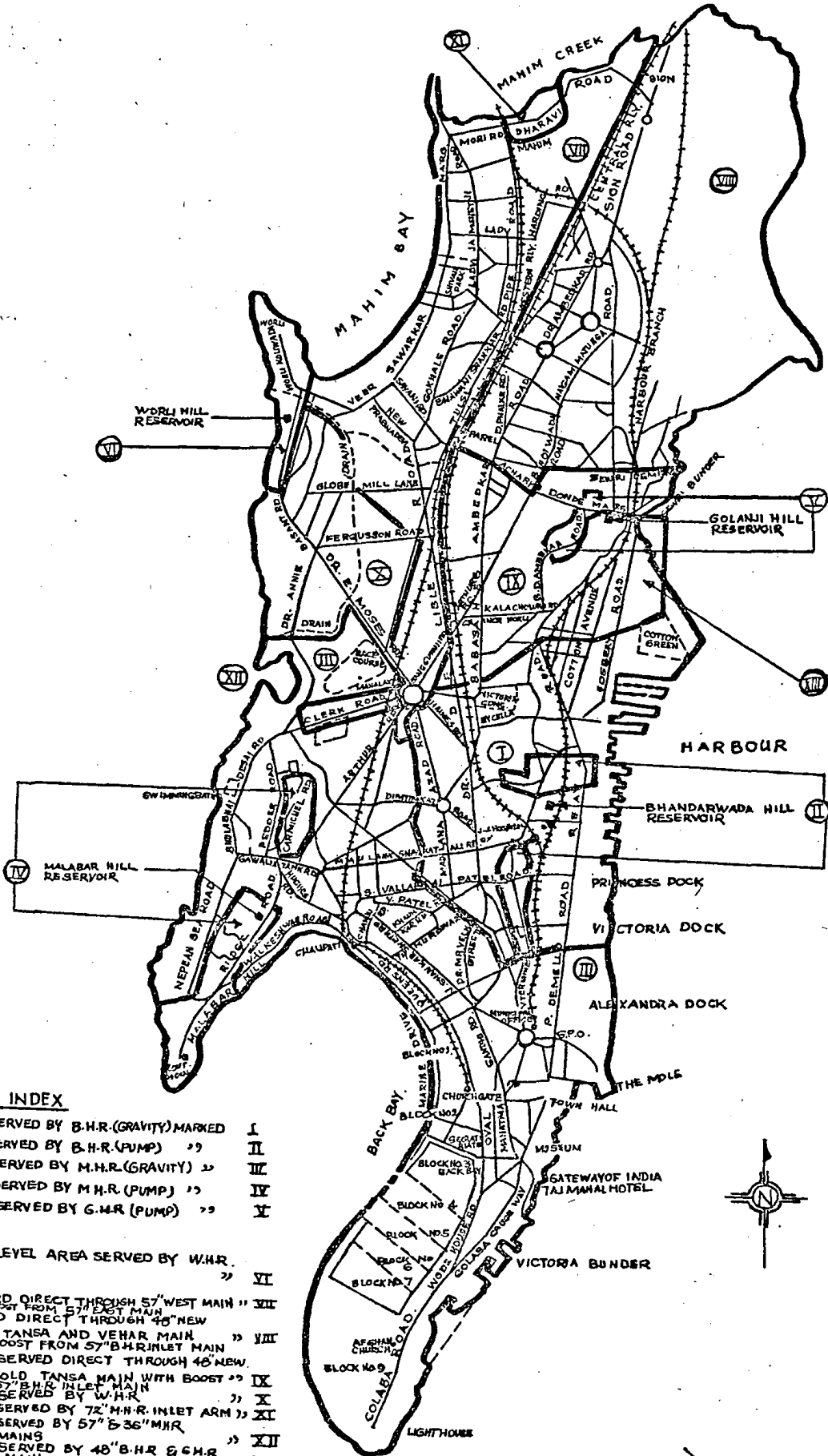
Statement of water Connections of different Sizes made during the year in City, Suburbs & Extended Suburbs.

SIZE OF CONNECTIONS

Ward	15 mm. (1/2")		20 mm. (3/4")		25 mm. (1")		30 mm. (1 1/4")		40 mm. (1 1/2")		50 mm. (2")		80 mm. (3")		100 mm. (4")		150 mm. (6")		Total	
	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered	Metered	Unmetered
A	43	13	23	40	40	60	29	2	42	24	6	6	1	...	...	...	...	...	184	145
B	17	14	15	64	14	57	...	6	5	3	2	1	...	...	...	...	...	...	53	145
C	35	11	7	137	5	160	...	18	4	2	4	1	...	...	...	...	...	...	55	329
D	93	62	46	147	37	156	33	30	23	20	5	12	...	...	...	...	...	...	237	427
E	50	25	21	132	21	201	...	14	6	13	11	9	5	...	2	...	1	...	117	394
F/South	43	19	11	56	13	126	5	18	5	6	1	4	...	...	...	...	...	...	78	229
F/North	15	59	7	55	17	33	...	20	11	13	1	3	...	...	...	...	...	...	51	188
G/South	37	34	10	48	16	68	12	19	19	1	13	2	...	...	...	...	...	...	107	172
G/North	37	45	30	76	52	82	17	4	17	1	1	...	3	...	1	...	...	...	158	208
Total for City	370	282	170	755	215	943	96	131	132	83	44	38	9	...	3	...	1	...	1,040	2,232
H	176	87	106	4	69	1	25	...	9	...	...	...	1	...	...	...	...	...	386	92
K	266	140	96	...	53	3	...	...	40	1	6	...	...	...	4	...	...	...	465	144
L	296	41	78	...	17	2	4	...	4	...	3	...	1	...	2	...	1	...	406	43
M	185	43	31	3	23	2	3	...	8	1	2	...	1	...	1	...	2	...	256	49
N	132	66	26	6	42	3	13	...	14	...	1	...	...	...	1	...	...	...	229	75
Total for Suburbs	1,155	377	337	13	204	11	45	...	75	2	12	...	3	...	8	...	3	...	1,742	403
P	109	47	56	1	33	...	...	...	12	...	3	...	...	...	...	...	...	...	213	48
R	60	45	69	3	38	...	...	...	17	...	5	...	...	...	1	...	...	...	189	49
T	103	29	38	3	16	1	...	...	5	...	2	...	...	...	1	...	...	...	165	33
Total for Ex. Suburbs	272	121	163	7	87	1	...	...	34	...	10	...	3	...	1	1	...	...	567	130
Grand Total	1,797	780	670	775	506	955	141	131	141	85	66	38	12	...	12	1	4	...	3,349	2,765
																			All Total	6,114

225

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 40" NEW " VIII
- 9 OLD TANGA AND VEHAR MAIN WITH BOOST FROM 57" B.H.R. INLET MAIN " IX
- 10 AREA SERVED DIRECT THROUGH 40" NEW. 5" 48" OLD TANGA MAIN WITH BOOST FROM 57" B.H.R. INLET MAIN " X
- 11 AREA SERVED BY W.H.R. " XI
- 12 AREA SERVED BY 72" M.H.R. INLET ARM " XII
- 13 AREA SERVED BY 57" & 36" M.H.R. INLET MAINS " XIII
- 14 AREA SERVED BY 40" B.H.R. & G.H.R. INLET MAIN " XIII

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A.E. SURVEY

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7/7/72
HYDRAULIC ENGINEER

APPENDIX NO. XVIII

Statement showing Water supply timings in City, Suburbs and Extended Suburbs

Serial No.	Ward No.	Locality	Hours of Supply
1	A	(a) Colaba and areas South of Museum ...	5-30 P.M. to 7-30 P.M.
		(b) Netaji Subhash Road, Fort and areas North of Museum ...	8-15 P.M. to 10-30 P.M.
		(c) Supply to Military area, Colaba ...	1-00 P.M. to 6-30 P.M.
2	B	(a) Dongri areas ...	3-30 P.M. to 7-00 A.M. & 6-00 P.M. to 7-00 P.M.
		(b) Umerkhandi areas including Dr. Maheshwari Road and Mavji Rathod Road ...	8-15 P.M. to 11-00 P.M.
		(c) Mohamdali Road, Pydhoni, Imamwada, Abul Rehman, Stt., Babula Tank Road areas, etc. ...	5-00 A.M. to 6-45 A.M. & 7-30 P.M. to 8-00 P.M. (Low Pr.)
		(d) P. D'Mello Road, Sant Tukaram Road and areas East of Central Railway Line ...	8-00 P.M. to 10-15 P.M. & 5-30 A.M. to 6-30 A.M. 4-00 P.M. to 8-00 P.M. (Low Pr.)
		(e) Mandvi ...	3-30 A.M. to 6-45 A.M.
3	C	(a) Kalbadevi, D'robi-talao, Kharatalao, Shamaldas Gandhi Marg (Princess Stt.), Fanaswadi, Kumbharwada and Cheera Bazaar areas ...	5-00 A.M. to 6-45 A.M.
		(b) Portion of Netaji Subhash Road ...	8-15 P.M. to 10-30 P.M.
4	D	(a) Gamdevi Girgaum, Thakurdwar, Prathna Samaj, Khetwadi, Tardeo, Maulana Saukatali Road, Naushir Bharucha Marg, Dr. Dadasaheb Bhadkarnkar Marg, Sulejaji Street areas and August-Kranti Marg, (Gowalia Tank Rd.) upto Bus Terminus ...	5-00 A.M. to 6-45 A.M.
		(b) Haystack Road, Keshavrao Khadye Marg (Clerk Road) from Mahaluxmi Bridge to Haji Ali ...	4-00 A.M. to 7-00 A.M. & 5-45 P.M. to 7-15 P.M.
		(c) (i) Raghoji Road ...	4-30 A.M. to 8-00 A.M.
		(ii) Forjett Street & August-Kranti Marg (Gowalia Tank Rd.) from Terminus upto East of Kemp's Corner ...	5-00 A.M. to 8-00 A.M.
		(iii) Forjett Hill Road ...	8-00 A.M. to 10-00 A.M.
		(d) Malabar Hill areas	
		(i) Walkeshwar Road from Sital Baug to Teen Batti, Dongersi Road, Jamnadas M. Melta (Harkness) Road, Manav Mandir Road & Winter Road. ...	7-30 A.M. to 1-00 P.M.
		(ii) Walkeshwar Road from Teen Batti to Raj Bhavan, Upper Banganga & Raj Bhavan ...	1-00 P.M. to 4-00 P.M.
		(iii) Lower Banganga Tank side ...	4-00 P.M. to 7-00 P.M.
		(iv) B. G. Kher Marg (Ridge Road) ...	7-30 A.M. to 7-00 P.M.
		(v) Mount Pleasant Road, L. D. Ruparel Marg (Nepean Road) and Little Gibbs Road ...	9-30 A.M. to 5-00 P.M.
		(e) Altamount Road	
		(i) South Zone ...	5-00 P.M. to 8-30 P.M.
(ii) Middle Zone ...	8-30 P.M. to 11-00 P.M.		
(iii) North Zone ...	11-00 P.M. to 1-15 A.M.		
(f) Dr. Gopalrao Dastmukh Marg (Peddar Road) and August Kranti Marg (Gowalia Tank Road). West of Kemp's Corner and part of Sitaram Patkar Marg. (Hughes Road) ...	6-30 P.M. to 7-30 P.M. (Low Pr.) 7-30 P.M. to 1-00 A.M. (High Pr.)		
(g) Laxmibai Jagmohandas Marg (Napean Sea Road), Narayan Dabholkar Road and Dr. Bhagwandas Indrajit Road. ...	6-30 P.M. to 1-00 A.M.		
(h) Bhulabhai Desai Road ...	7-30 P.M. to 1-30 A.M.		
(i) Carmichael Road ...	4-30 P.M. to 2-00 A.M.		
(j) Siri Road, Babulnath Road areas ...	5-30 A.M. to 8-30 A.M.		
5	E	(a) Kamatipura, Byculla (West), Nagpada, Sardar Balwantsingh Dhondi Marg, (Nesbit Road), St. Mary Road, N. M. Joshi Marg, Sane Guruji Road (Arthur Road), Dr. Anandrao Neir Road, Maulana Azad Road and Chinchpokli areas, Dr. Ambedkar Road from Veer Mata Jijabai Bhosale Udyan (Victoria Garden) to Byculla Bridge. ...	5-00 A.M. to 6-45 A.M. & 7-50 P.M. to 8-00 P.M. (Low Pr.)
		(b) Dr. Ambedkar Road from Dattaram Lad Marg (Kala-Chowky Road) to Veer Mata Jijabai Bhosale Udyan Victoria Garden and Ulster Road ...	
		(c) Matharpakhadi areas ...	4-00 A.M. to 6-45 A.M.
		(d) Bivedere Road and its cross lane and Kachhi Lohana Chawl along Shivdas Champsai Marg. (Mazagaon Road) ...	12-30 P.M. to 3-00 P.M.
		(e) Motilal lane and Hathi Baug areas ...	3-00 P.M. to 5-30 P.M.
		(f) Reay Road from junction Wadi Bunder Road to Matarpakhadi Road, D'Lima Street, Dockyard Road, Gunpowder Road & Nawab Tank Road areas ...	3-00 P.M. to 6-30 P.M. 1-00 P.M. to 3-00 P.M.

APPENDIX NO. XVIII—Contd.

Serial No.	Ward	Locality	Hours of Supply
		(g) Remaining areas of Reay Road ...	8-00 P.M. to 10-15 P.M. & 5-00 A.M. to 7-00 A.M. (Low Pr.)
		(h) Victoria Road, E. S. Patanwalla Marg. (Connought Road), Rambhau Bhogle Marg (Gorupdeo Road), Sussex Road ...	8-00 P.M. to 11-30 P.M.
		(i) Dr. Mascarenhas Road (Mount Road) and Champsi Bhimji Road ...	8-00 P.M. to 10-15 P.M.
6	F/S	(a) Dr. Ambedkar Road from Parel T. T. to Dattaram Lad Marg (Kalachowky Road), Lalbaug, Dr. S. S. Rao Road and Kala- chowky areas ...	4-00 A.M. to 6-45 A.M.
		(b) Naigaum, Bhoiwada and Sewree-Wadala areas (Boost to Bhoi- wada is given from 10 A. M. to 11.30 A. M. from Golanji Hill Reservoir) ...	6-45 A.M. to 11-30 A.M.
		Golanji Hill, Parel Back Road and Parel Village areas including 2nd October Colony and Ambedkar Nagar (Golanji Hill Reservoir Pump Supply). ...	4-30 P.M. to 7-00 P.M.
		(d) G. D. Ambedkar Marg (Parel Tank Road) from Bhagwantrao Parkar Marg (Parel Village Road) to Ambewadi ...	7-45 P.M. to 10-00 P.M.
		(e) Tokarsi Jivraj Road, Sewree, Cross Road, Sewri Koliwada areas and Fosbury Road from Haji Bunder Road to I. C. I. Laboratory, building including Messrs. Hindustan Lever Ltd. Company. ...	4-45 P.M. to 10-00 P.M.
		(f) Cotton Green, Signal Hill Avenue Road and Haji Bunder Road areas. (Fosbury Pump-Vaitarna supply) ...	4-30 P.M. to 8-30 P.M. & 8-30 P.M. to 10-30 P.M. (Low Pr.)
7	F/N	(a) Sion, Matunga, Wadala, Parsi & Hindu Colonies ...	6-45 A.M. to 11-30 A.M.
		(b) Antop Hill areas (Vaitarna supply) ...	7-30 A.M. to 12- Noon
8	G/S	(a) Worli B. D. D. Chawls, Lower Parel, Love Grove and Pra- bhadevi areas ...	4-00 P.M. to 6-45 P.M.
		(b) N. M. Joshi Marg between junction Sane Guruji Road and Curry Road Bridge ...	4-00 A.M. to 7-00 A.M.
		(c) Worli Koliwada (Vaitarna Pump Supply) (i) High level areas ...	5-00 P.M. to 9-30 P.M.
		(ii) Low level areas ...	9-30 P.M. to 11-30 P.M. & 4-00 P.M. to 6-45 P.M. (Low Pr.)
		(d) Pochkhanawala and Abdul Gafarkhan Road areas ...	6-30 P.M. to 10-30 P.M.
		(e) B. D. D. Chawls, N. M. Joshi Marg (57' East Main Supply) (i) Mesjid Gully & Central Gully ...	3-00 A.M. to 4-30 A.M. (Direct) & 4-30 A.M. to 6-00 A.M. (Pump)
		(ii) Police Gully ...	6-00 A.M. to 7-30 A.M. (Pump) & 7-30 A.M. to 8-00 A.M. (Direct)
		(f) Worli Dairy ...	24 hours low pr. supply.
		(g) Worli Hill areas near Worli Dairy. (From 12" Worli Dairy outlet of W.H.R.) ...	12 Noon to 3-30 P.M.
9	G/N	(a) Mahim, Shivjai Park and Dadar areas west of Western Rail- way lines ...	12-30 P.M. to 1-30 P.M. (low Pr.) & 1-30 P.M. to 4-00 P.M. (High pr.)
		(b) Areas between Soyani Road and Rao Bahadur S. K. Bole Rd. (Portuguese Church Street) ...	4-00 P.M. to 6-45 P.M.
		(c) Dharavi (West) areas (Vaitarna supply) (i) Jasmine Mill areas, Diamond Gas Co. & Municipal Colony areas ...	4-30 A.M. to 7-00 A.M.
		(ii) Dharavi Road upto Kala Killa ...	6-00 P.M. to 8-30 P.M.
		(d) Dharavi (East) area (Velar supply) ...	7-00 A.M. to 11-30 A.M.
		(e) Matunga Lebour Camp areas including Central Rly. Work- shop areas (Vaitarna Supply) ...	5-00 A.M. to 11-30 A.M.

APPENDIX NO. XVIII—Contd.

Serial No.	Ward	Locality	Hours of Supply From To
10	H	(a) Bandra Hill (i) Mount Mary Road (ii) Society Road	10-30 P.M. to 1-30 A.M. (Pump) 9-00 P.M. to 10-30 P.M. (Pump) & 10-30 P.M. to 4-30 A.M. (Direct)
		(b) Pali Hill areas (Pali Hill Reservoir Pump Supply)	8-00 P.M. to 1-30 A.M. (Pump)
		(c) Bullock Road and Byramji Jeejibhoy Road (Pali Hill Reservoir supply-24" Bandra outlet)	8-00 A.M. to 12 Noon (Pump)
		(d) Colonies on the East of Western Express Highway	7-00 P.M. to 4-30 A.M.
		(e) Remaining areas of 'H' Ward	7-00 P.M. to 4-30 A.M.
11	K	(a) Gazdar Hall Pump (18" Salsette main supply) (i) Cama Road & part of Gilbert Hill (ii) S. V. Road from Gazdar Hall to Vevaina Bldg., V. P. Road (Andheri-West)	10-00 A.M. to 2-00 P.M. 6-00 A.M. to 10-00 A.M.
		(b) Baptista Wadi, Mapla Dongri & East of Express Highway, off Parsi Panchayat Road, Shankar Wadi, elevated areas of Gundavli Village (Andheri East) and Shamshan Tekri of Jogeshwari (East)	2-00 P.M. to 8-00 P.M.
		(c) Caves Road pump (18" Caves Road Main Veravali supply) (i) H. F. Society, Natwar Nagar (Jogeshwari East) (ii) Hardevibai Society, Caves Road (Jogeshwari East)	8-00 A.M. to 1-00 P.M. (Pump) 10-00 A.M. to 1-00 P.M. (Direct) & 1-00 P.M. to 3-00 P.M. (Pump)
		(d) Majas Pump (Veravali Supply) (i) Majas Gumpala Tekdi, Pratap Nagar, etc (Jogeshwari East) (ii) Squatters Colony, Meghwadi and Shyam Nagar. (Jogeshwari-East)	7-00 A.M. to 12 Noon (Pump) 12 Noon to 4-00 P.M. (Pump)
		(e) Kunj Niwass Pump (24" S. V. Road Main Supply) Sahakar Road (Jogeshwari-West)	4-00 P.M. to 8-00 A.M. (Direct) & 11-30 A.M. to 2-00 P.M. (Direct) & 8-00 A.M. to 11-30 A.M. (Pump)
		(f) Dadabhai Road and part of Gilbert Hill (Andheri-West)	2-00 P.M. to 3-00 P.M. (Direct) & 5-00 P.M. to 4-30 A.M. (Direct) & 3-00 P.M. to 5-00 P.M. (Pump)
		(g) Telly Gully Pump. Telly-Gully, Gundavli Village etc. (Andheri-East)	2-00 P.M. to 5-30 P.M. (Direct) & 9-30 P.M. to 4-30 A.M. (Direct) & 5-30 P.M. to 9-30 P.M. (Pump)
		(h) J. V. D. S. Pump (18" Nehru Rd. Vile-Parle West Main Supply) (i) From Juhu Hotel to Juhu Reservoir except J. V. D. S. (ii) Gandhigram area as (proper Juhu)	2-00 P.M. to 3-30 P.M. (Direct) & 7-30 P.M. to 4-30 A.M. & 3-30 P.M. to 7-30 P.M. (Pump) { 2-00 P.M. to 3-30 P.M. (Pump) 3-30 P.M. to 4-30 A.M. (Direct)
		(i) Mahakali Road (Andheri-East) from Mahakali Temple to Holy Spirit Hospital (Veravali Hill Reservoir Supply)	5-00 P.M. to 7-30 P.M.
		(j) Mahakali Road from Andheri-Kurla Road to Holy Spirit Hospital (Andheri East)	5-00 A.M. to 4-00 P.M.
		(k) Swami Vivekanand Road from Andheri Nake to Sahakar Road, Amboli, Mogra (West) including Caesar Road, Kevni Pada and Malcolm Baug areas	4-00 A.M. to 2-00 P.M.
		(l) Swami Vivekanand Road from Sahakar Road to Oshivara Bridge (Jogeshwari-West) (36" Patel Engineering arm-Veravali supply)	10-00 P.M. to 8-00 A.M.

APPENDIX NO. XVIII—Contd.

Serial No.	Ward	Locality.	Hours of Supply	
			From	To
		(m) Swami Vivekanand Road from V. P. Road to Irla Bridge and Juhu Lane (Andheri-East) (18" Salsette Main Supply) ...	24 hours.	
		(n) Kaju Wadi (Andheri-East) ...	24 hours.	
		(o) Station Road (Jogeshwari-West) and Subhash Nagar (Jogeshwari-East) (Caves Road supply) ...	24 hours.	
		(p) Koldongri (Andheri-East) ...	2-00 p.m. to 4-30 a.m.	
		(q) (i) Jaiprakash Road (Versova Road) from S. V. Road Andheri Naka to Seven Bungalow including Veera D. Sai Road, Tap Village, Dadasabhai Naowroji Nagar, M. I. G. Colony and Indian Oil Nagar areas ...	5-00 a.m. to 12-00 Noon	
		(ii) Jaiprakash Road (Versova Road) From Seven Bungalow onwards and entire Versova Village ...	12-00 Noon to 5-00 a.m.	
		(r) Marol-Maroshi Road, Marol, Marol Village East of Pipelines (Andheri-East) (West main supply) ...	7-00 p.m. to 4-30 a.m.	
		(s) Entire Sahar Village (Andheri-East) (West main supply) ...	7-00 p.m. to 4-30 a.m.	
		(t) Remaining areas of 'K' Ward ...	2-00 p.m. to 4-30 a.m.	
12	L	All the areas of the Ward ...	3-30 a.m. to 11-30 a.m.	
13	M	(a) <i>Ghatla Pump Supply</i>		
		(i) Portion situated to the East of Agarwadi etc. Payli Pada and Chcetah Camp ...	3-30 a.m. to 7-00 a.m. & 6-00 p.m. to 10-00 p.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 Noon	
		Note :—Deonar Municipal Colony (Suction tank & Pump supply)		
		E. F. G Chawls 5 a.m. to 7 a.m.		
		A, B Chawls 7 a.m. to 12 Noon		
		C. D. Chawls 12 Noon to 2 p.m.		
		(b) Along 36" Refinery main from Kumbharwada upto Atomic Energy Department. ...	24 Hours.	
		(c) Along 36" Refinery main from Burmah-Shell Bridge to Kumbharwada, C. S. T. Road and Sion Trombay Road upto Sandu Wadi, (Velar Supply). ...	4-00 a.m. to 11-30 a.m.	
		(d) Colony along trunk mains (Colonies in N Ward also). ...	3-00 a.m. to 11-00 a.m.	
		(e) Chembur Colony, Kantiwala B. Road behind Police Station (Suction tank and pump supply 15 H.P. -3 Nos.) ...	8-00 a.m. to 12 Noon & 3-00 p.m. to 5-00 p.m.	
		(f) Rest of the areas in 'M' Ward ...	12-00 MN. to 12-00 NOON & 6-00 p.m. to 12-00 MN	
14	N	(a) Ghatkopar (North of Sarvodaya Hospital), Vikroli and Bhandup (24" Bhandup-West Main) Supply. ...	12-00 NOON to 4-00 a.m.	
		(b) Ghatkopar (South of W. W. Yard-Velar Supply) ...	3-30 a.m. to 11-30 a.m.	
		(c) Remaining Ghatkopar areas (18" N. T. and O. T. supply) ...	3-00 a.m. to 11-00 a.m.	
		(d) <i>Barve Nagar, Bhatwadi (Pump Supply)</i>	4-00 a.m. to 7-30 a.m.	
		(60" Chord main supply) (i) A,B,C,H,J, and K Quarters. ...	& 4-00 p.m. to 7-15 p.m.	
		(ii) D,E,F, Quarters. ...	7-30 a.m. to 11-00 a.m. & 7-15 p.m. to 11-30 p.m.	
		(e) Rifle Range (Ghatkopar) (Pump Supply) (24" Bhandup West main supply) ...	2-00 p.m. to 8-00 p.m.	
		(f) <i>Park Site Colony, Vikhroli, (Pump Supply)</i>		
		(i) Ground floor structures.		
		(a) 'D' group chawls ...	5-00 p.m. to 7-00 p.m.	
		(b) A,B,C,F, group chawls ...	7-00 p.m. to 9-00 p.m.	
		(c) Common supply to all chawls ...	12-00 M.N. to 2-00 a.m.	
		(ii) Ground and two upper floor buildings ...	9-00 p.m. to 12-00 M.N. & 2-00 a.m. to 4-00 a.m.	
		(g) Tigore Nagar and Kannanwar Nagar, (Vikhroli East) ...	7-30 p.m. to 4-00 a.m. (High Pr.)	
		(h) Areas between Kanjur Marg (Bhandup) and Sarvodaya Hospital (Ghatkopar) Along Lal Bahadur Shastri Marg, including Pant Nagar. ...	& 4-00 a.m. to 11-00 a.m. (Low Pr.)	
			12-00 NOON to 4-00 a.m.	

APPENDIX NO. XVIII—Contd.

Serial No.	Locality	Hours of Supply		
		From	To	
15	P (A) <i>Tunnel Supply:</i>	(a) (i) Jawahar Nagar, Gejanan Colony, Motilal Nagar, Shastri... Nagar, Sidharth Nagar areas of Goregaon (West) & areas situated to the South of station Road of Goregaon (West)... upto Shivara bridge including Aarey Road (West) & Unnat Nagar suction tank supply. ...	12-30 A.M. to 4-00 A.M.	(Low Pr.)
			& 4-00 A.M. to 8-00 A.M.	(High Pr.)
		(ii) Special supply to Jawahar Nagar (Goregaon West) ...	8-00 A.M. to 10-00 A.M.	
		(b) <i>Madh-Marve Supply.</i>		
		(i) Malavani Colonies ...	7-00 A.M. to 10-30 A.M.	
		(ii) Malavani Village, I. N. S. Hamle ...	10-30 A.M. to 1-15 P.M.	
		(iii) Madh-Island and Erangal areas ...	1-15 P.M. to 4-00 P.M.	
		(c) Pushpa Park, Daftari Road areas of Malad (East) ...	10-00 A.M. to 2-00 P.M.	
		(d) (i) Areas of Goregaon (West) situated to the North of Station Road (Goregaon) upto Kilachand Road, Kandivali (West) excluding Madh-Marve Road and including Mahatma... Gandhi Road (Goregaon-West) and Unnat Nagar direct supply. ...	4-00 P.M. to 7-30 P.M.	(Low Pr.)
			& 7-30 P.M. to 12-30 A.M.	(High Pr.)
		(ii) Malad (West). ...	4-00 P.M. to 7-30 P.M.	(Low Pr.)
			& 7-30 P.M. to 11-30 P.M.	(High Pr.)
		(e) Ramchandra Lane & Adarsh Colony areas of Malad (West) ...	10-00 A.M. - 2-00 P.M.	
		(B) <i>Tulsi Supply :</i>		
		(a) Goregaon (East) ...	6-00 A.M. to 11-00 A.M.	
		(b) Quarry Road Bhanji Wadi, Khotkua & Kurar Village areas of Malad (East). ...	11-00 A.M. to 4-00 P.M.	
		(c) Iswarbhai Patel Road (Goregaon-East) ...	4-00 P.M. to 7-00 P.M.	
(d) Heji Bapu Road, Nevatia Road, Jitendra Road areas of Malad (East) and Ghas Bazar of Goregaon (East) ...	7-00 P.M. to 2-00 A.M.			
(e) Aarey Colony. ...	2-00 A.M. to 6-00 A.M.			
16	R	(a) Areas along S. V. Road North of Borivali Rly. level crossing including Dahisar & Bhayandar and excluding Jai Hind Colony and Daulat-Nagar. ...	4-00 P.M. to 7-00 P.M.	
		(b) Borivali (East & West) to the South of Borivali Rly. Level crossing and portion of Kandivali (West) upto North of Kilachand Road. ...	4-00 P.M. to 8-00 P.M.	
		(c) Areas on S. V. Road South of Kilachand Road, Kandivali (West) including Kilachand Road. ...	4-00 P.M. to 7-30 P.M.	(Low Pr.)
			& 7-30 P.M. to 11-30 P.M.	(High Pr.)
T	(a) <i>Mulund Colony.</i> ...	6-00 A.M. to 11-00 A.M.		
		& 2-00 P.M. to 5-00 P.M.		
(b) Hoechst Pharmaceuticals Ltd. towards North along Lal... Bahadur Shastri Marg upto Check-Naka and Mulund Town... both East and West of Rly. Lines. ...	2-30 A.M. to 10-30 A.M.	(High Pr.)		
	& 10-30 A.M. to 2-30 A.M.	(Low Pr.)		
(c) From May and Baker towards North along Lal Bahadur Shastri Marg upto Hoechst Pharmaceuticals Ltd. including Bhandup Village and Part of Kanjur Marg. ...	6-00 P.M. to 5-00 A.M.	(High Pr.)		
	& 5-00 A.M. to 6-00 P.M.	(Low Pr.)		

APPENDIX XIX

Statement showing short supply complaints in the City (for the last 15 years.)

Months.	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	1971-72
April ...	1,320	916	231	255	455	1,277	1,487	4,471	3772	3,196	3,515	4,034	4,315	5,208	3,283
May ...	1,521	242	595	300	592	1,493	1,683	4,369	3822	3,419	3,154	3,910	3,704	4,327	3,414
June ...	3,159	187	596	253	786	1,549	1,602	4,179	3241	3,622	3,503	5,003	4,084	4,307	3,318
July ...	2,089	242	436	234	620	1,433	1,336	4,338	3155	3,660	2,885	4,182	3,292	3,496	2,381
August ...	440	224	305	409	452	1,295	1,130	3,750	3024	3,271	3,437	3,326	3,400	2,500	2,518
Sept. ...	759	246	308	448	663	1,199	1,194	3,666	3076	3,138	3,197	3,638	3,473	3,626	2,247
Oct. ...	1,572	235	275	505	831	1,616	1,351	4,064	3143	3,342	3,316	3,348	3,650	3,581	2,287
Nov. ...	683	222	271	508	699	1,376	1,342	3,850	3492	3,283	3,253	3,823	3,329	6,651	2,478
Dec. ...	1,076	192	345	617	865	1,282	1,479	3,915	3432	3,308	2,913	3,183	3,691	2,925	2,401
Jan. 72 ...	572	242	243	634	665	1,463	1,700	3,983	3108	2,946	3,300	3,079	3,365	2,892	2,618
Feb. ...	916	179	108	670	816	1,722	1,360	3,574	3245	2,527	2,768	2,967	3,636	2,824	2,608
March ...	824	264	239	531	1,013	1,576	1,309	4,127	4008	2,964	3,525	4,380	3,626	3,365	3,383
Total ...	14,938	2,791	4,053	5,369	8,657	17,281	16,975	48,986	40,458	38,676	38,266	44,873	44,858	45,662	32,794

APPENDIX XIX-A

Short Supply Complaints in Suburbs & Extended Suburbs.

Month	1969-70		1970-71		1971-72	
	Suburbs	Extended Suburbs.	Suburbs	Extended Suburbs.	Suburbs	Extended Suburbs.
April ...	737	210	1,163	142	1,173	275
May ...	626	223	1,083	118	917	248
June ...	923	278	972	144	1,094	123
July ...	753	195	948	128	893	281
August ...	740	239	755	92	695	137
September ...	737	214	719	99	1,077	198
October ...	728	258	1,001	180	1,047	328
November ...	614	180	882	31	927	231
December ...	750	194	865	50	1,112	323
January ...	686	175	1,114	64	1,005	193
February ...	565	114	727	68	812	167
March ...	656	230	1,171	64	1,219	312
TOTAL ...	8,515	2,599	11,412	1,280	11,981	2,816

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 31-3-1972
1	A	Municipal	2,044	1,594	160	39	10	4	2,165
		Private	698	251	24	9	...	...	713
2	B	Municipal	620	323	53	4	5	3	695
		Private	242	...	3	3	...	...	226
3	C	Municipal	1,131	387	47	9	3	...	1,174
		Private	392	13	8	...	...	...	306
4	D	Municipal	9,533	3,609	197	46	18	1	3,595
		Private	1,038	641	39	10	...	...	1,029
5	E	Municipal	1,631	1,215	91	...	...	...	1,738
		Private	736	...	...	...	...	...	738
6	F/S	Municipal	1,204	1,111	88	33	2	...	1,209
		Private	354	...	...	...	...	...	332
7	F/N	Municipal	1,469	1,058	37	18	71	...	1,524
		Private	1,042	384	14	1	...	...	1,055
8	G/S	Municipal	946	814	137	4	27	1	1,088
		Private	453	232	15	2	...	...	545
9	G/N	Municipal	1,532	981	116	48	21	...	1,701
		Private	1,102	17	42	372	...	...	1,061
Total for City			Municipal 14,160	11,122	926	201	157	9	12,689
			Private 5,957	1,538	145	397	...	...	5,283
Total			20,127	12,660	1,071	598	157	9	17,972
10	H	Municipal	4,959	1,012	98	8	...	...	5,049
		Private	6,123	745	334	44	...	...	6,413
11	K	Municipal	3,719	...	618	23	...	...	4,321
		Private	2,608	...	61	258	...	...	5,192
12	L	Municipal	2,503	911	132	2	14	...	2,662
		Private	1,498	1,174	68	1	...	...	1,455
13	M	Municipal	1,919	591	130	27	...	...	1,827
		Private	3,482	57	91	21	...	...	1,828
14	N	Municipal	1,286	...	145	19	...	...	1,425
		Private	1,970	...	79	17	...	...	2,038
Total for Suburbs.			Municipal 14,416	2,514	1,123	79	14	...	15,282
			Private 15,676	1,976	633	341	...	...	16,911
Total			30,092	4,490	1,756	420	14	...	32,209
15	P	Municipal	2,106	862	198	...	...	...	2,509
		Private	2,513	492	16	...	...	...	2,311
16	R	Municipal	1,505	593	105	...	89	...	1,710
		Private	2,310	794	77	...	...	...	2,187
17	T	Municipal	813	...	91	...	17	...	907
		Private	2,433	2	74	...	...	...	2,559
Total for Ext. Suburbs.			Municipal 4,424	1,455	394	...	106	...	5,126
			Private 7,308	1,288	167	...	...	...	7,057
Total			11,732	2,743	561	...	106	...	12,183
Grand Total			Municipal 33,000	15,071	2,443	280	277	9	33,097
			Private 28,951	4,802	945	738	...	...	29,258
Total:			61,951	19,893	3,388	968	277	9	62,355

APPENDIX XXI

Details of the Works carried out by construction Division in City Suburbs and Extended Suburbs
(Main of sizes 80mm. (3") and above)

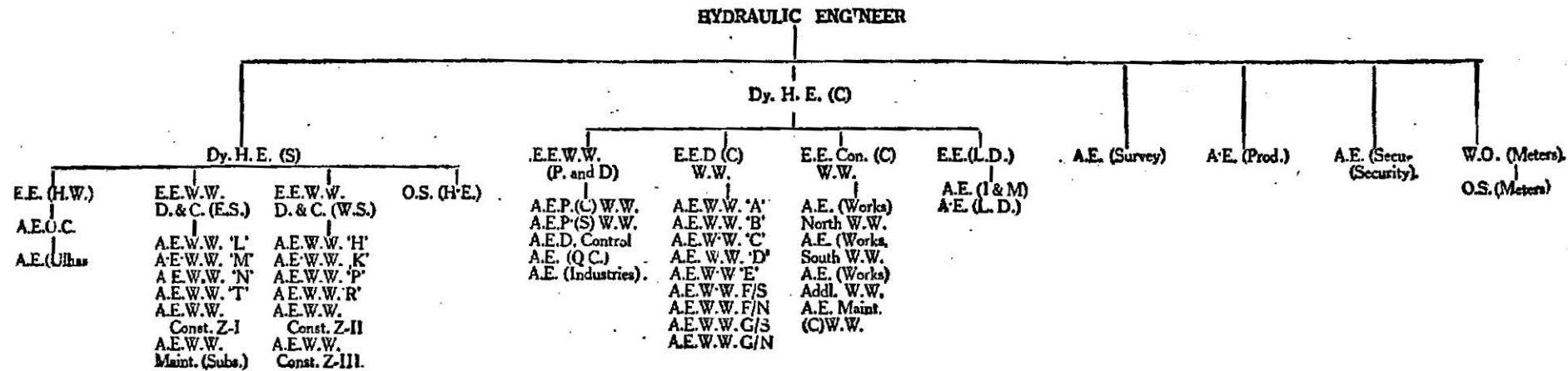
Size of pipes	CITY		SUBURBS		EXTENDED SUBURBS		TOTAL	
	Metres	Feet	Metres	Feet	Metres	Feet	Metres	Feet
80 mm. (3")	580	1,903	1,028	3,373	37	121	1,645	5,397
100 mm. (4")	746	2,448	660	2,165	484	1,587	1,870	6,200
150 mm. (6")	6,539	21,454	19,611	64,340	8,577	28,140	34,727	1,13,934
250 mm. (9")	5,453	17,890	5,159	16,926	3,786	12,421	14,398	47,237
300 mm. (12")	2,320	7,611	2,985	9,793	5,560	18,570	10,965	35,974
400 mm. (15")	...	...	17	56	...	...	17	56
450 mm. (18")	1,833	6,014	927	3,041	1,620	5,315	4,380	14,370
600 mm. (24")	276	905	5	16	...	...	281	921
750 mm. (30")	134	436	...	...	...	...	134	436
900 mm. (36")	230	755	...	...	...	...	230	755
Total	18,111	59,416	30,352	99,710	20,164	66,154	68,667	2,25,280
		Rs.		Rs.		Rs.		
Cost of Scheduled works carried out (Departmentally and by contract)		15,57,791	...	33,94,011		17,92,034		
Cost of non-scheduled works carried out		15,81,039	...	2,92,988		1,37,410		
Total cost of the works carried out		31,38,830		36,86,999		19,29,444		

APPENDIX XXII

Details of stand pipes in City, Suburbs and Extended Suburbs.

Serial No.	WARD	No. of existing stand pipes on 1-4-1971.	No. of new stand pipes given during the year.	No. of stand pipes cut off during the year.	Total No. of Stand pipes as on 1-4-1972.
1	A	...	3	...	3
2	B	...	...	...	...
3	C	...	...	...	...
4	D	...	3	...	3
5	E	...	...	...	...
6	F/S	...	63	5	62
7	F/N	...	70	28	97
8	G/S	...	46	6	51
9	G/N	...	110	35	133
	CITY TOTAL	...	285	74	348
10	H	...	529	85	614
11	K	...	712	60	760
12	L	...	281	25	303
13	M	...	119	23	140
14	N	...	399	60	459
	SUBURBS TOTAL	...	2,030	253	2,276
15	P	...	124	8	125
16	R	...	18	1	18
17	T	...	313	90	403
	EXTD. SUBS. TOTAL	...	455	99	546

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 No. 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 escape of 50 to 60 feet Extension	—	—	—	}	32 Nos.
(b) with Extension Ladders of 35 feet extension	—	—	—		
(3) Fire Tender with Extension Ladder	—	—	—	—	4 Nos.
(4) Motor Emergency Tender with Special Gears	—	—	—	—	1 No.
(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	—	—	—	—	6 Nos.
(9) Hose Laying Lorry-cum-Canteen Van	—	—	—	—	1 No.
(10) Control Post Van	—	—	—	—	1 No.
(11) Motor Ambulances	—	—	—	—	11 Nos.
(12) Other Vehicles	—	—	—	—	19 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 House, Delivery, Rubber-lined (in stock)—					
(17) Gas Masks of various types	—	—	—	—	18 Nos.

Out of the above appliances and equipments the following were purchased during the year 1971-72.

(1) Ambulances	—	—	—	—	3 Nos.
(2) Water Tanker	—	—	—	—	2 Nos.
(3) Other Vehicles	—	—	—	—	3 Nos.

Communications—

(A) Telephones—

In the year 1963-64 the six Emergency lines of the Brigade were split up as under:—

(i) Four Emergency lines (No. 101) for fires and other Emergency Calls.

(ii) Two emergency lines (No. 102) for Ambulance Calls. This system continued to exist in the year under report. For better functioning the Fire Brigade Control Room is air-conditioned.

(B) Wireless Communications System—

The Brigade has 55 Radio Telephone Sets (5 Static Sets, 38 Mobile Sets and 10 Walkie-Talkie Sets) actually on use and 2 spare Walkie-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 No. of calls as shown below with comparative figures of the previous year.

	1971-72	1970-71	Difference
Total Calls	3,857	3,920	63 Decrease
Actual Fires	2,114	2,124	10 "
Actual House Collapse	419	371	48 Increase
Rescue Services	358	429	71 Decrease
Other Services	450	361	89 Increase
Falls Calls—			
Defective Calls due to defects in Fire Alarms system	154	172	18 Decrease
Good Intent Calls	88	78	10 Increase
Malicious Calls	275	385	110 Decrease

Outside City Limit Calls—

There were two such calls during the year.

Serious Fires—

There were 21 serious fires during the year (*vide* Appendix I).

House Collapse—

This Brigade attended calls to 419 fallen buildings as against 371 in the previous year. 59 persons lost their lives and 238 persons were injured. The figures of last 4 years are given below:—

	1967-68	1968-69	1969-70	1970-71	1971-72
House Collapse	256	182	206	371	419
Deaths	57	11	23	29	59
Injuries	79	105	124	169	238

Some serious House Collapses are mentioned in Appendix VI.

Other Services—

There were 450 calls of Other Services which included leakage of poisonous gas and dangerous fumes, spilling of acids, falling of trees, shocks due to leakage of electricity, vehicle accidents etc. 54 persons lost their lives in such accidents and 97 persons received injuries.

Rescue Service—

The Brigade attended 358 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. 114 persons died in such cases and 195 were injured. Majority of deaths (102) were by drowning. The Brigade also rescued 111 animals and birds.

Burning Casualties—

There were 341 casualties due to fire out of which 47 persons lost their lives (29 males, 18 females). 294 persons received burns and subsequently recovered. Out of the total deaths, 29 cases (18 females and 11 males) were of suicide.

Fire Loss—

The total loss due to fires was approximately Rs. 2,46,47,953/- out of this the damage to the insured property was Rs. 40,49,850/-. The total property involved was worth Rs. 146,12,76,578/-.

Water Supply—

The approximate quantity of water used for extinguishing fires was about 1,95,52,958 litres, out of which 1,38,11,984 litres were drawn from Municipal Mains and rest from sea, wells, ponds etc.

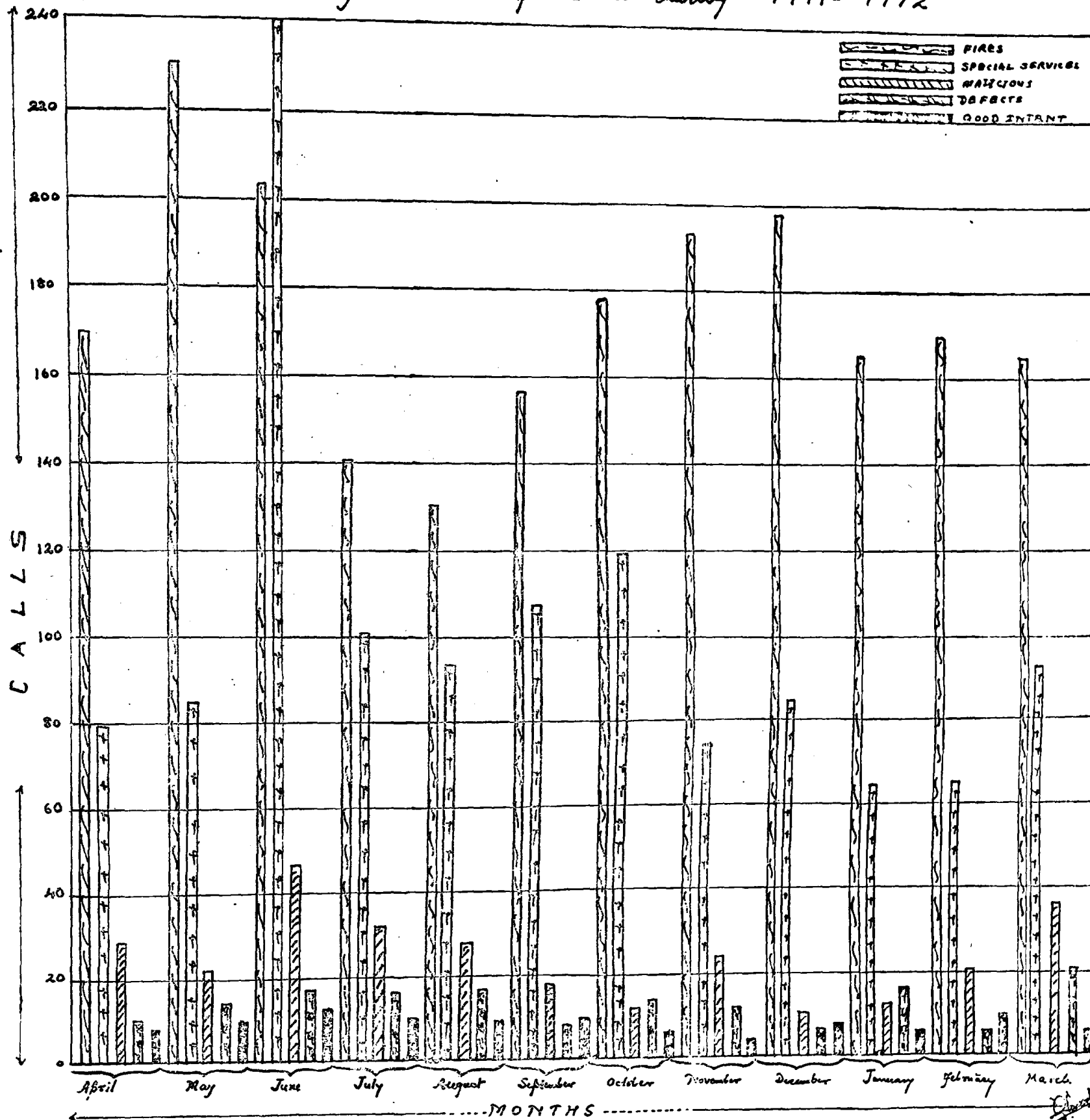
Hydrants—

The number of hydrants for City & Suburbs was—10,198.

Fire Prevention—

During the year under report 7,332 cases were received as against 8333 in the previous year. Out of these 7,098 cases were disposed of. The cases received included 5,471 cases from Municipal Department like Licence, Factory and Health, 399 cases for "No Objection Certificates" for building, 274 cases for "No Objection Certificates" for public entertainments, 100 cases for "No Objection Certificates" required by Commissioner of Police, Inspector of Explosives and Controller of Drugs, 426 cases of complaints and 371 miscellaneous cases including reminders.

Chart showing number of Calls during 1971-1972



Appendix No. II
BOMBAY FIRE BRIGADE

Summary of calls to Fires (including false alarms) showing the number of times appliances of the Fire Brigade attended and were extinguishing fires during the year 1971-72.

Sr. No.	STATIONS.	NUMBER OF FIRE ALARMS ATTENDED.	HOW CALLED					HOW ATTENDED											HOW EXTINGUISHED.											
			Municipal.	Private.	By Strangers.	By Fire Alarms.	Control Room.	Total.	STATION APPLIANCES			AIDING APPLIANCES.																		
Motor Pump carrying Eric pe or Ladder	Extension	Fire Unit							Escape	Extension	Motor Turn table Ladder.	Fire Unit.	Trailer Pumps.	Motor Emergency Tender.	Control Post	Fire Lorry	Sand.	Buckets.	Chemical Extinguishers.	Hand Pumps.	First Aid Appliances.	Hydrants.	N. o' Motor Pumps.	No of P's.	B.A Sets	Automatic Sprinkler heads	actual.	From Equipments.		
1	Colaba	9	2	12	21	75	95	22	49	3	35	12	12	2	4	1	3	6	...	18	26
2	Fort	17	8	14	37	227	278	225	37	32	10	6	...	11	7	11	...	9
3	Memonwada	30	2	27	243	418	688	500	232	...	140	45	15	25	...	16	7	...	90	29	8	...	13	1	42	70	...	...	...
4	Cowalis Tank	27	2	36	102	285	423	393	9	...	214	81	48	4	...	8	2	...	10	35	...	9	9
5	Byculla	19	5	49	137	189	375	346	119	...	56	18	2	11	...	14	3	2	5	3	6	...	22	...	25	24	...	...	...
6	Worli	10	...	39	90	179	308	287	...	72	45	143	2	4	...	7	3	3	60	55	102	...	49	29	34	85	...	12	...	
7	Dadar	24	2	16	85	285	385	350	161	...	92	68	4	6	...	3	2	...	...	...	76	...	26	16	24	34	3	...	...
8	Shivaji Park	13	26	87	126	...	121	4	46	6	...	1	6	1	5	...	3
9	Indira Dock	17	2	2	18	91	111	140	78	...	99	14	1	24	...	11	6	2	7	11	35	...	33	...	47	62	...	1	1	
10	Mandvi	12	1	13	62	98	173	149	...	...	92	18	11	...	...	5	5	3	20	17	3	...	22	...	33	...	...	...	...
11	Sewree	10	6	7	42	85	134	126	...	...	71	70	3	85	...	16	3	3	20	9	99	...	33	11	62	85	18	27	4
12	Andheri	10	...	20	20	469	509	...	415	78	4	82	...	14	...	11	3	...	42	51	112	...	39	5	80	127	...	...	...
13	Vikhroli	...	...	24	...	193	217	42	137	...	...	33	...	6	...	1	...	...	12	13	169	...	8	6	30	31	...	...	1
14	Chembur	...	...	26	1	128	155	...	162	...	4	10	...	...	...	6	...	...	3	1	...	...	11	...	6	19	...	...	1
	Total	185	30	258	684	2609	3979	2630	1453	157	935	642	108	132	4	105	37	13	282	2,9554	...	313	71	4.9	575	21	40	7		

Appendix No. III

Monthly summary of Fires and annual losses for the period from 1962-63 to 1971-72.

Year.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Total.	Estimated Loss.
1962-63	...	116	132	142	120	103	89	171	148	116	143	140	1,589	1,89,00,544
1963-64	...	169	149	155	122	107	140	157	160	184	210	170	1,828	73,25,612
1964-65	...	152	146	164	121	123	78	148	188	168	151	144	1,732	1,18,84,025
1965-66	...	154	154	139	148	116	115	151	170	133	156	145	1,752	11,12,000
1966-67	...	163	133	115	136	91	114	143	200	180	171	135	1,755	95,76,772
1967-68	...	156	151	204	150	117	124	181	228	147	185	149	1,756	1,59,72,216
1968-69	...	130	166	180	133	124	131	229	190	153	156	91	2,010	1,03,71,560
1969-70	...	123	174	153	143	101	140	140	168	181	145	123	1,747	2,00,85,438
1970-71	...	122	150	210	143	116	143	227	242	215	163	168	2,124	5,89,96,893
1971-72	...	170	229	212	141	130	157	177	193	197	174	169	2,114	2,45,47,953

APPENDIX No. I

BOMBAY FIRE BRIGADE

Brief details of serious fires during the year 1971-72.

Date and Time	Place	Business	Extinguished by	Damage	Estimated loss.
1	2	3	4	5	6
					Rs.
14-4-1971 1413 hrs.	Rammandir Goregaon Grass Yard, Goregaon (E), Bombay.	Dealers in hay bales.	Firemen with 11 lines of twelve motor pumps.	About 50,000 hay bales and eleven railway wagons, severely damaged by fire, heat, smoke and water on area about 400 x 100 mts. in Goregaon Grass Yard.	11,11,000
1-5-1971 0426 hrs.	Barge No. 5969, near 'C' Shed, Haji Bunder, M. S. R. Road, Bombay 15.	Ship Agents. Marine Ship-Contractor.	Firemen (B.P.T.) with one foam line and firemen (B.F.B.) with two motor pumps and sand.	Large stock of drums containing sodium hydro sulphite severely damaged by fire, heat, smoke and water. (ii) Wooden floor, bath boards, deck, hatch beams, crew, crew cabin and internal frame of the barge slightly damaged by Fire, heat, smoke and water.	1,12,000
5-5-1971 0345 hrs.	Bombay Timber Market, Signal Hill, Avenue Road.	Timber Market.	Firemen with 15 motor pumps & 12 engine lines.	Large stock of timber and ply-wood, machineries, spare parts, large stock of furniture, scrapped articles, packing material, stock of wire, electric motors, raw materials, finished goods, tools, machine oil, stationary office record etc., with all structures severely damaged by fire, heat, smoke and water.	2,00,000
9-5-1971 1510 hrs.	Chorpadev Cross Road No. 1 and 2, near Reay Road.	Workshop, Flour Mills, manufacturing wooden furniture and interior decoration, etc.	Firemen with 13 motor pumps & 16 engine lines.	Various types of machineries, large stock of timber, stock of stocks, khokas, empty gunny bags, hessian jutewine, office record, furniture in the open as well as in the sheds severely damaged by fire, heat, smoke and water. Series of ground floor structures area of about 60 x 45 mts. also severely damaged by fire, heat, smoke and water.	3,93,800
19-5-1971 0020 hrs.	Plot No. 3, Sewree X Road Sewree, Bombay 15.	Mfg. Bridging equipments, etc.	Firemen with 15 motor pumps & 8 engine lines.	Large stock of timber, wooden cases, bridging equipments, paper reels, corrugated papers, cardboard, machineries, artificial silk clothes, office furniture, electrical installations, stock of paints, few lcms, office record severely damaged by fire, heat, smoke and water in the various gales of ground floored structure with partly C. I. sheet, brick walled, timber framed area 91 x 60 mts. and in the open compound. Four hutments also involved.	11,02,000
18-6-1971 1741 hrs.	M. V. State of Assam (Culcutta) berthed at Alex. Docks, Shed No. 18.	Sea transport.	Firemen with 17 lines of 11 motor pumps.	Potassium permanganate of 20 tons, bicycle spare parts, C. P. goods, machinery, woolen hals, large stock of ground nuts in gunny bags and large stock of oil cakes in No. 4 and No. 5 holds severely damaged by fire, heat, smoke and water. Paint work of the ship also severely damaged.	1,10,000
22-6-1971 1622 hrs.	'D' Shed, Haji Bunder, M. S. R. Road.	Godown.	Firemen with sand.	About 3,900 drums of Sodium Hydro-sulphite severely damaged by fire, heat, smoke in a ground floored, brick walled, R. C. C. structure area 21.3/mts. x 10.5 mts. used as godowns only.	4,00,000
26-6-1971 1443 hrs.	Sainath Ind. Estate off Aarey Road, Goregaon (E), Bombay 63.		Died off itself.	Electric tempering furnace containing sodium nitrate, electrical controller, thermo couple, pyrometer, stock of raw material, few electric motors, and machineries furniture etc., textile looms damaged by explosion.	1,24,500
13-7-1971 1840 hrs.	Messrs. Sohan Industries, 322, Hamam Smith Industrial Est., Sitladevi Temple Road, Mahim.	Mfg. electrical chokes & printing press.	Firemen with 3 engine lines of two motor pumps and one first aid appliance.	Large quantity of fluorescent chokes, copper wires, raw material, machineries, exhaust fan, wooden furniture, electrical fittings, art papers, printing papers, books, record etc., severely damaged by fire, heat, smoke and water with doors, windows, walls ceiling plaster etc., of a five floored, R. C. C. building.	1,25,700

APPENDIX No. I—Contd.

Date and Time.	Place.	Business	Extinguished by	Damage	Estimate loss.
1	2	3	4	5	6
					Rs.
24-7(1971 1729 hrs.	Messrs. Trichem Laboratories Unit No. 11, Lalwani Industrial Estate, Bhandarkar Road, Dadar.	Mfg. Chemicals & printing press.	Firemen with six jets of four motor pumps and one T. T. L. monitor.	Large quantity of fine chemicals, wax, finished goods, laboratory equipments, machinery electrical installation, small quantity of papers, office furniture, record documents, etc., severely damaged by fire, heat, smoke and water with window, doors, ceiling plaster, beams on second floor of a four floored Industrial R. C. C. Building.	4,82,200
7-9-1971 (216 hrs.	Vaniara Building 14/22 Old Nagpada Road, Dongri.	Coir matting timber, etc.	Firemen with one first aid appliances and six pump.	Stock of cotton mattresses, cosmetics, oil drums, transport goods, coir palm tree mattresses spices, coir strings, broom sticks and such other commodities severely damaged by fire, heat, smoke and water in a godown situated in a two floored, brick walled building area about 15 x 12 metres.	3,72,000
22-11-1971 1658 hrs.	380, Jagannath Shankar Seth Road, Nana Shankar Seth Compound.	Printing press, plastic toys, etc.	Firemen by cutting off current, one first aid appliance and 3 motor pumps and two C. D. appliances.	Large stock of plastic goods, raw and finished goods, machineries, painting frames, hardware, timber sheets, wooden and steel furniture electric installation, office record, severely damaged by fire, heat, smoke and water with ground floored, A. C. Sheet structure.	1,52,000
5-12-1971 0345 hrs.	Shroff Market, Gokhale Roa (South).	Readymade garment.	Firemen with 6 engine lines of 6 motor pumps.	Various types of machineries, electric fans, irons, wooden furniture, readymade garments, clothes, bobbins, large quantity of thread, office record, electrical installation and partition with A. C. and wooden partition severely damaged by fire, heat, smoke and water with wooden flooring, doors, windows of the room area 24 x 12 mts.	1,01,000
14-12-1971 1104 hrs.	Carlie House, Chhatrapati Shivaji Marg.	Laundry, guest house and residential.	Firemen with 18 lines from 14 pumps.	The entire five floored, timber flooring ceiling, and staircase building was completely gutted by fire and collapsed leaving the four walls and windows, roof of the adjacent two buildings also severely damaged by fire, heat, smoke and water.	27,43,000
14-1-1972 2036 hrs.	State Bank of India Building, Madam Cama Road, Nariman Point.	Offices and Canteen	Two lines and one first aid line (foam fixed wet riser installation).	Air conditioning machines, office furnitures, few typewriters, costly floor carpets, paints, thinners painting on cloth, electrical fittings, electric lifts, telephones, with false ceiling, partitions, walls, window panes, etc., severely damaged by fire, heat, smoke and water on 8th floor to 21st floor of a twenty one storeyed R. C. C. building (with two basements) used as offices and canteens.	1,21,50,000
20-1-1972 2114 hrs.	New Cork Industry, Gala No. 5 and 8, Agadhi Ind. Estate, Building No. 2, Ram Mandir Road, Goregaon.	Mfg. Cork products.	Firemen and Home Guards with three motor pumps, four engine lines.	Two pulverising machines, one disintegrator machine, four sewing machines, and one stirrer slightly damaged, eight electric motors, eight starters and about 16 switches, electric installations, paint work of the wall ceiling scorched.	75,000
30-1-1972 1305 hrs.	L. B. S. Marg, Kanjur (West) Shri Hanuman Silk Mill Compound off Dockyard Colony.	Mfg. Corrugated board and boxes.	By firemen with seven engine lines of seven pumps.	Drums of Sodium Silicate, glue (about 4 each) large stock of paper rolls, machinery, slotting, punching, cutting etc., spare parts of machinery, weighting machine, furniture, electric installations and fixtures, finished and semi finished goods, currency notes, about 80 paper rolls damaged.	3,30,600
08-2-1972 1254 hrs.	Messrs. Bombay Soap Factory Maulana Azad Road, Maulana Cross Road.	Soap and Oil Factory.	Firemen with 7 engine lines with ten motor pumps.	Large stock of packing material wooden and plastic cases machinery, tools, wooden furniture, sign labels, oil cakes steel tanks, containing oil electric installation severely damaged by fire heat smoke and water with brick walls steel framed A. C. sheet roof, false ceiling of two floored building area 35 mts. x 25 mts.	2,25,000

APPENDIX No. I—Contd.

Date and Time.	Place.	Business	Extinguished by	Damage	Estimated loss.
1	2	3	4	5	6
					Rs.
18-2-1972. 2315 hrs.	Messrs. Hind Cycles Co. Ltd., Worli Road No. 11, Worli.	Bicycle Mfg.	Firemen with 7 pumps and with nine lines.	Spare parts, painting solution, oil tanks, mudguard of bicycle, tyres, machinery, painting booths, ducting, electric installations, empty tins, large quantity of paints, timber, varnished on ground floor severely damaged by fire heat, smoke and water with temporary structure of bamboo and windows of a three floored building area 100M. x 50 Mtrs.	1,35,000
15-3-1972. 0230 hrs.	145, Sherif Devji St.	Codowns.	Firemen with 11 jet engine lines of 9 motor pumps.	Idols of plaster of paris, packing material plastic goods glass ware, cutlery goods, transporting goods, office furniture, drums of dyes, etc., severely damaged by fire, heat, smoke and water with portion of roof trusses, walls, woodn loft and electric installations of a two floored building area about 40 mts. x 10 mts.	1,44,000
20-3-1972. 1955 hrs.	Chaturbhui, Padia Compound, Irani Wadi, Hernu Kalam Road No.4, Kandivli (W) Bombay.	Mfg. paints, etc.	Firemen by 5 engine lines of two motor pumps and one trailer pump.	Large quantity of paints, thinners, varnish, lacquer, synthetic anamal, Rasion, Pigments, pests, MKid Rosins solution, MC lacquer, Acetone, Butile acetone, in tins, office furniture, account files, books, vessals, filter, cloth finished screens, Nvlone and terene cloth, wodden frames, Nichorome wires, enamel wires, fuse wire, plastic mounds, brass bell covers, transformers, moulding machine, furniture, cutting pressing machine dyes, etc.	1,25,000

Appendix No. II
BOMBAY FIRE BRIGADE

Summary of calls to Fires (including false alarms) showing the number of times appliances of the Fire Brigade attended and were extinguishing fires during the year 1971-72.

Sr. No.	STATIONS.	NUMBER OF FIRE ALARMS ATTENDED.		How CALLED		How ATTENDED														How EXTINGUISHED.										
						STATION APPLIANCES				AIDING APPLIANCES.																				
		Municipal.	Private.	By Strangers.	By Fire Alarms.	Control Room	Total.	Motor Pump-carrying Fire engine/Ladder	Extension	Fire Unit	Escape	Extension	Motor Turn Table Ladder.	Fire Unit.	Trailer Pumps.	Motor Emergency Tender.	Control Post	Hose Lorry	Sound.	Buckets.	Chemical Extinguishers.	Hand Pumps.	First Aid Appliances.	Hydrants.	N. of Motor Pumps.	No. of fire.	H.A. Sets	Automatic Sprinkler heads attended.	Foam Equipment.	
1	Colaba	9	2	12	21	75	95	22	49	3	35	12	12	2	4	1	3						6		13	26				
2	Fort	17	8	14	37	227	278	25			37	32	10			6		11	7			11		9						
3	Mumambada	30	2	27	243	418	688	50	232		140	45	15	25		16	7	90	29	8		13	1	42	70					
4	Cowada Tank	27	2	36	02	255	423	393	9		214	81	48	4		8	2		10			35		9	9					
5	Byculla	19	5	49	157	189	375	346	119		56	18	2	11		14	3	2	5	3	6		22		25	24				
6	Worli	10		39	90	179	308	287		72	45	43	2	4		7	3	3	0	55	102		49	29	34	85		12		
7	Dadar	24	2	16	85	285	386	350	161		92	68	4	6		3	2				76		26	16	24	34	3			
8	Shivaji Park			13	26	67	125		121	4	46	6		1					6	1		5			3					
9	Inchra Dock	17	2	2	18	91	111	140	78		99	14	1	24		11	6	2	1	11	35		33		47	62		1	1	
10	Mandvi	12	1	13	62	98	173	149			92	18	11			5	5	5	20	17	3		22		33					
11	Sewree	10	6	7	42	85	134	26			71	70	3	35		16	3	3	2	9	99		33	11	62	85	18	27	4	
12	Andhera	10		20	20	469	509		415	73	4	22		14		11	3		4	51	112		39	5	30	127				
13	Vikhroli			24		193	217	42	137			33		6		1			12	15	19		8	6	30	31				1
14	Chembur			25	1	128	155		162		4	10				6			3	1		11		6	19					1
	Total	185	30	258	684	2809	3979	2630	1433	157	955	642	108	132	4	105	37	13	282	29554		313	71	49	575	21	40	7		

Appendix No. III

Monthly summary of Fires and annual losses for the period from 1962-63 to 1971-72.

Year.	April	May	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Total.	Estimated Loss.
1962-63	116	132	142	120	103	89	171	148	116	143	140	169	1,589	1,39,08,544
1963-64	169	149	155	122	107	146	157	160	184	210	170	143	1,328	73,25,612
1964-65	152	146	164	121	123	78	148	188	158	151	144	149	1,732	1,19,84,025
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	120	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	91	127	2,010	1,03,71,560
1969-70	123	174	153	143	101	140	140	168	181	145	123	156	1,747	2,00,85,478
1970-71	122	150	210	143	116	143	227	242	215	163	168	220	2,124	5,39,56,893
1971-72	170	229	212	141	130	157	177	193	197	174	169	165	2,114	2,43,47,953

APPENDIX No. IV
BOMBAY FIRE BRIGADE

Types of Rescue	In Fires	In accidents.	Total
(1) Number of persons rescued alive with burns and/or injuries and subsequently recovered	291	530	821
(2) Number of persons rescued alive with burns and/or injuries but subsequently died	32	172	204
(3) Number of human lives lost before arrival of the Brigade ...	11	54	65
(4) Number of casualties amongst Fire Service Personnel ...	7	17	24
(5) Number of animal lives rescued ... ..	...	111	111

APPENDIX No. V
BOMBAY FIRE BRIGADE

Fire Risk Covered :

(a) Textile, Woollen, Silk and artificial Silk (Rayon etc. Mills)	181
(b) Ginning Mills ... ..	...
(c) Cotton Presses	14
(d) Oil Mills	28
(e) Petrol and Oil Storages and refineries	189
(f) Match factories, fireworks and explosives manufacturers	16
(g) Explosives stores	20
(h) Processes involving dangerous petroleum products	5
(i) Cinematograph films, Celluloid Plastics and Bakelite Works	276
(j) Timber and wood working paper manufacture	284
(k) Chemical Works	160
(l) Gas and Electricity Undertaking	88
(m) Docks, Railways, Air-Port installations	19
(n) Warehouses, Goods Yards, Goods Sheds	330
(o) Manufacture of Rubber Goods	235
(p) Manufacture of other goods	526

Water Facilities :

(1) Hydrants and approximate capacity	10,371
(2) Water ponds	377
(3) Refilling Places	29
(4) Wells, Rivers and Canals	855
(5) Other facilities like static tanks, storage tanks, etc.	111

AND
Sea Water
around the
island of
Bombay.

APPENDIX No. VI

Brief details of Serious House Collapses during the year 1971-72

Date and Time	Place	Business	Casualties		Details
			Death	Injury	
12-4-1971 1613 hrs.	55-57,59, 2nd Bhoiwada	Private.	1	1	The entire rear portion of a six floored, brick walled timber framed, pitched roof structure had collapsed injuring two women. Two injured women were rescued from debris, rendered first aid and they were removed to hospital where one woman was declared as dead.
17-5-1971 1426 hrs.	Gansahab Stable, Bellasis 271/273, Bellasis Road.	Stable.	5	26	Entire ground floor shed having tiled roof and timber framed structure, area about 60 x 18 metres had collapsed and 31 persons and four horses were trapped under the debris. Out of thirty one five persons died on the spot. All trapped persons and horses were rescued from debris and removed to hospital.
21-6-1971 0728 hrs.	99-Dholandas Terrace, August Kranti Marg.		8	2	Bath room, W.C. and bed room, common passage portion of a five floored building had collapsed buried 8 persons under debris. Five persons were stranded on 2nd, 3rd and 4th floor. Buried persons rescued by pitching ladders. Eight dead bodies were taken out after clearing the debris.
23-6-1971 0909 hrs.	Fida Building, 4 Bibijan Street, Nagdevi Street.		1	13	The Southern portion of all the four floored building had collapsed. While the operation of removing debris was in progress the hanging portion of the building gave way buried 14 firemen under the debris. All injured persons were extricated from the debris rendered first aid and they were removed to hospital. Out of 14 one was died immediately in the hospital.
6-8-1971 1612 hrs.	Sarsafali Mohmadi Building, No. 2, 38 Pais Street, Jn-Musa Kiledar Street.		1	...	The rear side portion of four floored building had collapsed. One lady was trapped under the debris. The tenants, stranded on 2nd and 3rd floor were rescued by removing the debris and removed to hospital after rendering first aid where she was declared as dead.
9-8-1971 1935 hrs.	Pannalal Chawl, 315/317, Falkland Road.	...	2	4	Entire front portion from ground floor to second floor of a three floored building in the South East corner gave way trapping underneath the debris four persons and injuring other two. The trapped persons were rescued by firemen and removed to hospital. Two women died after admission.
20-9-1971 0335 hrs.	Lodge Building, 199, P. D'Mello Road.		22	20	Entire western portion of a five floored building had collapsed trapping number of persons. Crews of appliances deployed to remove the debris to ascertain and to locate the trapped persons. The dangerous hanging portion was pulled down. All injured persons were rendered first aid and they were removed to hospital where twenty two persons were declared as dead.
21-11-1971 1713 hrs.	Oberoi Hotel, Nariman Point.	...	...	17	Centering and scaffolding of the floor under construction (First Floor) of a multi-storeyed building had collapsed. Four persons were rescued by workers and they were removed to hospital.

MUNICIPAL GARDENS

The Department maintains 265 sites consisting of 132 gardens big and small, 97 playgrounds and open spaces of various sizes, 18 gardens attached to the Municipal Buildings, 18 traffic islands gardens. Besides, 4 box hedges, 7 statues and 8 band stands in City, Suburbs and Extended Suburbs were also maintained.

Area	Garden	Play ground	Garden attached to Municipal buildings	Traffic Islands	Fountains	Band Stand	Hedges	Statues
1	2	3	4	5	6	7	8	9
City	72	92	10	16	8	6	3	6
Suburbs	45	4	4	2	1	1	1	1
Extended Suburbs	15	1	4	—	—	1	—	1
Total	132	97	18	18	9	8	4	7

Veer mata Jijabai Bhoale Udyan continued to remain an attraction to the visitors of Bombay. The area under flower beds was increased the plot at South-West corner was converted into a Rose Garden and a water cooler was provided to give cool drinking water for the public. The deer and entelope enclosures were land scaped by providing lawns.

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

The cages, fencings and water tanks of the Zoo were repaired and painted wherever necessary. Animals and birds were added to the Zoo according to the requirements.

2 Sambras, 1 Deer, 3 German Wild Boars, 1 Tibetan Goat, 23 Pigeons, 2 Doves, and 25 Sussex Bantam Fowls were born in the Zoo during the year under report.

2 Lions, 2 Monkeys, 1 Jungle Cats, 1 (Four) Horned Antelopes, 1 Camel, 119 Birds and 6 Reptiles were purchased.

The Zoo supplied about 625 laboratory animals such as Guineapigs, Mice, Rats etc. various Medical colleges and other Research Institutes.

On the request of the custom authorities, the Zoo looked after 6 confiscated Pandas for 40 days. The Zoo also took care of 2 Lions and 7 Elkphants belonging to private owners during the year under report.

Description	For display	Laboratory Animals.
(1) Mammals	181	288
(2) Birds	747	...
(3) Reptiles	45	...

Increase/Decrease during the year

Description	Mammals	Birds	Reptiles	Laboratory Animals.
(1) Born	11	50	...	643
(2) Sold	...	16	...	623
(3) Fed to snake	...	14	...	434
(4) Destroyed	...	...	...	...
(5) Exchanged	...	...	...	...
(6) Presented	2	2	3	195
(7) Purchased	10	119	6	...

Open Air Theatre

The open air theatre was hired out to the public on reasonable rent on 89 occasions during theyear under report for dramas, social gatherings and Tamashan etc. and it is becoming populer day by day.

S. K. Patil Udyan.

The work of painting of railings and play apparatus have been completed and the garden is maintained very well and was used fully throughout the year by the residents from Girgaum and Kalbadevi area. The existing fountain was modified and arrangements for colour changing device for the illumination of the fountain is made.

Jawaharlal Nehru Udyan at Sion Hill Fort.

Land scape garden and fountain with water fall are the main attractive features of Jawaharlal Nehru Udyan at Sion Fort Hill.

The Lions Park at Juhu and Kurla are the main attractions on the western suburbs and eastern suburbs and have been provided with modern type of play apparatus.

Rotary Municipal Children's Park at Khar Danda is beautifully laid out with lawns, trees and flower beds besides various play apparatus. A Mini-Train in the garden is the major attraction for the children of suburbs and City.

The newly constructed fountains at Mancherji Joshi Udyan, Parsi Colony, Rajawadi Garden, Chhatkopar and Mazgaon traffic island provide beautiful sites at night with arrangements for colour changing devices for the illumination of the fountains.

A new garden known as "Rock Garden" has recently been developed behind Mulbar Hill Garden. The lay-out of the garden is designed in the shape of different sizes of fishes and land-scaped by providing groups of trees, shrubs etc. besides lawns, flower beds and rockeries.

Sir Phirozshah Mehta Garden, Kamala Nehru Park and Joseph Baptista Gardens are beautifully laid out and are the major attractions for the local as well as foreign visitors.

The hedges in the central divider at Netaji Subash Road were replanted a number of times as they were damaged by the pedestrians-trampling them under their feet when they were unable to cross over the fencing. Ultimately the barbed wire fencing had to be provided from the top of chain link fencing to bottom of the hedge bed. The hedges have now come up.

The ornamental railings, lights and pathways were provided in many gardens and playgrounds in City, Suburb and Extended Suburbs.

Conducted Games.

The basket ball tournaments, & football tournaments were conducted at 2nd Peerkhan Street Municipal Playground, Mastan Talao Playground and Reynolds Road Playground. Maharashtra State Women's Council were given all the facilities to conduct directed games in our gardens and playgrounds for the benefit of local children.

Municipal grounds and open spaces were also given to many schools and other institutions for physical training, annual sports and tournaments.

2000 plants were distributed free of cost to various schools, private housing society and government Dept. for planting in their premises.

In the garden competitions arranged by the "Friends of the Trees" and "Rotary Club of Mulund" a number of prizes were given to the Municipal Garden thereby showing their standard of maintenance and upkeep. The 1st and 2nd prizes for the best gardens were awarded to Phirozsha Mehta Garden and Veermata Jijabai Bhosle Udyan. Besides, we got a number of other prizes for gardens attached to Housing Colonies, Hospital etc. we also got 1st and 2nd prizes for the best trees.

J. C. GARKHEL, B.Sc. (Hons.) Agri.
Superintendent of Gardens.

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Suburbs	45	4	4	2	1	1	1	1
Extended Suburbs	15	1	4			1		1
Total	132	97	18	18	9	8	4	7

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(7) Purchased	10	119	6	...

Open Air Theatre

The open air theatre was hired out to the public on reasonable rent on 89 occasions during the year under report for dramas, social gatherings and Tamsaha etc. and it is becoming popular day by day.

MUNICIPAL FREE READING ROOMS & LIBRARIES

Out of 24 Municipal Free Reading-rooms and Libraries 18 Municipal Free Reading Rooms & Libraries were managed by the Mumbai Marathi Granthsangrahalaya on the revised terms and conditions as per the agreement executed on 11-8-1971 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 and 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 AND LIBRARIES					
	City		Suburbs		Extended Suburbs	
	1970-71	1971-72	1970-71	1971-72	1970-71	1971-72
Books purchased	343	291	276	162	...	...
Cost of the books	...Rs. 1,926	Rs. 1,650	Rs. 1,522	Rs. 995	...	...
Books received as donation	... 1 £	Nil	...	...	...	...
Number of visitors	... 74,660	74,336	17,412	15,336	...	...
Income including grant-in-aid received from the Government	... Rs. 754	Rs. 13,889	Rs. 652	Rs. 3,620	...	...
Grant-in-aid received from the Government	... ..	...	...	...	...	...
Expenditure excluding grant paid to the Mumbai Marathi Granthsangrahalaya	...Rs. 62,012	Rs. 66,230	Rs. 9,618	Rs. 11,696	...	...
* Grant paid to the Mumbai Marathi Granthsangrahalaya	...Rs. 27,250	Rs. 1,68,000	Rs. 4,000	Rs. 24,000	Rs. 4,000	Rs. 24,000

£. Book presented by Messrs. Purchase Prakashan.

* Grant was paid during 70-71 up to October 1970 as the revised agreement was to be executed.

V. N. BARVE
for Chief Librarian.

CENTRAL STORES

A broad outline of work handled during the year under report by each of the six Purchase sections is given below :—

Serial No.	Purchase section	Purchase Section						Total
		1	2	3	4	5	6	
1	Tenders invited	71	42	106	45	50	34	348
2	Quotations invited	60	25	33	10	12	16	156
3	Contracts awarded	110	49	53	48	48	63	371
4	Purchase orders placed	700	103	769	1,071	15	292	2,975

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	... Rs. 18,90,326.68	Rs. 52,39,177.32	...
Average stock level in terms of months consumption	... 2.794 months	6.610 months	...

During the year under report, 491 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 28 cases, risk and cost purchases were made, and in 8 cases, tender or contract deposits were wholly or partly forfeited. In addition, to this, in cases where the suppliers failed to supply the materials within the stipulated delivery period, penalties were recovered from their bills.

(2) **Bills and Accounts.**— During the course of the year, 3,692 bills were received, 31,223 indents were executed, and 281 take notes 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. 41,047.77 and obsolete and surplus materials valued at Rs. 11,223.58 were disposed off by sale.

(4) **Operational cost.**— Total expenditure of the Controller of Stores office was about Rs. 5,68,758 during the year under report. The major items of expenditure will be (a) Establishment (33 clerical and 35 labour staff) Rs. 4,57,133/-; (b) Advertisements Rs. 42,624/-; (c) Printing and Stationery Rs. 18,916/-; (d) Miscellaneous expenditure including rent, taxes, service charges, etc., Rs. 34,621/- and (e) Maintenance and repairs to buildings and sheds Rs. 15,464/-.

Total revenue of Rs. 26,230.69 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 1971-72

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 1971.	51,07,585.30	19,58,754.57	Nil	70,66,339.87
Value of stores received including transfers during 1971-72 ...	97,73,838.76	79,81,168.10	Nil	1,77,55,005.86
Total ...	1,48,81,424.06	99,39,922.67	Nil	2,48,21,346.73
Less—Value of stores issued including transfer during 1971-72 ...	95,10,654.52	81,18,023.97	Nil	1,76,28,678.51
Balance on 1st April 1972 ...	53,07,769.54	18,21,898.68	Nil	71,29,668.22
Average Annual Inventory ...	53,39,177.32	18,90,326.62	Nil	71,29,504.04
Ratio of average inventory level to average monthly issue	6.610	2.794	Nil	4.833

K. S. PESINA,
Controller of Stores.

APPENDIX "O"

Statement "B" showing the details of stock held on 31st March 1971 and 1972 at Central Stores.

Particulars	Balance on 1-4-1971		Receipt during the year 1971-72		Total		Issued during the year 1971-72		Balance on 1-4-1972		Average monthly consumption		Average Inventory level in terms of months		
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	
CAPITAL ACCOUNT															
(1) Cement	35,323.65		15,98,840.90		16,34,164.55		13,66,525.82		2,67,638.73		1,51,481.19		1,13,877.15	1.330	month.
(2) C. I. Pipes, Manholes, Hydrants Water and Drainage castings, etc.	42,48,860.83		61,50,827.27		1,03,99,688.10		61,67,622.32		42,32,065.78		42,40,463.35		5,13,968.53	8.250	..
(3) M. S. Round Bars, Flats, Plates, C. I., G. I., Black Sheets, S. P. Tanks, etc.	1,30,303.31		6,03,799.77		7,34,103.08		4,53,538.34		2,80,564.74		2,05,434.03		37,794.86	5.435	..
(4) Pipes, Stoneware and Hume	9,054.64		29,484.79		38,539.43		30,633.05		7,906.38		8,480.51		2,552.75	3.322	..
(5) Calvd. Pipes and Fittings	3,79,508.38		9,81,977.64		13,61,486.02		10,53,444.23		3,08,041.79		3,43,775.09		87,787.02	3.915	..
(6) Lead Pig and Lead Wool and Lead Pipes	2,99,804.3		4,08,652.64		7,08,513.07		4,36,695.27		2,71,817.80		2,85,839.12		36,391.27	7.854	..
(7) Asbestos sheets, Pipes and fittings	4,674.06		255.75		4,929.81		2,195.49		2,734.32		3,704.19		182.96	20.246	..
LINE SUSPENSE ACCOUNT															
(8) Water Works Castings on the line			Nil						Nil						..
GENERAL ACCOUNT															
(9) Spindle Brass and Fittings	2,54,441.54		1,23,164.65		3,77,606.19		3,11,595.69		66,010.50		1,60,226.02		25,966.31	6.170	..
(10) Meter Parts	Nil		Nil		Nil		Nil		Nil		Nil		Nil	Nil	..
(11) Bolts, Nuts, Rivets, Nails, Washers and Hardwares, etc.	64,901.59		3,25,585.46		3,90,487.05		2,77,335.91		1,13,151.14		89,026.37		23,111.33	3.852	..
(12) Brooms, Coa. Date and Brushes	41,716.28		1,28,912.45		1,70,628.73		1,62,338.70		8,290.03		25,003.16		13,528.23	1.848	..
(13) Cables and Wires	41,196.41		81,236.73		1,22,433.14		87,322.85		35,110.29		38,153.35		7,276.90	5.243	..
(14) Elec. accessories, bulbs, fans, Electrodes, Dry Cells, etc.	1,19,354.39		5,54,486.54		6,73,840.93		5,53,127.33		1,20,713.60		2,16,034.00		46,093.94	4.686	..
(15) Files and Rasps	3,909.87		7,085.69		10,995.76		7,514.76		3,481.00		3,695.44		626.23	5.901	..
(16) Oil Castors, Coconut, Sweet, Kerosene, Grease, Lubricating, etc.	23,616.90		3,26,777.66		3,50,394.56		3,34,894.72		15,499.84		19,558.37		27,907.89	0.701	..
(17) Timber, ladders, shaft Bhandiwood, Nowghani Poles, Plywood Sheets, etc.	3,435.84		15,104.76		18,540.60		17,156.56		1,384.04		2,409.94		1,429.71	1.686	..
(18) Clothing	6,76,700.21		22,14,088.03		28,90,788.24		23,44,826.66		5,45,962.18		6,11,331.20		1,95,402.17	3.129	..
(19) Disinfectants, Tropical Chloride, Cleaning Powder, etc.	57,934.69		5,21,827.68		5,79,762.37		5,27,549.93		52,212.44		55,073.57		43,962.49	1.253	..
(20) Tools, Machinery, Foot rules, spanners, drills, saws, Auger screws, etc.	23,560.22		1,53,304.86		1,76,865.08		1,30,753.13		46,111.95		34,836.09		10,896.09	3.197	..
(21) Soap and Soda	45,629.55		4,62,569.07		5,08,198.62		4,55,104.58		53,094.04		49,361.80		37,925.38	1.302	..
(22) Baskets, Cane, Bamboo and Wooden	8,807.10		4,40,650.17		4,49,457.27		3,75,155.17		74,302.10		41,554.60		31,262.93	1.329	..
(23) Buckets, Dust-bins, Ghamellas Enamelware, Hurricane Lanterns Glassware, etc.	1,91,210.28		3,75,067.60		5,66,277.88		4,84,529.43		81,748.45		1,36,479.36		40,377.45	3.380	..
(24) Hose rubber, belting canvas	85,834.16		3,26,509.64		4,12,343.80		3,42,621.81		69,721.99		77,778.08		28,551.82	2.724	..
(25) Wires, Brass Rods, Copper Sheets zinc sheets, etc....	1,51,684.46		5,85,717.12		7,37,401.58		3,95,114.42		3,42,287.16		2,46,985.81		32,926.20	7.501	..
(26) Leather Hides, Chamois, Chappals Plungers, Boots and Other leather articles	9,620.81		1,51,083.49		1,60,704.30		1,22,530.21		38,174.09		23,897.45		10,210.85	2.340	..
(27) Coir goods, cotton goods, yarn spun, waste cotton, packing asbestos etc.	39,877.10		2,21,064.95		2,60,942.05		2,17,909.92		43,032.13		41,454.62		18,159.16	2.283	..
(28) Paints, Powders, Linseed Oils and Turpentine	43,554.08		2,78,676.23		3,22,230.31		2,81,968.46		40,261.85		41,907.97		23,497.37	1.784	..
(29) Loets of sorts	41,442.97		61,265.87		1,02,708.84		79,950.76		22,758.08		32,100.53		6,662.56	4.818	..
(30) Miscellaneous articles (Polish), Candles, Glue, Gum, Tiles, Powras, Showcls, Typewriters, etc.	30,326.12		6,26,989.25		6,57,315.37		6,08,723.59		48,591.70		39,458.95		50,726.97	0.778	..
Total	70,66,339.87		1,77,55,006.86		2,48,21,346.73		1,76,28,678.51		71,92,668.22		71,29,504.05		14,69,056.52	4.853	

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, 313A, 314, 328 and 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 the 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 Section 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 unauthorized 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 5326 auction sales of the articles seized by the encroachment removal staff but not redeemed by the parties were held, out of which 1557 were in respect of non-perishable goods and 3769 in respect of perishable goods. Amount of Rs. 56531 was realised as auction sale proceeds as against Rs. 29,555.00 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 year is shown in Appendix 'D'.

(5) Prosecution

During the year under report, 4038 prosecutions were launched for the offences against the provisions of Section 394, 412A, 328 and 328A of the Bombay Municipal Corporation Act. The details thereof along with the details of the preceding two years are given in Appendix 'E'.

SHOPS AND ESTABLISHMENTS SECTION

This Section administers Bombay Shops and Establishment 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 Establishment 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 preceding year and under report is shown in Appendix 'H'.

Financial.—The Government sanctioned a total grant-in-aid of Rs. 2,93,384 for the year 1971-1972 as part of expenditure towards administration of the Bombay Shops and Establishments Act 1948, during the year 1970-71. Out of the above grant, a share of Rs. 2,26,632 was allocated for City (Budget 'A' Division I) Rs. 43,401 for Suburbs (Budget 'A' Division II) and Rs. 23,351 for Extended Suburbs (Budget 'A' Division III). The income by way of registration etc., fees for the year 1971-72 was Rs. 3,49,895.67 for City, Rs. 69,683.15 for Suburbs and Rs. 36,496.37 for Extended Suburbs. The figures of income for the previous year were Rs. 2,40,981.82, Rs. 58,452.34 and Rs. 31,781.25 for City, Suburbs and Extended Suburbs respectively. The expenditure on account of the administration of the Bombay Shops and Establishments Act 1948 and Payment of Wages Act 1936 during 1971-72 was Rs. 4,43,274.71 for City, Rs. 1,67,281.94 for Suburbs and Rs. 84,981.04 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, 2 cases were filed under the Act out of which one has been decided and one is pending at the close of the year.

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	4,771	1,349	574
Commercial Establishments	2,113	223	312
Restaurants and Eating Houses	478	285	217
Theatres	66	40	12
Total	7,428	1,897	1,115

As a result of intervention of the Inspector of this—Section, an amount of Rs. 51,992.97 was distributed to 815 employees from City, Rs. 5,439.35 to 38 employees from Suburbs and Rs. 6,547 to 15 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.

Workmens Compensation Act 1923.—During the year under report, no establishments were visited for the above purpose.

(6) Mass Raids.

During the year 19 Mass Raids were taken and the results thereof 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 1972 as per the usual practice.

APPENDIX 'A'

Statement showing the No. of licences and permits issued and fees recovered in the years 1969-70 to 1971-72.

Particulars	NO. OF LICENCES AND PERMITS									AMOUNT OF FEES REALISED								
	CITY			SUBURBS			EXTENDED SUBURBS			CITY			SUBURBS			EXTENDED SUBURBS		
	1969-70	1970-71	1971-72	1969-70	1970-71	1971-72	1969-70	1970-71	1971-72	1969-70	1970-71	1971-72	1969-70	1970-71	1971-72	1969-70	1970-71	1971-72
(1) Commodities and trades including milk and its products (Section 394 and 417 A) ...	38,604	42,709	43,194	12,567	14,895	16,650	5,807	6,643	6,531	25,76,146.82	27,45,276.00	28,31,515.00	9,70,787.26	10,07,925.00	9,97,592.00	6,37,233.99	7,85,455.00	5,70,917
(2) Blowing steam whistle (Section 393) ...	32	52	50	33	33	38	11	11	16	975.00	1,005.00	1,298.00	1,403.35	1,390.00	780.00	360.00	355.00	669.00
Total ...	38,636	42,761	43,644	12,600	14,928	16,688	5,818	6,654	6,547	25,77,121.82	27,46,281.00	28,32,453.00	9,72,190.61	10,09,315.00	9,98,372.00	6,37,593.99	7,85,810.00	5,71,586.00
(3) Transfer of fees (Section 394 and 412 A) ...	976	1,018	829	269	438	210	135	297	148	9,999.50	11,240.00	12,733.00	2,792.50	3,925.00	3,473.00	1,383.00	1,590.00	1,718.00
Grand Total ...	39,632	43,779	44,473	12,869	15,366	16,898	5,953	6,951	6,695	25,87,121.32	27,57,521.00	28,45,186.00	9,74,983.11	10,13,240.00	10,01,845.00	6,38,976.00	7,87,400.00	5,73,304.00

APPENDIX 'B'

Statement showing the number of Hawkers Licences issued and amount of fees collected during the years 1969-70 to 1971-72

Description.	Year.	No. of Licences issued.			Amount of fees collected.		
		City.	Suburbs Suburbs.	Extended	City.	Suburbs	Extended Suburbs.
(1) Squatter's fees collected in the reserved areas (under Sec. 313).	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	6310	222	11,85,452.00 (Total revenue of Items 1 & 2)	2,16,270.00	177,232.00
	1971-72	56,127	74,52	193	11,83,169.00 (Total revenue of Items 1 & 2)	2,54,249.00	1,03,661.00
(2) Fees received from itinerant hawkers licences (under Section 313A).	1969-70	13,935	5,109	184	11,83,169.00 (Total revenue of Items 1 & 2)	51,144.90	17,695.50
	1970-71	14,789	5,735	207	...	57,260.00	22,435.00
	1971-72	14,871	5,635	199	...	55,470.00	10,895.00
Total of Items 1 and 2	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	11,85,452.00	2,73,530.00	39,667.00
	1971-72	70,998	13,087	297	11,83,169.00	4,09,719.00	1,23,556.00
(3) Recovery of expenses under 1969-70 Section 490 for removal of Encroachments under Section 314.	1969-70	...	...	...	3,06,835.05	70,343.50	19,597.00
	1970-71	...	...	...	3,73,145.00	72,135.00	21,470.00
	1971-72	...	...	...	...	...	...
Final Total	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
	1971-72	70,998	13,087	297	...	...	...

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 1971-72.

Description.	Year.	No. of Licences issued.			Amount of fees collected.		
		City.	Suburbs	Extended Suburbs.	City.	Suburbs	Extended Suburbs.
					Rs.	Rs.	Rs.
		27,854	1,582	482	15,01,200.00	72,642.00	14,850.00

APPENDIX 'D'

Statements showing the number of permits for advertisements issued and amount of fees collected during the year 1969-70 to 1971-72 under Section 328, 328A.

Particulars	NUMBER OF ITEMS									AMOUNT OF FEES (INCLUDING COMPOSITION)								
	CITY			SUBURBS			EXTENDED SUBURBS			CITY			SUBURBS			EXTENDED SUBURBS		
	1969-70	1970-71	1971-72	1969-70	1970-71	1971-72	1969-70	1970-71	1971-72	1969-70	1970-71	1971-72	1969-70	1970-71	1971-72	1969-70	1970-71	1971-72
									Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	
(1) Wall posters, headings and boards ...																		
(2) Movable boards and handcars ...																		
(3) Illuminated advertisement skysigns ...	7,218	7,183	4,816	1,872	1,907	919	387	423	178	13,31,843.40	13,75,897.00	18,71,697.00	2,49,488.54	2,52,531.00	3,12,738.00	44,564.45	47,322.30	48,250.00
(4) Non-illuminated sky-signs ...																		
(5) Wall Paintings ...																		
6) Ground rent ...																		
Total ...	7,218	7,183	4,816	1,872	1,907	919	387	423	178	13,31,843.40	13,75,897.00	18,71,697.00	2,49,488.54	2,52,531.00	3,12,738.00	44,564.45	47,432.00	48,250.00

APPENDIX—'E'

Statement showing the number of prosecutions launched during the years 1969-70 to 1971-72.

Year	Offence under Section	No. of cases remaining undischarged			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	
1969-70	394	425	608	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	87,548.00	79	9	7	1,507	745	616	
1971-72	...	1,507	745	616	2,171	1,407	480	470	466	76	939	448	196	1,77,400.00	97,995.00	40,435.00	39	49	8	2,230	1,189	816	
1969-70	32FA 326B	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	...	598	929	30	1,027	488	51	626	613	10	281	94	17	1,684	975	535	6	3	1	712	707	53	
1971-72	...	712	707	53	576	157	132	285	125	23	140	42	08	3,050	990	170	5	...	...	857	687	114
1969-70	313(1)	...	...	4	594	169	62	67	...	8	299	39	15	4,725.00	535.00	310.00	...	...	...	211	70	49
1970-71	...	211	70	49	107	72	47	91	61	52	213	45	21	3,930	740	...	...	...	...	14	36	17
1971-72	...	14	36	17	537	02	13	93	416	...	5	9604	...	20	105	13	29	36	14

APPENDIX 'F'

Category	City	Suburbs	Extended Suburbs
Shops	60,335	21,002	9,224
Commercial Establishments	31,376	3,660	3,859
Residential Hotels	322	81	24
Restaurants and Eating Houses	5,573	2,063	908
Theatres etc.	82	26	13
Total ...	97,688	26,832	14,028

APPENDIX 'G'

No. of complaints	City	Suburbs	Extended Suburbs
Pending at the close of the previous year	51	9	1
Received during the year	1,005	304	109
Investigated during the year	967	304	109
Pending at the end of the year	89	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				
City									Rs.	Rs.	
1970-71 ...	3,764	6,596	6,604	28	9	...	6,641	3,719	2,36,861	35.87	
1971-72 ...	3,719	5,392	5,466	10	10	...	5,486	3,625	2,12,107	38.84	
<i>Suburbs</i>											
1970-71 ...	853	1,858	1,254	9	1	...	1,264	1,427	45,360	36.17	
1971-72 ...	1,427	1,544	1,693	4	16	...	1,713	1,258	62,250	37.35	
<i>Extended Suburbs</i>											
1970-71 ...	220	887	837	...	...	...	837	270	24,405	26.77
1971-72 ...	270	470	588	6	...	...	594	146	19,635	33.99

APPENDIX 'I'

Complaints	City	Suburbs	Extended Suburbs
Pending at the close of the previous year	2	3	...
Received during the year	136	77	25
Disposed of during the year	135	78	24
Pending at the end of the year	3	2	1

APPENDIX 'J'

Complaints	City	Suburbs	Extended Suburbs
Pending at close of the previous year	2	...	...
Received during the year	99	4	...
Investigated during the year	100	4	...
Pending at the end of the year	1	..	...

APPENDIX 'K'

Statement showing the results of 19 mass-raids taken during the year 1971-72.

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	2,066	434	109	273
2	313	488	341	11	135

Under Section 328 and 328A.

1. Total No. of advertisements detected: 551

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: (282), 22 Loaded hand-carts, 16 Empty handcarts, and other item 244 & metal scrap 34,061 Kg.

APPENDIX 'L'

	City	Suburbs	Extended Suburbs
Shops and Establishments Act
Minimum Wages Act

MARKETS DEPARTMENT

(CITY)

Dr. D. M. Bailur, B.Sc. (Vet), M.R.C.V.S. continued to hold the office of the Superintendent of Markets and Slaughter Houses till 10-6-1971, on promotion of Dr. Bailur as General Manager (Deputy Director). Dr. R. D. Dabholkar, B.Sc. (Vet), M.Sc. was looking after the post of the Superintendent of Markets and Slaughter Houses till 24-2-1972. Shri A. N. Sabnis B.E. Civil, M.E. (P.H.), A.M.I.E. (India) was appointed as Ward Officer Markets and was in charge of the Department.

(1) **Markets.**—In all there were 46 markets in the city 32 Municipal and 14 Private Markets (licenced by the Municipal Corporation of Greater Bombay). The licence fees received from the owners of these private markets amounted to Rs. 95,961 as against Rs. 93,660 during the previous year.

(2) **Outside shops.**—There were 199 (195 meat and 4 fish stall) outside shops in the City licenced by the Municipal Corporation in addition to meat and fish stalls in Municipal and Private Markets for sale of mutton, beef, pork and fish. The licence fee realised was Rs. 19,600. In all 102 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. 9,700.

(3) **Scale shed.**—During the year under report the total fee collected at the Scale shed, Mahatma Jyotiba Phule Market amounted to Rs. 16,12,016 as against Rs. 13,87,516 during the previous years.

(4) **Fish season.**—During the year under report the total quantity of fish brought to the Market was about 56,919 metric tons as against 32,932 metric tons during the previous year. The arrival of fish was normal 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° and one for vegetable etc. at 35°F to 40°F.

The plant is worked by the FREON 12 system with four wasting House condensing units and direct expansion coolers (OZONE Generator for de-odourising and disinfecting 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	
	1970-71	1971-72	1970-71	1971-72
	Kgs.	Kgs.	Rs.	Rs.
Fish	8,80,700	1,29,640		
Fruits & Vegetables	18,70,400	9,61,500		
Mutton	2,36,400	1,24,335	34,570.00	17,330
Eggs	4,90,800	33,244		
Milk and Milk products	1,10,800			

(6) **Receipts.**—The total receipts during the year amounted to Rs. 98,41,659 as against Rs. 97,00,657 during the previous year.

(7) **Stalls and spaces in Markets.**—In all markets in the City there were 4821 regular stalls provided for sale of different commodities such as flowers, fruits, vegetables, fish, mutton, beef, pork, poultry, eggs, etc. The stalls continued to be well occupied throughout the year. In addition to these regular stalls there were about 409 spaces in the Municipal Markets in the City provided for persons doing day to day business. Spaces provided for on daily payment basis also were continuously occupied throughout the year.

(8) All Markets including private Markets were regularly supervised. The Veterinary Officers and qualified Public Health (Sanitary) Inspectors carried out the work of inspection of articles of food, such as meat, fish, fruit, vegetables, etc. with a view to prevent the exposure of unwholesome food article for sale of human consumption. During the year under report 3,15,984 kilogram of unwholesome food articles in the aggregate were destroyed.

(9) **Surprise Raids.**—Surprise raids to detect the smuggling and unauthorised slaughter of animals and also the import and sale of contraband meat were carried out by the staff specially appointed for this purpose. During the year 42695 kilograms of contraband meat was seized and destroyed. In all 1290 seizures were effected in different parts of the city and 1123 prosecutions were instituted. The fine imposed amounted to Rs. 41,889. The amount realised by selling seized animals and skin etc. was Rs. 8,357. In addition to this an amount of Rs. 1,160 was recovered by way of penalty from different parties, who were found importing animals into the city without requisite permits.

SLAUGHTER HOUSES

(10) Two main Municipal Slaughter Houses viz. one at Bandra for slaughter of Horned cattle, buffaloes, sheep and goats and other at Sane Guruji Marg for Slaughter of pigs were continued to be operated during the year except the Pig Slaughter House at Sane Guruji Marg which was shifted to Deonar from 16-8-1971. 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 licenced by the Corporation was also in operation upto 12-1-1972 and shifted to Deonar from 13-1-1972. The revenue derived from the source amounted to Rs. 27,88,266 as against Rs. 28,06,068 during the previous year.

Licence granted for slaughtering of frogs at Dharavi was further renewed during the year in only one case.

(11) The number of animals brought to the fair ground at Bandra Slaughter House and at Pig Slaughter House at Sane Guruji Marg and the number of animals slaughtered at both the places were as under:—

Animals brought to the fair ground at Bandra Sl. House and Pig Sl. House at Sane Guruji Marg						
Year	Buffaloes	Horned Cattle	Sheep & Goat	Pigs	Piglings	
1970-71	11,612	72,160	21,99,285	10,439	67	
1971-72	12,822	81,803	22,65,395	13,166	71	

Animals Slaughtered						
Year	Buffaloes	Horned Cattle	Sheep & Goats	Pigs	Piglings	
1970-71	11,488	71,586	13,31,804	10,186	63	
1971-72	12,569	80,492	13,85,471	12,681	71	

(12) Government Veterinary staff as usual inspected the horned cattle and buffaloes in the slaughter house as per the provisions of the Animal Preserving Act. Animals intended for slaughter were subjected to proper ante-mortem and post-mortem inspection by qualified Veterinary staff. Unwholesome meat detected was seized and destroyed by the staff of the Slaughter House.

(13) The principle causes of ante-mortem rejection of animals were Emaciation, Exhaustion, Pregnancy, sheep-pox footrot, Actinomycosis, Lenkemia, Osburn'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.

(14) The main causes of post-mortem condemnation were cysticercus bovis, liver fluke, Abscesses, Bruises, Strangitis, Hydatidosis and other parasitic and Nodular infections of liver and lungs. The causes for rejection of pigs were tuberculos, cysticercus, Cellulosal, Bruises, Hydratodosis etc.

(15) The approximate weight of dressed carcass meat of buffaloes and cattle was 10,713 metric tons, that of sheep and goats 1366.7 metric tons and that of pigs 381 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 37.6 metric tons of beef, 18.7 metric tons of mutton and 8.2 metric tons of pork, which worked out to 0.38, 1.37 and 2.12 per cent. respectively of the total meat.

(16) Immunization of cattles and dogs is being done by a band of Veterinary staff specially appointed for the purposes. Hitherto this unit was attached to the department of Head Supervisor. However the said unit has been taken over by the Market Department from 1-4-1971.

During the year under review 202 dogs and 33040 milch cattles were immunized. The work was carried out at 10 centers. There were 24 suspected cases of Rinderpest during stable inspection. The curative and prevention treatment to animals is also continued at the Khar Veterinary dispensary.

(17) Lectures and Demonstrations on food inspection, Meat Hygiene etc. were given to Medical and Veterinary students of different Medical and Veterinary Colleges and also to the students preparing for Public Health Inspectors Examination from Municipal Corporation of Greater Bombay and Local Self Government Institute.

(18) Seth Vithaldas Gopaldas Vora Private Market at Grant Road has been taken over by the Corporation from 21-12-1971.

DEONAR ABATTOIR

All the Units of the New Abattoir at Deonar have been commissioned during the year under report as mentioned below:—

Pig Unit	—	16-8-1971
Cattle Unit	—	9-1-1972
Jhatka Unit	—	13-1-1972
Sheep Unit	—	14-3-1972
Jewish Unit	—	14-3-1972

This is the first modern Abattoir in the City and the largest in Asia, where all kinds of food animals are slaughtered by observing different rituals at a centralised place. These units are housed in separate buildings with all modern amenities. The entire abattoir area covers 126 acres of land. Of this, 82 acres are developed for (1) Slaughtering Units (2) Livestock Market shed and (3) Grazing yard. The capacities of various units are as under:—

(1) Cattle Unit	—	300 animals in 6 hours' shift.
(2) Main Sheep & goat unit	—	6000 sheep and goats by Halal method in six hours' shift.
(3) Jhatka unit	—	100 sheep and goat in 6 Hours' shift.
(4) Jewish unit	—	200 sheep and goats and 4 cattle heads in 6 hours.
(5) Pig unit	—	100 pigs in 6 hour's shift.

Arrangements have also been made to slaughter the animals in emergency. In addition to the above units, dry rendering plant is provided near the slaughtering units, where all the waste from slaughter house and bones, horns, hooves etc. will be rendered fully. The capacity of the rendering plant is 10 tons in 6 hours. In addition to this there is also blood rendering unit where entire blood of all the animals slaughtered at Deonar Abattoir can be rendered into blood powder. Special Waste Treatment and recovery Plant is also provided at this Abattoir, where paunch contents and floor washings of the slaughtering units of all the animals will be treated properly and inedible fat will be recovered before further disposal of the floor sweepings.

Air-conditioned hanging halls and cold storage with chillers and freezers have been provided so as to enable the licensees to keep the left-overs or excess carcass in proper condition and to increase the keeping quality of the carcasses till they are transported.

Spacious Water Pumping Station comprising of six pumps for supply of nearly 33,000 gallons of water per hour for domestic, industries and fire-fighting purpose is provided at Deonar Abattoir.

Three buildings for accommodating Offices of Dalals and Shroffs and one building for canteens both Vegetarian and Non-Vegetarian have been provided at this Abattoir. Spacious unloading platform where 20 trucks can at a time unload animals is provided with proper ramps so that the animals may not have to jump from the trucks and thus saved from unnecessary injuries and ill-treatment.

Separate holding pens are provided near the respective slaughtering units, where the animals can be kept prior to slaughter.

Livestock Market for sheep and goats and for cattle are under construction and will be ready soon.

Resting ground for animals brought for slaughter covering an area over 32 acres of land is provided at Deonar Abattoir just near the unloading platform where all the necessary amenities are being provided.

Due to opening of the Abattoir the private Jhatka Slaughter House for slaughter of animals by Jhatka method, the Municipal Pig Slaughter House, the Municipal Cattle Slaughter House at Kurla and the slaughtering chambers attached to Municipal Market and number of private slaughtering chambers in Kurla area were closed down.

The Municipal Slaughter House at Bandra for slaughter of horned cattle, sheep and goats continued to be operated during the year.

For the first time, the slaughtering operations were done by the butchers absorbed in the Municipal Services. This will be one of the land-marks in the history of the Corporation. The slaughter house workers who were either working in different Municipal slaughter houses as the servants of the licensed shopkeepers/stallholders or doing the work on contract basis under licence from the Municipal Corporation, were very poorly paid and since absorbing in Municipal services, they are now getting regular wages and also enjoying various benefits of Municipal services including that of leave, pension and medical treatment etc. etc.

Dr. V. Periyar, C.B.V.C. was appointed as the first General Manager of the Abattoir from 14th January 1971. On his superannuation, Dr. D. M. Bailur, B.Sc., M.R.C.V.S., is appointed as General Manager from 10-6-1971, who continued to hold the office of the General Manager during the year under report.

Sri V. B. Shirodkar was appointed as Executive Engineer (Maintenance) for Deonar Abattoir during the year under report and he continued to hold that office throughout the year.

This Abattoir is constructed by Messrs. W. J. Powell Co. (Australia). Messrs. Steel Plant Private Ltd. were their counter-parts in India. Machinery worth Rs. 36 lakhs was only imported while the rest worth Rs. 66 lakhs was manufactured indigenously by Messrs. Steel Plant Pvt. Ltd. At the time of commissioning, services of Australian experts were assigned just for a period of a month. Since their departure after trial slaughters, the entire slaughtering operations are being manned fully by the Municipal Officers mentioned above.

The inauguration of the Abattoir was performed by the Mayor Dr. Hemchandra Shankar Gupta on 12th February 1972 under the presidency of Sri G. B. Dutia, Chairman, Markets and Gardens Committee.

APPENDIX 'A'

Statement showing the receipts under different terms during the year 1971-72 and the previous year.

Serial No.	1970-71	1971-72
	Rs.	Rs.
(1) Stallages	29,26,754	27,70,639
(2) Squatter fee	18,99,725	19,75,469
(3) Admission fee collected at Bandra Slaughter House	7,93,259	7,24,640
(4) Slaughter and removal fee collected at Bandra Slaughter House, Sheep Market at N. M. Joshi Marg and Pig Sl. House	19,53,350	20,08,284
(5) Licence fee collected from stalls and shops in Municipal Markets	19,404	21,050
(6) Licence fees for doing different type of business at Bandra Sl. House	32,838	26,477
(7) Licence fees from Private Markets Owners	93,660	95,961
(8) Licence fees from firms dealing in foreign frozen fish and imported meat, ham, bacon and sausages etc.	10,150	9,700
(9) Licence fees from outside meat shops	19,400	19,600
(10) Licence fees from Butchers in Private Markets	6,937	7,850
(11) Licence fees from Kamatrees, slaughters etc. in Pig Sl. House and Jhatka Slaughter House	1,235	1,350
(12) Licence fees from Brokers in different Municipal Markets	1,91,812	2,42,637
(13) Scales fees at Mahatma Jyotiba Phule Market	13,87,516	16,12,016
(14) Sale of right of blood at Bandra Slaughter House	23,386	25,515
(15) Sale of right of removing bone pieces at Bandra Slaughter House	2,000	2,000
(16) Nokarnama fees	4,454	4,284
(17) Cold Storage fees	34,570	17,330
(18) Law charges	136	60
(19) Ground Rent	80,888	72,437
(20) Chawl Rent	74,645	55,095
(21) Miscellaneous	1,44,538	1,49,265
Grand Total	97,00,657	98,41,659

STATEMENT 'A'

Animals brought during 1971-72 at Deonar Abattoir					Animals slaughter during 1971-72 at Deonar Abattoir				
Buffaloes	Bullocks	Sheep & goats	Pigs	Piglings	Buffaloes	Bullocks	Sheep & Goats	Pigs	Piglings
1484	346	6894	9353	43	1484	346	6845	9057	42

STATEMENT 'B'

Total Revenue collected at Deonar Abattoir during 1971-72

	Rs.
(1) Fair fees	3,984.15
(2) Slaughter fees	74,591.45
(3) Licence fees	270.50
(4) Service charges for slaughtering of Animals	63,357.80
(5) Miscellaneous Receipts	11,321.90
Total	1,53,525.80

The names and qualifications of the Head of Departments who held the post during the year.

Sri M. G. Talim continued to hold the office of the Assistant Superintendent of Markets (Subs) till 22-9-1971.

From 23-9-1971 an additional post of Assistant Superintendent of Markets was filled in and each of the Assistant Superintendent of Markets was in charge of Western and Eastern Suburbs respectively.

Sri M. G. Talim continued to hold the office of the Assistant Superintendent of Markets (Western Suburbs) from 23-9-1971 to 26-1-1972, the date of his retirement.

Sri Sk. Yunus Sk. Ahmed was appointed as Assistant Superintendent of Markets (Eastern Suburbs) from 23-9-1971 and was incharge till 10-10-1971.

Sri N. V. Prabhu was appointed as Assistant Superintendent of Markets from 1-11-1971 and was holding the post during the year.

Sri M. L. Naik was appointed as Acting Assistant Superintendent of Markets from 25-10-1971 to 30-11-1971 and then again from 27-1-1972 and was holding the post during the year.

(SUBURBS)

(1) **Markets.**—There were 21 Municipal Markets and 2 Private Markets in the Suburbs during the year 1971-72.

(2) **Outside Shops.**—There were 266 outside meat shops in Suburbs (175 for sale of mutton, 79 for beef and 12 for pork) Licenced by the Corporation during the year under report. Besides, 71 licences were issued to private parties for sale of refrigerated fish, 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 antemortem 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
1970-71	7,166	827	2,07,300	7,160	827	2,07,180
1971-72	6,620	687	1,54,365	6,614	685	1,54,365

The approximate weight of dressed meat of buffaloes and horned cattle was 1384.25 Metric tons and that of sheep and goats was 1543.65 Metric tons.

The total meat destroyed at Kurla Slaughter House was 2944 Kgs. during the post mortem examination. The Kurla Slaughter House is now closed and shifted to Decnar Abattoir from 9-1-1972.

The unwholesome articles of food such as fish, fruits, vegetables, meat etc. weighing 19 metric tons were destroyed during the year in different markets.

The total meat destroyed was 15.049 metric tons as against 11.275 metric tons during the last year.

In all 327 raids were carried out for detecting unauthorised slaughter of animals in the Suburbs. In all 290 cases were filed in which 270 accused were convicted and find. The amount of fines inflicted during year was Rs. 11,111.00.

The total amount realised in auction sale of confiscated animals and sale of skins etc. was Rs. 5,564.99

The following improvements were made in Municipal Markets and slaughter houses during the year under report:—

Special Repairs

- (1) Snow-cem washing, painting, distempering etc. at Santacruz Market.
- (2) White washing, oil painting and snow-cem to Kherwadi Market.
- (3) Oil painting to wood and Iron work of roof of fish section of Andheri Market.
- (4) Consolidation of flooring of animal shed at Chembur Naka Market.
- (5) Repairs to fish platform at Pali Market.
- (6) Replacement of C. I. Sheets of stalls Nos. E-7 to E-12 at Andheri Market.
- (7) Construction of collapsed portion of Ghatkepar Veg. Market.
- (8) Repairs to window panes and providing weather shed in fish and mutton sections at Bandra Town Market.
- (9) Replacement of C. I. Sheets, roofing of Veg. section and between mutton and beef section at Bandra Town Market.
- (10) Repairs to fish section at Santacruz Market.
- (11) Rewiring of fish section at Santacruz Market.
- (12) Oil painting to Kurla Slaughter House.
- (13) Replacing C. I. Sheet of roof and providing compound wall at Takia Market.

New works

- (14) Providing storage tank near washing place of Veg. section at Khar Market.
- (15) Extension to Inspector's chowky at Andheri Market.
- (16) Providing Tea stall at Pali Market.
- (17) Construction of Market (Temporary) at Navalkar's plot at Jogeshwari.
- (18) Construction of wooden stalls at Khar Market.
- (19) Providing permanent weather sheds at Khar Market.

Statement showing the receipts under different items during the year 1971-72.

Serial No.	Particular	Amount received 1970-71	Amount received 1971-72
(1)	Stallage charges	4,31,079.19	4,43,378.01
(2)	Squatters' fees	3,92,586.83	4,14,731.19
(3)	Slaughter fees	7,76,706.50	5,19,229.50
(4)	Miscellaneous Receipts	38,925.94	39,821.41
(5)	Licence fees	42,344.40	40,776.35
(6)	Share of enhanced entrance fees	1,25,126.05	1,18,922.05
(7)	Rent	—	973.77
	Total	18,06,768.91	15,77,832.28

(EXTENDED SUBURBS)

(1) **Markets.**—There were in all 10 Municipal Markets including 3 open Air Markets and 5 Private Markets licensed by the Corporation.

(2) **Outside shops.**—There were 98 outside meat shops during the year. Out of which 88 were mutton shops, 8 for beef shops and 2 for sale of refrigerated pork and pork products. Besides 28 licences were issued to private parties for sale of refrigerated fish, mutton, beef, pork and pork products by the Corporation.

(3) The slaughtering of animals (sheep and goats) was done at the slaughtering chambers attached to Borivli, Kandivli and Mulund Markets; and at private markets at Goregaon and Malad. The total number of animals brought for slaughter at the Municipal slaughtering chambers during the year was 41,517. The total number of animals slaughtered was 41,415 as against 44,995 slaughtered in the previous year.

During the year 34 Kgs. beef, 877 Kgs. mutton, 2017 Kgs. fish, 1557 Kgs. vegetables and 1043 Kgs. fruits were destroyed on inspection in the market.

In all 7 raids were carried out for detecting unauthorised slaughter and sale of animals in the Extended Suburbs during the year. In all 7 cases were filed and 5 resulted in conviction. Total fines inflicted were Rs. 350. Besides, 99 Kgs. of meat was seized and destroyed as unwholesome during the year.

The following improvements were made in Municipal Markets and slaughtering houses during the year under report :—

SPECIAL REPAIRS

- (1) Oil painting to fish and mutton sections at Mulund Market (East).
- (2) Oil painting to Veg. Market, Mulund (West).
- (3) Concreting passages in Veg. Market at Mulund (West).
- (4) Consolidation of surrounding and providing cement concrete to raise the washing place for Veg. stalls and providing water storage tank at Sainath Road Market, Malad.
- (5) Repairs to Municipal Market Bldg. and post office at Goregaon Market.
- (6) Providing and laying hard set dry rubber packing around fish Market and the passage leading from pucca road to Fish Market at Sainath Road Market.
- (7) Repairs to Dixit Bungalow at Sainath Road Market.

NEW WORKS

- (8) Construction of Insp's. chowky with store room at Veg. Market, Mulund (West).
- (9) Construction of compound wall at Mulund fish Market (East).
- (10) Providing water pump and storage tank at New Borivli Market.
- (11) Providing sheds for Veg. and fish squatters at Mulund (East) Market.

Statements showing the receipts under different items during the year 1971-72.

Serial No.	Particulars	Amount received during 1970-71	Amount Received during 1971-72
(1)	Stallage charges	2,18,074.98	2,45,874.07
(2)	Squatters' fees	2,02,129.05	2,41,006.72
(3)	Slaughter fees	25,917.00	1,34,864.00
(4)	Miscellaneous Receipts	3,266.50	3,931.21
(5)	Licence fees	17,757.10	18,319.55
(6)	Rent	—	4,060.54
	Total	4,66,244.63	6,48,056.09

A. N. SABNIS,
Ward Officer (Markets).

MUNICIPAL PRINTING PRESS

Shri A. G. Hemmadi was incharge of the Press during the year 1971-72.

During the period under report 470½ Metric tons of paper was purchased from the market 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	1970-71		1971-72	
	Jobs	Pages	Jobs	Pages
Departmental Printing ...	10183	...	9333	...
Departmental Stationery ...	1357	...	1521	...
Private Parties Printing ...	26	...	37	...
Private Parties Stationery ...	5	...	5	...
B. E. S. & T. Undertaking Printing...	5	...	10	...
Corporation & its Committees ...		32514		33341E
Corporation Record ...		8956		3202M 9909
	11576	41470	10906	46452

The total quantity of paper consumed during the year under Report was 417½ metric tons as against 384½ metric tons and 394½ metric tons in the preceding two years.

Description of paper	1969-70		1970-71		1971-72	
	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. 2.17	277½	Rs. P. 2.35	244½	Rs. P. 3 15	251½
Badami	1.81	7½	1.84	15½	2 31	24
Other kinds	2.56	109½	2.64	124½	3 28	142
		394½		384½		417½

Transaction of the Press of the year closed with working surplus of Rs 7,4,009 on the total turnover of Rs. 35,63,775 as against deficit of Rs. 2,26,688 (1969-70) and surplus of Rs. 59,416 (1970-71) on turnover of Rs. 26.54 lacs and Rs. 33.05 lacs respectively for the previous two years.

The work carried out through Outside Agencies was worth Rs. 28,002 as against Rs. 39,137 for the previous year.

The Press has started the work of Corporation, L. R. G. P. and Markets, etc., Committees in Marathi Letter Press with the existing staff and machinery in the year under report.

The number of labour staff responding to Incentive Bonus Scheme is 69 as against 72 for the previous year.

The labour staff as on 29th February 1972 consisted of 308 workers as against 270 workers on 28th February 1970 and 295 workers on 28th February 1971. The Press is working in two shifts and the Press Labour relations were in grievance cordial as their grievancies were redressed on the spot wherever practicable.

A. G. HEMMADI,
Officer on Special Duty,
Municipal Printing Press.

MUNICIPAL PRINTING PRESS
Profit and Loss Account as at 31st March 1972

EXPENDITURE	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<i>Dr.</i>								
<i>Materials—</i>								
Paper, etc., stock at the beginning	1,25,142.72							
Do. Add Purchases	15,26,563.73							
Do. Outstanding Liabilities	1,27,704.62							
	17,79,411.07							
Do. Deduct stock at the end	4,16,133.78	13,63,310.29						
Ink stock at the beginning	862.56							
Do. Add Purchases	2,772.11							
Do. Deduct stock at the end	3,674.67	3,038.74						
	595.93							
Binding Materials stock at the beginning	22,922.13							
Do. Add Purchases	83,449.03							
Do. Outstanding Liabilities	6,387.05							
Do. Deduct stock at the end	1,12,722.22	80,296.97						
	32,455.25							
Mono Metal stock at the beginning	1,32,818.44							
Do. Deduct stock at the end	1,26,177.52	6,640.92						
Lino Metal stock at the beginning	1,31,942.00							
Do. Add Purchases	8,400.00							
	1,40,342.00							
Do. Deduct stock at the end	1,33,324.90	7,017.10						
Materials Non-consumable and Books and								
Dead Stock balance as per last year	1,45,355.40							
Do. Add Purchases	8,705.96							
	1,54,061.36							
Do. Deduct Stock at the end	1,31,586.85	22,504.51	14,82,808.53					
Outwork		26,301.22						
Do. Outstanding Liabilities		1,703.36	28,001.58					
Wages		10,60,112.30						
Do. Outstanding Liabilities		2,50,000.00	13,10,112.30					
<i>Departmental Expenses—</i>								
Rent	4,350.00							
<i>Repairs and Maintenance—</i>								
(a) Building	1,639.40							
(b) Machinery	2,976.57							
Do. Outstanding Liabilities	8,421.95							
Lighting	10,544.00							
Do. Outstanding Liabilities	2,859.60							
Gas Charges	3,758.57							
Do. Outstanding Liabilities	347.29							
Electric Charges	13,447.63							
Do. Outstanding Liabilities	5,713.65							
Debit Charges	2,07,743.65							
Depreciation	111.26	2,79,922.57						
<i>General Expenses—</i>								
Staff Salaries	3,01,927.10							
Outstanding Liabilities	700.00							
Provident Fund, Pension, etc.	40,404.99							
Contingencies (Miscellaneous)	32,693.82							
Do. Outstanding Liabilities	14,932.16							
Telephone Charges	6,471.55							
Do. Outstanding Liabilities	641.00							
Advertisement Charges	3,354.20							
Printing	7,792.71							
Stationery	773.33							
Do. Outstanding Liabilities	31.95							
Transport Charges	21,248.73							
Do. Outstanding Liabilities	2,352.00							
Private Works	25,763.56	4,58,587.10	7,38,509.67					
			35,59,432.08					
			74,008.55					
Net Surplus			36,33,440.63					
							36,33,440.63	

MUNICIPAL PRINTING PRESS
Balance Sheet as at 31st March 1972

LIABILITIES	Rs.	P.	Rs.	P.	ASSETS	Rs.	P.	Rs.	P.	Rs.	P.
CAPITAL—					(1) Plant and Machinery purchased out of Surplus Cash Balance					5,544	00
(1) Advances from the Surplus Cash Balance	5,544	00			(2) Plant & Machinery purchased out of Net Premiums Fund			1,68,221	12		
(2) Advances from Net Premiums 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) Do. Out of Special Fund			1,81,685	55		
(5) Advances from Special Funds	1,81,685	55			(6) —Do—			7,134	37		
(6) —Do—	7,134	37			(7) —Do—			415	00		
(7) —Do—	415	00			(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		
(8) Advances from Capital Works—Loan Funds, I.—General Supervision, Collection of Revenue, Item No. 7, Conversion of Crusher Godown at Carnac Bridge	5,06,193	65			Do. Books and Dead Stock			11,640	38		
(9) —Do—	1,09,122	24			Do. Cost of Crusher Building			4,47,771	85		
(10) Advances from Plant & Machinery Depreciation Fund.	1,39,669	10			(10) Plant and Machinery Purchased out of Capital Works—Loan Funds P. & M. Fire & Accident Insurance Fund			51,881	44		
(11) Advances from Capital Works—Loan Funds—Plant and Machinery to be purchased out of Fire and Accident Insurance Fund	51,881	44			(11) Plant and Machinery purchased out of Capital Works—Loan Funds P. and M. Fire and Accident Insurance Fund			97,107	17		
(12) —Do—	97,107	17			(12) —Do—			2,49,116	21		
(13) —Do—	2,49,116	21			(13) Plant and Machinery purchased out of P. & M. Depreciation Fund			1,39,669	10		
(14) Advances from Sundries-Miscellaneous Advances	1,11,100	39			(14) Plant and Machinery purchased out of Sundries Miscellaneous Advances			1,11,100	39		
(15) Advances from Plant & Machinery to be purchased out of Special Fund Item No. 10	1,39,800	00			(15) Plant & Machinery purchased out Special Fund Item No. 10			1,39,800	00		
(16) Advances from Plant & Machinery proposed to be purchased from Special Fund Item No. 1	1,50,697	24			(16) Plant and Machinery purchased out of Special Fund Item No. 1			1,50,697	24		
	19,89,633	98			Less—Depreciation upto 31-3-1972			19,89,633	98		
Less Amount Repaid	10,91,450	76	8,98,173	20	Work in Progress			10,91,460	78	8,98,173	20
					Stock of Paper, etc....			7,05,092	45		
					Mono Metal—Balance as per last year	1,32,818	44				
					Do. Less written off	6,640	92	1,26,177	52		
					Lino Metal—Balance as per Last year	1,31,942	00				
					Do. Additions during the year	8,400	00				
						1,40,342	00				
					Less—Written off	7,017	10	1,33,324	90		
					Materials Non-Consumable—						
					Balance as per last year	1,23,147	53				
					Less—Written off	17,857	98	1,05,289	55		
					Books and Dead Stock—						
					Balance as per last year	22,237	87				
					Do. Additions during the year	8,705	96				
						30,943	83				
					Less—Written off	4,646	53	26,297	30		
					Bills due from Departments	34,62,592	22				
					Do. Private Parties	6,872	23	34,69,464	45		
Outstanding Advances as on 31-3-1972			50,15,798	13						50,15,798	13
			59,13,971	33						59,13,971	33

A. G. HEMMADI,
Officer on Special Duty,
Municipal Printing Press.

K. E. M. HOSPITAL, PAREL BOMBAY-12.

MEDICAL RECORD DEPARTMENT

SUMMARY OF THE ANNUAL ADMINISTRATION REPORT OF K. E. M. HOSPITAL AND SETH G. S. MEDICAL COLLEGE

The Annual Administration Report of the K. E. M. Hospital and Seth G. S. Medical College for the year 1971-72 is summarised as follows:—

		HOSPITAL				
L—Expenditure						Rs.
(A)	1. Amount spent on In-patients	...	...	...	...	1,63,91,635.00
	2. Amount spent on Out-patients	...	...	...	...	31,60,574.00
	3. Total Expenditure excluding New Works	...	...	...	...	1,95,52,219.00
	4. Expenditure on New Works.	...	...	...	...	2,43,105.00
(B)	1. Average Cost per Patient per day	...	...	...	...	24.34
	2. Average cost per In-patient admission.	...	...	...	...	270.17
	3. Average cost per Out-patient Attendance	...	...	...	...	4.21
	4. Average cost per Out-Patient Admission	...	...	...	...	8.34
II.—Results						
(A)	1. Schedule Bed Strength	...	...	...	...	1,450
	2. Daily average In-patients in Wards	...	...	...	...	1,847
	3. Total number of admission including those brought over from the previous year	...	...	...	...	61,840
	4. Total number of patients discharged					
	(i) as Cured	...	...	...	...	50,308
	(ii) left Against Medical Advice	...	...	...	...	5,524
	(iii) Expired	...	...	...	...	4,461
	(iv) Remained in the hospital on the last day of the year	...	...	...	...	1,547
	5. Average stay of In-patients	...	...	...	...	11.1
(B)	1. Total number of New Out-patients Admissions	...	...	...	...	3,78,013
	2. Daily average number of Out-patients (New)	...	...	...	...	1,240
	3. Total number of Out-patients (New and Old)	...	...	...	...	7,55,180
	4. Daily average number of Out-patients attendance. (Old and New)	...	...	...	...	2,476
	5. Total number of Casualty Attendance (Medico-legal).	...	...	...	...	38,778
(C)	1. Total number of Operations on In-patients	...	...	...	...	26,331
	2. Total Number of Operations on Out-patients	...	...	...	...	42,879
(D)	Confinements					
	1. Booked Cases	...	...	...	...	4,293
	2. Emergency Cases	...	...	...	...	488
						4,781
	3. Normal	...	...	...	...	3,998
	4. Abnormal	...	...	...	...	783
						4,781
	5. Neonatal & Maternal Deaths	...	...	...	...
	(i) Maternal Deaths	...	...	...	...	26
	(ii) Neonatal Deaths	...	...	...	...	166
	(iii) Still births	...	...	...	...	179
	(iv) Premature life born infants	...	...	...	...	168
III.—Specialised Treatment						
	1. Artificial Kidney Department—Total number of dialysis	...	...	...	...	412
	2. I. C. C. U. Ward—Total number of Adm.	...	...	...	...	885
	Resuscitation from Cardiac Arrest	...	...	...	...	170
	3. Open Heart Surgery	...	...	...	...	19
	4. Neuro-Surgery (i) Total Operations	...	...	...	...	930
	(ii) Rediological Investigations	...	...	...	...	1,398
	5. Sterilization—					
	Male	...	...	...	...	354
	Female	...	...	...	...	1,022

IV.—Radiology.

1. Total X-Rays taken at K. E. M. Hospital	...	43,503
C. V. T. C.	...	6,436
Orthopaedic Centre	...	30,518
2. Diagnostic Radiology	...	2,604

V.—Blood Bank.

1. Total number of Blood Sample collected		
(i) From Voluntary Donors	...	6,911
(ii) From Relative Donors	...	2,014
(iii) From Professional Donors	...	2,630
(iv) From other hospitals	...	698
	Total :	12,251
2. Number of Bottles supplied	...	12,154
3. Total amount spent from Poor Box Charity Fund on payment to the Professional Donors and other incidental charges	...	31,380.00

VI.—School Clinic

(A) 1. Total number of School Children treated	...	
(i) New	...	2,189
(ii) Repeat	...	20,370
(iii) Referred	...	2,616
	Total	25,175
(B) Total Expenditure on Clinic	...	69,433.00

VII.—Physio Therapy.

(A) 1. Total number of attendance at the Centre—Out-patients	...	6,356
In-patients	...	12,743
2. Total number of treatments given		
Out-patients	...	63,9781
In-patients	...	1,92,080
(B) 1. Students admitted in School during the year	...	40
2. Total number of students in the School	...	66
3. Students graduated during the year	...	36

VIII.—Occupational Therapy.

(A) 1. Total number of patients treated at the Centre	...	7,659
2. Total number of treatments given	...	1,03,779
(B) 1. Total number of students admitted in the School	...	40
2. Total number of students in the School	...	70
3. Students graduated during the year April and October 1971.	...	49

IX.—Deficiencies.

- Over crowding of patients in the Wards. As against 1450 Schedule beds, the daily average in-patients in the Wards is 1847. The overcrowding is particularly in Medical and Surgical Female Wards, children wards and Orthopaedic wards.
- Overcrowding of visitors in the Wards. Difficult to exercise control.
- Heavy rush in the O. P. D. on an average 2,500 patients attend the hospital daily.
- Acute shortage of qualified Nursing staff.
- Shortage of Medical Staff.

X.—Suggestions.**1. Additional Building :—**

Proposal for multi-storied building is approved. It is proposed to centralise the various departments of the hospital in one building. Orthopaedic Centre which is about a furlong or two away from the main hospital is proposed to be brought in the proposed new building.

2. Decentralization of Registry :—

Registration Section has been decentralised in almost all the Out-patient Departments, leaving a few departments which are also being covered for decentralisation shortly. This system is found to be working very satisfactorily.

The O. P. D. Case papers are now being handed over to the patients with plastic bags for preserving the papers in order to eliminate the waiting time for getting the papers.

3. Casualty Department :—

It is being re-organised so that the patients will not have to wait long. The matter has been taken up with the Commissioner of Police for installing a Wireless communication with the Casualty Department. Director of Health Services has also been reminded regarding the Government assistance for establishing the Emergency Casualty Department.

4. Up-grading of Dispensaries :—

The existing Municipal Dispensaries are proposed to be up-graded so as to have the facilities of laboratory and Radiology investigations and expert Consultation. It is also proposed to establish new upgraded Dispensaries in the suburbs. This may reduce the load on hospital O. P. Ds.

5. Development of Suburban Hospitals :—

The Suburban Hospitals are required to be developed with the arrangements of Casualty Departments so that the accidental cases from the Suburban could be treated in these hospitals instead of bringing them to the city hospitals.

6. Facilities for Relatives :—

There is no facility of waiting hall for tiffin room or toilet room for the relatives attending the patients particularly of the child patients. Some sort of facility is felt necessary for them.

SETH G. S. MEDICAL COLLEGE, PAREL, BOMBAY—12.

COLLEGE

I.—Annual Expenditure and Revenue :

		Rs.
(A)	1. Total Expenditure including expenditure on hostel. ...	27,26,500.00
	2. Revenue from Tuition fees, Hostel Rent and Miscellaneous Receipts.	3,61,726.00
	3. Revenue from Post-graduate fees ...	78,821.00
(B)	1. Income from Hostels ...	53,016.00
	2. Expenditure on Hostels ...	91,680.00
(C)	1. Gross Cost per Student ...	2,054.63
	2. Net cost per student ...	1,722.64

II.—Students :

(A)	1. Total Students admitted ...	160		
	2. Number of Students in the different Classes...	Male	Female	Total
	(i) 1st M.B., B.S. 1st Year ...	125	36	161
	(ii) 1st M.B., B.S. 2nd Year ...	15	6	21
	(iii) 2nd B.M., B.S. (I, II, & III Terms) ...	111	57	168
	(iv) 3rd M.B., B.S. (I, II & III Terms) ...	186	157	343
	Interns ...	83	83	166
	Total No. of Undergraduates ...	520	339	
	Total No. of Post-graduates including Research Students ...	310	158	478
	Grand Total ...	830	497	1,327
(B)	1. Average age of student			
	(i) at the time of Admission ...	18 Years		
	(ii) at the time of S. S. C. ...	16 Years		
	2. Marital Status at the time of Admission ...			
	(i) Married ...	1		
	(ii) Betrothed ...	Nil		
	(iii) Single ...	159		
	3. Occupation of Parents or Guardians :			
	(i) Service ...	50 per cent		
	(ii) Medical Profession ...	6 per cent.		
	(iii) Legal Profession ...	3 per cent.		
	(iv) Engineering ...	0.06 per cent.		
	(v) Miscellaneous Occupation ...	40.04 per cent.		

T. H. Rindani
DEAN

K. E. M. Hospital.

Seth G. S. Medical College and K. E. M. Hospital

(Seth G. S. Medical College).

In the year 1971-72 the King Edward VII Memorial Hospital and Seth G. S. Medical College have completed 46 years of service, the hospital rendering Medical Relief to the sick and College imparting Medical Education to the students.

Dean

Dr. T. H. Rindani, M.D., D.Sc. F.A.S.C., 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. H. L. Dhar, M.B.B.S., B.Sc., Ph.D., has been appointed as Ag. Professor of Pharmacology from 15th April 1971.

Dr. K. G. Nair, M.D., Ph.D., has been appointed as Ag. Director/Professor of Medicine from 30th April 1971.

Dr. (Smt.) V. N. Acharya, M.D., has been promoted to the post of Professor of Medicine from 5th July 1971.

Dr. (Smt.) L. P. Deodhar, M.D., has been promoted to the post of Ag. Associate Professor of Pathology and Bacteriology from 21st December 1971.

Dr. (Smt.) G. G. Bhave, M.D., has been promoted to the post of Ag. Assistant Professor of Pathology and Bacteriology from 1st February 1972.

Dr. S. S. Merchant, M.D., has been promoted to the post of Ag. Assistant Professor of Pathology and Bacteriology from 14th February 1972.

Dr. S. G. Dalvi, M.D., has been appointed to the post of Ag. Assistant Professor of Medicine from 1st November 1971.

Dr. G. H. Tilve, M.D., has been appointed to the post of Ag. Assistant Professor of Medicine from 11th October 1971.

Dr. (Smt.) K. S. Bhave M.B., B.S., D.A., M.D.; has been appointed to the post of Ag. Assistant Professor of Anaesthesiology from 20th September 1971.

Dr. (Smt.) R. G. Dhekne, M.B., B.S., D.A., M.D., has been appointed to the post of Ag. Assistant Professor of Anaesthesiology from 15th December 1971.

Dr. P. D. Anjaria, M.D., was promoted to the post of Honorary Physician and Honorary Professor of Medicine from 1st September 1971.

Dr. A. V. Bavdekar, M.S., M.S. (ORTH) has been promoted to the post of Honorary Orthopaedic Surgeon and Honorary Professor of Orthopaedic Surgery from 1st February 1972.

Dr. P. A. Kale, M.D. has been appointed as Honorary Assistant Physician and Honorary Assistant Professor of Medicine (Cardiology) from 1st September 1971.

Dr. S. R. Tambwekar, F.R.C.S. (LOND) F.R.C.S. (Edin) has been appointed to the Post of Honorary Asstt. Plastic Surgeon and Honorary Asstt. Professor of Plastic Surgery from 17th May 1971.

Dr. S. S. Seshia, M.D., M.R.C.P., has been appointed to the post of Honorary Assistant Professor of Neurology and Honorary Assistant Neurologist from 18th December 1971.

Dr. S. D. Bhandarkar, M.D., has been promoted to the post of Honorary Physician (Endocrinology) from 1st September 1971.

Dr. M. K. Dhirwani, M.D., has been promoted to the post of Honorary Physician (Diabetes) from 1st September 1971.

Dr. B. D. Pimparkar, M.B.B.S., D.Sc. (U.S.A.) has been promoted to the post of Honorary Physician (Gastroenterology) from 1st September 1971.

Dr. E. C. Mehta, M.R.C.P.E., M.A.M.S., has been promoted to the post of Honorary Physician (Haematology) from 1st September 1971.

Dr. M. M. Warwadekar, M.B.B.S., D.M.R.E., has been promoted to the post of Honorary Radiologist and Honorary Professor of Radiology from 1st November 1971.

Dr. R. D. Nagpal, M.S., has been appointed to the post of Hon. Asstt. Neuro Surgeon and Honorary Assistant Professor of Neuro surgery from 1st October 1971.

During the year under report the following persons who have been appointed as Post Officers by C. S. I.R., were working in this Institute.

1. Dr. S. S. Seshia (Neurology) 1st April 1970 to 17th June 1971.
2. Dr. C. V. Patel (Surgery) 1st April 1971 to 30th September 1971.
3. Dr. K. L. Antani (Surgery) 1st September 1971.
4. Dr. R. D. Darne (Medicine) 7th September 1971 to 31st March 1972.
5. Dr. (Smt.) S. R. Rao (Paediatric) 1st January 1972 to 8th February 1972.

Study Tour

Dr. G. B. Parulkar, M.S., Professor of Surgery at the Seth G. S. Medical College and K. E. M. Hospital attended the 24th Congress of Society International de Chirurgie held at Moscow, U.S.S.R. from 21st to 28th August 1971.

Professor U. K. Sheth, M.D., was invited from 24th October 1971 as a member of the team sponsored by Council of Scientific and Industrial Research to visit West Germany in connection with "New Drug Development". The tour was jointly sponsored by West German Government through German Academic Exchange Service. He was also invited by World Health Organization, Human Reproduction Unit in Geneva to discuss clinical Pharmacology aspects of oral contraceptives.

Dr. A. J. Diruva, M.B.B.S., D.A., Professor of Anaesthesiology attended the Seminar on safety in the operation Theatre and Post Seminar Programme of visits to Hospitals, in Melbourne, Australia, arranged by the Royal Australian College of Surgeons with the assistance of Common Wealth Foundation from 30th September 1971 to 6th October 1971.

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 eight were taken from other Backward Class community.

The number of under-graduate students in the roll at the close of the year was 859, out of which 339 were Female students. The number of Post-graduate students including Research Students was 468 out of which 158 were Female students. There are 1,327 students on the roll. There are 76 Overseas students on the roll.

In addition to undergraduate teaching, Post-graduate courses were also conducted for M.D., M.S., D.O.M.S.D.A., D.V.D., D.P.M., M.Sc., (Biochemistry M.Sc.) (Animal Physiology), M.Sc. (Necology) etc.

Special classes were held for Occupational and Physic 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 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 subject of Anatomy, Physiology and Biochemistry were intergrated as far as possible so that all the three Departments were tackling the same topic simultaneously.

Physiology Department took lectures in applied Physiology for the 3rd, 4th and 5th year students.

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 1971.

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 under-taken in the College and Hospital under the auspices of Indian Council of Medical Research, Council of Scientific and Industrial Research, National Institute of Health, U. S. A., 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 in College premises has 148 rooms, Ladies hostel has 36 rooms accommodation and Hostel situated at Naigam ment for Interns has 56 rooms. 515 Male Students and 152 Female Students have taken advantages of these hostel accommodation.

General

Dr. Charles B. Huggins M.D. Nobel Laureate Director Ben May Laboratory University of Chicago, U. S. A., was invited to deliver "Dr. K. G. Munsif Memorial Lecture" on Thursday the 25th November 1971 on

"Hormones and Experimental Cancer."

Dr. Mac Donald Critchley, Neurologist National Hospital for Nervous Diseases Queens Square London, was invited to deliver Dr. N. D. Patel Memorial Lecture on Saturday, the 4th December 1971 on

"Aphasia in Bilinguals and Polyglots."

The following eminent Medical personnel visited these Institutions during the year under report.

- 1 3-2-1971 Prof. E. Rotellar, Nephrologist and President of European Dialysis and Transplant Association.
- 2 5-2-1971 Prof. Fidanza Università Deliga Studi Di Perugia
- 3 6-2-1971 Dr. Henry J. Tumen Emeritus Professor of Medicine, University of Pennsylvania, Philadelphia U. S. A.
- 4 25-2-1971 Dr. M. D. Simon Visiting Surgeon from New York.
- 5 28-5-1971 Dr. R. W. Darandkar Clinical Associate Professor of Medicine, Tulane University Medical School, New Orleans, U. S. A.
- 6 30-9-1971 Mr. E. Darham Smith Consultant Paediatric Surgeon Melbourne-Australia.
- 7 18-11-1971 Dr. Maxwell Rolland President U. S. International Foundation for Studies of Physiology of Reproduction.
- 8 25-11-1971 Dr. Charles B. Huggins, Noble Laureate, Director Ben May Lab. University of Chicago U. S. A.
- 9 30-11-1971 Dr. R. J. Vakil Cardiologist Bombay.
- 10 3-12-1971 Professor John N. Waltern Dean of Medical Faculty, New Castle and Professor of Neurology.

Artists Section Pathology

In the Artists Section following works has been carried out during the year under report.

Hospital cases Photographs	...	...	...	...	...	658
X-ray Prints	...	...	...	...	...	624
Nurses Photos	...	...	...	...	...	197
Specimen	...	...	...	...	...	173
Micro Photograph	...	...	...	...	...	223
Slides	...	...	...	...	...	2,054
Charts	...	...	...	...	...	293
Graphs	...	...	...	...	...	262
Diagram	...	...	...	...	...	67
Miscellaneous	...	...	...	...	...	151
					Total	4,702

Department of Surgery

Clinical Cases Photographs	...	...	...	...	...	936
X-ray Reproduction	...	...	...	...	...	1,921
Micro Photograph	...	...	...	...	...	208
Specimen Photographs	...	...	...	...	...	236
Lantens Slides 35 mm.	...	...	...	...	...	3,201
Micro Photograph	...	...	...	...	...	890
Graphs and Lettering Charts	...	...	...	...	...	600
Operation Photos in colour	...	...	...	...	...	1,360
Enlargements for Publications	...	...	...	...	...	1,626
Book Reproduction for Slide, for teaching Miscellaneous	...	...	...	...	...	20
					Total	10,998

Library

Additional budget Provision was made to purchase more books and to subscribe for new periodicals. This helped both under graduate and Post-graduate students and the College and hospital staff to keep abreast of modern development of various branches of medical Science.

The total number of Journals subscribed this year was 260. This included 8 new Journals added during this year.

During the year under report 523 books were added to the Library.

The following books were presented to the Library

In Memory of late J. L. Desai	1
Dr. (Smt) P. E. Bharucha	5
Dr. B. C. Mehta	1
Smt. Sen Gupta	1
Dr. C. V. Patel	1
Hamilton Bailey Memorial Fund	10
Prof. U. K. Sheth	1
Govt. of India (Family Planning)	4
Mr. A. N. Marbelli	1
Dr. B. N. Purandare	1
UNICEF	11
Dr. N. J. Shah.	1
Total	36

Gymkhana

- (1) National days were celebrated
- (2) Annual College Day was celebrated on 12-2-1972.
- (3) Annual Sports Day was held on 29th January 1972 when Chief Guest was Dr. Arther E. Desa, F.R.C.S. and Dr. T. H. Rindani, Dean, Presided over the function.

Department of Anatomy

Research work

Dr. I. M. Mehta and Dr. C. K Parikh
"Correlation of length of body length of long bones."

Publications

- 1 "Towards Semantic Clarity in Cancerology" (Journal of Post-graduate Medicine) Vol. XVII 4. Dr. M. L. Kothari, Lopa Mehta, Meena L. Kothari.
2. Dracontiasis in Man—Biology of the Worm and Pathology of Lesion. Dr. M. L. Kothari, D. S. Pardnani, M. P. Anand, Lopa Mehta and D. L. Kothari. "Indian Journal of Surgery Vol. 32 No. 9 and 10.
3. Dracontiasis and Secondary Bacteriol Infection—"Indian Journal of Surgery" Vol. 33 No. 3, 1971. Dr. M. L. Kothari, D. S. Pardnani, M. P. Anand, Lopa Mehta, D. L. Kothari and Smt. P. Dastur.
4. Dracontiasis in Man—Epidemilogy and Clinical Features. "Indian Journal of Surgery." Vol. 33 No. 1, 1971. Dr. M. L. Kothari, D. S. Pardnani, M. P. Anand, Lopa Mehta, D. L. Kothari.

Department of Pathology

During the year under report the following researches were under taken in the Department :—

1. Bacteriological Study of Osteomyetitis,
2. Bacteriology of bacteriamia and septicaemia
3. Infectious in a dialysis Unit.
4. Effects of Snake Venoms experimental Study.

Proventive and Social Medicine Department

The Department of Preventive and Social Medicine has bow completed thirteen 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 under report.

Administration

1. Internship Programme :— The Department continued as organise the general internship Programme for all departments in 1971-72.
2. Dr. D. N. Pai is incharge of the Urban Health Internship Programme for the Medical Interns from the City Corporation Medical College,
3. Dr. Smt. Bhalerao participated in the rural Internship Programme. Dr. Smt. Kekre conducted the Programme during the leave period of Dr. Smt. Bhalerao.
4. Medical Social Services Department is under the central administration of department of Preventive and Social Medicine.

Dr. Smt. Kekre was heavily engaged in the National Service Scheme of the University of Bombay for the year 1971-72. Dr. Smt. Kekre also takes a very active part in the placement of various voluntary social workers from the Indian Council of Social Work.

Research

(1) Incidence of infective Hepatitis in fertile age group of Women admitted at K. E. M. Hospital and Kasturba Hospital by Dr. Balerao (Completed).

(2) Health and Family Planning Survey of Slum Dwellers at 2nd October Colony by Dr. (Smt.) Pochkhanawala (Completed)

Incomplete—

(1) Physical, Psychological and Social Complications of Vasectomy—Dr. D. N. Pai.

(2) Demographic characteristics of acceptors and non acceptors of Family Planning—Dr. D. N. Pai.

(3) Post-Partum Programme in Municipal Maternity Institutions—Dr. D. N. Pai.

(4) Serial Studies in School Population by Dr. Smt. Kekre.

(5) Mobile Medical Care Unit—by Dr. J. V. Telang.

Department of Pharmacology

The Pharmacology Research Unit and Clinical Drug Trial Unit of C. S. I. R. continued to operate through the department. Total number of compounds screened for biological activity was 327. Total grant received from C. S. I. R. for both the units during the year was Rs. 1,69,639/-.

Clinical Pharmacology Unit consisting of all the clinical work-carried out by the department continued to operate under K. E. M. Hospital Research Society. Total grant received by this unit from various sources like Ciba Research Centre, Unichem Lt. Cipla, Indo-Pharma Pharmaceutical Works, and others, during the year was Rs. 3,50,000/-. Three candidates from the institutions successfully obtained post doctoral diploma in clinical pharmacology from the College of Physicians and Surgeons of Bombay. This was the first exam. in this subject held in India by the College of Physicians and Surgeons of Bombay.

APPENDIX I

(Biochemical Section)

Sr. No.	Total
(A) Liver Function Tests	
(1) Serum glutamic oxalacetic transaminase SGPT	1,789
(2) Serum glutamic pyruvic transaminase (SGPT)	1,787
(3) Serum Bilirubin (Total & Direct)	1,795
(4) Serum Alkaline Phosphatase	1,655
(5) Serum Proteins	1,255
(6) B.S.P. dye retention	39
(7) Serum Cholinesterase	1,045
(B) Renal Function Tests	
(1) Serum Electrolytes	1,053
(2) Urine Electrolytes	5,320
(C) Urine Examination	
	1,104
(D) Stool Examination	
	1,084
(E) Miscellaneous Tests	
(1) Serum Cholesterol	445
(2) Blood Sugar	918
(3) Serum Uric Acid	345
(4) R. A. Factor Test	90
(5) C. R. P. Test	528
(6) Feto Proteins	28
(7) Antipyrine	368
(F) Complete haemogram	
Platelets	1,588
	1,588
Total Eosinophil count	159
L. E. Cells	28
Bleeding Time & Clotting time	68
Puncture fluids	18
Urine Cell excretion	22

Sr. No.	Total
APPENDIX II (Microbiology Section)	
No. of sputum samples cultured	46
No. of urine samples cultured	342
No. of colony counts of urine samples	288
No. of Bronchoscopy aspiration samples cultured	17
No. of Throat swab samples cultured	27
No. of Ascitic fluid samples cultured	30
No. of Pus samples cultured	5
No. of Blood samples cultured	7
No. of Antibiotic sensitivity tests	445
No. of staining for Acid Fast Bacilli	24
No. of routine Gram staining	4
Tetracycline blood levels	20

(1) Complete Renal Function Test

(a) Blood urea nitrogen	908
Urine urea	36
(b) Creatinine Clearance	19
Plasma creatinine	10
Urine creatinine...	36
(c) P. amino hippuric acid (PAH).	
(d) (Inulin).	

2 Para amino salicylic acid (PAS) Levels in blood**New techniques to be set up**

- (1) Estimation of Phenylbutazone (Butazolidin) in biological material.
- (2) Determination of diphenylhydantoin in serum.

APPENDIX—III.**Work load in radioisotope division**

Radio iodine tracer tests	701
B. M. R. tests	773
Radioiodine therapy	46
Scan (Thyroid)	123
Yttrium implantation	2
Gold 198	1

APPENDIX IV.**No. of papers published & accepted for publication.**

- (1) Effect of drugs influencing amine synthesis on the analgesic action of tetracaine (Psychopharmacologia 19, 73, 1971).
- (2) The role of central mono-amines in decapitation convulsions of mice (Neuropharmacol. 5, 571-81, 1971).
- (3) Effect of Dinitrophenol (DNP) and starvation on carrageenin induced inflammation (Accepted Jap. J. Pharmacol.).
- (4) Effect of anti-inflammatory drugs on glutathione levels and succinic dehydrogenase activity in carrageenin induced inflammation and cotton pellet granuloma in rats. (Accepted Biochem. Pharmacol.).
- (5) Study of factors affecting serum FFA, blood sugar, blood cholesterol and adrenal ascorbic acid in rats (Ind. J. Pharmacol.).
- (6) Potentiation of a non-narcotic analgesic, methemazole, by cholinergic drugs. (Accepted psychopharmacologia).
- (7) Synthesis and pharmacology of N-aminoacyl and N-aminoalkyl amphetamine derivatives (sent for publication).
- (8) Synthesis and CNS depressant activity, hypotensive activity and Cardiovascular activity of newer piperazine derivatives (Thesis submitted for Ph. D. degree to Bombay University).
- (9) Effect of stress on carrageenin induced inflammation (Sent for publication).

DEPARTMENT OF MEDICINE

The Department of Medicine consists of two full-time teaching Units with the following sections under the Director-Professor of Medicine.

1. Gastroenterology, 2. Haematology, 3. Diabetes, 4. Tetanus, 5. Cardiology (Two Units), 6. Radioisotope, 7. Nephrology, 8. Neurology, 9. Endocrinology, 10. Chest, 11. Cardiac Catheterization & Diagnostic angiology.

HAEMATOLOGY

Teaching Activities:

- (i) Once a week clinic for the students.
- (ii) Junior clinical batch.
- (iii) Revision lectures.
- (iv) Series of lectures to 2nd and 3rd M.B.B.S. students.

Research Projects:

- (i) Iron utilization from a parenteral iron preparation using Fe-59 lable.
- (ii) Red cell survival in valvular heart diseases and after valve replacement.
- (iii) Prevention of anemia in children.
- (iv) Use of cryoprecipitate in homophilia.
- (v) Spleen cell infusion in hemophilia.

Other activities:

- (i) Dr. B. C. Mahta attended the II Congress of Asian & Pacific Division of International Society of Hematology at Melbourne and presented a paper on Hematological and genetical studies in Bhanushali community.
- (ii) Dr. B. C. Mahta attended a 6 week full-time course in nuclear medicine at Radiation Medicine Centre.

DIABETIC CLINIC

Research Projects:

- Evaluation of pertussis Vaccine in the treatment of insulin Resistant Diabetics.
- Assessment of Rice Vs Wheat in the management of diabetes.
- Long term results of oral hypoglycaemic drugs:
 - Sulphonylureas: Biguamides: Combination therapy.
- Diabetogenic influence of diuretics
- Steroids and diabetes
- Diabetes and coronary heart disease
- Neurological involvement in diabetes.
- Yogic excercises and diabetes.
- Psychiatric assessment of diabetes.
- Study of environmental factors in the pathogenesis of diabetes.
- Study of hereditary factors in diabetes.
- Assessment of patients with Bad Obstetric history:
 - Incidence of diabetes.
 - Influence of therapy.
- Diabetes and pregnancy.
- Management of severe diabetics.
- Future of neglected diabetics.
- Cutaneous manifestation of diabetes.

GA in diabetes mellitus:

The possible role of Yoga excercises in the treatment of Diabetes Mellitus is at present being studied. So far 35 patients (25 Males and 10 Females) have participated in the programme which is still in progress. It is rather too early at present to comment on the role of Yogic excercises in Diabetes Mellitus. This study is being done in collaboration with Dr. M. K. Dhirawani, Hon. Physician (Diabetes), K. E. M. Hospital.

Academic Activities:

Each member of the Honorary Staff takes the postgraduate (registered for the M. D. degree in Medicine and Therapeutics) students once a week. The sessions are mainly clinical but theory is also covered. In addition, undergr aduate students are taught according to the programmes sent to the unit staff from time to time.

A paediatric Neurology Meeting has now been organised on every Monday (12 noon to 1 p.m.). Interesting cases are presented and discussed. A weekly departmental meeting is also held every Saturday morning.

Electro myography:

The machines acquired from the BARC was found to be unsatisfactory. Subsequently three models assembled by the BARC were tested. The performance was not entirely what was desired and certain modifications were suggested. As the performance of the locally assembled (BARC) machines was not satisfactory it was decided to proceed with plans for acquiring a Medolec Machine.

CHEST

Research Projects:

- (1) Efficacy of "Septrin" in respiratory tract infections (Messrs. Burrough Wellcome).
- (2) "Spaneph" trial — (Messrs. Smith Kline & French).
- (3) Efficacy of Cephalixin (Messrs. Glamo Laboratories)
- (4) Estimation of sputum protein.
- (5) Incidence of diabetes in chronic bronchiatis.

Papers read at Conferences :

- (1) Bronchogenic Carcinoma—read at National T. B. and Chest Conference in January 1972.

Finally, in Department of Medicine has begun several new teaching activities and health care programme during the year under report. These include a new teaching programme for the medical interns, a special programme for medical health officer, a special clinic for employees of the hospital, a special congenital heart and a preventive cardiology Clinic.

DEPARTMENT OF ANAESTHESIOLOGY

The Department continued to function as in previous years. In all twelve operation theatres with 18-22 tables functioned. There was heavy demand for treatment of cases on I.P.P.R. Efforts are being made to establish a separate Recovery Room cum Respiratory Care area. Once this is established, the care of such patients will be centralised. One more ventilator was added for paediatric cases. During the year the department was depleted of Staff qualitatively though total strength remained unaltered. Two senior Assistant Professors joined as Professors at the other two Municipal Medical College.

The following work are in progress.

- (1) Design to locate the extro-dural space.
- (2) Evaluation of Anaesthetic technique for caesarian section.
- (3) Variations in blood sugar level under different types of Anaesthetics.
- (4) Seasonal variations in blood bio-chemistry in normal patients.
- (5) Blood bio-chemistry during Peritonioscopy with insufflation of CO₂
- (6) Incidence of sore throats under different condition under Anaesthesia.

Teaching activity continued in full swing. Result for D. A. was 100% for residents. No resident appeared for M.D.

Academic meetings were regularly held and were very well attended.

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 years was 1,450. As usual there was constant overcrowding in the hospital particularly in the Children Wards and Medical and Surgical Wards for females.

During the year 1971, the average number of in-patients in the hospital was 1,847, as against 1,798 and 1,820 during the year 1970 and 1969 respectively. Even after strict scrutiny for routine admissions in order to control overcrowding, the total number of patients admitted for hospitalisation during the year under report was 60,079 as against 60,761 and 61,011 respectively during the two preceding years. The average stay of In-patients was 11.3 days during the year under report as against 10.8 and 10.6 days in the 1970 and 1969. During the emergency period, as many patients as possible were discharged and about 500 beds were kept vacant for War Emergency cases. Admissions were also restricted during the period. The increasing demand for hospital beds thus continued.

Results of Treatment of Indoor Patients :

Out of the total number of 61,840 patients including 1,761 brought over from the previous year 50,368 relieved as cured, 5,524 left the hospital either against Medical Advice or were otherwise discharged and 4,461 died (excluding 345 still borns and Neonatal death). At the end of the year 1,547 patients were in the hospital under treatment.

Death classified :

Out of 4,461 deaths, 1,109 died within 24 hours of admission, 617 after 24 hours but within 72 hours of admission and the rest 2,735 deaths took place after three days from the date of admission. The figures are exclusive of 345 still borns and Neonatal Deaths. Death rate was 7.2 as against 7 during the last year.

Total number of autopsies performed during the year under report was 1,792 as against 1,820 and 1,858 for the year 1970 and 1969 respectively. Autopsy rate was 40.2 for the year 1971 as against 41.36 and 40.93 for the year 1970 and 1969 respectively.

Confinements :

During the year under report, the total number of confinements were 4,781 and abortions 1,840.

Operations :

26,331 Operations were performed on In-patients and 42,879 operations were performed on Out-patients

OUT-PATIENTS DEPARTMENT

Out-patients particulars :

The total number of new cases issued during the year under report was 3,78,015 as against 3,66,994 and 3,45,096 in 1970 and 1969. The total number of out-patient attendance (New and Old including Casualty Cases) was 7,50,177 bringing the average total attendance 2,459 per day.

Casualty cases registered during the year were 38,778 as against 44,644 and 65,163 during the year 1970 and 1969 respectively. The minor cases such as nail injury or stone injury, etc., reported to 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 1,874 and (excluding old cases) on 2nd August 1971. The highest number of Casualty Cases treated on one day was 183 on 1st November 1971.

Decentralization :

Few number of Out-patient departments were decentralised so far as the issue of New O. P. D. Case papers was concerned during the year 1970. As this system was found to be working very satisfactorily, further decentralization was done in the following departments, during the year under report.

- (1) E. N. T.
- (2) Dental.
- (3) Diabetic.
- (4) Ophthalmic.
- (5) Gynaec.
- (6) Obstetric.

NEW O. P. Ds.

Cardiology 2nd unit :

The Second Unit of the Cardiology Department under Dr. K. G. Nair, Prof. Director of Medicine has started functioning during the year under report. This unit also includes the "Congenital Heart Clinic."

The following specialities were made in department under the respective chiefs as shown against the year with effect from 1st September 1971.

(1) Diabetes	... Dr. N. K. Dhirwani.
(2) Haematology	... Dr. B. C. Mehta.
(3) Endocrinology	... Dr. S. D. Bhandarkar.
(4) Gastro-intestinology	... Dr. B. D. Pimparkar.

Ward emergency :

During the Ward Emergency period, an arrangement for accommodating about 600-700 patients was made by keeping the beds vacant in as many wards as possible. One full ward of 50 beds was kept completely ready but vacant as Emergency Ward with additional arrangement of 15 beds in Minor Surgery Department. Necessary arrangement for providing additional drugs, linen, resuscitation equipment etc., for the emergency purposes was also made.

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	...	1,251
(2) Session Courts	...	52
(3) Coroner's Court	...	11
(4) Motor Accident Tribunal	...	66
(5) Other Courts	...	26

During the year approximately 1,100 depositions were filed in the Coroner's Court.

Medical Certificates :

(1) Under Workmen's Compensation Act	...	218
(2) Medical Opinion Certificates	...	6,947
(3) Injury Certificates to Police in Medico-legal Cases (Free)	...	2,027
(4) Injury Certificates to patients in Medico-legal Cases	...	246
(5) Certificates to Municipal Employees for Injury Leave (Free)	...	80
(6) Certificates for Insurance purposes	...	74
(7) Essentiality Certificates for i.e., imbursements of Medical expenses to Government's	...	1,800
(8) Accident Insurance Certificates	...	131
(9) Opinion Certificates to Municipal Employees (Free)	...	500

Charts :

The Medical Record Department has introduced a system of showing the various statistical information of the Hospital and College by displaying Chart. Different types of Charts have been prepared and displayed in Dean's office. This gives an up-to-date information on the spot.

Medico-Social Service Department :

The Medico-Social Service Department started functioning in this hospital from September 1964 with two Medico-social workers at the initial stage.

This Department is now centralised for proper distribution of work under the Professor of Preventive and Social Medicine.

The following figures will give an account of the Medical Social work done through the Department during the year under report :—

(1) Material aid, costly medicines, appliances, protheses, clothes, financial aid for transport extra diet	...	2,241
(2) Case work	...	535
(3) Social histories and investigations (including brief histories)	...	1,622
(4) Discharge, institutionalisation and placement	...	316
(5) Rehabilitation	...	49
(6) Referrals to other agencies e.g., Port Trust, Railways, E. S. I. S. etc.	...	198
(7) Referred to organised Home Treatment Clinic for screening E. C. G. etc.	...	240
(8) Child guidance clinic and Mentally deficient children's clinic	...	195
(9) Physcotic patients relatives group	...	42
(10) Adoption arranged	...	6
(11) No. of institutions visited for blood donation	...	71
(12) No. of voluntary donors blood	...	11,954
(13) No. of patients relative donors blood	...	2,238
(14) No. of old cases for follow-up	...	386
(15) Orientation to epileptic patients relatives	...	15
(16) Group Psychotherapy (Male, Female) sessions attended as well as recorded	...	64
(17) Total Nos. of Indoor Voluntary donors	...	1,164

Orthopaedic Department :

This department is fullfledged with separate O. P. D. Operation Theatre, Radiology Department, Plaster room and six wards with a capacity of 240 beds. The operation Theatre and Radiology Department are being provided with air-conditioning Units.

The following is the work done in the Department during the year under report :—

(1) Out-door attendance	... New	...	25,638
	... Repeat	...	33,958
(2) Indoor admissions	...	...	3,798
(3) Average In-patients per day	...	...	431
(4) No. of Operations	Indoor	...	4,444
	Out-door	...	3,805

Ear, Nose and Throat Department :

During the year under report, this department has been renovated and expanded by alteration and additions carried out to the existing Department. The bed strength of the department which was 10 in the year 1927 is increased to 48 including 10 beds in the Tonsil Ward. The present alteration and extension of this department provide three Operation Theatres, one sound proof audiology room, one sterilisation room, Observation Ward, Honorarie's Room, resting room for R. M. O.'s etc. The operation Theatres are being air-conditioned. The expansion of this Department was done during the year under report and was inaugurated by Dr. M. N. Desai, Municipal Commissioner on 1st January 1972 when presided over the function.

The following is the account of work done in the department during the year :—

(1) Total O. P. D. attendance	New	24,843
(2) Total Admissions		2,564
(3) Operations	In-patients	2,787
	Out-patients	1,617
(4) Total No. of audiogram taken		922

Neuro Surgery Department

New wing for Neuro-Surgical Department has been constructed in order to provide two air-conditioned operation Theatre, One self contained Radiological Unit and Three bedded air-conditioned Recovery Room with additional 15 beds. This area is now almost ready for being fully commissioned.

During the year under report 1,483 New patient and 1,813 repeat patients were treated in the Out-patients Department and 631 patients inclusive of referred cases were admitted as In-patients.

Special Radiological investigations were carried out in the department during the year under report.

The following figures will give a account of Radiological and Operation procedure done in the Department.

(1) Operations	...	...	...	...	...	930
(2) Radiological Investigations	...	...	...	...	...	1,398

Neurology Department

During the year under report 2,191 New Patients were treated at the Out-patients department and 552 patients were admitted as In-patient. 360 New Cases were treated at the Epil-pasy Clinic of the Department of Neurology. These figures exclude the cases referred by other Services.

Gynaecology and Obstetrics Department

The following is the account of work done in the Obstetric department during the year under report:—

Total number of O. P. D. attendance (New)	...	...	...	...	8,001
Total No. of Admissions	...	...	...	...	8,147
Total No. of Confinements	...	...	...	...	3,998
		(1) Normal	...	...	3,998
		(2) Abnormal	...	...	783
					<hr/> 4,781
Booked Cases	...	...	...	...	4,293
Emergency Cases	...	...	...	...	488
Abortions,		Threatened	...	...	690
		Incomplete	...	...	906
		Spontaneous complete	...	...	244
					<hr/> 1,840
Total No. of Obstetric Operations	...	...	...	...	3,551
Neonatal & Maternal Mortality,		Maternal Death	...	...	26
		Neonatal Deaths	...	...	166
		Still Births	...	...	179
		Premature Life born infants	...	...	168
		Congenital malformation	...	...	24

The following data gives the details of Gynaec attendance, admissions and Operations.

Total No. of O. P. D. attendances	...	...	...	...	11,246
Total No. of admissions	...	...	...	...	3,583
Operations,		Major	...	...	1,034
		Minor	...	...	1,434
					<hr/> Total ... 2,468

Dr. N. A. Purandare Gynaec and Obstetric Research Centre

In Dr. N. A. Purandare Gynaecological and Obstetric Centre, cases of Gynaecological disorders of harmful origin are being studied from the point of view of research investigations and therapy. Oral contraceptive tablets are also being issued by the above Centre.

Special Investigations

(1) Transplacental Haemorrhage	...	...	...	...	123
(2) Studies on foetal Maturity	...	...	...	...	125
(3) Toxaemia of Pregnancy	...	...	...	...	81
(4) Fibrog n	...	...	...	...	58
(5) Urinary Hormones,		Estriol level	...	...	501
		Pregnanediol level	...	...	350
(6) Ketosteroides and Ketogenic Steroids	...	...	...	...	86
(7) G. T. C.	...	...	...	...	69

Besides these special investigations 32,913 routine biochemical investigations were also undertaken. Certain drug trials were also undertaken.

Urban Family Planning Centre & Post Partum Programme

Post Partum Programme was started functioning on 9th November 1970. The Urban Centre is now integrated with this programme. The following is the account of work done during the year under report.

New Cases registered	...	...	...	...	1,258
Total Attendance	...	...	...	...	2,671
Condom	...	...	...	...	1,794
Other (Jelly)	...	...	...	...	203
I. U. C. D.	...	...	...	...	318
Oral Pills	...	...	...	...	971
Tubectomy	...	...	...	...	1,022
Vasectomy	...	...	...	...	354
					<hr/> Total ... 4,359

Seminar on "Involvement of Hospital and College community in Family Planning" was held on 21st January 1972 which was inaugurated by Dr. Hemchandra Gupta, Mayor of Bombay and presided over by Dr. Nizamuddin Ahmad, Commissioner, Family Planning.

The Oral contraceptive Centre is now found on the F.P.A. Total numbers of patients (Male & Female) that attended the Family Planning and oral Contraceptive of Dr. N. A. Purandare Obst. & Gyn. Research Centre was 9,237. Out of these 1,237 were new acceptance of Family Planning methods. The oral Contraceptive pilot project of the Government of India, which was started at this centre on August 13th 1970, still

continues. Since October 1971, Oral tablets were discontinued and Primovalr are supplied instead. 1,671 new cases were put on these tablets so far. Out of these 722 patients discontinued these pills for the following reasons:—

Side effects	...	...	...	...	...	76
Physicians advice	...	...	...	...	...	19
Other related reasons	...	...	...	...	...	627
						<u>722</u>

Department of Preventive and Social Medicine

(A) Family Health Clinic

Total number of days the Clinic Worked	...	...	...	...	277
Total number of cases treated during the year	...	...	...	...	6,060
Daily Average	...	...	...	...	22

(B) Family Health Centre:

Total number of days the Centre worked	...	...	...	...	130
Total number of cases given full medical check-up	...	...	...	...	575
Daily average	...	...	...	...

The following Laboratory investigations were carried out in the Clinics.

Blood Tests:						
R. B. C.	...	...	...	...	...	1,037
H. B.	...	...	...	...	...	1,153
W. B. C. (C. T.)	...	...	...	...	...	1,131
W. B. C. (D)	...	...	...	...	...	1,131
E. S. R.	...	...	...	...	...	100
Urine	...	...	...	...	...	858
Stool	...	...	...	...	...	231
Sputum	...	...	...	...	...	7
						<u>5,648</u>

(C) Diagnostic Centre—Family Planning Unit (F/South Ward).

Total number of Cases	...	...	...	...	7,453
Complications	...	...	...	...	310
Screening	...	...	...	...	621
Vasectomy	...	...	...	...	493
Loops	...	...	...	...	42
Gynaec Cases	...	...	...	...	2,160
Surgery Cases	...	...	...	...	355
Paediatric Cases	...	...	...	...	371
Medical	...	...	...	...	350
Oral Pills	...	...	...	...	99

Laboratory Work

Blood—Total number of Cases	...	...	...	...	2,041
	E. S. R.	...	...	...	234
	H. B.	...	...	...	1,756
	R. B. C.	...	...	...	34
	T. C.	...	...	...	1,093
Urine—Total number of Cases	D. C.	...	...	...	1,042
	...	...	...	...	1,278
	Microscopic	...	...	...	459
Stool—Total investigations	...	...	...	...	284
Semen—Total number of cases	Bile salts & Bile pig	...	...	...	38
	...	...	...	...	171

General Practitioners Contacted

Number of Doctors contacted	...	...	...	...	4,381
Follow-up	...	...	...	...	1,373
Contraceptives distributed	...	...	...	...
	Condoms	...	...	...	1,284
	Loops	...	...	...	200
	Jelly	...	...	...	14
	Foam Tablets	...	...	...	33

(D) Immunization Centre,								
Polio	I	...	...	...	...	...	...	3,493
	II	...	...	...	...	...	...	3,490
	III	...	...	...	...	...	...	3,493
BooStar	...	...	...	...	...	...	5,462	
Triples	I	...	...	...	...	...	...	3,493
	II	...	...	...	...	...	...	3,492
	III	...	...	...	...	...	...	3,493
BooStar	...	...	...	...	...	...	5,462	

DEPARTMENT OF MEDICINE

The following speciality departments come under the Department of Medicine. The account of work done at these departments is given below:—

Cardiology Department:

D. K. G. Nair, Prof. Director of Medicine has taken over as the Head of this Department. Specialised Clinic for different aspects of Heart Disease have been opened. The newly open Congenital Heart Disease Clinic draws a very large number of new patients from not only all over Bombay but also from several parts of Maharashtra and outside.

The Intensive Cardiac Care Unit was started in this hospital in December 1966. This Unit is now having 10 beds. The following are figures of the patients treated in his department during the year under report.

(1) Total number of New Cardiac Patients	...	...	...	2,789
(2) Total number of follow-up	...	...	...	12,480
(3) Cardiac Cases treated in the Ward	...	...	...	1,353
(4) Total No. of ECGs taken during the year	...	...	...	23,874

Intensive Cardiac Care Unit:

Cases Admitted	...	...	...	885
Resuscitation from Cardiac arrest	...	...	...	170

Pacing:

Emergency Bedside Transvenous	...	...	...	110
Permanent Implantation	...	...	...	3
Emergency transthoracic	...	...	...	6

Cardioversion:

Elective	...	...	...	26
Emergency	...	...	...	240
Intracardia electrocardiography	...	...	...	130
Oesophageal electrocardiography	...	...	...	140

The following figures for the last three years will show an ever increasing number of patients is disease of heart & circulation.

	Cardiac O. P. D.	1969	1970	1971
New Cases	...	1,775	2,093	2,789
Follow-up	...	7,235	10,290	12,480
Cardiac Indoor Cases	...	870	920	1,353

Renal Unit & Artificial Kidney Division:

The Renal Unit and its Artificial Kidney Division has continued to make tremendous strides in the year under consideration. The varied activities of the unit has offered facilities for investigations and management of patients of renal disorders and renal failure in particular. The Renal Clinic which is run by appointment on Thursday afternoons saw 506 cases during the year which included 87 new cases and the other old cases being followed up. Besides this, 269 patients were referred as emergency problems for consideration for dialysis by various units in the hospital and from outside to include, patients from the city of Bombay and the state of Maharashtra and Gujrat. Total of 412 dialyses were performed during this year. As indicated last time, with addition of facilities for peritoneal dialysis, as many as 100 peritoneal dialyses have been done so far. The Unit offered intensive care management to 92 patients of acute renal failure and intoxications with ingestion of barbiturates, mandrax and methyl Bromide. The opening of six bedded ward attached to the Unit has helped enormously in the intensive management of individual patients. Efforts are in progress to march ahead soon to achieve the goal of renal transplantation to patients of end stage renal disease after initial rehabilitation with RDT (Regular Dialysis Treatment). It is proposed to convert an area within the Artificial Kidney Unit into a germ-free sterile area to house transplanted patients in the coming year.

HAEMATOLOGY

(1) Number of Patients seen in O.P.D.	New Cases	...	...	600
	Old Cases	...	...	1,498
(2) Investigations :				Number
Haemogram ...	...	...	...	3,315
Urine ...	...	...	...	57
Stools ...	...	...	...	72
Marrow ...	...	...	...	128
Serum Protein-E (Electrophoresis) ...	...	...	...	72
Serum Iron ...	...	...	...	380
Iron Binding Capacity ...	...	...	...	380
R. B. C. Fragility ...	...	...	...	524
Haemoglobin Electrophoresis ...	...	...	...	520
Red cell survival ...	...	...	...	36
Acid Ham Test ...	...	...	...	27
Sucrose Lysis Test ...	...	...	...	32
Urine Haemosiderin ...	...	...	...	30
Ferrokinctics ...	...	...	...	24
Coagulograms ...	...	...	...	502
Cryoprecipitate Preparation ...	...	...	...	1,000

NEUROLOGY :

Two out-patient Clinics are conducted on Tuesdays and Fridays from 1.50 p.m. to 4.00 p.m. About 25-30 New patients are seen in each clinic and a further 75 follow-up cases are seen.

Epilepsy Clinic :

Conducted on Wednesday and Saturday morning from 9.00 to 11.00 a.m. In this clinic 4-6 new patients are seen on every Clinic day and nearly 75 to 100 patients attend for follow-up. Patients attend with surprising regularity. Phenytoin and Phenobarbitone continue to be made available to them at fortnightly or monthly intervals.

Indoor Patients :

The Unit has 32 beds (22 Male, 6 Female & 4 Paediatric). Over the years, increasing referrals have resulted in an almost constant overcrowding of the unit with patients often having to be placed on the floor. The average admission rate per week is 13. As the attendance at the epilepsy has increased, so too, have the number of epileptics admitted for control, observation, investigation. Special investigative procedures continue to be carried out by the unit staff.

GASTROENTEROLOGY

A large increase in the number of G. I. cases continues to occur. The total number of new cases seen were 922, old cases 1,628. Thus 2,550 patients attended the clinic in one year. A detailed report of the various tests and investigations done is given in the report from the Biochemistry Section.

ENDOCRINOLOGY

1,551 cases were seen in the Endocrinology O. P. D. between 1st January 1971 to 31st December 1971. The investigations for these patients were carried out in (a) Radio-isotope Laboratory; (b) Department of Medicine Laboratory. In collaboration with the Clinical Pharmacology Unit, a project of simplifying the procedure for estimation of Urinary 17 KS and 17 KGS was started in October 1971. Some success has been obtained in establishing a simplified modification of the standard procedure. The work is in progress.

RADIO-ISOTOPE

Radio iodine tracer tests	...	701
B. M. R. tests	...	773
Radio iodine therapy	...	46
Scan (Thyroid)	...	123
Yttrium implantation	...	2
Gold 198	...	1

CMEST

Total O. P. D. attendance (New cases)	...	1,338
Follow-up	...	13,358
Pneumoconiosis Clinic New Cases	...	25
Total	...	14,721

Investigations :

Bronohography	...	55
Bronchoscopy	...	75
Pulmonary function tests	...	900
Arterial puncture for blood gas analysis	...	100

V. R. A. Project : (Department of Cardiology);

943 Cardiac patients were rehabilitated as regards their medical, Psychological, social, economic and vocational aspects, so far.

A study of simple data like pulse rate, systolic blood pressure, diastolic blood pressure, pulse pressure, persistent orthostatic and or exertional hypotension, heart size, presence or absence of cardiac failure, diabetes or arrhythmia, etc., were used to determine the long term prognosis as regard morbidity and mortality in patients of acute myocardial infarction right in the beginning of their illness i.e., within 2 weeks of the acute episode.

Persistent orthostatic hypotension, congestive cardiac failure and diabetes were found to constitute a "malignant triad" and has a grave prognosis.

Early ambulation in patients with acute myocardial infarction :

166 consecutive cases of acute Myocardial Infarction attending the K. E. M. Hospital were studied for any ambulation with the aid of radiotelemetry. The ambulation was initiated on the 4th day.

80 out of 165 could not be considered for ambulation on the 4th day as they had undesirable complications (e.g., CCF, Angina, large heart size, heart block and arrhythmias).

In the remaining 85 cases only 15 could complete ambulation of 30 yards within 2 weeks without interruption.

Diabetic Clinic :

The Diabetic Clinic was established in 1958. During the year under report the total attendance at the Clinic was 21,872 out of which 2,008 were registered as New cases. 784 patients were admitted for diabetic treatment.

The Clinic had continued to conduct a Clinical Trial with, Lycanol' tablets and "Artesin" tablets and Capsules. For research purposes, detailed analysis of all the diabetic cases was done.

(1) Only on Diet	...	1,120
(2) Insuline Injection	...	4,880
(3) Oral anti-diabetic drugs	...	8,145
(4) Insuline Injection and Diabetic drugs	...	4,108

PAEDIATRIC (MEDICAL) DEPARTMENT

During the year under report 25,112 new cases were treated at the Out-patient department and 6,014 were admitted as In-patients.

PAEDIATRIC (SURGERY) DEPARTMENT

During the year under report 19,960 new cases were treated at the Out-patient department and 3,285 were admitted as In-patients.

SCHOOL CLINIC DEPARTMENT

Municipal School Clinic worked in five Department, viz., Medical, Ophthalmic, Aural, Skin and Dental where the children from various Municipal Schools are medically examined 2,189 New Children and 20,370 Old Children were treated in the School Clinic Department in addition to 2,616 referred cases making a total 25,175.

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. 69,433.00 during the previous year.

FULL TIME DEPARTMENT OF SURGERY

The full-time Department of Surgery which has been created at these institutions in 1956-57 with the help of the Rockefeller Foundation, New York, has continued to do progress during the year under report (from 1st January 1971 to 31st December 1971).

Blood Chemistry.	No. of samples
BUN, Creatinng, Plasma proteins, Electrophoresis, Electrolytes, Uric Acid, Clotteral, Bilirubin (T/D), Enzymes, Sugar, Calcium, Phosphorous, B. S. P. and Creatinine clearance etc.	... 43,385

Haematological Estimations :

PCV, ESR, WBC (T/D), B. T., C. T., Iron, Vit. B12, Haemoglobin, Methaemoglobin, etc.	... 9,923
Routine Urine	... 1,440
Gastric analysis and allied biochemistry e.g., Ser. Amylase	... 330
Routine Stool	... 2,068
pH and Gas analysis (including Vanslyke)	... 8,045

Special studies j

Blood Volume studies	...	40
Blood and urine Barbiturates	...	172
Heparin—Protamin Titration	...	222
Plasma, Urine and fluid osmolarity	...	60
Sulpha levels in Blood and Urine	...	24
Blood ammonia	...	79
Urine Acetone Bodies	...	39
Acid load test	...	10
		<hr/>
		65,837

Thoracic Surgery Theatre :

(1) Mitral commissurotomy	...	32
(2) Blalock Taussig's shunt	...	5
(3) Ligation of P. D. A.	...	4
(4) Excision and replacement of aortic aneurysm	...	2
(5) Vascular operations	...	15
(6) Exploratory thoracotomy with sternotomy	...	1
(7) Bronchoscopy	...	8
(8) Oesophagoscopy	...	1
(9) Limb Perfusion	...	3
(10) Miscellaneous	...	10

Open heart Surgery :

Closure of ASD in Mitral valvuloplasty	...	1
Closure of V. S. D.	...	1
Excision and replacement of aneurysm of aorta	...	2
Replacement of Mitral valve	...	6
Mitral anuloplasty	...	1
Closure of ASD	...	6
Replacement of Aortic valve	...	4
Total correction	...	4
Exploratory sternotomy under cardiopulmonary by-pass	...	1

After 22nd June 1971 till today work in the theatre was suspended due to major alterations and repairs. The operative work was done hereisgiave l in the C.t V. T C., theatre as per dewith.

Classified list of operations performed in C. V. T. C. during the year 1971 j—

Mitral valve Replacements	...	2
Mitral Commissurectomy under By-pass	...	Nil.
Aortic Valve Replacement	...	4
Aortic Valvotomy, under bypass	...	1
Closure of A. S. D.	...	6
Closure of V. S. D.	...	2
Total correction	...	1
Removal of Myxoma	...	1
Other cardio-pulmonary bypass	...	...
Tricuspid Valve Replacement	...	1
Mitral Commissurectomy	...	127
B. T. Shunt	...	14
Aorto-pulmonary shunt	...	4
Co-arotation of Aorta	...	3
Aortic Aneurysms	...	5
	(2 on bypass)	
Hellar's Operation	...	2
Peripheral Vascular operations	...	12
Ligation of P. D. A.	...	10
Renal Artery Bypass	...	5
Lobectomy	...	5
Pneumonectomy	...	2
Decortications	...	Nil.
Thoracoplasty	...	Nil.
Pericardiectomy	...	3
Thoracotomy	...	13
Cervical sympathectomy	...	5
Lumber sympathectomy	...	5
Scalen node biopsy	...	21
Bronchoecopy	...	86
Oesophagoscopy	...	1
Repair Diaphragmatic Hernia	...	1
Amputations	...	5
Flou al Tapping	...	6
Other Non-specified Procedures	...	63

Experimental Laboratory (T. S. T.):

Liver transplant	...	
Lung transplant	...	
Heart-lung transplant	...	12
Vasectomy	...	24
Vasoplasty	...	5
Abdominal aorta—Arctic cotton graft	...	7
Porto-caval shunt	...	9
Liver perfusion	...	1
Renal revaguation	...	3
Skin grafting	...	1
Study of blood supply to vasodiference	...	11
Vasclip application	...	24
Portal hopertension by injection Micro Resin	...	31
Decorrection of bronchial arter	...	1
Creation of artificial P. D. A.	...	1
Hyperthermic limb perfusion	...	7
Spleen perfusion	...	1
Anoxia arrest	...	1
Superior vena cava and pulmonary artery shunt	...	2
Gastrojejunostomy	...	1
Vagotomy testing	...	1
Pulmonary artery bypass	...	3
Liver biopsy	...	1
Injection of Libiochol to pulmonary Artery	...	1
Abd. Heart Transplant	...	1
Exploratory Laporatomy	...	1
Removal of sutures	...	2
Atrium to pulmonary artery bypass by aorta	...	20
Exploration plus injection Die	...	2
Reopening of vasoclip dog	...	10
Jejuno venogram	...	3
Hepatogram	...	1
Splenogram	...	5
Atrium to pulmonary vein anastomosis	...	1
Exploration of dog	...	2
Mersering the pressure of heart	...	1
Legation of artery to vas	...	1
Lino Renal shunt	...	2
Aertogram and resuturing of iliac artery	...	1
Anastomosis of iliac artery to vein	...	1

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.

Department of Dermatology and Venerology:

During the year under report 32,335 new cases inclusive of referred cases from other sections and 30,044 old cases were treated in the out-patient department and 612 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.	...	415
(2) Blood count	...	100
(3) Urine Examination	...	15
(4) Skin Biopsy	...	180
(5) Allergy patch testing	...	116

Leprosy Clinic:

A Leprosy Clinic is attached to the Department of Dermatology and Venerology which is conducted by Greater Bombay Leprosy Control Scheme and the patients suspected to be suffering from Leprosy are examined at this clinic. The following is the account of work done at this clinic:—

New patients	...	896
Repeat Patients	...	8,974
New A. L. H. Patients	...	23

Analysis of New Patients:

	Tuberculoïd	Intermediate	Lepromatous	Total
Male	... 436	60	49	545
Female	... 187	21	12	220
M/child	... 70	3	4	77
F/child	... 50	1	3	54
Total	... 743	85	68	896

Analysis of 1917 Old cases:—

	Tuberculoid	Intermediate	Leprosomatous	Total
Male	1,113	94	176	1,383
Female	366	40	42	448
M/child	46	...	4	50
F/child	33	...	3	36
Total	1,558	134	225	1,917

Total Attendance	...	...	...	9,870
Total working days	...	...	...	147
Average attendance	...	...	...	63.7
Bact. Smear done	...	...	...	1,327
Negative	...	...	...	1,003
Positive	...	...	...	324
Sweet Function test	...	...	...	108
Concentration Test	...	...	...	11
Negative	...	...	...	10
Positive	...	...	...	1

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	...	...	...	36,460
Cystourethrogram	...	...	...	134
P. E. Gs.	...	...	...	173
Angiography	...	...	...	90
Mycelograms	...	...	...	97
I. V. Ps.	...	...	...	1,610
Histro-salpingiography	...	...	...	425
Barium-meal X-rays, Barium swallows, Barium Enema	...	...	...	4,514
Total :				43,503

K. E. M. Hospital (Department of Diagnostic Radiology):

Cardiac Investigations	...	...	...	157
Angio-cardiograms	...	...	...	95
Aortograms	...	...	...	146
Arteriograms	...	...	...	29
Lymphangiograms	...	...	...	19
Venograms	...	...	...	27
Bronchograms	...	...	...	83
Spleno-portograms	...	...	...	86
Tomograms	...	...	...	88
Routine X-rays	...	...	...	1,770
Cholangiograms	...	...	...	13
Urograms	...	...	...	52
Animal X-rays	...	...	...	24
Total :				2,604

Orthopaedic Centre (Radiology Department):

Plain X-rays	30,518
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C. V. T. C. (Radiology Department):

Plain X-rays	5,621
I. V. Ps.	815
Total :				6,436

Medical Check up Centre

The Centre is gathering attention of the public and as many as 489 patients were examined investigated and treated at the centre during the year under report.

Physio Therapy Centre and School

The Physio-Therapy Centre and School started as a joint venture of Government of India, Government of Maharashtra and the Municipal Corporation of Greater Bombay, Corporation sharing the major portion of expenditure. Now the entire cost is borne by the corporation. Seth G. S. Medical College has been granted extension of affiliation by the University of Bombay for conducting a course leading to B.Sc. Degree in Physio-therapy from June 1967.

40 Students were admitted in June 1971, out of which thirty five are continuing the course in the F. Y. B.Sc. (P. T.) Class. A total of 36 students graduate during the year (23 in April '71 & 13 in October '71). 66 Students are at present undergoing the training.

The following is the work carried out at the Centre during the year under report:—

Particulars :	Patients referred	Treatment given
(1) Out-patients	6,356	63,971
(2) Special investigations at the Laboratory of Electromyography & Electrodiagnosis	302	...
(3) Indoor-patients :		
(i) Orthopaedics	2,506	87,558
(ii) Thoracic Surgery	283	2,877
(iii) Respiratory Disease	296	2,927
(iv) * Cardiology	270	2,315
(v) Psychology	120	4,000
(vi) Other specialities	2,610	28,436
Total :	12,743	1,92,084

* Statistics available only for 5½ months.

Occupational Therapy School and Centre

The Occupational School and Centre continued satisfactorily during the year under report:—
School:—The School has been granted extension of affiliation by the University of Bombay for conducting B. Sc. Degree course in occupational Therapy. The University has further approved the Syllabus for starting M. Sc. Course in Occupational Therapy.

40 New students were admitted during the year under report, 49 students passed in B.Sc., (O. T.) examination held in April 1971 and October 1971. There are now 37 students in first year and 25 students in the 2nd year and 8 casual students.

The unveiling ceremony of Marble Plaque "First Occupational Therapy School in Asia founded by Mrs. Kamala V. Nimbkar in 1950" was done by Dr. R. J. Katrak on 28th November 1971, Shri S. M. Jani, Chairman, Public Health Committee, Municipal Corporation of Greater Bombay had presided over the function. Mrs. Kamala V. Nimbkar, had graced the occasion by her presence.

Centre: The number of patients treated at the Centre was 7,659 and 1,03,779 treatments were given in the Wards and the Centre. The activities of the department have grown more than 225. Splints were made for the patients and amount of Rs. 546.65 realised from the sale was credited to the poor box Fund. About 180 splints were given free for the poor patients. An amount of Rs. 10,000 was also realised from the sale of articles made by patients as a part of their treatment and training programme some of the patients were paid for the work done by them as incentive and part of the motivation programme in the total treatment.

The work in weaving, Tailoring and Printing Sections is being carried out satisfactorily. The following are the other Centres recently established. (1) Andheri, (2) Mulund, (3) Chembur, (4) Ghatkopar, (5) Kurla (6) Bandra.

Prophylactic Immunization Centre

The total number of patient treated during the year at the Centre was 30,402 as against 28,006 in the previous year. 8,531 New cases were registered during the year under report. On 8th March 1971, 190 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 :

1,25,108 Laboratory investigations were carried out during the year 1971 in the Central Clinical Laboratory (A part from Ward and O. P. D. Laboratories) on the material sent from the hospital as against 1,06,992 and 91,925 in the year 1970 and 1969 respectively. These investigations are grouped under the following heads:—

(1) Pathological investigations	56,298
(2) Bacteriological investigations	32,237
(3) Skin Tests	26
(4) Biochemical Investigations	36,547

Following table shows the number of Paraffin blocks prepared for histological examination from the autopsy material and surgical tissues from 1st January 1971 to 31st December 1971 together with the figures for the previous two years:—

Year	Block of Post-mortem organs	Block of tissues from the Surgical side of K. E. M. Hospital and from outside.	Total
1971	13,580	16,574	30,154
1970	15,031	13,725	28,756
1969	13,424	12,159	25,583

1792 autopsies were performed during the year 1971 as against 1820 and 1858 during the two previous years.

Food Handler's Scheme

565 persons were directed for examination by H.O.'s Department from 1st March 1971 to 29th February 1972 out of which only 318 persons attended for examination. 70 persons did not give their stools, blood etc., for pathological examination and hence their reports are still pending. In all 237 fit and 11 unfit certificates were issued during the year under report.

Neuropathology Department

(1) Surgical number of specimens received from hospital	...	...	...	325
(2) Number of blocks	...	...	...	600
(3) Number of slides	...	...	...	1,050
(4) Number of Post-mortem specimens	...	...	...	188
(5) Number of blocks	...	...	...	775
(6) Number of slides	...	...	...	1,200
				4,138

SHANTILAL MATHURADAS BLOOD BANK

(Bombay Municipal Blood Bank)

The total number of blood samples including those from voluntary donors was 12,251 out of Blood samples collected 6,811 were from voluntary donors and 2,014 from relative donors and 2,620 from professional donors and 696 were the samples brought from other hospitals. An amount of Rs. 31,380 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. No. of Bottles supplied during the year was 12,154 as shown below:

(1) K. E. M. Hospital	...	...	...	9,141
(2) Other Municipal Hospitals	...	...	...	326
(3) Other Institutions	...	...	...	588
(4) Private Hospitals	...	...	...	75
(5) Haffkine Institute	...	...	...	1,760
(6) Bottles discarded	...	...	...	264
				12,154

Dr. Jivraj N. Mehta Pharmaceutical Laboratory

The details of the manufacturing work done in the Laboratory during the year 1971 are given below:—

1. Production :

(a) Transfusion Bottles 500 ml.	...	...	...	1,32,424
(b) A. C. D. Bottles	...	...	...	12,725
(c) Other bottles :				
Distilled Water 500 ml.	...	...	...	15,825
Flushing solution 500 ml.	...	...	...	509
				16,334
Total				1,61,483
(d) Vials 10, 50, 100 mls. (15 different types)	...	...	...	14,510
(e) Sterile Solutions	...	...	...	314
(f) Stains and solution for Clinical use (12 types)	...	...	...	486.10
(g) Miscellaneous items :				
(i) Biofler (Diuretic)	...	...	...	355
(ii) Enema & Hand soap	...	...	...	2,955
(iii) Bone Wax (Surgical)	...	...	...	5.8
(iv) Repacking from bulk	...	...	...	2,328
(h) Transfusion Sets	...	...	...	29,614
(i) Bleeding sets	...	...	...	19,975

2. Central Sterile Supply Service :

Sterilization of following articles:—

(a) Drums	...	...	...	43,890
(b) Trays	...	...	...	16,792
(c) Flasks, Jars, Pots & Theatre Bottles	...	...	...	5,350
(d) Boxes (Transfusion and Bleeding sets)	...	...	...	12,815
(e) Transfusion bottles and other bottles	...	...	...	1,61,423
(f) Vials	...	...	...	12,815

3. Control Laboratory :

(a) Sterility Tests	...	...	...	870
(b) Pyrogen Tests	...	...	...	363
(c) Tests for Contents	...	...	...	644

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 ...	5,10,507	28,991	36,893	5,76,391
(2) In-patients ...	68,648	1,874	9,815	80,337
(3) Ordinary	3,726	50	138	3,914
Total ...	5,82,881	30,815	46,946	6,60,642

Advisory Medical Board

During the year under report, the Advisory Medical Board held 6 meetings of the Honorary and Professorial Staff.

Staff Society Clinical Meetings

The Staff Society of the K. E. M. Hospital and Seth G. S. M. College held 10 meetings during the year, when papers on the various subjects were presented.

Nursing Staff

During the year under report 127 Nurses were sent up for General Nursing Part I Gr. 'A' Examination. Hundred and five (105) out of these passed out. Similarly from 92 Nurses sent up for Part I Gr. 'B' Examination 79 passed out. From 17 Nurses sent up for part I Gr. 'A' & 'B' Examination 10 were successful. 73 Nurses were sent up for Part II Exam. and from amongst them 59 passed out. From the 85 Nurses who appeared for Midwifery Examination held by the Maharashtra Nursing Council 82 were successful.

The arrangement of sending nurses to the Kasturba Hospital for training in Infection Diseases was continued during the year under report. Six students Nurses were directed to the Kasturba Hospital every month for training for a period of one month.

The Bi-annual Conference of the Student Nurses was held by the T. N. A. I. at Hyderabad in October 1971 and two delegates from this hospital attended the Conference. They had presented a model of "Kidney Haemodialysis" at the exhibition and this was awarded a 2nd prize.

Smt. K. D. Upadye, Sister-Tutor has been deputed on study leave for 2 years in Post Basic B.Sc. Nursing Course at the College of Nursing J. J. Hospital, Bombay from July 1970.

Smt. V. N. Shahapurkar who had been deputed on study leave for 2 years for B.Sc. Nursing (Degree course) at Ahmedabad reported for duty in May 1971 after successful completion of the course and is now holding the post of Sister Tutor.

Staff Nurse, Smt. Valsala was deputed for a refresher course in Paediatric Nursing at Chandigarh for a period of three months from Sept. 1971 to December 1971. She was also selected and continued for National Course for a period of one month following the paediatric Nursing Course. Expenditure for Boarding, lodging and Travel in respect of the candidate for the above courses was borne by the W. H. O. Authority through UNICEF Assistance.

4 Nurses of this hospital were trained in B.C.G. vaccination during the year at the J. J. Hospital, Bombay and the period of absence during this course was treated as on duty.

4 Nurses of this hospital were granted special casual leave for 9 days for attending the excursion for the Nursing Staff at Delhi, Agra, Nainital etc., in February 1972. 50 per cent cost of which was borne by the Corporation.

Election for the members to work on the Maharashtra Nursing Council was held during Feb. 1972. Smt. S. N. Bellimal, Matron and Smt. D. J. Mehta Sr. Asstt. Matron were elected as members on the Maharashtra Nursing Council. Smt. S. N. Bellimal, Matron continued to be a member of the Indian Nursing Council during the year under report.

The total number of Nursing Staff during the year was 778 inclusive of the superior staff.

The cost of the Nursing Establishment worked out to Rs. 342.65 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 resident. 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 utilized for providing Amenities to the Nurses, such as subscription for Reader's Digest, variety entertainments, sports, paying bills for non-residential members for general lunches and also giving loans to the Nurses in their difficulties.

K. E. M. Hospital & Seth G. S. Medical College Employees co-operative Credit Society.

The Society worked satisfactorily during the year under report. The total number on the roll at the end of June 1971 was 1701. The share capital amounted to Rs. 5,22,590 on 30th June 1971 as against Rs. 5,36,926 on the corresponding date of the previous year.

The accounts of the Society upto 30th June 1971 were audited by the Government Auditors and the Society was Awarded 'A' Certificates.

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. Klemibai 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. 90,182.02 was spent out of the poor Box Charity Fund in the year 1971-72 as against Rs. 99,652.39 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. 43,758.61 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 1971-72 including liabilities at the end of the year but exclusive of the cost of extension scheme amounted to Rs. 1,95,52,219.00 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 buildings.

New Construction and Expansion and Extension

Works Completed :

- (1) Renovation and extension to E. N. T. Department with provision of a separate ward.
- (2) Extension of R. M. O's, Quarters.

Works in Progress :

- (1) Extension of Cardio-Vascular Thoracic Centre.
- (2) Extension to Minor Surgery Department.
- (3) Renovation and expansion of a separate ward for Neuro-Surgery Department.
- (4) Air-conditioning of Tetanus Wards, Biochemistry Department and Laboratory of Medicine and Surgery Department.

Other Expansions :

- (1) Registration Section of M. R. D. in the O. P. D. has been provided with modern counters and this section is now situated near Casualty Department.
- (2) Modern counters have also been provided for the patient's Guide and this has been situated near the main entrance which is a conspicuous place.
- (3) An old Gift shop has been renovated and placed near the patient's Guide's counter.

T. H. RINDANI.

M.D., D.Sc., F.A., Sc. F.A.M.S.

Dean, K. E. M. Hospital & Seth G. S. Medical
College, Parel, BOMBAY-12.

APPENDIX NO. 1.

STATEMENT SHOWING THE DISTRIBUTION OF BEDS ACCORDING TO CLASSIFICATION OF DEPARTMENTS, SEX AND UNITS.

Departments	Head of the Units	Male	Female	Childrens	Unclassified	Total
MEDICAL Including Tetanus.	Dr. K. G. Nair	20	18	4	...	42
	Dr. J. K. Mehta	20	12	...	...	32
	Dr. V. N. Acharya	24	14	...	...	38*
	Dr. A. F. Golwalia	20	12	...	...	32
	Dr. J. M. Mehta	20	12	...	...	32
	Dr. P. D. Anjaria	20	12	...	...	32
SURGICAL	Dr. P. K. Sen	10	3	...	...	13
	Dr. G. D. Adhia	19	5	...	...	24
	Dr. V. S. Sheth	19	5	...	...	24
	Dr. M. L. Vaze	19	5	...	...	24
	Dr. G. B. Parulkar	19	5	...	...	24
	Dr. R. A. Bhalerao	19	5	...	...	24
	Dr. A. B. Samsi	19	5	...	...	24
OPHTHALMIC	Dr. D. G. Mody	14	10	...	...	24
	Dr. B. T. Maskati	11	6	...	...	17
GYNAEC	Dr. V. N. Purandare	14	...	...	...	14
	Dr. (Miss) N. D. Motashaw	...	14	...	...	14
	Dr. M. R. Narvekar	...	14	...	...	14
	Dr. (Mrs) S. J. Joglekar	...	14	...	...	14
OBSTETRIC	Dr. V. N. Purandare	...	44	...	...	44
	Dr. (Miss) N. D. Motashaw	...	44	...	...	44
	Dr. M. R. Narvekar	...	44	...	...	44
	Dr. (Mrs) S. J. Joglekar	...	44	...	...	44
SKIN & VENE- REAL	Dr. S. C. Desai	16	10	6	...	32
ORTHOPAEDIC	Dr. A. V. Bavdekar	40	27	13	...	80
	Dr. R. M. Bhansali	40	27	13	...	80
	Dr. L. N. Vora	40	27	13	...	80
AURAL	Dr. J. V. Desa	6	5	13	...	24
	Dr. S. R. Rege	6	5	13	...	24
PSYCHIATRIC	Dr. N. S. Vahia	16	4	4	...	24
	Dr. V. N. Bagadia	16	4	4	...	24
NEUROSURGI- CAL	Dr. H. M. Dastur	18	10	8	...	36
NEUROLOGY	Dr. E. P. Bharucha	22	6	4	...	32
PAEDIATRIC (MEDICAL)	Dr. (Mrs) P. E. Bharucha	...	...	32	...	32
	Dr. M. P. Bhagat	...	...	32	...	32
	Dr. R. J. Buhari- walla	...	...	32	...	32
	Dr. K. S. Goleria	16	14	10	12	52
PLASTIC SUR- GERY & BURNS	Dr. P. K. Sen	10	6	...	...	16
	Dr. G. B. Parulkar	10	6	...	...	16
ISOLATION RESUSCITA- TION	ISOLATION	4	2	...	...	6
	RESUSCITATION	4	1	...	...	5
CARDIO-VAS- CUIAR & THOR CIC SURGERY	Dr. P. K. Sen & Dr. G. B. Parulkar	29	19	...	...	48
	Dr. Ivan J. Pinto	8	6	...	10	24
CARDIOLOGY	Dr. K. G. Nair	14	2	...	...	16

* These include 6 beds (4 + 2 female) for A. K. D. male

APPENDIX NO. 1—Contd.

Departments	Head of the Units	Male	Female	Childrens	Unclassified	Total
CHEST CLINIC	Dr. S. D. Store	13	11	...	...	24
PAEDIATRIC-SURGERY	Dr. P. K. Sen Dr. R. K. Gandhi	...	...	3 40	...	3 40
DRUG TRIAL (CIBA)	DRUG TRIAL (CIBA)	...	...	...	10	10
DRUG TRIAL (CIPLA)	DRUG TRIAL (CIPLA)	...	...	...	10	10
DRUG TRIAL (UNICHEM)	DRUG TRIAL (UNICHEM)	...	...	...	10	10
UROLOGY	Dr. D. K. Karanja-vala	8	5	3	...	16
TOTAL		599	552	247	52	1,450

* These include 6 beds for A. K. D. as under :—

Male : 4

Female : 2

Medical beds are inclusive of beds for Tetanus Haematology, Gastroenterology, Endocrinology and Diabetes as shown below :—

	Male	Female	Children	Total
Tetanus	10	6	4	20
Haematology	4	2	...	6
Gastroenterology	4	2	...	6
Endocrinology	4	2	...	6
Diabetes	4	2	...	6

APPENDIX NO. 1A

Statement showing the Distribution of Beds According to wards, Services and Heads

Ward No.	Service	Name of the Head of the Service	Bed Unit's beds	Strength Total Scheduled of Ward
I.	Paediatric (Medical)	Dr. (Mrs.) P. E. Bharucha Dr. R. J. Buhariwalla	30 } 30 }	60
II.	Paediatric (Medical) Paediatric (Surgical) Psychiatric Psychiatric Neurology	Dr. M. P. Bhagat Dr. R. K. Gandhi. Dr. N. S. Vahia. Dr. V. N. Bagadia Dr. E. P. Bharucha.	30 } 18 } 4 } 4 } 4 }	60
III.	Paediatric (Surgical) Aural Neurosurgical	Dr. R. K. Gandhi. Dr. P. K. Sen. Dr. J. V. Desai Dr. S. R. Rego Dr. H. M. Dastur Dr. D. K. Karanjawalla	22 } 3 } 8 } 8 } — } 3 }	44
IV.	Medical (Female) Psychiatric	Dr. K. G. Nair Dr. V. N. Acharya Dr. P. D. Anjaria. Dr. N. S. Vahia. Dr. V. N. Bagadia.	16 } 12 } 12 } — } 4 }	44
IV-A.	Medical (Female) Psychiatric Neurology	Dr. J. M. Mehta. Dr. A. F. Golwalla. Dr. J. K. Mehta. Dr. N. S. Vahia Dr. E. P. Bharucha.	12 } 10 } 12 } 4 } 6 }	44
V.	Surgical (Male)	Dr. V. S. Sheth Dr. G. B. Parulkar Dr. G. D. Adhia. Dr. P. K. Sen.	19 } 19 } — } 10 }	48

APPENDIX No. 1A—(Contd.)

Ward No.	Service	Name of the Head of the Service	Bed Unit's beds	Strength Total Scheduled of Ward			
VI.	Surgical (Male)	Dr. A. B. Samsi. Dr. C. S. Worah. Dr. R. A. Bhalerao Dr. P. K. Sen.	19 19 2	48			
	Urology	Dr. D. K. Karanjawalla.	8				
VII.	Surgical (Male)	Dr. G. D. Adhia. Dr. R. A. Bhalerao	19 17	48			
	Aural	Dr. J. V. Desai Dr. S. R. Rege	6 6				
VIII.	Surgical (Female)	Dr. P. K. Sen. Dr. V. S. Sheth. Dr. A. B. Samsi. Dr. G. D. Adhia. Dr. G. B. Parulkar. Dr. M. L. Vaze. Dr. R. A. Bhalerao.	3 5 5 5 5 5 5	48			
	Aural	Dr. J. V. Desai Dr. S. R. Rege.	5 5				
	Neurosurgery	Dr. H. M. Dastur	5				
	Urology	Dr. D. K. Karanjawalla.	5				
	IX.	Medical (Male)	Dr. S. D. Store Dr. A. F. Golwalja. Department of Medicine		14 20 6	40	
		X.	Neurosurgery		Dr. H. M. Dastur		18
			Neurology		Dr. E. P. Bharucha.		22
	Psychiatric		Dr. N. S. Vahia		5		
	Psychiatric		Dr. V. N. Bagadia.		5		
	XI.	Medical (Male)	Dr. J. M. Mehta		20	40	
Cardiology (Male)		Dr. K. G. Nair	20				
XII.	Medical (Male)	Dr. V. N. Acharya	20	40			
		Dr. J. K. Mehta.	20				
XIII.	Ophthalmic	Dr. D. G. Mody	24	41			
		Dr. B. T. Maskati	17				
XIV-XIVA	Labour obstetrics	Dr. V. N. Purandare	44	182			
	Ante-Natal	Dr. (Miss) N. D. Motashaw	44				
	Post-natal	Dr. M. R. Narvekar	44				
	Sterilization	Dr. (Mrs.) S. J. Joglekar	44				
	Prematurity		† 6				
	Post-Operative		18				
	Waiting Ward		23				
	Labour Ward		10				
	Septic ward		6				
	Side Room		3				
	Eclampsia		3				
	Receiving Room		2				
	Theatre		3				
	Prematurity		176 6				
Total			182				
XV & XVA	Gynaecology	Dr. V. N. Purandare	14	56			
		Dr. (Miss) N. D. Motashaw	14				
		Dr. M. R. Narvekar.	14				
		Dr. (Mrs.) S. J. Joglekar	14				
XVI & XVIIA	Plastic Surgery Burns	Dr. K. S. Goleria.	40 12	52			

APPENDIX No. 1A—(Concl'd.)

Ward No.	Service	Name of the Head of The Service	Bed Unit's beds	Strength Total Scheduled of The Ward
XVII & XVIII	Skin & Venereal Isolation	Dr. S. C. Desai	32 6	38
XIX.	Psychiatric	Dr. N. S. Vahia Dr. V. N. Bagadia.	11) 11)	22
XX.	Resuscitation		5	5
XXI.	Aural	Dr. J. V. Desai Dr. S. R. Rege.	5) 5)	10
XXII.	Tetanus	Dr. K. G. Nair	20	20
XXIII.	Thoracic	Dr. P. K. Sen & Dr. G. B. Parulkar	16	16
XXIV.	Drug Trial.	CIBA WARD	10	10
XXIV-A	Drug Trial.	Cipla Ward	10	10
XXIV-B	DRUG Trial	Unichem Ward	10	10
XXV.	Orthopaedic (Male)	Dr. R. M. Bhansali.	40	40
XXIV.	Orthopaedic (Female) (Children)	Dr. R. M. Bhansali.	40	40
XXVII.	Orthopaedic (Male)	Dr. A. V. Bavdekar.	40	40
XXVIII.	Orthopaedic (Female) (Children)	Dr. A. V. Bavdekar.	40	40
XXIX.	Orthopaedic (Male)	Dr. L. N. Vora.	40	40
XXX.	Orthopaedic (Female) Children)	Dr. L. N. Vora.	40	40
XXXI.	C. V. T. C.	Dr. P. K. Sen (General Surgery) Dr. P. K. Sen & Dr. G. B. Parulkar	4) 44)	48
XXXII.	Chest Clinic Cardiology	Dr. S. D. Store Dr. Ivan J. Pinto Dr. K. G. Nair.	24) 24) 4)	52
XXXIII.	Neurosurgery	Dr. H. M. Dastur.	18	X 18
XXXIV.	Artificial Kidney.	Dr. V. N. Acharya.	6	* 6
			Total	1,450

† These beds are under the Care of Paediatric (Medical)

X. Sex-wise distribution is as under :

Male	10
Female	5
Children	3

* Sex-wise distribution as under

Male	4
Female	2

The beds in Medical Wards—IV and IVA (Female) and IX and XI (Male) are inclusive of the following bed

(1) Dr. B. C. Mehta Haematology	Ward IX—4 Male	Ward IVA—2 Female
(2) Dr. S. D. Bhandarkar Endocrinology	Ward IX—4 Male	Ward IV—2 Female
(3) Dr. M. K. Dirwani Diabetics	Ward XI—4 Male	Ward IV—2 Female
(4) Dr. B. D. Pimparkar Gastroenterology	Ward XI—4 Male	Ward IVA—2 Female

APPENDIX No. 2

Statement showing the particulars of Indoor and Out-door patients, the number of Operations performed etc. during the years 1971, 1970 and 1969.

Particulars	1971	1970	1969
(a) In-patients—			
(1) Schedule strength of beds ...	1,450	1,333	1,232
(2) Daily average number of In-patients ...	1,847	1,793	1,826
(3) Total number of new In-patients admitted ...	60,079	60,761	61,011
(4) Average number of days each patient was resident ...	11.3	10.8	10.6
(b) Out-patients—			
(1) Total number of new Out-patients attendance ...	3,78,015	3,66,994	3,45,096
(2) Daily average number of new Out-patients ...	1,240	1,203	1,335
(3) Total number of Out-patients attendance New & Old ...	7,55,180	7,17,150	6,71,070
(4) Daily average number of Out-patients attendance ...	2,476	2,351	2,207
(5) Number of Casualty Patients ...	38,778	44,644	65,165
(c) Operations—			
(1) Total number of Operations on In-patients ...	26,331	25,849	24,411
(2) Total number of Operations on Out-patients ...	42,879	45,209	41,292

APPENDIX No. 3

Statement showing the In-patients treated in the K. E. M. Hospital during the year 1971 with the classification according to Depts. Sex, Age, Discharges & Deaths.

Departments	Unit	Sex	In the Hospital at the mid-night of 31st Dec. 1970	Admitted during the year 1971	Total treated	Discharg-ed during the year	Died during the year	In the Hospital by the midnight of 31st Dec. 1971
Medical	.. I	Male	52	1,739	1,791	1,600	164	27
		Female	24	873	897	785	102	10
Medical	.. II	Male	47	1,485	1,532	1,237	222	53
		Female	31	820	851	729	98	24
Medical	.. III	Male	36	1,323	1,359	1,187	155	17
		Female	15	621	636	568	61	7
Medical	.. IV	Male	65	1,705	1,771	1,432	295	44
		Female	27	902	929	749	155	25
		M/Child	5	251	256	128	123	5
		F/Child	...	171	171	78	92	1
Medical	.. V	Male	23	1,291	1,314	1,100	174	40
		Female	12	640	652	557	78	17
Medical	.. VI	Male	30	1,414	1,444	1,210	199	35
		Female	11	672	683	571	95	17
Surgical	.. I	Male	38	1,619	1,657	1,526	96	35
		Female	10	470	480	414	60	6
Surgical	.. II	Male	35	1,622	1,292	1,521	103	33
		Female	13	535	558	482	63	13
Surgical	.. III	Male	21	1,271	1,292	1,183	83	21
		Female	11	363	374	321	46	7
Surgical	.. IV	Male	47	1,688	1,735	1,598	93	41
		Female	11	462	473	400	50	13
Surgical	.. V	Male	23	1,343	1,366	1,243	88	35
		Female	10	336	346	293	42	11
Surgical	.. VI	Male	29	1,302	1,331	1,195	125	11
		Female	6	414	420	355	56	9
Ophthalmic	.. I	Male	5	393	398	387	...	11
		Female	6	188	194	186	1	7
		M/Child	3	26	29	28	...	1
		F/Child	...	20	20	20	...	...
Ophthalmic	.. II	Male	11	378	409	400	...	9
		Female	9	225	234	227	1	6
		M/Child	...	39	39	39	...	...
		F/Child	...	16	16	16	...	...
Gynaec	.. I	Female	12	919	931	912	5	14
		F/Child	...	...	...	...	...	...
Gynaec	.. II	Female	13	1,162	1,175	1,155	3	17
		F/Child	...	1	1	1	...	...
Gynaec	.. III	Female	18	522	540	525	3	12
		F/Child	...	1	1	1	...	...
Gynaec	.. IV	Female	16	971	993	975	2	16
		F/Child	...	1	1	1	...	...
Skin & Venereal	.. I	Male	19	403	422	405	2	15
		Female	5	124	129	121	4	4
		M/Child	1	32	33	31	...	2
		F/Child	2	35	37	36	1	...
Aural	.. I	Male	6	459	465	459	1	5
		Female	1	356	357	353	1	3
		M/Child	3	221	224	223	1	...
		F/Child	1	230	231	229	2	...
Aural	.. II	Male	8	461	469	459	4	6
		Female	3	382	385	383	2	...
		M/Child	1	228	229	229	...	...
		F/Child	1	227	228	228	...	...
Orthopaedic	.. I	Male	107	710	817	722	25	70
		Female	59	308	367	322	15	30
		M/Child	9	137	146	137	2	7
		F/Child	9	86	95	91	2	2
Orthopaedic	.. II	Male	74	684	753	666	25	67
		Female	42	303	345	298	11	36
		M/Child	12	163	180	171	2	7
		F/Child	7	86	93	87	2	4
Orthopaedic	.. III	Male	74	726	800	727	20	53
		Female	43	290	333	295	14	24
		M/Child	11	172	183	177	...	6
		F/Child	2	128	130	120	...	10

APPENDIX No. 3—(concl.)

Departments	Unit	Sex	In the Hospital at the midnight of 31st Dec. 1971	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. 1971
Psychiatric	.. I	Male	14	266	280	268	1	11
		Female	6	130	136	130	1	5
		M/Child	2	19	21	21	...	...
		F/Child	...	15	15	15	...	...
Psychiatric	.. II	Male	9	332	341	325	2	14
		Female	3	187	190	186	1	3
		M/Child	...	18	18	18	...	...
		F/Child	...	17	17	16	...	1
Neurology	..	Male	18	244	262	209	38	15
		Female	5	105	110	85	20	5
		M/Child	3	75	78	56	16	6
		F/Child	2	36	38	25	7	6
Neuro-surgery	..	Male	18	309	327	305	7	15
		Female	5	143	148	129	7	12
		M/Child	5	58	63	59	2	2
		F/Child	3	42	45	45	...	...
Paediatric (Medical)	.. I	M/Child	18	1,229	1,247	1,072	152	23
		F/Child	26	585	911	768	123	20
Paediatric (Medical)	.. II	M/Child	14	1,115	1,129	943	176	20
		F/Child	16	839	855	697	145	13
Paediatric (Medical)	.. III	M/Child	18	1,110	1,128	961	154	13
		F/Child	8	836	844	689	140	15
Obstetric	.. I	Female	50	2,194	2,244	2,204	6	34
Obstetric	.. II	Female	38	2,740	2,778	2,727	9	42
Obstetric	.. III	Female	29	1,527	1,556	1,525	7	24
Obstetric	.. IV	Female	29	1,686	1,715	1,601	9	25
Plastic-surgery	..	Male	25	340	365	341	3	21
		Female	9	136	145	138	1	6
		M/Child	6	84	90	86	2	2
		F/Child	4	71	75	73	1	1
Thoracic-Surgery	..	Male	33	298	331	273	31	27
		Female	20	177	197	157	21	19
		M/Child	3	63	66	58	5	3
		F/Child	4	51	55	49	6	...
Cardiology	..	Male	18	446	464	392	46	26
		Female	10	186	196	172	20	4
		M/Child	1	13	14	11	2	1
		F/Child	...	12	12	11	1	...
Paediatric-Surgery	..	M/Child	22	2,245	2,267	2,125	97	45
		F/Child	17	1,040	1,057	969	69	19
Asthma	..	Male	17	782	799	740	46	13
		Female	7	383	390	369	14	7
		M/Child	...	4	4	4	...	...
		F/Child	...	7	7	7	...	...
Urology	..	Male	...	230	230	217	3	10
		Female	...	53	53	48	3	2
		M/Child	...	1	1	1	...	...
		F/Child	...	...	...	...	...	...
Diabetic	..	Male	...	25	25	24	...	1
		Female	...	27	27	24	1	2
		M/child	...	...	...	...	...	...
		F/child	...	...	...	...	...	...
Gastro intestinal Clinic	..	Male	...	24	24	20	...	4
		Female	...	7	7	7	...	...
		M/child	...	...	...	...	...	...
		F/child	...	...	...	...	...	...
Hamatology	..	Male	...	18	18	14	1	3
		Female	...	6	6	4	...	2
Endocrinology	..	Male	...	3	3	2	...	1
		Female	...	4	4	3	1	...
Total	..	Male	903	25,353	26,256	23,407	2,057	792
		Female	619	22,565	23,184	21,575	1,089	520
		M/Child	137	7,308	7,445	6,578	724	143
		F/Child	102	4,853	4,955	4,272	591	92
Grand Total ..			1,761	60,079	61,840	55,832	4,461	1,547

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	44,530	2,119
	Female	23,741	959
	M/Child	36	212
	F/Child	33	130
Surgical	Male	62,723	10,606
	Female	20,939	2,549
	M/Child	...	4
	F/Child	...	1
Ophthalmic	Male	15,305	3,057
	Female	5,558	225
	M/Child	1,569	161
	F/Child	1,041	75
Gynaecology	Female	11,244	59
	F/Child	2	13
Dental	Male	9,580	120
	Female	6,151	22
	M/Child	1,265	27
	F/Child	930	15
Skin-Veneral	Male	20,145	65
	Female	7,002	4
	M/Child	4,053	2
	F/Child	3,204	3
Aural	Male	11,523	662
	Female	7,056	187
	M/Child	3,378	44
	F/Child	2,886	354
Orthopaedic	Male	14,352	7,139
	Female	6,575	1,432
	M/Child	3,028	1,276
	F/Child	1,683	905
Psychiatric	Male	4,340	17
	Female	2,466	9
	M/Child	286	...
	F/Child	169	...
Neuro-Surgery	Male	770	7
	Female	361	1
	M/Child	189	...
	F/Child	103	...
Neurology	Male	1,110	5
	Female	596	1
	M/Child	279	1
	F/Child	206	...
Paediatric (Medical)	M/Child	14,220	472
	F/Child	10,892	290
Obstetric	Female	8,001	184
Dispensary Service	Male	8,711	...
	Female	4,056	...
	M/Child	1,669	...
	F/Child	1,238	...
Thoracic-Surgery	Male	466	6
	Female	304	2
	M/Child	67	1
	F/Child	51	...
Cardiology	Male	1,641	3
	Female	1,174	3
	M/Child	128	...
	F/Child	83	...

APPENDIX No. 4

Statement showing Out-Patients (New O.P.D. Casualty) in the K.E.M. Hospital during the year 1970
Classification according to the Department, Sex and Age

Departments	Sex	O.P.D. New Cases	Casualty
Diabetic-Clinic	Male	755	1
	Female	494	...
	M/Child	5	...
	F/Child	6	...
Gastro-intestinal Clinic	Male	131	...
	Female	79	...
	M/Child	10	...
	F/Child	7	...
Endocrinology	Male	192	...
	Female	301	...
	M/Child	19	...
	F/Child	17	...
Epilepsy	Male	180	...
	Female	91	...
	M/Child	62	...
	F/Child	27	...
Asthama Clinic	Male	1,174	3
	Female	649	1
	M/Child	60	...
	F/Child	39	...
Paediatric-Surgery	M/Child	12,877	2,574
	F/Child	7,093	1,329
Plastic-Surgery	Male	178	972
	Female	128	173
	M/Child	103	411
	F/Child	80	202
Urology	Male	66	...
	Female	14	...
	M/Child	2	...
	F/Child	2	...
Haematology	Male	2	...
	Female	4	...
Total	Male	1,97,894	23,790
	Female	1,06,984	5,001
	M/Child	43,295	5,669
	F/Child	29,842	3,218
Grand Total		3,78,015	38,778
New O.P.D.		3,78,015	
Old O.P.D.		3,77,165	
Total		7,55,180	

APPENDIX No. 5

Statement showing the relative cost per In-patient and Out-patient per day during the year 1971-72
and previous two years

Particulars	1971-72	1970-71	1969-70
	Rs.	Rs.	Rs.
(a) Average cost per In-patient per day	24.34	19.46	18.47
(b) Average cost per In-patient admission	270.17	217.78	192.14
(c) Average cost per Out-patient attendance	4.21	6.64	5.69
(d) Average cost per Out-patient admission	8.34	12.20	11.07

APPENDIX No. 6

Statement showing the details of cost per In-patient for the year 1971-72 and previous two years.

Year	Diet	Drugs	Stores	Heating	Misce-	Estab-	Repairs to	Total	
		Dressings etc.	and Linen	and Lighting	llaneous	lishment	Building and Engineer- ings		
		Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	
1971-72	...	2.77	4.31	1.65	0.44	2.38	12.39	1.18	21.36
1970-71	...	1.76	4.32	1.72	0.42	2.13	8.42	0.69	19.46
1969-70	...	1.75	4.82	0.97	0.34	1.30	8.92	0.37	18.47

APPENDIX No. 7

Statement showing the average cost of each New Out-patient admission for the year 1971-72 and previous two years.

Year	Drugs	Stores	Heating	Misce-	Estab-	Repairs to	Total	
	Dressings etc.	and Linen	and Lighting	llaneous	lishment	Building Engineer- ing		
	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	
1971-72	...	2.77	0.58	0.03	0.39	4.44	0.12	8.24
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

APPENDIX No. 8

Statistical Information

Average age of students.	Year	Year
	1971-72	1970-71
I. At the time of admission	...	19 Years
II. At the time of Matriculation	...	17 Years
<i>Marital state at the time of admission :</i>		
I. Married
II. Betrothed
III. Single	...	Yes
<i>Occupations of parents or guardians :</i>		
Service	...	50%
Medical Profession	...	8%
Legal Profession	...	2%
Engineering	...	2.5%
Miscellaneous occupations	...	37%

APPENDIX No. 9

Annual Cost and Revenue

	1971-72	1970-71
	Rs.	Rs.
Total expenditure including expenditure on hostels	27,26,500.00	27,25,016.00
Dearness Allowance (included in the above figures)	10,53,600.00	9,33,730.00
Revenue from tuition fees, Hostel rent and Miscellaneous receipts	3,61,725.00	3,37,783.00
Revenue from Post-graduate fees	78,821.00	82,761.00
Gross cost per student	2,054.63	2,072.26
Net cost per student	1,722.64	1,753.21
Income from Hostel	53,016.00	50,944.00
Expenditure on Hostel	91,680.00	79,680.00

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	125	35	161
1st M. B., B. S. 2nd year	15	6	21
2nd M.B., B.S. (I, II, & III term)	111	57	168
3rd M.B., B.S. (I, II, & III term)	186	157	343
Interns	83	83	166
Total number of Undergraduates	520	339	859
Total number of Post-graduates	310	158	468
Grand Total	830	497	1,327

APPENDIX No. 11.

Results of various Examinations.

Name of the Examination.	April 1971		October 1971	
	Appeared	Passed	Appeared	Passed
1st M.B.B.S.	23	19	158	143
2nd M.B.B.S.	151	136	29	26
3rd M.B.B.S.	65	50	166	146
M.D. (Medicine)	16	5	22	11
M.D. (Path and Bact.)	5	Nil.	5	2
M.D. (Obst. and Gyn.)	10	3	16	4
M.D. (Pharmacology)	Nil.	Nil.	1	1
M.D. (Tuberculosis)	1	1	Nil.	Nil.
M.D. (Paediatrics)	14	3	18	7
M.D. (Skin Diseases)	1	1	Nil.	Nil.
M.D. Anaesthesia	3	1	5	3
M.D. Radiology	2	2	1	1
M.D. Prev. and Sec. Med.	Nil.	Nil.	Nil.	Nil.
M.D. Psychological Medicine	2	2	1	Nil.
M.D. Human Physiology	Nil.	Nil.	Nil.	Nil.
M.D. Neurology	Nil.	Nil.	Nil.	Nil.
M.D. Cardiology	Nil.	Nil.	1	Nil.
M.S. Gen. Surg.	16	6	16	4
M.S. Orthopaedics	2	1	7	1
M.S. E.N.T.	1	Nil.	3	2
M.S. Ophthalmology	1	Nil.	2	1
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	1	Nil.	Nil.	Nil.
M.Sc., Medical Human Anatomy	Nil.	Nil.	Nil.	Nil.
D.A.	14	12	14	12
D.V.D.	2	2	2	2
D.P.H.	2	Nil.	3	1
D.P.M.	Nil.	Nil.	2	1
D.M.R.D.	1	1	1	1
M.Sc. Bioch. by Papers	14	10	...	...

APPENDIX No 11—(Concd.)

Results of various Examinations

Name of the Examination.	April 1971		October 1971	
	Appeared	Passed	Appeared	Passed
M.Sc. Bioch. by Research	...	3	...	5
M.Sc. Microbiology Research	...	1	...	...
M.S. Applied Bio. by Research	1
M.Sc. Animal Physiology by Research
Ph.D. Applied Biology
Ph.D. Biochemistry	...	1	...	...
Ph.D. Animal Physiology
Ph.D. Microbiology
Ph.D. Medical
Ph.D. (Human Physiology)	1
Ph.D. (Pharmacology)	1

Result of the College of Physician and Surgeons of Bombay.

Name of the Examination.	April 1971		October 1971	
	Appeared	Passed	Appeared	Passed
M.C.P.S.	4	4	2	1
F.C.P.S.	Nil.	Nil.	6	4
D.G.O.	16	11	13	8
D.C.H.	5	3	12	6
D.F.P.	8	8	8	8
D.O.M.S.	1	Nil.	7	4
D.P.M.	4	3	2	1
D.M.R.E.	1	1	3	3
D.D.V.	Nil.	Nil.	Nil.	Nil.
D.O.R.L.	3	2	Nil.	Nil.
D.Orth.	7	3	2	1
D.A.	1	1	Nil.	Nil.
D.P.B.	1	1	2	2
Diploma in Clinical Pharmacology	...	...	3	3

SETH A. J. B. MUNICIPAL E. N. T. HOSPITAL

The Municipal Ear, Nose and Throat Hospital which was started in December 1962 at the Improvement Trust Building 7, Najier Road, Fort, Bombay-1 has been renamed as Seth Atmasingh Jasasingh Bankbhari Municipal E. N. T. Hospital.

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 1971 was 5649. The average stay of an in-patient in the hospital was 3.57 days during the period. Out of the total number of 5,649 in-patients 637 cured, 4,692 were relieved 227 were otherwise discharged 17 expired leaving 76 patients under treatment in the hospital on the last day of the year. 4 patient went against medical advice.

The highest number of patients admitted on a single day was 37 patients on 25th October, 1971.

Out Patient Department

The total number of new case papers issued during the year 1971-72 was 37736 and the total number of out patient attendances (New 37736 and old 31354 cases) was 69090 bringing the daily average attendance of out patients to 226.52. The highest number of Out Patients on a single day was 380 on 20th September 1971.

Operative Work

5027 operations were performed on in-patients during the year.

Pathology Department

19280 Clinicopathological investigations were performed in the year. Dr. A. R. Chitale is appointed as Part-time Pathologist.

Radiology Department

2169 Radiological investigations were done during the year 1971, 2500 X-ray films were used & 2168 patients recorded for screening.

Audiology Clinic

1935 audiograms were recorded during the year & 47 speech cases were treated. An audiology room for full comprehensive hearing tests of deaf and hard of hearing individuals is ready to go. Service of Speech and Hearing Therapist are also available in this clinic.

Poor Box Charity Fund

Cash boxes were kept in the hospital to enable the patient to drop in their voluntary contributions towards the Poor Box Charity Fund. An amount of Rs.22652.33 was collected for the fund through these boxes during the year 1971-72. 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.

Dr. (Miss) S. R. Mudbhalkar M.B.B.S., D.C.O. (Bom.) who was in charge of hospital administration continued to hold the post of Assistant Medical Officer.

The Medical staff consisted of five Honorary Surgeons, 4 Honorary Assistant Surgeon (Part-time), 3 E. N. T. Registrar, 4 House Surgeons, 2(Part-time) Anaesthetists, 2 Casualty Medical Officers, 1 Honorary Assistant Radiologist, 1 (Part-time) Pathologist.

Nursing Staff consisted of 1 Senior Sister, 6 Sisters and 24 staff Nurses.

Dr. (Miss) S. R. MUDBHATKAL,
Municipal A.J.B.E.N.T. Hospital.

APPENDIX I

Statement showing the particulars of Out Door Patients treated during the year 1971 at the A. J. B. Municipal E.N.T. Hospital.

(1) No. of New cases	...	...	...	...	37736
(2) No. of old cases	...	...	...	...	31354
(3) No. of highest attendance on a single day	...	...	...	...	380 on 20th Sept. 1971.
(4) Daily average No. of out-patients' attendance	...	...	...	...	223.24

Statement showing out-patients (new and old) treated in the A.J.B. Municipal E.N.T. Hospital during the year 1971 with classification according to sex :-

Sex	O.P.D.		Total Attendance.
	New Cases	Old cases	
Male	18570	15067	33637
Female	9419	10293	19712
Male-Child	5366	3722	9088
Female-Child	4381	2272	6653
Total	37736	31354	69090

APPENDIX II

Statement showing the In-door-patients, operations done, etc. during the year 1971 at the A.J.B. Municipal E.N.T. Hospital.

(1) Scheduled strength of beds	...	...	...	100
(2) No. of beds commissioned	...	...	...	100
(3) Total No. of New patients admitted	...	...	...	5649
(4) Average No. of days each patient was resident	...	...	...	3.56 days
(5) Total No. of operations on In-door patients	...	...	...	5027
(6) Number of highest admission on single day was	...	...	...	37 patient on 25th Oct. 1971.

Sex	Admitted	Discharged	Died	In the Hospital.
Male	2189	2136	11	42
Female	1458	1435	4	19
Male-child	998	989	2	7
Female-child	1004	996		8
Total	5649	5556	17	76

Bai Yamunabai L. Nair Charitable Hospital & Topiwala National Medical College

Summary of the Administration Report of B. Y. L. Nair Charitable Hospital for the year 1971-72

Hospital

The total expenditure incurred on the maintenance of the hospital including liabilities at the end of the year amount to Rs. 1,43,17,800.83 approximately as against Rs. 99,12,234 for the previous year.

Donation to the extent of Rs. 2,983.00 were received during the year.

An amount of Rs. 23,061.55 was collected from the boxes kept in the wards and out patients departments of the hospital.

An amount of Rs. 7,839.00 was spent from the fund towards Medicines, Drugs, appliances etc., for the poor patients.

College

The total expenditure of the College amounted to Rs. 20,39,339.34 during the year under report as against Rs. 33,18,099.88 during the previous year.

The net revenue of the College by way of Tuition fees, miscellaneous receipts etc., amounted to Rs. 3,29,514.00 approximately as against Rs. 3,40,792 for the previous year.

RESULTS

Indoor Patients

Schedule bed strength	713
Daily average No. of inpatients	842
Total No. of inpatients treated	32,964
Average stay of inpatient	7.3
Total No. of patients discharged including 862 patients brought from the previous year.	31,337
Total number of deaths	1,701
Total autopsies	567
Total operations performed on Indoor patients	10,489

Outdoor Patients

Total number of new outpatients attendance	2,49,329
Daily average New O. P. D. attendance	815
Total No. of casualty attendance (medicolegal)	10,661
Daily O. P. D. attendance Old and New	3,624
No. of operations performed on out-patient	5,811

(3) Deficiencies

A great deficiencies is experienced by these Institution because of some unforeseen difficulty to implement the expansion programme chalked out for better medical care and smooth running of the Institution.

(4) Suggestion

The expansion scheme chalked out for these institution are required to be implemented without further delay and essential amenities to Doctors, Nurses and Patients (*viz.*, R. M. Os. and Nurses Quarters and Kitchen Mess, etc.) be provided first on priority basis.

ADMINISTRATION REPORT

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, Gastro-enterology, 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. 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 Gangubhai Audiology Clinic at the B. Y. 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.

Administrative Staff

Dr. C. K. Deshpande, M.B.B.S., M.D. (Path) continued to hold the post of the Dean and Dr. V. S. Shende, M.B.B.S., Assistant Dean, helped in carrying out work.

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 32964 against 30909 and 26987 during the year 1970 and 1969 respectively.

On an average, the daily number of inpatients was 842.30 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 a SINGLE-DAY was 962 and highest number of admission on a single day was 141.

Out of total number of 33,826 in-patients including 862 brought from the previous year's balance, 31337 were discharged, 1701 died leaving a balance of 788 patients at the end of the year.

Out of 1701 deaths 510 were within first 24 hours of admission, 332 were after 24 hours but within 72 hours of admission and the remaining 859 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 1109042 as against 710921 for the year 1970 giving a daily average of 3624.32 against 2330.89 for the previous year.

The highest number of attendance on any one day was 5087 as against 4137 for the previous year. The highest number of new and old cases on a single day was 1065 and 4232 respectively.

Appendix No. 9 shows the number of patients (Indoor and Out-door) treated in various clinics of this hospital.

Department of Medicine

Department of Medicine consists of Six medical units, two of which are full time units. These have carried out undergraduate and postgraduate training and research work during the year.

Undergraduate training has been re-orientated, emphasis has been shifted from didactic lectures to small group discussions.

Documentations of clinical work has been introduced as the new activity by the department.

Post-graduate training of the students has been intensified. At the local college level, the post-graduates get training in general Medicine, Cardiology, Neurology and Gastroenterology, as special clinical sessions and discussions. About four sessions per week, are taken for postgraduates.

Clinical meetings are held regularly once a week to review the worked out, clinical material from the hospital.

Department conducts a renal clinic, in which all the Medical conditions affecting Kidney are seen, investigated and treated.

Diabetic clinic was started in January 1972. This clinic undertakes diagnosing the condition, institution of therapy, preventive measures, and health education.

Publications

(By the members of Department of Medicine).

1. Dr. L. R. Patel: "Eventration of Right of dome of Diaphragm" *Current Medical Practice* 15 : 1047: 1971.
2. Dr. A. J. Desai:
 - (1) "Economics of Iron Therapy". Published in *Current Medical Practice* in November 1971.
 - (2) "Hereditary Spherocytosis"—Case report. Article accepted for publication in *Indian Journal of Pediatrics*.
 - (3) "Cardiac Hemolytic Anaemia"—paper read in first semi-annual conference of *Cardiology Society of India* in September 1971.
 - (4) "Systemic Lupus Erythematosis" paper read in *Rheumatology conference* in 1971.
3. Dr. C. V. Shah:

"Exercise Performance of patients with Chronic obstructive lung disease. " Paper read in First semi-annual conference of *Cardiology Society of India* in September 1971.
4. Dr. V. R. Panjabi:

"Arrhythmias in Myocardial infarction" Accepted for publication in *Current Medical Practice*
5. Dr. V. K. Kamat:
 - (1) "Middle lobe Syndrome" *Current Medical Practice* 15 : 895 : 1971.
 - (2) "Hepatic Amoebiasis" *Current Medical Practice* 15 : 905 : 1971.
 - (3) "Juvenile Scapulo-humeral type of muscular Dystrophy" *Current Medical Practice* 15 : 1043 : 1971.
6. Dr. G. J. Kothari & Dr. M. S. Kekre :

Rivanol Lactate/Holquinol Ceuixalin in Intestinal Amoebiasis.
7. Dr. Vanjani:
 - (1) Clinical and Serological study of Rheumatoid Arthritis. (Study of 100 cases).
 - (2) Multisystemic complications of long term cortico steroid therapy in a case of Juvenile Rheumatoid arthritis (A case report)
 - (3) Amoebic liver abscess—Study of 24 cases.
 - (4) Aetiology of Myocardial infarction (Study of 70 cases.).
 - (5) Unilateral clubbing. An unusual manifestation of Aneurysm of Aorta. (A Case report).

Department of Surgery

Department of Surgery consisting of 6 Surgical Units (2 full time units and 4 units) under Hon. Professors, Asst. Professors) carried out clinical, teaching and research work during the year in its various sections. In addition to this we have specialised units like Cardio vascular, Thoracic, Neuro-Surgery, Gastroenterology, Urology, Plastic Surgery and Thyroid clinic.

Publications

- (A) *Publications*: By Dr. S. K. Bhansali.
 - (1) "Some aspects of disorders of Thyroid gland" *Bombay Hospital Journal* 1971.
 - (2) "Acute Pancreatitis: A Study of 42 cases. *Amer. J. of Gastroenterology* 1971.
 - (3) "Primary Carcinoma of Liver: to be published.
 - (4) "Solitary nodules in thyroid. A study of 249 to be published.
 - (5) Some facets of non-toxic goiter—to be published.
- (B) *Conferences Attended*: By Dr. S. K. Bhansali.
 - (1) 3rd Annual conference of Society of Nuclear Medicine of India (Presented paper on solitary nodules in thyroid) Varanasi—1971.
 - (2) 32nd Annual conference of Associations of Surgeons of India (Postponed)—paper on "Some facets of non-toxic goiter" has been accepted.
- (C) *Invitation to Symposia Etc*: By Dr. S. K. Bhansali.
 - (1) Co-moderator for Panel Discussion on "Pancreatitis at 13th Annual Conference of Indian Society of Gastroenterology 1972.
 - (2) Chief initiator for Symposium on "Thyrotoxicosis" Scheduled for 33rd Annual Conference of Association of Surgeons of India.
- (D) *Chapters in Book in Press*: (Dr. S. K. Bhansali)
 - (1) Problem of abdominal tuberculosis.
 - (2) Recent trends in Surgery of Peptic ulcer.
 - (3) Use of radio-active iodine in diagnosis and treatment of diseases of thyroid gland. *Indian Year Book of Medical Sciences*—Ed. R. J. Vakil & M. M. Desai.
- (E) *Extra-Curricular Activities*:
 - (1) Jt. Hon. Secretary, Executive and Co-ordinating committee of B. Y. L. Nair Charitable & T. N. M. College Research Society.
 - (2) Member, Executive Committee, B. Y. L. Nair Charitable Hospital and T. N. Medical College Research Society.
- (F) *Academic Distinctions Achieved*:
 - (1) Awarded Fellowship of American College of Surgeons (F.A.C.S.)
 - (2) Awarded Fellowship of American College of Gastroenterology (F.A.C.G.)

Dr. P. G. Kale, lead a batch of 13 Interns and worked for about 14 Month (from 1-9-1971 to 16-10-71) and carried out various relief operations for the Refugees from Bangla Desh.

Following is the work carried out at various camps.

- (1) Establishing clinics at various camps.
 - (2) Baby clinics.
 - (3) Mobile Health Units.
 - (4) Establishing Mobile Surgical Unit.
- In addition to this 5 Interns were in 1st batch and 6 Interns in the 3rd batch lead by team leader Dr. Dhume.

Department of Obst. and Gynaecology.

The Department of Gynaecology and Obst. consist of 3 units, (one full time Unit and two units) under the Hon. Prof. and Asst. Profs. Each unit function twice a week from 8 a.m. to 10.30 a.m. and from 2 p.m. to 3 p.m.

Publications

The following papers published by the following Doctors.

Dr. R. N. Merchant, Asst. Hon. :

- (1) Anemia in Pregnancy with particular reference to Effect of Parenteral Iron, and Iron with Folic Acid Journal of Obst. and Gynaec. of India Vol. XXI, April 1971.
- (2) Removal of a Metal Rod in Transverse Colon employed to induce Abortion. Journal of Obst. and Gynaec. of India Vol. XXI, October 1971.

Dr. P. R. Vaidya, Asst. Prof. :

- (1) Induction of ovulation, with elomiphone citrate, Journal post graduate medicine 1971.
- (2) Secondary Amenorrhoeas—Evaluation of 121 cases Journal Indian Medical Association 1971.

Dr. M. Y. Raval, Asst. Prof. :

- (1) Spontaneous Intra-peritoneal Haemorrhage.
- (2) A Critical evaluation of Post Catheterization Syndrome.
- (3) Neagles pelvis, a case report.

Papers Accepted for Publications

Neagles Pelvis. Journal of Obst. and Gynaecology of India. October 1971 by Dr. R. N. Merchant.

Foetal loss a study of 100 cases under publication. In Indian journal of Gynaecology and Obst. by Dr. Mrs. S. K. Shah.

Review on maternal mortality, two articles.

- (a) Accepted in Current medical journal.
- (b) Review of Cervicopexy operations. accepted in current medical journal.
- (c) Obstructed labour following cervicopexy report of 2 cases accepted in Indian Journal of Obst. and Gyn. by Dr. M. M. Domadia.

Dr. M. Y. Rawal :

- (1) Total dose inferon therapy in anaemia during late pregnancy.
- (2) Dysfunctional Uterine bleeding clinical-histo-pathological correlation of 180 cases.
- (3) Statistical Review of 207 cases of Breech Delivery.
- (4) Cardiac Disease in Pregnancy.
- (5) A review of 150 cases of Caesarean Section.
- (6) A Critical study of thirty four consecutive cases of repeat Caesarean Section.
- (7) Hysterectomy for the Benign conditions of the Uterus.

Papers Read at Conference :—

Dr. R. N. Merchant, Asst. Hon.

- (1) New Diagnostic Aid — Ultrasonic Doppler Phenomenon presented at 70th Staff Society Meeting, Nair Hospital, June 1971.

Dr. P. R. Vaidya, Asst. Prof. :

- (1) Bicornuate Uteri — two interesting cases with review of literature.

Dr. M. Y. Raval :

- (1) A critical evaluation of post Catheterization syndrome at first Bombay Obstetrics and Gynaecological conference — December 1970.
- (2) Foetal distress in labour at 16th All India Obstetrics and Gynaecological conference.

Dr. U. L. Verma :

- (1) Bicornuate Uteri — Two interesting cases with review of literature.

Research

1. Vaginal Cytology.
2. Colposcopy.
3. Menstrual Blood Culture in Genital Tuberculosis.
4. Placental studies in abnormal pregnancy.
5. Chromatin study.

Two Seminars arranged by C. P. S. were held at Nair Hospital where following papers were read.

- (1) Bicornuate Uteri — two interesting cases with review of literature. Paper read by Dr. K. D. Thakkar and presented by Dr. S. S. Thakur's Unit.
- (2) Vaginal fibromyoma — paper read by Dr. Ila Kothari and paper presented from Dr. Mrs. Nanavati's Unit.
- (3) Klinefelter a Syndrome — Paper read and presented by Dr. (Miss) Billimoria and Dr. Souza.

Department of Pediatrics.

The department of Paediatrics consisting of 2 units. Each units function on alternate days from 8 a.m. to 10.30 a.m.

Activities of the department are as follows:—

- (1) Indoor service.
- (2) Daily out patients service.
- (3) Complete care of the new borns.
- (4) Child welfare centre.
- (5) Child guidance clinic.
- (6) Diagnostic centre.
- (7) School clinic.
- (8) Attendance at the postnatal O. P. D. for the new born follow up.
- (9) Follow up of "Special care" babies.
- (10) Research projects.
- (11) Regular teaching programme for :
 - (a) Undergraduates.
 - (b) Postgraduates.
 - (c) Interns.

Neonatal Ward

Total Deliveries	:	2458
Still births	:	155
Deaths	:	128

Premature Room :

The premature room now has 3 incubators and 3 cribs. Thus there is facility at present only for giving special care at a time only to 6 babies. 119 babies were given special care in 1971. In addition to these, 3 cribs are kept in the labour ward for carrying out therapy like resuscitation, blood transfusion and infusions.

Phototherapy for jaundiced new borns has been started with fluorescent lamp.

Newborn O.P.D. :

The Pediatric registrar attends the postnatal O. P. D. on Mondays, Wednesdays and Fridays and follows up the new born babies. He advises the mothers regarding feeding, weaning, immunizations and family planning. 954 babies were followed up during 1971.

Follow up of Special care babies. :

As the new born and premature O.P.D. is not started yet the premature and "High risk" babies are followed up in the neonatal ward on Tuesdays, Thursdays and Saturdays at 9.30 a.m.

School Health Clinic :

The clinic works for 5 days in a week from 2.30 p.m. to 4.30 p.m. The working of this service was as follows:—

New cases	1056
Old cases	12678
Total	13734

Clinical examination, tuberculin testing, other necessary investigations are carried out regularly. Wherever indicated B. C. G. immunization is done.

DIAGNOSTIC CENTRE (Soutter Street)

The centre works on Mondays and Thursdays from 2.30 p.m. to 4.00 p.m. During the year the work-load was as follows:—

New cases	426
Old cases	1717
Total	2143

Screening and tuberculin testing have been started at the centre.

Child guidance clinic :

The clinic works on Monday, Wednesday, Friday from 2.00 p.m. to 5.00 p.m.

New cases	189
Total No. of active cases	495

These children have been receiving play therapy. The parents are interviewed, and given group and individual talks regarding the management of those children. Complete case records are maintained. It is proposed to further increase the activities of this service.

CHILD WELFARE CENTRE: (Bellasis Road).

Total attendance	1440
Milk Distribution	120
12 Nutritional classes were held.	

Immunizations:

	1st dose.	2nd dose	3rd dose	Booster	Total
Triple Polio	190	151	165	25	489
	428	323	220	36	1097

384 home visits were made. 100 classes were held in health education of mothers.

Publications

1. Small-pox in children, & clinical study of 100 cases. Ind. Journal of Pediatrics: 38: 128, March 1971.
2. Expanded Rubella Syndrome: The Bombay Hospital Journal, Vol. 13, 2: 36, April 1971.
3. Health Education of the Mothers of the low weight babies: The Bombay Hospital Journal Vol. 13, 3: 27 July 1971.
4. Vaginal cyst in new-born: The journal of Obst. and Gynec. of India. Vo. No. 6, P: 792, December 1971.
5. Modern Trends in immunization: A monogram by Indian Ac. Pediatrics.

Accepted Publications:

1. Mesenteric Cyst. — The Bharat Medical Journal.
2. Effect of maternal infection on Fetus — The journal of Obst. and Gynacc. of India.
3. Stuffy nose in new-borns — The Pediatric clinics of India.
4. A child with poor performance at school. The Bombay Hospital Journal.

Papers presented:

1. Pattern of Infections in the neonatal ward. XIII—International Conference, Vienna-1971.
2. Study of 1170 Consecutive Autopsies. XIII—International Conference, Vienna, 1971.
3. Tetanus Neonatorum. XIII—International Conference, Vienna, 1971.
4. Hypertension in Children. XVI—Pediatrics Congress of the Czechoslovakia Ped. Soc. with International Partication. Prague — September 1971.

Department of Dermatology & Venereology

The department functions thrice a week (Tuesday, Thursday and Saturday) from 8.30 a.m. onwards.

The following investigations undertaken in the Department

Investigations and Therapy

- | | | | | | | |
|-----|--|-----|-----|-----|-----|------|
| (A) | (a) Biopsies | ... | ... | ... | ... | 123 |
| | (b) Scales preparations for fungus detection | ... | ... | ... | ... | 483 |
| | (c) V. D. R. L. Tests | ... | ... | ... | ... | 2084 |
| | (d) Blood counts | ... | ... | ... | ... | 457 |
| | (e) Smears for Gonococci | ... | ... | ... | ... | 197 |
| | (f) Urine | ... | ... | ... | ... | 495 |
| | (g) Stool | ... | ... | ... | ... | 130 |
| | (h) E. S. R. | ... | ... | ... | ... | 70 |
| | (i) Photographs | ... | ... | ... | ... | 98 |
| | (j) Superficial X-rays | ... | ... | ... | ... | 32 |
| | (k) Electro dessication | ... | ... | ... | ... | 120 |
- (B) Medical Education — Lectures and clinics — as before.
- (C) Medical Research.
- (a) Vitiligo
 - (b) Psoriasis.
 - (c) Drug reaction
 - (d) Dermadromes
 - (e) Teenage venereal diseases
- (D) Publications:—
- (1) A study of 70 cases of drug eruptions. T. K. Mehta and L. Marquis and J. N. Shetty. Indian Journal of Dermatology & Venereology, January, February 1971.
 - (2) Primary Macular Atrophy (Case report) By. T. K. Mehta and L. Marquis. Indian Journal of Dermatology and Venereology. November December 1971.

Leprosy Clinic

The clinic is open on Thursdays at 8.30 a.m. onwards.

During the year 1971 1891 patients attended the clinic. Individual attendance was 606, 265 new cases were seen at the clinic. 13 cases were transferred from A. L. Hospital. 20 cases were kept for observation. 106 cases were detected as non-leprosy cases. 43 cases (New) contacts were examined. Prophylactic treatment for the contacts was given to 18 patients. Sweat function tests were done in 36 cases.

Of the 265 new leprosy cases seen, 202 were Tuberculoid, 39 were intermediate and 24 Lepromatous.

Department of Anaesthesiology

The department, as usual, continued to provide adequate facilities for elective and emergency operations. The teaching activities continued and the department held various academic meetings for seminars, journal reviews and case discussions. The meetings were held once a week.

Following Papers were read/or Published

1. An interesting anaesthetic problem and its management.
2. Intra muscular Trimeprazine in cardiac surgery.
3. A simple and safe anaesthetic technique for intra Cardiac Surgery.
4. Explosions in E. N. T. theatres.

Dr. S. S. Mehta was appointed as a whole time Prof. of Anaesthesiology in December 1971.

SPECIALISED DEPARTMENT.

1. Cardiology Medical and Surgical Services.—

The Out-patient clinic is open on Monday and Fridays from 11-30 a.m. to 1-30.

During the year 1971, 512 new cases and 5657 old cases were examined and treated at O. P. D. 122 patients were admitted for indoor treatment.

The following papers presented and published :

1. Left atrial ectopic rhythm (First semi annual conference in Cardiology, September 1971).
2. Diagnostic puzzle (Indian Heart Journal July 1971).

Phonocardiograms :	52
Visomonitors in coronary heart disease.	
No. of patients monitored	55
Patients—days	220
For I. C. M. R. project one visomonitor was taken on loan by Dr. C. V. Shah.	
No. of patients studied	50

Defibrillators—

Coronary heart disease on medical side.	
No. of cases	8
A. C. d. fibrillators on surgical side.	
No. of time used—about	60

Cardiac catheterisation.

No. of cases—	20
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Research Projects

1. Long terms study of University professors—an epidemiologic study for the detection of Coronary Disease, Hypertension and Diabetes—in progress. No. of cases—208
2. Establishment of Cardiac Museum-on Coronary heart disease and rehabilitation is complete, a formal inauguration was made by the Governor of Maharashtra state.
3. Study of serum an urinary electrolytes in cor-pulmonale patients.
4. Study of modified intensive coronary care in a acute myocardial infarction-under publication.
5. Biochemistry.

Following newer investigations have been standardised.

- A. Urinary catacholamine estimations.
- B. Blood lipidogram.
- C. L. D. H., S. H. D. D. estimations.

Cardiology Society of India, Bombay Branch office, is with the department of Cardiology, Nair Hospital, for the year 1971-72.

The following are the office bearers.

Dr. M. M. Desai	...	...	Chairman.
Dr. K. D. Shah	...	...	Secretary.
Dr. C. V. Shah	...	...	Joint Secretary.
Dr. R. C. Hansoti	...	...	Treasurer.

The first national semi-annual conference of cardiology held under the auspices of Bombay Branch in September 1971 was a grand success. The specialists from various disciplines of medicine interested in the field of cardiology participated in this conference.

Dr. V. V. Shah has been elected to be in the Editorial Board of Indian Heart Journal and Dr. K. D. Shah as Editorial Secretary for the same.

Statement showing the number of Electro-cardiograms taken during the year 1971 according to disease wise.

DISEASES.	TOTAL
1. Coronary Thrombosis.	999
2. Hypertension	507
3. Mitral Diseases	440
4. Auricular fibrillation	89
5. C. C. Failure	151
6. Cor-pulmonale	171
7. Angina Pectoris	91
8. Aortic Stenosis	73
9. Rheumatic Diseases	97
10. Anaemia	82
11. Myocarditis	105
12. Pericarditis	31
13. A. S. D.	62
14. V. S. D.	83
15. P. D. A.	24
16. Fallot's Tetralogy	22
17. Heart Block	162
18. Diabetes	106
19. Pulmonary Stenosis.	13
20. I. H. D.	108
21. Normal	4060
22. Pain in chest	219
23. Miscellaneous	3051
TOTAL ...	10746

2. Department of cardiac surgery:

The Out-patient clinics open on Mondays and Fridays from 11-30 a.m. to 1-30 p.m.

During the year 1971, 577 New cases and 7376 old cases were treated at the O. P. D. 575 patients were admitted for Indoor treatment.

The following operations were performed during the year 1971.

1. Closed Mitral valvotomy	40
2. Open Heart operations	41
A Valve Replacement :	
(a) Aortic valve replacement	3
Prosthetic	2
Autogenous	2
(b) Mitral valve replacement	5
Prosthetic	3
Autogenous	2
B. Aortic Valvotomy	2
C. Mitral Valvotomy	9
D. Pulmonary valvotomy	3
E. Correction of V. S. D.	6
F. Correction of A. S. D.	10
G. Total correction of Fallot's Tetralogy.	3
3. Ligation of P. D. A.	8
4. Blalock Toussing shunt	2
5. Cooley's shunt	2
6. Waterson Shunt	1
7. Pericardiectomy ...	2
8. Coarctation of Aorta ...	2
9. Aneurysm of Aorta ...	1
10. Thromboendarterectomy ...	2
TOTAL ...	102

Publications :

Dr. C. B. Dhabuwalla,
Dr. K. N. Dastur,
Dr. R. L. Shah,
Dr. J. M. Desai,
Dr. J. S. Anand.

1. Anomalous Pulmonary venous drainage. Read at All India Cardiology Conference in Bombay, 1971.
2. Morphine Anaesthesia in Open Heart Surgery. Read at All India Cardiology Conference in Bombay, 1971.

3. Department of Gastroenterology

The clinic works on every Wednesday and Saturday from 11-30 to 1-30 p.m.

Investigations such as Peritoneoscopy and Sigmoidoscopy are performed on Mondays and Wednesdays.

Following is the work done during the year 1971.

New patients.	...	...	...	...	...	628
Follow up.	...	...	...	...	...	1685
Blood	...	...	...	...	...	368
Urine.	...	...	...	...	...	262
Stool	...	...	...	...	...	326
Liver function test	...	...	...	...	...	33
Serum proteins.	...	...	...	...	...	139
Bromsulphalein tests.	...	...	...	...	...	44
Faecal fat estimation	...	...	...	...	...	146
D-xylose absorption test	...	...	...	...	...	143
Bile collection	...	...	...	...	...	131
C ⁵⁸ B12 absorption test	...	...	...	...	...	143
TLC	...	...	...	...	...	40
Sigmoidoscopies	...	...	...	...	...	371
Peritoneoscopies	...	...	...	...	...	68
Gastric biopsies	...	...	...	...	...	89
Jejunal biopsies.	...	...	...	...	...	54
Gastric Analysis.	...	...	...	...	...	294

Publications during the year.

1. Antia F. P. : Desai H. G., Deshpande C. K., Manerikar A. S. & Kalro R. H., : Peritoneoscopy-Indian Practitioner 24, 541-48, 1971.
2. Desai H. G., New techniques in Gastro-intestinal Diagnosis. Indian Practitioner 124, 81-85, 1971.
3. Desai H. G. Histological functional and immunological studies of human gastric mucosa. Ph. D. (Human physiology) Bombay University. Submitted 25th June 1971.
4. Desai H. G. Zaveri M. P., Antia F. P. Spontaneous and persisting decrease of maximal acide output Bric. Med. Journal 2, 313-315, 1971.
5. Desai H. G., Zaveri M. P., Antia F. P. : Comparison of dose response curves with subcutaneous histamine and histalg. Ind. J. Med. Sci. 25, 696-701, 1971.

4. Gastro enterology surgical service

The Out-patient clinic is open on Wednesdays from 11-30 a.m. onwards.

528 patents attended the Dept. during the year 1971.

Investigation.

1. Ba study	...	...	...	...	...	300
2. M. H. T.	...	...	...	...	...	52
3. Cholecystography (Oral)	...	...	...	...	...	11
4. P. C. Cholangiography	...	...	...	...	...	5
5. Liver scan	...	...	...	...	...	6
6. Hypotonic duodenography	...	...	...	...	...	7
7. Aortography	...	...	...	...	...	2
8. Selective Angiography	...	...	...	...	...	1

Operation

1. Vagotomy and Ant. G. J.	...	...	...	...	...	59
2. Expl. Lap. for Koch's Adb.	...	...	...	...	...	36
C. A. G. I. Tract.	...	...	...	...	...	11
Peptic perforation	...	...	...	...	...	14
Ty. perforation	...	...	...	...	...	7
Appendix	...	...	...	...	...	23
Traumatic Abd.	...	...	...	...	...	4
3. Appendicectomy	...	...	...	...	...	42
4. Cholecystectomy	...	...	...	...	...	7
5. Graham's operation	...	...	...	...	...	4
6. Splenectomy	...	...	...	...	...	4
7. Repair of V. Hernia	...	...	...	...	...	4
8. Strangulated hernia	...	...	...	...	...	2
9. Gastrostomy	...	...	...	...	...	3
10. Op. for Hydatid cyst	...	...	...	...	...	2
11. Op. for Imperforated Anus	...	...	...	...	...	3
12. Sigmoidoscopy.	...	...	...	...	...	14

INTERESTING CASES :

1. Retroperitoneal hydatid cyst.
2. Liver Hydatid cyst.
3. Pancreatic cyst-(2)
4. Mesentric cold abscess.
5. Inf. mucoid adenocarcinoma of stomach-(2)
6. Duodenal Diverticulum-(3)
7. Benign Gastric ulcer-(2)

PAPERS :

1. Prolapse Rectum.
2. Sacrococcygeal Teratoma.
Published in C. M. P. current Medical Practice.

5. DEPARTMENT OF NEUROLOGY :

The clinic is open on Tuesdays and Thursdays from 11-30 a.m. onwards.

During the year 231 new cases were treated and examined in addition to 318 old cases coming for follow-up. 172 cases were admitted for indoor treatment. 582 referred cases were examined and treated in the O. P. D.

Following special investigations were done.

Angiography	...	...	...	...	...	113
P. E. G.	...	...	...	...	...	35
Myelography	...	...	...	...	...	62
C. S. F.	...	...	...	...	...	343
E. E. G.	...	...	...	...	...	30

VISITS :

Dr. P. M. Dalal proceeded abroad in connection with research projects of ICMR/NIH.

Dr. Dalal was invited to attend the First All India "Stroke" workshop-conference at the Institute of Neurology Madras.

Dr. Dalal was invited to attend the Seminar on "Symposium on" Tuberculosis in Central Nervous System" sponsored jointly by W. H. O./I. A. M. S.

Dr. Dalal & Mehta, attended the III Asian & Oceanian Congress of Neurology in Bombay.

Dr. Randall Thompson, NIH Science representative visited the Department to scrutinise the NIH projects carried out at these institutions.

Prof. John Sterling Meyer, Wayne State University came to scrutinise the research projects.

PUBLICATIONS :

1. Aortic Arch Syndrome : Neurology (India) Vol. 19, 155, 1971. A chapter on this has also been submitted to Neurology (UK) for publication.
2. Fibrinolytic Mechanism and Thrombosis : In press.
3. Stroke in the Young : Read before First All-India "Stroke" workshop conference at Madras and will appear in their proceedings.

During the current year Electroencephalograph costing Rs. 2½ lacs and Echo-encephalograph costing Rs. 75,000/- have been purchased.

Dr. A. C. Mehta has been appointed as Asst. Hon. Neurophysician in July 1971.

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. Professor, Neurology, and comparative study of intracranial cerebral Atherosclerosis under Dr. S. C. Sheth, Emeritus Professor in Medicine" have been continued for the third year.

6. NEUROSURGERY :

The Out-patient department is open on Tuesdays and Thursdays between 9-00 a.m. and 11 a.m. A separate Neuro-surgery Dept, was started from 2-8-1972.

The department is allotted 16 beds. (12 Male 4 Female).

During the year 1971, 363 patiented were treated at the O. P. D. and 110 patients were admitted as indoor patients.

100 Major operations and 205 minor operations were performed.

Neuroradiological investigations :

Myelogram	...	...	...	...	...	33
Carotid Angiograms	...	...	...	...	...	66
P. E. G.	...	...	...	...	...	32
Ventriculograms	...	...	...	...	...	46
					TOTAL	177

A case report of "Bilateral Olfactory groove meningioma with an usual presentation" has been accepted for publication in "CURRENT DIAGNOSIS".

7. DEPARTMENT OF GENITO URINARY SURGERY :

The O. P. D. clinic is open on Saturdays from 11-30 a.m. to 1-30 p.m.

During the year 225 new cases and 618 old cases were examined and treated. 111 cases were admitted for indoor treatment and 141 operations were performed.

Following operations were performed.

Cystoscopies,	...	...	...	...	...	84
Transurethral resection of prostates,	...	...	...	...	...	3
Vaso-vasal anastomosis	...	...	...	...	...	4
Prostatectomies,	...	...	...	...	...	5
Vaso-epididymal anastomosis,	...	...	...	...	...	1
Resection of congenital urethral valves,	...	...	...	...	...	1
Urethroplasty	...	...	...	...	...	1
Ureteric catheterisation,	...	...	...	...	...	3
Cystometries	...	...	...	...	...	2
Reimplantation of ureter,	...	...	...	...	...	1
Anderson's Hynes operation,	...	...	...	...	...	1
Uretero ureteric anastomosis,	...	...	...	...	...	1
Supra public cystolithotomy,	...	...	...	...	...	3
Ureterolithotomy,	...	...	...	...	...	3
Pyelolithotomy,	...	...	...	...	...	4
Nephrectomy,	...	...	...	...	...	4
Nephrolithotomy,	...	...	...	...	...	2

RESEARCH WORK :

Dr. K. C. Mehta, presented a paper on Non-Specific Stricture of Ureter in Association of Surgeons of India Urology Section.

Special work is being done on Catheterless-prostatectomy.

Special work is being done on Vaso-vasal anastomosis.

8 DEPARTMENT OF PLASTIC SURGERY:

The O. P. D. is conducted every Thursday and a total of 368 New cases were seen. In addition, on an average 25 patients are also examined and evaluated on every O. P. D. day for follow up and maintenance of records and photographs. During the year 178 cases were admitted and 185 plastic surgery operations were performed.

Under the auspices of the Research Society and extensive clinical trial of the use of a transparent plastic seal as a form of dressing was carried out and the material prepared for publication, the title being "USE OF TRANSPARENT PLASTIC AS DRESSING FOR WOUNDS". About 50 operations on re-constructive surgery following cancer of the head and neck were done and a paper is also being prepared on re-evaluation of pinch grafting procedure.

9. EYE BANK :

The O. P. D. function on Thursdays from 12-30 p.m. onwards.

During the period from 1-1-1971 to 31-12-1971, 28 patients were admitted for Indoor treatment and 27 Keratoplasty operations were performed.

Publications :

Duphthalmos with Subluxated lens-A case report by Dr. Kelkar, Dr. Dikshit and Dr. S. A. Gokhale. Accepted in current medical practitioner.

10. DEPARTMENT OF THORACIC AND CHEST DISEASES.

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 10-30 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 a great benefit to the patients.

The department is provided with additional special 5 beds for Medical and 5 beds for Surgical side.

On an average per year 128 patients are seen in O. P. D. 126 operations were performed. Average number of cases admitted under the care of Thoracic Medical Deptt. is 128 per year, out of which 20% are referred every year for thoracic Surgical treatment.

Since 1967, the department is also provided with a well equipped "Respiratory Physiology Laboratory" and 926 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.

11. FAMILY WELFARE PLANNING CLINIC:

During the year 2187 persons attached at the clinic and 2665 persons were visited at home for new contact and follow up. Contraceptives costing about 2.75 were supplied to the persons attending the clinic. During the year under report 52 vasectomy and 329 sterilisation operations were performed.

12. ANTI RABIC DEPARTMENT:

The Clinic is open on week day between 3-00 p.m. to 5 p.m. on sundays and holidays between 10-00 a. m. to 12 noon.

13. ISOTOPE UNIT AND THYROID CLINICS:

The clinic is open on Fridays from 11-30 a.m. onwards.
The work load of the clinic is as under:

New cases.:			
Direct ...	190	} ...	905
Referred ...	715		
Evaluation cases	490		
Followup cases	388		

INVESTIGATIONS CARRIED OUT IN ISOTOPE UNIT:

1 Radioiodine thyroid uptakes	...	...	...	...	490
2 PBI I31	...	...	...	...	490
3 Cholesterol	...	...	...	...	490
4 Thyroid scan	...	...	...	...	209
5 B. N.M. R.	...	...	...	...	19
6 S. G. O. T.	...	...	...	...	77
7 S. G. O. T.	...	...	...	...	77
8 Creatinine	...	...	...	...	77
9 Calcium	...	...	...	...	77
10 Uric acid	...	...	...	...	77
11 Proteins	...	...	...	...	77
12 Radioiodine Therapy	...	...	...	...	16
13 Protein losing enteropathy	...	...	...	...	6
14 Co-58 Vit. B 12 absorption	...	...	...	...	158
15 Pepsin estimation using R. I. S. A.	...	...	...	...	25
16 Intrinsic factor in Gastric Juice	...	...	...	...	20
17 Intrinsic factor antibody inserum.	...	...	...	...	2

In addition to routine I 131 uptake studies T3RBC uptake studies with T3 labelled, I 131 was done initially but discontinued later. Now it is proposed to start the same in the near future and the project is already sanctioned by the Research Society of T. N. M. C. and B. Y. L. Nair Charitable Hospital.

THERAPY:

Radioactive I 131 therapy.

14. DEPARTMENT OF REHUMATIC AND COLLEGEN DISEASES

The out-patient department is conducted on every Saturday from 11.00 a.m. to 1.00 p.m. On an average 70 to 80 patients attend this out-patient department. Some patients are also referred to this department by other departments. Patients are provided with medicine supplied by the hospital stores through this Department.

Patients requiring Laboratory investigations, Pathological examinations, Radiological investigations physiotherapy and or occupational therapy are referred to the concerned departments. Many patients are also referred from other hospitals in Bombay.

Patients requiring admission as inpatient are admitted in the ward under Dr. M. M. Desai. Patients needing surgical intervention are admitted in Orthopedic wards.

The department conducted Clinical trials with Sudhinol Compound and Fluminic Acid in patients with Rheumatic complaints.

15. DEPARTMENT OF ENDOCRINOLOGY

The clinic works on Mondays and Fridays from 2.00 p.m. to 5.00 p.m. During the year under report, 218 New patients and 1097 old patients were treated. Type of new patients seen during the year are given below:—

	Patients
1. Sterility (Male)	10
2. Sterility (Female)	40
3. Patients for clinical trials on antifertility compounds	37
4. Growth disorders	14
5. Ovarian disorders	1
6. Pit. ovarian disorders	47
7. Pit disorders	4
8. Genetic disorders	2
9. Adrenal disorders	8
10. Thyroid disorders	6
11. Undescended testies	4
12. Miscellaneous endocrine disorders	45

LABORATORY INVESTIGATIONS CARRIED OUR DURING THE YEAR APRIL 1971 TO MARCH 1972.

1. 17—Ketosteroids	202
2. 17—Ketogenic Steroids	195
3. Oosteriol	45
4. Pregnanliol	90
5. Genadetrophins	175
6. Oxylocinase Enzyme Activity	83
7. Pregnancy test	30
8. Sex Chromatin	80
9. Endometrial Biopsies	84
10. Vagi Smears	137
11. Post Copital test	4
12. Cervical Mucus	4
13. Creatinine	176

LIPID METABOLISM

1. Cholesterol	42
2. Triglycerides	42
3. Free Fatty acids	42
4. Esterified Fatty acids	42

LIVER FUNCTION TEST

1. S. G. O. T.	42
2. S. G. P. T.	42
3. Thymol Turbidity test	42
4. Alkaline Phosphatase activity	42
5. Total Protein	42
6. Albumin	42
7. Globulin	42

SEMEN ANALYSIS

1. Motility	86
2. Sporum Count	86
3. Maltase Activity	9
4. Fructose	86
5. Ascorbic Acid	76
6. Citric acid	67

Sialic acid estimations in Copper IUFB animals immature male and female (Hormone substituted, different diets) rats with old and new diet with the new diet animals (age-wise and cycle wise) effect of copper in male fertility.

Animal House performance :

1. Maintenance and Breeding of rodents and their colony.
2. Use of rats and mice for research in reproduction.
3. Use of rats and mice for bioassays.

Teaching :

1. Lectures to 1st M.B.B.S., or Reproduction and Endocrinology.
2. Discussion endocrine cases with Interns attending O.P.D.
3. Post-graduate lectures in Reproduction for M.D. Physiology.

ATTENDANCE AT CONFERENCES AND PAPERS PRESENTED BY DR. SHAHANI

1. 1st Annual conference of Indian Academy of Cytologists New Delhi—20, 21st September 1971. Chaired the session on 'Hormonal cytology.'
Papers presented : 1. Basic principles of Hormonal cell diagnosis. 2. Effect of I.U.D. on vaginal Cytology.
2. Invited Lecture at "3rd Course in Reproduction Biology" held organized by I. C. M. R. and N.F.P. Int. New Delhi January 5th 1972. Lecture "Physiopathology of Clinical disorder of ovary."
3. Invited participant on "Expert panel on Research in Human Reproduction" organized by Ministry of Health at A.I.I. of Med. Sc. on February 5th 1972. Spoke on "Factors stimulating ovarian function."
4. 7th World Congress on Fertility and Sterility held in Tokyo October 17th to 25th 1971.
Chairman of Session on "Contraception."
Paper presented (1) Effect of long term insertion of I.U.D. on Endometrium.

19. DEPARTMENT OF RADIOLOGY

During the year under report the following Diagnosis Therapeutic work was done in the Department :

Sr. No.	Types of X-ray taken	No.
1.	Carotid Angiogram ...	265
2.	Cardiac Catheterization ...	13
3.	Aortogram ...	36
4.	Renal Angiogram ...	26
5.	Femoral Angiogram ...	6
6.	Femoral Venogram ...	1
7.	Brachial Angiogram ...	3
8.	Hip Arthrogram ...	36
9.	Myelogram ...	140
10.	Bronchogram ...	53
11.	Spleno-gram ...	33
12.	Sub. Durogram ...	2
13.	Ventriculography ...	46
14.	Placentography ...	3
15.	Hystero Salpingogram ...	70
16.	P. C. Cholangiogram ...	3
17.	Oral Cholecystogram ...	40
18.	Lymphangiogram ...	13
19.	Sialogram ...	7
20.	Sinuscogram ...	26
21.	Palatography ...	9
22.	Pelvic Angiogram ...	6
23.	Tomogram ...	17
24.	Urethrogram ...	3
25.	P. E. G. ...	45
26.	Cystogram ...	24
27.	Myelogram rescreening ...	8
28.	Perirenal Air insufflation ...	5
29.	Ascending Pyelography ...	7
30.	Trans-lumbar Aortogram ...	4
31.	Veterebasal angiogram ...	3
32.	Hypoduodino-graphy ...	4
33.	Micturating urethrogram ...	8
34.	Venour Angiogram ...	4
35.	Knee Arthrogram ...	7
36.	Sup. Venacavogram ...	3
37.	Sup. Venacavogram angiogram ...	3
38.	Inf. Venacavogram ...	4
39.	Pleurogram ...	1
40.	Retroperitoneal pneumography ...	1
41.	Gynaeccogram ...	1
42.	Oesophagram ...	1
43.	Ovarian Angiogram ...	1
44.	Orbitogram ...	5
45.	Fistulogram ...	4
46.	Parotid gistulogram ...	1
47.	Orbital pneumogram ...	1
48.	I. V. Cholangiogram ...	9
49.	Ba-meal ...	904
50.	Ba-Swallow ...	250
51.	Ba. Enema ...	145
52.	I. V. P. ...	603
	No. of cases X-rayed ...	42207

17. DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE**Services :**

Comprehensive health care was limited to the Municipal Sweeper community of Arthur Road.

The schedule of services rendered was 3 times a week.

The record of clinic attendance for the period from January 1971 to December 1971 was as follows:—

Community	No. of clinic Sessions held	No. of first visits.	No. of revisits.	Total
Arthur Road	...	150	8	3350
				3358

In addition to follow up care at the clinics, a proportion of patients were referred to hospital out-patients department for consultations and investigations.

HOME MEDICAL CARE

This was continued in 1971. In this year Physiotherapy was also continued.

The following is the record for 1971.

No. of patients carried forward from previous year	...	...	...	...	3
No. of new patients enrolled in 1971	...	...	...	...	12
No. of visiting days	...	...	...	...	120
Total number of visits	...	...	...	...	242
Average No. of visits per visiting day	...	...	...	...	2.0

Tuberculin testing and B. C. G. Vaccination. :

Tuberculin testing was carried out on 6896 patients attending Pediatric O. P. D. and School Clinic of Nair Hospital.

B. C. G. Vaccination was carried out on 1784 neonates and 1403 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 1971. 779 children were inspected during this year. Vaccination was also undertaken 698 children were vaccinated with small pox and 540 children with B. C. G. Vaccine.

COMMUNITY HEALTH SERVICE AT BANDRA

This project in collaboration with Sodality House was continued in 1971. Medical relief was undertaken in the 10,000 strong community residing at the Behrampada slums in Khernagar at Bandra.

IMMUNISATION CENTRE

Immunisation centre was opened in September 1971. This centre runs in the afternoons. Small-pox vaccination, tripe antigen and polio vaccine are given. From September 1971 to December 1971, 93 children were vaccinated with triple antigen and 122 children were given polio vaccine.

SOCIAL SERVICES

1812 cases were referred to this department.

Case work was done on 633 patients. These patients were referred from the Department of Preventive and Social Medicine, Tuberculosis, Pediatrics, Orthopedics, Psychiatry, Obstetrics and Gynaecology, Speech therapy etc.

Medicines were supplied to 331 patients referred from the various departments.

Appliances were provided to 95 patients. e.g. crutches, hearing aids, calipers, surgical boots, surgical belts etc.

Home visits were made in 85 cases.

Agencies, Institution and Employers were visited in 76 cases.

RESEARCH PROJECTS

(a) Longitudinal study of growth and development in Infants, and pre-school children of the sweeper communities residing at Arthur Road.

A clinic was held once a week to make systematic observations of the growth and development of infants and pre-school children. The records for the year 1971 are as follows :—

Group	No. under observation	Total No. of visits.	Average visit per infant or child
Infants	39	164	4.2
Pre-school children	65	179	2.7

(b) Psycho-social studies on Coronary Heart Disease and Prospective studies by University Professor.

The records for 1971 are as follows :—
44 Professors (New cases)
164 Professors (Old cases).

(c) Follow up of infants and children vaccinated with B. C. C. vaccination.

This was continued in 1971.

(d) Psycho Social Study of Diabetic Patients.

The collection of Psychosocial data of diabetic patients attending the Diabetic Clinics on Thursday was started in December 1971.

18. 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.
Pediatric	931	13209	14140	...
Ophthalmic	246	2794	3040	56
Aural	541	6119	6660	275

Attendance of Secondary School children.

Service	New	Old	Total	Referred
Pediatric	64	411	475	...
Ophthalmic	61	207	268	20
Aural	23	87	110	20

Statement showing the number of children operated and glasses given from School Clinic, Primary School for the year 1971.

Particulars	Primary school Children	Secondary School Children.
Operated for Tonsil	136	3
Operated for Mastoid	1	1
Operated for Eye disease	9	...
Other operations	9	1
Glasses given	117	32
Glasses Prescribed	121	32

19. AUDIOLOGY AND SPEECH THERAPY DEPARTMENT

Audiology and Speech Therapy School admit 11 students to F. Y. B. Sc. (Audiology and Speech Therapy). University has permitted to take one additional student from outside Bombay. Out of these 11 one student left the school as he got admission in Medical College in second term. The results for university examinations for F. Y. B. Sc. and B. Sc. (A. S. T.) were as follows :—

	No. of student appeared	No. of student passed.	Percentage.
F. Y. B. Sc. (AST)	10	7	70
B. Sc. (AST)	9	7	80

INDO DANISH PROJECT

The department has received equipment and material for preparing the ear moulds under Indo-Danish Project. The approximate cost of the entire laboratory's equipment and electronic equipment is Rs. 30,000. Under this project 200 hearing aids were received from Denmark through All India Institute of Speech and Hearing Mysore for free distribution to deaf children who could benefit with hearing aids and who are attending speech clinics and special schools. Nearly 100 aids were issued in the year under report and 300 ear moulds were supplied free. This project has come as a boon to many poor and needy patients.

Patient's load

During the year 2293 New patients were examined. Out of these 335 cases were seen in E. N. T. Hospital by our staff members and attended the audiology clinic in rotation as their therapist at E. N. T. Hospital had resigned and left. Even though there is rise of 250 cases as compared with new cases seen in 1970, it is not representing adequate rise. The patient load had to be cut down considerably as air conditioning plant of the department is gone out of order. The average load of 60 to 70 cases is maintained daily on the treatment side in different types of speech and hearing problems. Preparations of ear moulds is an additional work for the staff members and this work again is shared by three staff members.

Student's activity :

Miss. S. Kavrie student of F.Y.B.Sc. (AST) won the ladies sports champion trophy and Miss Nathani was winner of six cups for different sport items. Students have also taken part in the Golden Jubilee Celebration of this Hospital.

Other activity.

Mr. R. K. Oza, Professor and Head of the Department was invited by Indonesian National Council for Social Welfare. He visited Indonesia and advised on development of facilities for setting up Audiology and Speech Therapy Clinics as well as education of the Deaf. Mr. Oza was in Indonesia for two weeks. During the period he visited Institutions, meeting high Government officials and discussing the practical schemes for setting up Speech and Hearing centres.

Mr. Oza was co-author of research paper on Palatal Radiography at First Radiological Conference held at Melbourne in 1971. His another paper jointly prepared with Professor of Prosthodontia, Nair Dental College on Designing and development of Special Speech appliances for palatal anomalies has been accepted for International Dental Research Association for its conference to be held in March 1972. Mr. Oza also submitted a paper for reading at IV Annual Conference of Indian Speech and Hearing Association which was held at Cochin.

Visitors.

- 1 Mrs. L. C. DeVreede from Holland.
- 2 Dr. M. Werner from Federal City College, Washington.
- 3 John O'hala, Asst. Professor of Linguistic University of Southern California.

Statement showing the number of new cases seen in the year 1971 :

Sr. No.	Diagnosis.	Total.
1	Audiograms	961
2	Aphasia & Dysphasia	25
3	Cerebral palsy.	18
4	Cleft Palate	17
5	Deaf and Hard of Hearing.	269
6	Delayed Speech.	56
7	Dysarthria	22
8	Dyslalia	84
9	Hoarsness of voice	9
10	Laryng-ctomy	11
11	Mental Retardation	45
12	Nasality	12
13	Puberphonia	30
14	Stammering	243
15	Not confirm	110
16	Dysphonia	9
17	Miscellaneous (Multiple Handicaps Normal speech etc.)	27
	Total.	1948+
	Patients taken at E. N. T. Hospital	335
		2283

20. DEPARTMENT OF OCCUPATIONAL THERAPY :

Total No. of patients for 1971	4131
Total No. of patient's attendance	35542
New patients. (O. P. D.)	1270
New patients. (Indoor)	855
Total No. of New patients.	2125

Under graduate students from K. E. M. Hospital and Post graduate students from All India Institute of Physical Medical and Rehabilitation came for training. Medical students and Nurses are also sent for Orientation.

Other programme participation :

1. Home visits to patients whenever necessary.
2. World day for disabled, Celebrations held in March, 1971.
3. Participated in the Research project, cardiac rehabilitation.
4. Sports for paraplegia.
5. Party to Crippled children at Rajbhavan.
6. An exhibition of articles by Handicapped at Ghatkoper by Local Lions Club.

21. Department of physiotherapy

	O. P. D.	INDOOR	TOTAL.
New cases.	3039	1575	4613
Total Attendance of P. T.	34,099	25,185	59,284
WORK ANALYSIS.			
Exercise Therapy	26,497	23,955	50,452
Postural Drainage and B.	161	4364	4425
Infra Red Rays	51115	889	6004
Gait Training	462	3123	3585
Traction	1219	5	1224
Stimulation	3354	715	4069
Ultra violet rays	171	360	531
Paraffin wax bath	8313	809	9122
Short wave diathermy	6483	517	7,000
Micro wave diathermy	3342	73	3415
Ultra sonic	1110	15	1125

Undergraduate students from the School of Physiotherapy attend this dept. for clinical training for a period of 6 months in a year.

DEPARTMENT OF PHARMACY.**Dispensary :**

This year dispensary has dispensed 4,50,029 case papers at Out Door and 972 case papers as indoor.

Total quantity of stocks prepared for indoor and out door patients is given below —

1	Quantity of stock solution prepared	...	...	...	...	38842,75 Lits.
2	No. of tablet packs made	...	...	...	...	1,28,384
3	No. of powders wrapped	...	...	...	...	2,32,235
4	No. of O. P. D. prescription where account is kept	...	...	...	...	1,42,522
5	Special prescriptions attended	...	...	...	...	971
6	Prescriptions where special drug is issued and account is kept.	...	...	...	...	42,902

Central sterile supply

The sterilization service is given to All India Institute of Rehabilitation and Family Planning Centre at Bombay Central as they do not have sterilization facilities.

Sewree Hospital, Bhajekar Hospital and E. N. T. Hospital also had sent their drums for sterilization during the period of repairs of their sterilizers.

During the repair of our sterilizer, the sterilization work is done at Kasturba Hospital.

The details of sterilization done during the year are given below :

Name	No.
1 Blood Bank Donor Set	9354
2 Blood Bank Voluntary Set.	382
3 Blood Bank Plasma Set.	1137
4 Bone marrow trays (Adult)	332
5 Bone Marrow Trays (Child)	55
6 Bone wax dabbies.	138
7 Catheter trays	775
8 Clip Suture Removal trays.	2945
9 Cisternal Puncture Set.	150
10 Liver Biopsy trays (Adult)	315
11 Liver Biopsy Tray (Child)	54
12 Lumbar puncture set (Adult)	1461
13 Lumbar Puncture set (Child)	1233
14 Neurology Angiography tray	130

Name	No.
15 Neurology Sp. Angiography tray.	...
16 Neurology Mylography tray.	...
17 Neurology Mpen carotid Angio tray.	67
18 Neurology Pneumo Encephelography tray.	5
19 Neurology Ventriculography tray.	130
20 Neurology Lumbar Puncture Set.	66
21 Needle tray (48).	166
22 Needle tray (20).	261
23 Peritoneal Dialysis set.	93
24 Plural Aspiration tray.	1
25 Renal Biopsy tray	586
26 Renal Drainage Bottle	7
27 S-line Sets.	1577
28 Syringe Tray (20).	32474
29 Syringe tray (10).	318
30 Syringe tray (10L).	334
31 Syringe tray (5)	34
32 Syringe tray (2)	1274
33 Syringe tray (20,10)	237
34 Tidal Drainage Set.	14
35 Syringe tray (10,5)	154
36 Thoracic Drainage Set.	45
37 Theatre Transfusion set.	1981
38 Syringe tray, 20 cc, 10cc, 5cc.	3319
39 Tracheostomy tray.	328
40 Tracheostomy tube tray	219
41 Venesection tray (Adult)	1060
42 Venesection tray (Child).	2428
43 Spinal Manometer tray.	312
44 Aspiration Bottle	16
45 Diagnostic Sets.	1
46 Culture Tubes.	62
47 Distilled Water Bottle.	33
48 Distilled water flask.	208
49 Vacuum Bottles.	591
50 Vacuum Bottle needle.	1,098
51 Stuck up syringes.	290
52 Drugs and Dressings.	540
53 Trans. Bottles and vials.	30,237
	1,38,181

The new services started during the year are as follows :

- 1 Diagnostic set for plural tapping.
- 2 Syringe Tray (20 cc-3, 10cc-10, 5cc-2 pks)
- 3 Sterile Vacuum set.
- 4 Sterile vacuum trap set.
- 5 Lumbar puncture set for Neuro Surgery.
- 6 Dressing tray.
- 7 Sterile Furacine Gauze Tray. Big Size.
- 8 Sterile Furacine Gauze Tray. Small Size.

Manufacture of pharmaceuticals

The list of preparations manufactured this year are given below :—

Transfusion Bottles.

Name	No.
(1) A. C. D. 75 ml.	6989
(2) 2% Acetic Acid 500 ml.	2
(3) 10% Acetic acid 500 ml.	10
(4) 1% Boric acid 500 ml.	30
(5) Conc. Acetate solu. for Dialysis 500 ml.	258
(6) 70% Dextrose solu. for Dialysis 1 Lit.	20
(7) 50% Dextrose solu. 500 ml.	1923
(8) 33.3% Dextrose solu. 500 ml.	314
(9) 30% Dextrose Solu. 500 ml.	298
(10) 10% Dextrose Solu. 500 ml.	8
(11) 5% Dextrose Solu. 500 ml.	69524
(12) 5% Dextrose & 0.18% Sodium Chloride 500 ml.	20
(13) Dextrose & Sodium Chloride Solu. 500 ml.	12142
(14) Eye Drop Solu. 500 ml.	80
(15) 3% Hypertonic Saline.	10
(16) 2% Hypertonic Saline.	10
(17) 10% Hypertonic Saline	10
(18) 20% Hypertonic saline 200 ml.	5
(19) 0.9% Normal Saline.	45763
(20) 1.8% Sodium Chloride.	2
(21) 1.5% Sodium Chloride.	9
(22) 0.01% Silver Nitrate.	9

Preparations In Vials :

Sr. No.	Name	No.
(1)	A. C. D. 50 ml.	3065
(2)	1% Atropine sulphate 50 ml.	253
(3)	1% Atropine Sulphate 100 ml.	20
(4)	2% Atropine sulphate	2
(5)	1% Amethocaine Hydrochloride 100 ml.	265
(6)	2% Acetic Acid 50 ml.	100
(7)	Braim Glucose solun 50 ml.	6
(8)	Buffer Solu. for penicillian eye drops 10 c.c.	20
(9)	0.5% Chloramphenicol eye drop 50 ml.	66
(10)	1.5% Carboxy Methyl. Cellulose 10ml.	5
(11)	1% Carboxy methyl Cellulase 10 ml.	5
(12)	0.5% Croton in Arcdis Oil 10 ml.	2
(13)	Blue tons for X-Ray 100 c.c.	11
(14)	Blue tons for X-Ray 50 ml.	4
(15)	25% Dextrose solu.	2602
(16)	4% Ephedrine Hydro. Chloride 50 ml.	4
(17)	1% Easerine Salicylate 50 ml.	4
(18)	0.003% Easerine Salicylate 100 ml.	1
(19)	0.5% Easerine Salicylate 50 ml.	40
(20)	0.09% Easerine Salicylate 100 ml.	1
(21)	2% Fluorscine sodium 50 ml.	20
(22)	2% Homatropine Hydrobromide 50 ml.	142
(23)	1% Homatropine Hydrobromides 50 ml.	2
(24)	4% Lignocaine Hcl. 50 ml.	179
(25)	2% Lignocaine Hcl. 50 ml.	532
(26)	1% Lignocaine Hcl. 50 ml.	926
(27)	Molar lactate 50 ml.	392
(28)	2% Methyl. Cellulose sodium chloride 10 c.c.	6
(29)	2% Methyl. Cellulose 10 c.c.	5
(30)	2% Methyl. Cellulose 50 cc.	1
(31)	1% Pilocarpine No. 3 50 ml.	54
(32)	1% Procaine Hcl. 60 ml.	944
(33)	2% Procaine Hcl. 60 ml.	974
(34)	15% Pot. Chloride 20 ml.	1841
(35)	Penicillin eye drops 10 ml.	6
(36)	P. A. G. Solution 30 ml.	1
(37)	10% Sulphacetamide sodium 50 ml.	2038
(38)	0.25% Sodium Iodide 10 ml.	1
(39)	50% Sodium Thiosulphate 50 ml.	1
(40)	50% Sodium Iodide 100 ml.	2
(41)	40% Sodium Thiosulphate	1
(42)	5% Silver Nitrate 100 ml.	1
(43)	Solu. A. for X-Ray 100 ml.	1
(44)	Solu. B. for X-Ray 100 c.c.	1
(45)	2% Soda Bicarb 10 ml.	7
(46)	3.8% Sodium Citrate 50 ml.	764
(47)	2% Tannic Acid 10 ml.	7
(48)	Water for Injection 50 ml.	1906
(49)	Water for Injection 100 ml.	2950

Preparation In Ampoules :

(1)	2% Acetyl Choline 10 ml.	109
(2)	0.6 mg. Ml. Atropine Sulphate I.I.c.c.	175
(3)	75% Alcohol 2 ml.	2
(4)	10% Cal. Chloride 5 ml.	13
(5)	0.5% Dibethylene 2 ml.	752
(6)	2% Gold Chloride	80
(7)	4% Iodofarm 3.2 ml.	100
(8)	1% Methylene Blue 5 ml.	271
(9)	1% Methylene Blue 10 ml.	49
(10)	2.5% Methylene Blue 10 ml.	175
(11)	5% Phenol in Aracis Oil 5 ml.	165
(12)	Water for Injection 2 ml.	59

Total | ... 1950

Eye Ointment :

Sr. No.	Name	No.	Pks.
(1)	1% Atropine 50	1250	Pks.
(2)	1% Chloremphenical.	6250	"
(3)	2% H. O. F.	375	"
(4)	6% Sulphacetamide	4375	"
(5)	Eye Ointment Base Common 500 gms.	18	"
(6)	Eye Ointment Base 1.3 Kg.	5	"
(7)	Eye Ointment base for Sulpha. 500 gms.	56	"

12330 Pks.

Other Sterile Preparations :

1	Bone Wax	...	...	...	1,350 Kg.
2	Furacine Ointment Tray	...	...	...	227
3	Vaseline Cause Tray.	...	...	...	720
4	Benzyl Penicilline Powder 200 gms.	...	...	...	24
5	Talcum Powder	...	...	...	8 Trays.
6	Water for Injection 8 Lt. Carboy.	...	...	...	9
7	Water for inj. 9 Lt. carboy.	...	...	...	208
8	Distilled Water Flasks 5 L.	...	...	...	591
9	Distilled water to college side 10 Lits	...	...	...	300 days.
10	Distilled water to dispensary 2 Lt.	...	...	...	300 days.

Non Sterile Preparations :

1	2% Catrimide Soln. ...	...	...	...	251
2	Malachite green Soln.	...	...	...	500 cc.
3	Gention Violet Soln for X-Ray	...	...	...	50 cc.
4	Suframine Soln for X-Ray	...	...	...	100 cc.
5	Suframine soln for X-Ray	...	...	...	1 Ltr.
6	Calcium Lactate Tablets.	...	...	...	692614
7	25% Benzyl Benzoate emulsion	...	...	...	572 Lit.
8	1.20 Castor Oil Liquid soap for enema.	...	...	...	410 Lit.
9	Liniment Turpentine.	...	...	...	16 Lit.
10	Soft soap	...	...	...	50 Kg.
11	2% Xylocaine cream.	...	...	...	50 Kg.
12	Zinc Cream	...	...	...	35 Kg.
13	Zinc Cream with Enteroquinol	...	...	...	10 Kg.
14	Coal tar paste	...	...	...	25 Kg.
15	Calamine Lotion.	...	...	...	252 Lt.
16	Calamine Lotion with 2% Enteroquinol	...	...	...	6 Lt.
17	Calamine Lotion with 3% Sulphor	...	...	...	24 Lt.
18	2% Ammoniated Mercury Oint.	...	...	...	2 Kg.
19	Menthol Co. Oint.	...	...	...	12 Kg.
20	Resorcinol Co. Oint.	...	...	...	6 Kg.
21	Rose water Oint.	...	...	...	84 Kg.
22	Salicylic Benzoic Co. Oint.	...	...	...	280 Kg.
23	Salicylic Acid With Chlorbutol Oint.	...	...	...	50 gms.
24	Salicylic acid with 12% sulphor oint.	...	...	...	60 Kg.
25	12% Sulphor Oint.	...	...	...	80 Kg.
26	5% Sulphadimidine Oint.	...	...	...	20 Kg.
27	Boric Acid Co. Powder	...	...	...	34 Kg.
28	Salicylic acid Co. Powder.	...	...	...	175 Kg.
29	Syrup Simplex	...	...	...	397.55 Lits.
30	Syrup orange	...	...	...	6,450 Lits.

Tests Performed during the year 1971-72 and their total cost Calculated on the basis of Haffikine Institute's Rates.

Name of test.	Total No. of tests during 1971-72	Cost per Test (Rs) (Haffikine's)	Total Cost.
1	Pyrogen Test.	50	Rs. 3,000
2	Sterility Test.	100	2,000
3	Limit Tests.	450	2,250
4	Heavy metals test	300	1,500
5	Chemical assays	260	5,200
6	Pharmacopocial tests qualititve.	1200	24,000
7	Identification.	450	1,350
8	Physical test-PH	100	300
9	Chromatographic determinations.	10	500
10	Physical test Raw materials	144	432
11	Physical test finished.	630	1,890
		3694	Rs. 42,422

Expenditure Incurred During Year 1971-72 :

Yearly salary	...	...	...	...	Rs. 20245.04
Depreciation cost	...	...	...	...	2000.00
Animal feeding	...	...	...	...	500.00
Breakage	...	...	...	...	100.00
Chemicals	...	...	...	...	50.00
Total :					Rs. 22895.00
Therefore saving effected : ...					Rs. 42,422.00
					Rs. 22,895.04
					Rs. 19,526.96

GENERAL ITEMS :

Sr. No.	Items.	No. of Batches.	No. of Tests.	Rejections.	Tests done on a sample representing a Total of.
1	Absorbent cotton wool	13	80	...	7500 bundles.
2	Rubber tubing	7	42	3	2540 mets.
3	Absorbent lint	5	30	...	650 pkts.
4	Aluminium stoppers of different types.	5	40	...	23000
5	Absorbent gauge	18	110	...	3300 pcks.
6	Bandage cloth	11	66	...	30000 meta.
7	Brushes.	3	6	...	185
8	Rubber washers	4	24	...	2600
9	Rubber bungs	1	4	...	1 gauge.
10	Saline Bottles	1	2	...	100
11	Tracheostomy tubes	7	160	20	80
12	Venesection canula	4	20	...	400
13	Angiography Connections (Record mount)	2	48	...	2000
14	A. C. D Bottles	2	8	...	12
15	Saline Bottles	1	10	...	5000

CHEMICAL LIST : I

Sr. No.	Items.	No. of Batches	No. of Tests.	Rejections if any	Sample tested from a total of.
1	Yellow Vaseline	2	4	...	360 Kg.
2	Silver Nitrate	1	2	...	250 gms.
3	Dextrose anhydrous	5	20	...	65 Kg.
4	Calamine	1	2	...	450 gms.
5	Soft white paraffin	3	6+3	...	540 Kg.
6	Menthol	1	4	...	450 gms.
7	Trisodium Phosphate	2	4	...	75 pks.
8	Wool fat	2	4	...	110 pkts.
9	Tannic acid.	1	2	...	5 packs.
10	Sulphuric acid	2	2	...	30 kg.
11	Zinc Oxide	2	6	...	150 kg.
12	Citric acid.	2	4	1	10000 gms.(10 kg.)
13	Hydrogen Peroxide	1	2	...	300 bottles.
14	Eucalyptus oil	2	6	1	45 liters.
15	Sodium Thiosulphate	1	2	...	10 kg.
16	Sodium Chloride	3	12	2	125 kg.
17	Liquid Paraffin.	1	2	...	175 liters.
18	Castor Oil.	1	2	...	80 kg.
19	Turpentine Oil	1	2	...	90 kg.
20	Epinephrine Hydrochloride	1	2	...	50 Packs.
21	Gum Acacia.	1	2	...	50 Packs.
22	Acriflavine.	1	2	...	1 kg.
23	Cetrimide	1	2	...	10 kg.
24	Procaine Hydrochloride	1	3	...	25 kg.

CHEMICAL LIST : II

Sr. No.	Items	No. of Batches.	No. of Tests.	Sample tested from a total of
1	Starch	4	12	72 packs.
2	Extract <i>Bella dona viridis</i>	1	2	20 packs.
3	Hard paraffin.	1	3	30 packs.
4	Icthyumol.	1	2	10 packs.
5	Kaolin	1	3	200 Packs.
6	Potassium iodide	1	2	10 packs.
7	Sodium citrate	1	2	150 packs.
8	Ammonium Chloride	1	3	25 packs.
9	Sulphur Precipitate	1	4	20 packs.
10	Emulsifying wax	1	2	20 packs.
11	Benzyl benzoate	1	4	50 kg.
12	Acetone	1	2	25 bottles.
13	Potassium iodide	3	12	20 packs.
14	Atropine Sulphate	1	4	250 gms.
15	Glacial acetic acid.	1	2	30 bottles.
16	Methyl cellulose	1	2	500 gms.
17	Mannitol	1	5	10 kg.

FINISHED PRODUCT :

Sr. No.	Name.	No. of tests:	Assay	Miscellaneous tests.	Sample taken from
1	Vitamine B. C. Tablets.	1	...	2	175×1,000 Tab
2	Inj. Atropine Sulphate	1	...	2	100 amps.
3	Inj. Ascorbic acid	3	6	6	55×100 amps.
4	Tablets ferrous sulphate	1	...	2	5000×15
5	Inj. Calcium Gluconate	5	...	10	120×100
6	Inj. Noradrine	1	...	2	100
7	Inj. Aminophylline	4	8	8	200×100 ampus.
8	5% Dextrose Inj.	175	120	250	175×80 bottles.
9	Normal Saline	120	100	90	120×80 bottles.
10	33% Dextrose	2	...	6	160 bottles.
11	Acid Citrate Bentrose	2	44	...	160 bottles.
12	Pynogen testing of transfusion fluids	Total no. of tests 50,			
13	Chromatographic analysis of sugar.	4	10 tests.		
14	Sterility testing	100	100		
15	Physical tests.	70	...	...	...

CHEMICAL CONSUMPTION :

Sr. No.	Chemical name.	Rate/500 gms. or ml.	Consumption.	Total cost.
1	Acetic acid analar.	Rs. 11.00	50 ml.	Rs. 1.10
2	Ammonia Solution.	Rs. 5.50	100 ml.	Rs. 0.55
3	Silver nitrate	Rs. 92/100 gm.	40 gm.	Rs. 36.80
4	Acetone	Rs. 7.20/500 ml.	2.5 gm.	Rs. 00.15
5	Ammonium Oxalate.	Rs. 28.00/500 gm.	20 g.m.	Rs. 1.50
6	Ammonium Thiocyanate	Rs. 37.00/500 gm.	20 gm.	Rs. 1.50
7	Chloroform	Rs. 9.20/250 ml.	50 ml.	Rs. 1.85
8	Ferric ammonium sulphate	Rs. 20/500 gm.	500 gm.	Rs. 0.02
9	Potassium chromate	Rs. 15.50/500 gm.	2 gm.	Rs. 0.07
10	Sodium Chloride	Rs. 8.70/500 gm.	60 gm.	Rs. 1.05
				Rs. 47.44

DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY.**Investigations carried out in Central Laboratory.**

A total of 71681 investigations were carried out in the Central Clinical Laboratory during the year 1971 from 1st January 1971 to 31st December 1971.

The total number of post-mortems performed during the above period is 567.

1	Blood count and haemoglobin	...	...	23,378
2	Urine examinations	...	...	17,251
3	Stool examinations	...	...	8,939
4	Occult Blood Test	...	...	1,293
5	Semen examinations.	...	...	901
6	Sputum examinations.	...	...	2,572
7	Cerebral spinal fluid	...	...	1,717
8	Pleural fluid	...	...	775
9	Ascitic fluid	...	...	700
10	Blood Urea.	...	...	936
11	Blood fasting sugar	...	...	1,850
12	Blood P. P. Sugar.	...	...	1,959
13	Blood R. A. Test.	...	...	286
14	Blood Serum cholesterol	...	...	333
15	Blood Uric acid.	...	...	62
16	Blood Bilirubin	...	...	78
17	Blood protein	...	...	172
18	Blood Creatine	...	...	47
19	Blood Calcium	...	...	82
20	Blood Liver function test.	...	...	67
21	Blood prothombine time and index.	...	...	38
22	Blood E. S. R.	...	...	5,643
23	Blood V. D. R. L.	...	...	1,950
24	Blood ABO RH.	...	...	1,219
25	B. T. & C. T.	...	...	289
26	Throat swab.	...	...	53
27	Alkaline phosphatase.	...	...	116
Total				71,681
Post-mortems.				567
Grand Total				72,248

The following investigations were carried out in the Chemical Pathology.

1	Blood urea nitrogen	...	...	...	...	7,218
2	Serum uric acid	...	...	...	...	281
3	Serum creatinine	...	...	...	...	783
4	Creatinine clearance	...	...	...	...	118
5	Urea clearance	...	...	...	...	88
6	Urinary albumin	...	...	...	...	2
7	Urinary creatinine	...	...	...	...	13
8	Serum Sodium	...	...	...	...	358
9	Serum potassium	...	...	...	...	389
10	Serum Chlorides	...	...	...	...	347
11	Urine Sodium	...	...	...	...	218
12	Urine potassium	...	...	...	...	218
13	Urine Chloride	...	...	...	...	218
14	Examination of urinary calculi	...	...	...	...	4
15	Total proteins	...	...	...	...	2,791
16	Serum albumin	...	...	...	...	2,791
17	Serum globulins	...	...	...	...	2,791
18	Serum alkaline phosphate	...	...	...	...	1,627
19	Serum Thymol turbidity	...	...	...	...	1,428
20	Serum Cephalin cholesterol	...	...	...	...	1,197
21	Serum Vanden Bergh's reaction	...	...	...	...	2,513
22	Serum Bilirubin (total)	...	...	...	...	1,315
23	Serum Icterix Index	...	...	...	...	2,513
24	Serum Bilirubin (Direct)	...	...	...	...	1,315
25	Plasma Fibrinogen	...	...	...	...	177
26	Plasma Prothrombin Time and Index	...	...	...	...	1,520
27	Serum Brom-Sulphthalein Test	...	...	...	...	39
28	Urine urobilinogen	...	...	...	...	18
29	S. G. O. T.	...	...	...	...	1,279
30	S. G. P. T.	...	...	...	...	1,279
31	Serum total lipids	...	...	...	...	69
32	Serum triglycerides	...	...	...	...	81
33	Serum phospholipids	...	...	...	...	54
34	Serum Cholesterols	...	...	...	...	3,184
35	S. H. B. D.	...	...	...	...	187
36	S. L. D. H.	...	...	...	...	157
37	Blood sugars	...	...	...	...	11,616
38	Glucose Tolerance curves	...	...	...	...	257
39	Serum amylase	...	...	...	...	64
40	Urine diastase test	...	...	...	...	1
41	Gastric analysis	...	...	...	...	304
42	C. S. F. sugars	...	...	...	...	2,175
43	C. S. F. Chlorides	...	...	...	...	2,175
44	C. S. F. protein	...	...	...	...	1
45	Colloidal gold curves	...	...	...	...	2
46	Serum Inorganic phosphorus	...	...	...	...	1,953
47	Serum Acid phosphatase	...	...	...	...	187
48	Serum Calcium	...	...	...	...	546
49	R. A. Tests	...	...	...	...	513
50	Urine calcium	...	...	...	...	15
51	Urine Bence Jones Protein	...	...	...	...	13
52	Urine Porphyrins	...	...	...	...	5
53	Urine lipids	...	...	...	...	2
54	Serum Iron	...	...	...	...	4
55	Serum Iron binding capacity	...	...	...	...	2
56	Serum B glucuronidase	...	...	...	...	34
57	Foetal Hb	...	...	...	...	25
58	Serum electrophoresis	...	...	...	...	78
59	Sweat sodium	...	...	...	...	3
60	Sweat potassium	...	...	...	...	3
61	Sweat chlorides	...	...	...	...	3
62	Spectroscopy	...	...	...	...	2
	Total	...	...	...	...	58,578

Investigations carried out in Histopathology section :

1	Post-mortem blocks prepared	...	...	...	...	5,469
2	Fluids for Cytological examination	...	...	...	...	154
3	Surgical Blocks prepared	...	...	...	...	5,690
4	Surgical Blocks prepared E. N. T. Unit (including Dr. L. H. Hiranandani's research)	...	...	...	...	1,227
5	Slides of Surgical Tissues prepared	...	...	...	...	6,545
	(Details of Surgical slides prepared) :					
1.	Dr. Bhajekar Hospital	...	...	...	...	20
2.	Dr. R. N. Cooper Hospital	...	...	...	...	121
3.	G. E. Department	...	...	...	...	178
4.	Skin Department	...	...	...	...	14
5.	Tata Hospital (unstained)	...	...	...	...	8
6.	Duplicate slides	...	...	...	...	253
7.	Special stains	...	...	...	...	171
8.	Practical class	...	...	...	...	70
9.	Request from staff members	...	...	...	...	21
10.	Medicine department	...	...	...	...	10
6	Autopsies performed during the year	...	...	...	...	567

Investigations carried out in Serology Section.—

Blood—V. D. R. L.	...	...	...	...	...	...	13,061
C.S.F.—V. D. R. L.	...	...	...	...	...	...	895
Blood-Widal	...	...	...	...	...	...	986
Blood-Weie Felix	...	...	...	...	...	...	145
Blood-Paul Bunnel	...	...	...	...	...	...	117
Brucellosis	...	...	...	...	...	...	17
Formal-gel	...	...	...	...	...	...	4
Total							...	15,223

Food Handlers Scheme :

Blood—Widal	...	...	...	...	...	...	2,289
Blood—V. D. R. L.	...	...	...	...	...	...	2,289
Stool Examination	...	...	...	...	...	...	1,607
Urine Examination	...	...	...	...	...	...	2,260
Total							...	8,445

Total Food Handlers Examined 2380.

Investigations carried out in Haematology department :

Bone Marrow	...	...	...	...	...	...	163
E. S. R.	...	...	...	...	...	...	5,134
Complete Haemogram	...	...	...	...	...	...	1,544
Reticulocyte count	...	...	...	...	...	...	505
Platelets count	...	...	...	...	...	...	59
Fragility test	...	...	...	...	...	...	77
L. E. Cells phenomenon	...	...	...	...	...	...	225
P. C. V.	...	...	...	...	...	...	1,671
MCV, MCH, MCHC	...	...	...	...	...	...	727
Microfilavia	...	...	...	...	...	...	85
Malaria parasite	...	...	...	...	...	...	88
Sickle cells	...	...	...	...	...	...	4
BT CT with Haemoglobin	...	...	...	...	...	...	1,939
Total							...	12,621

Microbiology Section

I.—Routine Examination for smear and culture :

1 Urine	...	...	...	...	...	...	3,987
2 Cerebro Spinal fluid	...	...	...	...	...	...	1,508
3 Aspirated Fluids (Miscellaneous)	...	...	...	...	...	...	115
4 Ascitic fluids	...	...	...	...	...	...	311
5 Pleural fluids	...	...	...	...	...	...	347
6 Peritoneal fluids	...	...	...	...	...	...	32
7 Pericardial fluids	...	...	...	...	...	...	13
8 Hydrocele fluids	...	...	...	...	...	...	12
9 Genual fluids	...	...	...	...	...	...	3
10 Intestinal fluids	...	...	...	...	...	...	15
11 Synovial fluids	...	...	...	...	...	...	25
12 Miscellaneous swabs from Aspirates	...	...	...	...	...	...	57
13 Pus	...	...	...	...	...	...	1,057
14 Wound Swabs	...	...	...	...	...	...	496
15 Umbilical swabs	...	...	...	...	...	...	10
16 Ulcer swabs	...	...	...	...	...	...	105
17 Abscess swabs	...	...	...	...	...	...	55
18 Sputum	...	...	...	...	...	...	2,987
19 Bronchial Aspirates and Swabs	...	...	...	...	...	...	20
20 Throat Swabs	...	...	...	...	...	...	466
21 Nasal Swabs	...	...	...	...	...	...	85
22 Pharyngeal Swabs	...	...	...	...	...	...	7
23 Laryngeal Swabs	...	...	...	...	...	...	11
24 Swabs from lips, tongue, palate, etc.	...	...	...	...	...	...	66
25 Ear Swabs	...	...	...	...	...	...	625
26 Cystic Fluids & Swabs	...	...	...	...	...	...	40
27 Swabs from kidney, liver, lungs, etc.	...	...	...	...	...	...	99
28 Lymph Nodes	...	...	...	...	...	...	8
29 Stool & Rectal Swabs	...	...	...	...	...	...	80
30 Conjunctival & Corneal Swabs	...	...	...	...	...	...	451
31 Miscellaneous swabs from the eye	...	...	...	...	...	...	342
32 Cervical & Vaginal swabs	...	...	...	...	...	...	122
33 Gastric Lavage	...	...	...	...	...	...	18
34 Urethral, Prostatic and Endometrial swabs	...	...	...	...	...	...	35
35 Miscellaneous	...	...	...	...	...	...	21
Total							...	13,828

II.—Routine Cultural Examination :

1	Blood and Blood Clots	...	...	...	...	...	570
2	Stool & Rectal Swabs	...	...	...	...	...	280
3	Throat and Nasal Swabs	...	...	...	...	...	53
4	Cerebro Spinal fluids	...	...	...	...	...	80
5	Pus	...	...	...	...	...	60
6	Wound Swabs	...	...	...	...	...	28
7	Miscellaneous swabs and aspirates	...	...	...	...	...	29

 1,106

III.—Smear and Cultural examination for anaerobes :

1.	Wound Swabs	...	496
2.	Pus	...	1,057
3.	Swabs from Kidney, Liver, etc.	...	49
4.	Material for testing sensitivity	...	500
5.	Ear Swabs	...	35
6.	Miscellaneous	...	51

 2,478

IV.—Smear and Culture for M. Tuberculosis :

1.	Sputum	...	151
2.	Urine	...	35
3.	Cerebro- Spinal fluid	...	630
4.	Pleural Fluid	...	590
5.	Ascitic Fluid	...	45
6.	Synovial Fluid	...	1
7.	Gastric Lavage	...	2
8.	Pus	...	550
9.	Vaginal, Cervical, Endometrial, etc. swabs	...	4
10.	Lung and Bronchial Swabs	...	60
11.	Miscellaneous	...	22

 2,090

V.—Smear and Cultural examination for fungus :

1.	Skin scrapping	...	8
2.	Vaginal and Cervical swabs	...	80
3.	Sputum and Bronchial Swabs	...	80
4.	Urine	...	122
5.	Ear Swabs	...	150
6.	Cerebro-spinal fluids	...	900
7.	Vegetations	...	2
8.	Swabs from lips, throat, etc.	...	8
9.	Intestinal and jejunal fluids	...	1
10.	Miscellaneous swabs and Aspirates	...	30

 1,381

VI.—Cultivation with Carbon-di-oxide :

1.	Urine	...	85
2.	Prostatic and Urethral Swabs	...	67
3.	Vaginal and Cervical Swabs	...	69
4.	Pus	...	36
5.	Cerebro Spinal fluid	...	436
6.	Swabs from Brain, Lungs, Kidney, etc.	...	22
7.	Miscellaneous swabs and aspirates	...	89

 804

VII.—Examination of smears only :

1.	Smears from lungs, kidneys, spleen	...	5
2.	Skin scrapings	...	2
3.	Wet preparations for Trichomonas of vaginal and cervical swabs	...	80
4.	Wet film preparation of urine	...	651
5.	Wet film preparation of stools and rectal swabs	...	80
6.	Wet film preparation of liver aspirates	...	40
7.	Urethral and Prostatic smears	...	35
8.	Vaginal and cervical smears	...	20
9.	Miscellaneous	...	14
10.	Sputum of AFB—Direct Method	...	3,085
11.	Sputum for AFB—Concentration Method	...	85
12.	Hanging drop preparation	...	80

 4,178

VIII.—Tests :

1. Sensitivity Tests	...	5,569
2. Coagulase Tests	...	724
3. Agglutination Tests	...	521
4. Biochemical Tests	...	453
5. Biochemical on Triple-Sugar-Iron Agar	...	3,266
6. Insulin Fermentation Tests	...	416
7. Bile solubility Tests	...	416
8. Casoni's Tests	...	11
9. Free's Test	...	10
10. Preparation of Autovaccines	...	—
11. Sterility Tests of Injectable apparatus etc.	...	108
12. Biological Tests	...	5
13. Miscellaneous Tests and Examinations	...	11
14. Filtration of Blood Bank serum	...	75
15. Urea Fermentations	...	3,266
		<hr/>
		14,801

IX.—Special Investigations and Research :

1. Bacteriological studies of organisms in operation Theatre and Wards	...	87
2. Study of Epidemic Conjunctivitis	...	132
3. Study of AFB from lymphnodes	...	5
		<hr/>
		224

X.—Emergency Investigations carried out in the Wards :

1. Blood	...	5,332
2. Urine	...	4,922
3. Stools	...	126
4. C. S. F.	...	207
5. Pleural Fluid	...	34
6. Ascitic Fluid	...	39
7. Other Aspirated Fluid	...	18

II.—Smears and Cultures of :

1. Swabs from Throat, Nasal, Pus, etc.	...	20
2. C. S. F ² and other aspirates	...	25
3. Stools	...	5
4. Miscellaneous	...	14

II.—Biochemical Examinations of Blood for :

1. Sugar	...	38
2. Urea Nitrogen	...	46

Total ... 10,826

Grand Total ... 51,710

Blood Bank :

1. No. of Donors bled in 1971	...	6,409
2. No. of Voluntary donors bled in 1971	...	2,054
3. No. of blood brought from outside in 1971	...	302
4. No. of blood given to outside hospital	...	573
5. No. of Cross-matching done in 1971	...	8,116
6. No. of Rh-typing done in 1971	...	9,944
7. No. of transfusions given in 1971	...	5,823
8. No. of Coom's test done in 1971	...	24
9. No. of antibody titres done in 1971	...	28

List of Publications :**Pr of. S. M. Purandare—**

1. Fatal amoebic liver abscesses ; a clinico-pathological study jointly with Dr. Varant Kamath.
2. Pheochromocytoma—report of 2 cases jointly with Dr. I. V. Shah in Indian Journal of Cancer.
3. Primary meningeal sarcoma—accepted for publication by Indian Journal of Cancer—jointly with Dr. Smt. S. R. Prabhu.
4. Panel discussion on "Food Poisoning", All India Radio—11th September 1971.
5. Presented paper—Mycotic endocarditis in open heart surgery—jointly with Dr. C. K. Deshpande Cardiology conference on 19th, September 1971.

Dr. D. U. Antani—

1. Post catheterization syndrome—a critical evaluation. (Work done in collaboration with department of Gynaecology and Obstetrics). Accepted for publication in Indian Journal of Obstetrics and Gynaecology. (This has been published in the February 1972 issue of this journal).
2. Dysfunctional uterine bleeding—a clinico-histopathological correlation of 160 cases. (This work has been done in collaboration with the department of Obstetrics and Gynaecology) Accepted for publication in "Current Medical Practice."

Smt. Leela Joshi—

1. Streptomycin resistance in *Salmonella paratyphi A* analysed by transduction by Leela Joshi. This paper was presented in April 1971 at the Seminar on "Health and Genetics" arranged by the I. C. M. R. The summary is published and paper is being published in the Proceedings of this Seminar.
2. Studies in virulence of *Salmonella paratyphi A* by Dr. C. K. Deshpande, Smt. Leela Joshi and Anjali Karandikar. This paper was presented at a meeting of Association of Microbiologists of India in March 1972.

Dr. (Smt.) I. V. Shah—

Pheochromocytoma—Report of two cases—in Indian Journal of Cancer, December 1971.

Dr. V. V. Kale—

Congenital Leukaemia associated with Mongolism in Journal of postgraduate Medicine. Submitted for publication in year 1971.

Dr. S. R. Prabhu—

1. Meconium Peritonitis—published in Journal of postgraduate Medicine Vol. XVII, No. 4, October 1971.
2. Primary diffuse sarcomatosis of the meninges—accepted for publication in Indian Journal of Cancer.

Shri A. G. Pradhan—

1. Accepted for publication by American Journal of Dental Research published by American Dental Association official publication of the International Association of Dental Research.
2. Serum potassium changes subsequent to intravenous Secline in different induction techniques (With Dr. J. S. Anand). Accepted for publication by Indian Journal of Anaesthesia.

Research projects being carried out at Present :**Prof. S. M. Purandare—**

A. S. O. titre in Rheumatoid arthritis (Dr. Antani and Dr. Smt. Bhansali).

Dr. D. U. Antani—

1. Detailed bacteriological studies of cases of Cholera admitted to Kasturba Hospital. 113 strains of vibrio Cholera were studied in detail. A paper is being made for publication. Study of liver functions in bacteriologically proved cases of typhoid fever.

Smt. Leela M. Joshi—

1. "Transformation studies in *Salmonella paratyphi A*" project from Indian Council of Medical Research.
2. "Studies on *Salmonella* and some other bacterial strains and their mutants using tissue culture." Project from Research Society, B. Y. L. Nair Charitable Hospital and T. N. Medical College.
3. We have just received a grant of Rs. 25,000 from the Tata Trusts to carry on research Microbial genetics and Virology.

Shri A. G. Pradhan—

1. B-Glucuronidase and peridental destruction (Study of the enzyme in Serum and Saliva of the cases of peridental destruction with and without diabetes).
- Work carried out with Dr. (Mrs). Ginwalla who read this paper in the International conference of oral biology, at Geneva.

ANATOMY DEPARTMENT**Special Departmental Activities :**

1. Multiple Choice Examinations to evaluate students performance.
2. Objective Types of Assessment for Practical Examinations.
3. Electives for undergraduate students based on specialised techniques involving simple histochemistry Cytology, Photomicrography and colorimetry, as well as modelling and clants.
4. Most of the photomicrographs of the whole Institution, whether for departmental, teaching, publication or conference and research are photographed in this department both in black and white and colour.
5. During the last year this department has been involved in the detailed histological study of material from E. N. T. Department for Head and neck tissues.
6. The Department has also charge of the Artists Section of the College and Hospital.

Research—Dr. E. J. deSouza :

1. Exfoliative Cytology, hormonal, cancer Screening and Barr Bertram study.
2. Histochemistry—
 - (a) Experimental and investigative on diseased tissue.
 - (b) Enzyme Histochemistry Applied studies—
 - (i) Fungi (with Dr. Vamalia and Miss Kiran).
 - (ii) Diseased conditions.
 - (c) Elastic tissue staining.
 - (d) Sulphated Mucopolysaccharides.
3. Detailed histological and histochemical study of tissues from the Mouth, Larynx and Thyroid.

DEPARTMENT OF PHYSIOLOGY :

The Department of Biochemistry was bifurcated from the Department of Physiology with effect from 10th November 1971 and Dr. (Smt.) J. J. Engineer is in-charge of that Department.

Research Work :

1. Study of effect of smoking on blood cytology.
2. Study of social, economic and educational pattern of students admitted for 1st M.B., B.S. Course.
3. Distribution of L and B receptors in various tissues. Participation in extra-curricular activities and conferences, etc.

Dr. J. V. Bhatt—

1. Attended seminar Medical Education held by I. M. A. in New Delhi from 24th September 1971 to 27th September 1971.
2. Awarded Fellowship by Colombo Plan from 18th November 1971.
3. Participated in the Seminar arranged during Golden Jubilee year on impact of Medical Education.

Dr. (Mrs.) V. G. Parulkar—

1. Deputed to attend the group discussion held under the auspicious at LAIS (I. C. M. R.) on 18th and 19th March 1971.
 2. Held the post of Honorary Secretary of the Staff Society, T. N. Medical College and Nair Hospital during the year 1971-72.
- Monthly meetings of the members of teaching staff were held when the members of the staff spoke on various topics in physiology and applied physiology.

DEPARTMENT OF PHARMACOLOGY :

Dr. R. S. Sotskar was appointed as Professor and Head, Department of Pharmacology from 15th February 1972 *vice* Dr. M. S. Kekre, Prof. of Pharmacology, promoted as Dean and transferred to L. T. M. G. from 12th May 1971.

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.

Equipments :

1. Spectronic—20.
2. Electrophoresis apparatus.

Publications :**Dr. S. R. Amlaji—**

1. Resistance of chloroform sweat taste to Blockade by Gymnema Sylvestre. Indian Journal of Physiology and Pharmacology Vol. 15, No. 2, Page 26.
2. Drugs in Coronary thrombosis, Heart Care, Vol. II No. 2, page 16.
3. Drugs in Treatment of Congestive cardiac failure; Heart care (In press).

Research Projects :

- Dr. Nanda : Working on Neostigmine, hypothermia digilation Chloromycetin toxicity.
 Dr. V. G. Dhume : worked on
 (1) Liv. 52.
 (2) Inflammatory exudate.

Conference attended :

- Dr. J. C. Bijlani : Presented a research paper at III Annual conference of Nuclear Medicine.
 Dr. R. S. Sotskar presented a research papers at II Annual Conference of Society of Nuclear Medicine, and XVII Annual Conference of Association of Physiology and Pharmacology, India.
 Dr. D. A. Joseph : Attended the Conference of Medical Journalism.

DEPARTMENT OF BIOCHEMISTRY :

The department of Biochemistry was bifurcated from the Department of Physiology with effect from 10th November 1971 and Dr. Smt. J. J. Engineer is in-charge of this Department.

NURSING STAFF :

During the year 26 students passed the General Nursing Examination Part II and 44 students passed the midwifery examination.

Mica. S. Verghese got 1st prize in Surgical Nursing in Council Examination held in January 1971.

POOR PATIENT FUND :

Donations to the extent of Rs. 2983.00 were received during the year in addition to Rs. 23,061.55 collected from the boxes kept in the wards and O. P. D. of the Hospital.

An amount of 7,888.00 were spent from the fund towards Medicine, Drugs, appliances, ect. for the poor patients.

HEALTH CHECK UP CENTRE;

343 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. 1,16,22,340 as against Rs. 99,12,234 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 postgraduate Examination.

The College is affiliated with the College of Physicians and Surgeons of Bombay for postgraduate diploma courses

The College has been affiliated to the University of Bombay for teaching the courses of studies leading to B. Sc. (Audiology and Speech Therapy) Degree/examinations two years from 20th June 1971.

The number of under-graduate students on the roll at the close of the year was 638 out of which 162 were lady students. The number of post-graduate students was 331 including 110 ladies. Students registered for Diploma Courses of the College of Physicians and Surgeons of Bombay were 168 including 23 lady students.

University and College Prizes :

Name of the student.	Name of the prize awarded.
(1) Shri M. B. Shroff	... Dr. L. H. Hiranandani Scholarship for 1971.
(2) Shri H. A. Hassan	... Dr. D. V. Patel Scholarship for 1971.
(3) Smt. D. R. Patel	... Mrs. Jane Patrao Scholarship for 1971.
(4) Shri D. H. Patel	... Dr. E. S. Sankar Narayan Iyer's Scholarship for 1971.
(5) Shri K. J. Sheth	... Dr. A. L. Nair Memorial Scholarship for the year 1971.
For I M. B. B. S. Examination—October 1971—	
(6) Shri E. D. Borges	... (1) Dr. D. D. Variava's Prize. ... (2) Dr. D. D. Sathye's Prize. ... (Prize equally shared). ... (3) Dr. S. B. Parbhure's Prize. ... (Prize equally shared). ... (4) Mahatma Gandhi Memorial Prize and ... (5) Dr. R. L. Adiga Prize.
(7) Shri J. J. Patel	... (1) Dr. D. D. Variava's Prize. ... (2) Dr. D. D. Sathye's Prize. ... (Prize equally shared).
(8) Shri C. N. Purandare	... (1) Dr. S. B. Parbhure's Prize. ... (Prize equally shared).
(9) Shri P. R. Sureka	... (1) Dr. G. P. Nair Scholarship in Embryology— ... competitive examination held in September 1971.
For II M. B. B. S. Examination—April 1971—	
(10) Shri S. L. Prabhawalkar	... (1) Dr. V. G. Role Scholarship and
(11) Shri N. K. Bahal	... (2) Dr. S. S. Rau's Prize, (Equally distributed).
(12) Shri G. N. Gandhi	... (1) Dr. Maneck B'limoria Prize. ... (2) Shri Dongarshi A. Karia's Prize. ... (3) Dr. W. B. Bhave's Memorial Prize. ... (4) Dr. Lalkaka Prize in Psychiatry Competitive ... examination held in November 1971.
(13) Smt. S. P. Kothari	... (1) Dr. H. A. Maniar's Prize.
For III M. B. B. S. Examination—October 1971—	
(14) Shri A. G. Kothari	... (1) Dr. P. F. Sponawala Gold Medal. ... (2) Dr. A. L. Nair Memorial Gold Medal. ... (Prize equally shared). ... (3) Dr. D. B. Pandya's Prize in Books. ... (4) Smt. Gopikabai Narayan Karand's Prize. ... (5) Dr. Parab Memorial Prize.
(15) Smt. P. M. Rungta	... (1) Dr. A. L. Nair Memorial Gold Medal, ... (Prize equally shared).
(16) Smt. R. F. Almeida	... (1) Snehalrani Ranade Paritoshika for Girl Student ... (Equally shared between three lady students.) ... Do. ... Do.
(17) Smt. N. J. Baxi	...
(18) Smt. M. J. Irani	...
(19) Smt. P. N. Saraf	... (1) Dr. A. M. Gokhale Cash Prize in Ophthalmology ... competitive examination held in August ... 1971.

University Prizes—III M. B. B. S.—October 1971—

Shri Kothari A. G.

- ... (a) The Manorama Vijayrani Hazarat Scholarship.
- (b) The Dowager Lady Shantabai Sitaram Patkar Gold Medal and Prize.
- (c) The Pandit Bhagwandin Dab and Mrs. Ramadulari Dab Scholarship in Medicine.
- (d) Dr. R. S. Poradi Gold Medal and Prize.
- (e) The Doctor Govind Vishnu Juvekar Prize.
- (f) The Doctor Kaikhushroo Sorabji Kanga Scholarship.
- (g) The J. C. Lishya Gold Medal and Prize.
- (h) The Shri Kund Gordhandas Bhalja Prize for Medicine and
- (i) The Charles Morehead Prize.

Shared by Kumari P. M. Rungta and S. R. Dongaji (Grand Medical College Student).

- (j) The Dr. S. R. Moolgavkar Gold Medal and
- (k) The Shri Gordhandas Shankarlal Bhalji Prize for Surgery.

Kum. P. M. Rungta

- ... (l) Securing distinction in Surgery and for having shared prizes,
 - (i) The Scholarship of the Medical Women for India Fund of 1833,
 - (ii) The Lady Rony Silver Medal and Prize.
 - (iii) The Late Smt. Indirabai A. Telang Prize and at (j) and (K) above.

LIBRARY

The total number of books added to the library during the year was 934 as against 863 during the previous year. Out of these, 146 were donated to the library.

The library subscribed to 250 periodicals as against 244 during the last year. 75 periodicals were received gratis from the publishers, the Hon. Staff of the Nair Hospital and others. The library, therefore had 325 current periodicals as against 324 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 1,09,260 as against 1,02,621 during the last year.

3,506 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. Medical College as against 3,183 during the last year. 43 bound volumes of periodicals were borrowed from the various institutions participating in the inter-loan scheme and 20 were loaned out to them.

11 books were written off. 730 bound volumes of periodicals were added to the library.

The library had at the end of the year 18,141 books as against 17,220 of the previous years and 7,603 bound volumes of periodicals as against 6,873 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 80C.

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-Officio 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, new 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.

13 Research projects were under taken by the Society during the year under report.

A sum of Rs. 36,900 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. 250 was received during the year under report as a grant-in-aid from Municipal Corporation of Greater Bombay.

During the year under report 14 New members were enrolled as ordinary members and 2 members enrolled as life members and 2 ordinary members were enrolled as life members.

The Society sponsors lectures and seminars by prominent clinicians and scientists from India and abroad.

ANNUAL COST AND REVENUE :

The total expenditure of the College amounted to Rs. 20,39,339.34 during the year ending report as against Rs. 33,18,039.88 during the previous year. The net revenue of the college by way of Tuition fees, Miscellaneous receipts etc., amount to Rs. 3,29,514.00 as against Rs. 3,40,792.00 for the previous year.

Dr. BAJEKAR HOSPITAL :

This hospital with a total bed strength of 60, functions as the surgical wing of B. Y. L. Nair Charitable Hospital, and is under overall administrative control of Dean of that hospital. Patients attending Nair Hospital, needing surgical operation such as Hernia, Hydrocele, Piles, Fistula, Fissure, Appendicitis, etc., are admitted and operated at Bhajekar Hospital. The bed strength of this hospital has been increased from 45 to 60 with effect from 1st September, 1971, to accommodate 15 more orthopaedic patients giving some relief to the orthopaedic side of Nair Hospital, thereby increasing orthopaedic accommodation at Dr. Bhajekar Hospital, from 11 to 26. Looking to the medical relief to the needy public in the vicinity, and to utilise the services of present staff and full use of space thereat, the Out Patients Department was also started from the same date. The Hon. Asstt. Surgeons from Nair Hospital attend to the operational work at Dr. Bhajekar Hospital in rotation. The A. M. O., Nair Hospital looks after the general supervision under the control of Dean. The work of renovation and painting was duly completed.

During the year 1971—1,341 new cases were examined; 1,257 patients were admitted for indoor treatment out of which 241 were orthopaedic cases.

Total number of operations performed during the year 1971 were 1,258.

The expenditure per patient was Rs. 5.59 per day.

DR. C. K. DESHPANDE,

Dean,

*B. Y. L. Nair Charitable Hospital and
Topiwala National Medical College
Bombay 8.*

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
Gastroenterology (Medical)	3	2	...	5
Gastroenterology (Surgical)	3	2	...	5
Cardiology	3	2	...	5
Cardiology Surgery	3	2	...	5
Neurology	5	2	...	7
Neuro-Surgery	3	2	...	5
Thoracic Surgery	3	2	...	5
Plastic Surgery	3	2	...	5
Genito-Urinary Surgical Service	3	2	...	5
Rheumatic & Collegen Disease	3	2	...	5
Keratoplasty	2	2	...	4
Chest Diseases	3	2	...	5
Chronic Cases	10	...	...	10
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 1971 and 1970, Number of operations, etc

Particulars.	FIGURES FOR	
	1971	1970
'A' In-patients		
(1) Scheduled strength of beds	713	713
(2) Daily average number of in-patients	842.30	773.90
(3) Total number of new in-patients treated	32,964	30,909
(4) Average number of days each patient was resident	7.37	8.37
'B' Out-patients		
(1) Total number of new out-patients	2,49,329	2,11,406
(2) Daily average number of new out-patients	814.80	693.13
(3) Total number of out-patients attendance (excluding Casualty cases)	10,98,391	7,00,514
(4) Daily average number of out-patients attendance	3,62,432	2,330.80
(5) Total number of Casualty patients	10,661	10,407
'C' Operations		
(1) Total number of Operations on in-door patients	10,489	10,449

APPENDIX No. 3

Relative cost per In-patient and Out-patient per day during 1971-72 and previous two years.

Particulars	1971-72	1970-71	1969-70
	Rs. P.	Rs. P.	Rs. P.
In-patient	25.80	25.03	23.85
Out-patient	2.09	4.15	3.37

APPENDIX No. 8

Summary of In-patients classified according to Department and Sex for the period from 1-1-1971 to 31-12-1971.

Department.	Sex.		In the Hospital on Mid-night of 31-12-70.	Admitted during 1971.	Total.	Discharged during 1971.	Deaths.	In the Hospital on Mid-night of 31-12-71	
Medical	Male	...	162	6,064	6,226	5,563	514	149	
	Female	...	83	2,691	2,774	2,250	150	84	
	Total	...	245	8,755	9,000	8,063	704	233	
Surgical	Male	...	125	4,530	4,655	4,335	238	82	
	Female	...	44	1,440	1,484	1,327	104	53	
	Children—	Male	...	10	689	699	671	20	8
		Female	...	5	285	290	273	14	3
	Total	...	184	6,944	7,128	6,606	376	146	
Ophthalmic	Male	...	22	460	482	468	2	12	
	Female	...	13	220	233	223	...	10	
	Children—	Male	...	1	39	40	40
		Female	...	1	37	38	37	...	1
	Total	...	37	756	793	768	2	23	
Gynaecology	Female	...	46	1,561	1,607	1,565	8	34	
	Children—	Female	...	3	3	3	...	...
	Total	...	46	1,564	1,610	1,568	8	34	
Skin and Venereal Diseases	Male	...	10	95	105	97	...	8	
	Female	...	3	26	29	29	...	...
	Children—	Male	8	8	8
		Female	1	1	1
	Total	...	13	130	143	235	...	8	
Aural	Male	...	15	812	827	793	15	19	
	Female	...	14	565	580	550	5	25	
	Children—	Male	...	6	418	424	420	1	3
		Female	...	5	422	427	422	1	4
	Total	...	40	2,218	2,258	2,185	22	51	
Orthopedic	Male	...	53	1,380	1,433	1,371	27	35	
	Female	...	39	526	565	527	9	29	
	Children—	Male	...	9	297	306	300	...	6
		Female	...	5	134	139	135	...	4
	Total	...	106	2,337	2,443	2,333	36	74	
Paediatric	Male	...	44	2,399	2,443	2,187	219	37	
	Female	...	19	1,707	1,726	1,477	217	32	
	Total	...	63	4,106	4,169	3,664	436	69	
Maternity	Female	...	63	4,413	4,476	4,405	10	61	
	Total	...	63	4,413	4,476	4,405	10	61	
T.B.	Male	...	27	767	794	699	75	20	
	Female	...	...	...	...	...	...	...
	Total	...	27	767	794	699	75	20	

APPENDIX No. 8—Contd.

Department	Sex	In the Hospital on Mid-night of 31-12-70	Admitted during 1971	Total	Discharged during 1971	Deaths	In the Hospital on Mid-night of 31-12-71
Dental	Male	3	12	15	15	...	...
	Female	1	6	7	7	...	...
	Children—						
	Male	...	2	2	2	...	...
	Female	...	1	1	2	2	...
Total	...	5	21	26	26	..	...
Cardiology (surgical)	Male	6	7	13	5	3	5
	Female	2	12	14	9	5	...
	Children—						
	Male	1	3	4	4	...	...
	Female	...	...	...	...	...	...
Total	...	9	22	31	18	8	5
Gastro-Enterology	Male	3	93	96	89	4	3
	Female	...	21	21	20	1	...
	Children—						
	Male	...	...	...	...	...	...
	Female	...	1	1	1	...	...
Total	...	3	115	118	110	5	3
Psychiatric	Male	14	206	220	206	...	14
	Female	...	4	4	4	...	...
	Children—						
	Male	...	1	1	1	...	...
	Female	...	...	...	...	...	...
Total	...	14	211	225	211	...	14
Rheumatic and Collegen Disease	Male	...	19	19	18	...	1
	Female	...	14	14	12	1	1
	Children—						
	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
Total	...	...	33	33	30	1	2
Endocrinology	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
	Children—						
	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
Total	...	...	...	...	...	...	...
Neuro-logy	Male	5	112	117	108	1	8
	Female	...	46	46	38	4	4
	Children	...	4	4	4	...	...
	Male	...	3	3	3	...	...
	Female	...	...	...	...	...	...
Total	...	5	165	170	153	5	12
Neuro-surgery	Male	...	44	44	33	5	6
	Female	...	10	10	3	1	6
	Children	...	3	3	2	1	...
	Male	...	1	1	1	...	...
	Female	...	...	...	...	...	...
Total	...	...	58	58	39	7	12
Plastic Surgery	Male	...	34	34	33	...	1
	Female	...	15	15	11	...	4
	Children	...	30	30	30	...	...
	Male	...	13	13	11	...	2
	Female	...	...	...	...	...	...
Total	...	...	92	92	85	...	7

APPENDIX No. 8—Contd.

Department	Sex	In the Hospital on Mid-night of 31-12-70	Admitted during 1971.	Total	Discharged during 1971	Deaths	In the Hospital on Mid-night of 31-12-71	
Gastro-Enterology Surgical Service Children	Male	...	36	36	36	...	...
	Female	...	10	10	9	1	...	
	Male	...	2	2	2	...	...
	Female	...	1	1	...	1	...	
Total	...	...	49	49	47	2	...
Thoracic-Surgery Children	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
Total	...	...	...	...	...	...	...
Genito-Urinary Surgical Service Children	Male	...	2	89	91	86	1	4
	Female	15	15	14	...	1
	Male	6	6	5	...	1
	Female	1	1	1
Total	...	2	111	113	106	1	6	
Thyroid Clinic Children	Male	...	2	2	2	...	...
	Female	...	4	4	4	...	...
	Male	...	...	...	...	...	...
	Female	...	...	...	...	...	...
Total	...	...	6	6	6	...	...
Cardiology Medical Children	Male	...	57	57	51	1	5	
	Female	...	29	29	26	2	1	
	Male	...	2	2	1	...	...
	Female	...	3	3	2	...	...
Total	...	...	91	91	80	3	6
Grand Total	...	862	32964	33826	31337	1701	788	

APPENDIX No. 9

Summary of out-patients classified according to Departments and sex for the year 1971

Department	Sex	O. P. D. New cases	Casualty cases	O. P. D. Old cases	Total Attendance
Medical	Male	41,287	557	66,959	1,08,803
	Female	20,455	283	52,455	73,193
Total	..	61,742	840	1,19,414	1,81,996
Surgical	Male	36,817	6,077	59,647	1,01,941
	Female	10,279	1,163	41,830	53,272
	Male	9,923	665	28,228	39,216
	Female	4,798	309	23,428	28,535
Total	...	61,817	8,214	1,52,943	2,22,974

APPENDIX No. 9—Contd.

Department	Sex	O. P. D. New cases	Casualty cases	O. P. D. Old cases	Total Attendance	
Ophthalmic	...	10,407	91	24,203	34,701	
	...	3,745	7	18,376	22,129	
	Children	Male	1,089	5	14,417	15,511
		Female	788	1	11,946	12,735
	Total	...	16,030	104	68,942	85,076
Gynaecology	...	6,598	8	29,531	36,139	
	Children	1	1	...	2	
	Total	6,599	9	29,531	36,139	
Skin and Venereal Diseases	...	13,671	4	20,420	34,095	
	...	4,740	...	14,865	19,605	
	Children	Male	3,902	...	11,874	15,776
		Female	2,951	...	10,222	13,173
	Total	...	25,264	4	57,381	82,649
Aural	...	8,324	63	21,887	30,274	
	...	4,560	2	18,194	22,756	
	Children	Male	3,041	8	15,448	18,497
		Female	2,526	3	13,621	16,150
	Total	...	18,451	76	69,150	87,677
Orthopedic	...	5,805	879	21,123	27,807	
	...	2,801	122	14,553	17,476	
	Children	Male	1,212	101	12,034	13,397
		Female	663	34	9,551	10,248
	Total	...	11,481	1,136	57,311	68,928
Paediatric	...	13,768	144	39,960	53,892	
	...	10,906	92	35,471	47,469	
	Total	24,674	236	76,451	1,01,361	
Maternity	...	4,306	31	24,103	28,440	
	Total	4,306	31	24,103	28,440	
T.B.	...	1,653	5	13,182	14,840	
	...	656	...	9,715	10,371	
	Children	Male	2	...	85	87
		Female	2	...	57	59
	Total	...	2,313	5	23,039	25,357
Psychiatric	...	1,221	2	15,372	16,595	
	...	727	1	10,556	11,384	
	Children	Male	65	...	6,705	6,770
		Female	44	...	5,045	5,089
	Total	...	2,057	3	37,778	39,838
Cardiology	...	262	...	2,575	2,837	
	...	175	...	1,761	1,936	
	Children	Male	44	...	825	869
		Female	31	...	546	577
	Total	...	512	...	5,657	6,169
Gastro-Enterology (Medical)	...	182	...	2,218	2,400	
	...	49	...	1,475	1,524	
	Children	Male	6	...	182	188
		Female	2	...	102	104
	Total	...	239	...	3,987	4,226

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	74	...	565	639	
	Female	14	...	367	381	
	Children	Male	1	...	164	165
		Female	1	...	83	84
	Total	...	90	...	1,179	1269
Anti-Rabic	Male	1,589	...	16,147	17,736	
	Female	519	...	9,927	10,446	
	Children	Male	704	...	7,711	8,415
		Female	299	...	5,304	5,603
	Total	...	3,111	...	39,089	42,200
Genito Urinary Surgical Service	Male	168	...	815	983	
	Female	16	...	412	428	
	Children	Male	7	...	95	102
		Female	1	...	13	14
	Total	...	172	...	1,335	1,527
Preventive and Social Medicine	Male	3	...	274	227	
	Female	8	...	1,417	1,455	
	Children	Male	11	...	1,079	1,090
		Female	7	...	927	934
	Total	...	29	...	3,727	3,756
Rheumatic and Collagen Diseases	Male	62	...	1,114	1,176	
	Female	64	...	793	857	
	Children	Male	2	...	94	95
		Female	2	...	52	54
	Total	...	130	...	2,053	2,183
Neurology	Male	206	...	1,742	1,943	
	Female	93	...	1,186	1,279	
	Children	Male	10	...	225	235
		Female	4	...	131	135
	Total	...	313	...	3,284	3,597
Neuro-Surgery	Male	83	...	1,562	1,645	
	Female	35	...	1,013	1,048	
	Children	Male	9	...	416	425
		Female	6	...	251	257
	Total	...	133	...	3,242	3,375
Plastic Surgery	Male	18	...	255	273	
	Female	3	...	156	159	
	Children	Male	5	...	85	90
		Female	3	...	59	62
	Total	...	29	...	555	584
Physiotherapy	Male	...	...	31,718	31,718	
	Female	...	...	18,060	18,060	
	Children	Male	...	...	4,386	4,386
		Female	...	...	2,849	2,849
	Total	...	...	57,013	57,013	
Occupational Therapy	Male	...	...	14,810	14,810	
	Female	...	...	4,535	4,535	
	Children	Male	...	...	1,289	1,289
		Female	...	...	814	844
	Total	...	...	21,478	21,478	

APPENDIX No. 9.—Contd.

Department	Sex	O.P.D. New Cases	Casualty Cases	O.P.D. Old Cases	Total Attendance
Dental	Male	...	2	...	2
	Female	...	1	...	1
	Children ... Male	...	...	...	...
	Female	...	...	...	...
	Total	...	3	...	3
Thyroid Surgery	Male	52	...	519	571
	Female	94	...	351	445
	Children ... Male	2	...	123	125
	Female	4	...	78	82
	Total	152	...	1071	1223
Grand Total		238668	10661	859713	1109042

APPENDIX No. 10

TOPIWALA NATIONAL MEDICAL COLLEGE

Number of students as on 31st March 1972:—

Class	Male	Female	Total
III M.B.B.S. ... III Term	30	13	43
Do. ... II Term	77	35	112
Do. ... I Term	17	9	26
II M.B.B.S. ... III Term	75	26	101
Do. ... II Term	34	6	40
Do. ... I Term	79	20	99
I M.B.B.S. ... III Term	4	...	4
Do. ... II Term	101	39	140
III M.B.B.S. ... Casuals	16	7	23
III M.B.B.S. ... Cond. Course	1	...	1
I M.B.B.S. ... Casual	38	6	44
I M.B.B.S. ... Cond. Course	1	1	2
I M.B.B.S. ... (Irregular)	3	...	3
Total	476	102	578

THE NAIR HOSPITAL DENTAL COLLEGE

The Nair Hospital Dental College has shifted in July, 1971 to a new building which was specially designed and constructed for the College. The new College building is now well equipped with modern dental units and other machinery and Operation theatres.

The College conducts four year's course in Dentistry leading to the Degree of Bachelor of Dental Surgery of the University of Bombay. The College also conducts Post-graduate course in 7 subjects (since June, 1959), leading to Master of Dental Surgery.

The College is recognised as Training Centre in India to train candidates for L. D. S., R.C.S. (Eng.) Examination and fellowship in Dentistry Examination of the Royal College of Surgeons, Edinburgh and Edinburgh.

The admission standard for students is Intermediate Science Examination of the University of Bombay and the courses extends for four years.

During the year 1971-72 under report, 48 students including 15 girls passed the Final B. D. S. and 7 male and 1 female candidates passed M. D. S. Examinations. There were 250 students (including 58 females) and 24 (including 5 females) students, on the roll for B.D.S. and M.D.S. courses respectively during the year under report.

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 79 Dental Chairs, 77 Dental Units, 4 Dental X—Ray Units and other equipments to give Dental Treatment on most modern lines.

Facilities to Students

The College has provided all facilities for Indoor and out-door sports. The students and staff are also provided with a special canteen. The college has also a well equipped library with modern books and periodicals, on Dentistry.

Resume of Work done in the Clinic

The total number of patients treated during the year 1971-72 under report was 81874 including School Children. (both in the morning and evening clinics) which included 33330 males and 33364 females and 15180 children. Details of the work done, operations performed, etc. are given in appendices 'A' 'B', 'C' & 'D'.

During the year under report total revenue of Rs. 1,67,763.01 was collected by way of fees from students and charges from patients, as against Rs. 1,67,984.00, during the preceding year. The total expenditure incurred came to be Rs. 15,49,680.00 (Rupees fifteen lakh, forty nine thousands six hundred and eighty) as against Rs. 13,51,664.00 during the preceding year.

During the year under report 724 sets of upper and lower Artificial Teeth, 464 Partial Sets of Teeth and 247 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. 10,635.69 at the close of the year.

5649—Municipal School Children were treated in the Clinics during the year.

Dr. M. S. N. GINWALLA,

L. D. S., D. D. S., M.Sc., F.I.A.O.S. F.A.M.S.,

J. P.

Dean,

Nair Hospital Dental College.

APPENDIX 'A'

Clinical yearly Report from 1-4-1971 to 30-3-1972.

Particulars.	Morning	Evening	Total
New Patients	7991	23795	31786
Old Patients	17137	32949	50086
Total Patients	25128	56746	81874
Male	11569	21761	33330
Female	8725	24639	33364
Children	4834	10346	15180
Silver Filling	1494	2806	4300
Porcelain Filling	22	88	110
Root Canal Treatment	53	106	159
Gold Inlay	17	30	47
Jacket Crown	87	78	165
Crown and Bridge	...	...	...
Pulp capping	74	165	239
Apicectomy	15	9	24
Scaling	2490	4392	6882
Gingivectomy	180	112	292
Extractions	9356	28997	38353
Roots extracted	122	270	392
Abscess opened	18	47	65
Alveolectomy	62	33	95
Flap Cutting	—	39	39
Imp. 3rd Molar	22	22	44
G. A.	—	728	728
Operations.	—	—	—
Partial Denture	237	227	464
Repair Denture	130	117	247
Arch fixed App.	50	162	212
Bad Cook Plate Bands	48	86	134
Retention Appliance Plates	1	4	5
X-Rays	781	1598	2379
Full Denture	413	311	724

APPENDIX 'B'

Maxillo Facial and Plastic Surgery Department.

List of Operations done during 1971-72.

Serial No.	Description.	Nos.
1	Impactions	158
2	Biopsy	24
3	Oro—Ar. tral Fistula	8
4	Cyst	29
5	Fracture	74
6	Cald-well-luc	4
7	Benign—Tumours	25
8	Plastic Reconstructive Surgery	15
9	APICECTOMY	16
10	Alveolectomy	2
11	Alveolar Abscess	7
12	Hard Bular Resection	2
13	Cleft Palate	3
14	Osteotomy—Mandible	1
15	Rhinoplasty	1
16	Curettag	20
17	Transplantation of Canine	1
18	Vestibulopalsty	4
19	Hare lip	3
20	Skin graft	2
21	Bone graft	2
22	Extra-oral sinus	4
23	High Condilectomy	1
24	Nerve Avulsion	7
25	C. L. W.	2
26	Sub-Luxation T.M. Joint	3
27	Gland Excision	8
	Operations L. A.	376
	Operations G. A.	50
	Total.	426

**Lokmanya Tilak Municipal General Hospital and
Annapurnabai Deshmukh Hospital for Women
& Lokmanya Tilak Municipal Medical College
Sion, Bombay 22**

MEDICAL RECORD DEPARTMENT.

**SUMMARY OF THE ANNUAL ADMINISTRATION REPORT OF
L. T. M. G. HOSPITAL & L. T. M. M. COLLEGE, SION, BOMBAY 22.
1971-72**

The Annual Administration Report of the L. T. M. G. Hospital and L. T. M. M. College for the year 1971-72 is summarised as follows:—

HOSPITAL :

I. EXPENDITURE :

(A) 1	Amount spent on In-patients :—	...	...	...	Rs.	87,69,434.00
2	Amount spent on Out-patients :—	...	...	...	"	17,53,886.00
3	Total Expenditure excluding New Works :—	...	...	...	"	1,05,12,990.00
4	Expenditure on New Works :—	...	...	...	"	10,33,000.00
(B) 1	Average cost per In-patient per day :—	...	...	...	"	26.79
2	Average cost per Out-patient per day :—	...	...	...	"	6.31

II. RESULTS :

(A) 1	Schedule Bed Strength	...	...	...	...	507
2	Daily average In-patients in Wards	...	...	...	...	890.4
3	Total number of admission including those brought over from the previous year	...	...	...	...	45,592
4	Total number of patients discharged :	...	...	...	...
	(i) Relieved	...	...	...	...	29,443
	(ii) As Cured	...	...	...	...	3,295
	(iii) Left Against Medical Advice	...	...	...	...	3,587
	(iv) Expired	...	...	...	...	2,889
	(v) Remained in the hospital on the last day of the year	...	...	...	...	667
5	Average stay of In-patients	...	...	...	...	7.2
(B) 1	Total number of New Out-patients :—	...	...	...	...	2,53,010
2	Daily average number of New Out-patients :—	...	...	...	...	835
3	Total number of Casualty Attendance (Medico-legal).	...	...	...	...	37283
(C) 1	Total number of operations on In-patients.	...	...	...	...	13, 619
2	Total number of Operations on Out-patients.	...	...	...	...	16,461
(D) Confinements :						
1	Booked Cases	...	...	...	...	3,713
2	Emergency Cases	...	...	...	...	1,245
3	Normal	...	...	...	...	4,601
4	Abnormal	...	...	...	...	357
5	Left Before Delivery	...	...	...	...	753
6	Necnatal & Maternal Deaths	...	...	...	...
	(i) Maternal Death	...	...	...	...	36
	(ii) Still Births	...	...	...	...	257
	(iii) Premature life born infants	...	...	...	...	182

III SPECIALISED TREATMENT :

1	Total number of Admission in Resuscitation Ward	...	...	...	...	1,571
2	Sterilization :					
	Male	...	...	...	...	137
	Female	...	...	...	...	469
	I. U. C. D. inserted	...	...	...	...	36

IV. RADIOLOGY :

1 Total X-Rays taken at L. T. M. G. Hospital	28,795
--	-----	-----	-----	-----	--------

V. BLOOD BANK :

1 Total number of Blood Sample collected :—					
(i) From Voluntary Donors	...	...	...	...	2,170
(ii) From Professional Donors	...	...	...	...	3,515
(iii) From other hospitals	...	...	...	...	159
(iv) From Relatives	...	...	...	...	134
2 Number of Bottles supplied...	...	...	...	...	5,131
3 Total amount spent from Poor Box Charity Fund on payment to the Professional Donors and other incidental charges	...	...	...	...	Rs. 35,321.15

VI. SCHOOL CLINIC :

(A) Total number of School Children treated :—					
(i) New	...	...	...	...	2,152
(ii) Repeat	...	...	...	...	10,279
(iii) Referred	...	...	...	...	1,168
(B) Total Expenditure on Clinic	...	...	...	...	Rs. 66,802.70

VII. PHYSIOTHERAPY :

(A) Total number of attendance at the Centre :—					
Cut-patients	...	...	...	...	6,590
In-patients	...	...	...	...	4,822
(B) Student attended from P. T. School G. S. Medical College	...	...	...	...	12

VIII. OCCUPATIONAL THERAPY :

(A) 1 Total number of patients treated at the Centre	...	...	...	9,208
2 Total number of treatments given	...	...	...	84,776
(B) 1 Total number of student attended from O. T. School, G. S. Medical college	...	...	...	12

IX. DEFICIENCIES :

- 1 Over crowding of patients in the wards :— As against 507 scheduled beds, the daily average In-patients in the ward is 890. The over crowding is particularly in male medical and surgical, female and children surgical and orthopaedic and Paediatric wards.
- 2 Over crowding of visitors in the ward :—Too many visitors come to see patients, making it difficult for staff to do their routine work.
- 3 Heavy rush in the O. P. D. particularly in the morning hours. On an average 835 patients attend the hospital daily.
- 4 Overall shortage of nursing staff due to too much over crowding of the patients.
- 5 Too many honoraries are attached to a single ward. Due to this there is no free day for the sister to get the wards cleaned or to check the stock.

SUGGESTIONS :

1. Decentralization of Registry :—At present the Registration Section has been decentralised in 2 O. P. D. Departments viz. Skin and Psychiatric and found very satisfactory. It is necessary to decentralise it in other remaining departments also.

The O. P. D. Case papers at present are handed over to the patients with a plastic bags for preserving it. This system has helped in minimising the waiting time of the patients to get the papers.

2. Accident Service :—Indian Red Cross Society have offered the van which is at present being used as Flying Maternity Squad.

The standing Committee have accorded sanction to takeover the services and in order to put it to most economic use to utilise the van for accident services also.

COLLEGE :**I. ANNUAL EXPENDITURE AND REVENUE :**

(A) 1	Total Expenditure including expenditure on hostel.	...	...	...	Rs.	12,66,856.00
2	Revenue from Tuition fees, Hostel Rent and Miscellaneous Receipts.	...	...	...	..	1,45,071.00
3	Revenue from Post-graduate fees.	...	...	...	..	5,860.00
(B) 1	Income from Hostel.	...	...	...	..	10,570.00
(C) 1	Gross Cost per Student.	...	...	...	..	4,854.00
2	Net Cost per student.	...	...	...	..	4,293.00

II. STUDENTS :

- (A) 1 Total students admitted :—261 including 60 New Admission.
2 Number of Students in the different Classes.

			Male	Female	Total
(i)	1st M. B. B. S. 1st Year	}	56	18	74
(ii)	1st M. B. B. S. 2nd year				
(iii)	2nd M. B. B. S. (I, II & III Terms)	...	68	45	113
(iv)	3rd M. B. B. S. (I, II & III Terms)	...	41	33	74
	Interns.	...	29	44	73
	Total No. of Undergraduates.	...	165	96	261
	Total No. of Post-graduates including Research Students.	...	85	42	127

- (B) 1 Average age of student :—
(i) at the time of admission : 17 years to 18 years.
(ii) at the time of S. S. C. : 15 years to 16 years.
- 2 Marital Status at the time of admission :—
(i) Married.
(ii) Betrothed.
(iii) Single. All Single.

M. S. KEKRE,
DEAN,
L. T. M. G. HOSPITAL, SION.

ADMINISTRATION REPORT 1971-72

The Lokmanya Tilak Municipal General Hospital, Sion has completed 24 years of its existence in the year 1971-72. A short report of the staff position and the work done in the various departments of this institution during the year under report is given below:—

In the year 1971-72, the Lokmanya Tilak Municipal Medical College has completed 6 years -imparting medical education to the students. It's affiliation to the University of Bombay has been further extended upto June 1973. The permanent affiliation is subject to the fulfilment of the conditions laid down under the University letter vide No. Aff/Recog/6484 of 15-4-71 when the college building is ready for occupation which is the main condition for the affiliation.

The College now a fullfledged institution for under-graduate was inspected by the Medical council of India in October 1970. However their report granting recognition is awaited.

Important changes about the Staff and Departments and report about the work done during the year in the institution is given below.

ADMINISTRATION.

Dr. M. S. Kekre, M.B.,B.S., M.Sc. (Med.) took over the charge of the post of Dean on 12-5-71 relieving Dr. V. N. Panse, M.D., Prof. of Preventive & Social Medicine Department who was looking after the duties of the post.

Dr. (Smt.) A. S. Punde, M.D., has continued to hold the post of Superintendent of L. T. M. G. Hospital.

TEACHING AND ADMINISTRATIVE STAFF.

New Appointments, transfers, promotion, study leaves,

New appointments during the period from 1-4-71 to 31-3-72.

- | | | |
|---|--|--|
| (1) Dr. H. L. Dhar, Prof. of Pharm. | ...B.Sc., M.B.,B.S.
Ph. D. (Pharm.)
F.C.A.I. fellow. | Appointed from 17-2-1972. |
| (2) Dr. R. S. Satoskar, Prof. of Pharm. | ...M.B.,B.S., B.Sc.,
Ph. D. | Transferred to T. N. M. College 12-2-1972. |
| (3) Shri F. R. Billimoria, Prof. of Biochemistry. | ... M.Sc. | Appointed from 1-2-1972. |
| (4) Dr. (Smt.) L. I. Asher, Asstt. Prof. of Obst. & Gyn. | M.D. | Appointed from 7-2-1972. |
| (5) Dr. (Smt.) P. Sundaram, Asstt. Prof. of Medicine. | ... M.D. | Appointed from 10-11-1971. |
| (6) Dr. (Smt.) G. T. Ratanchandani, Asstt. Prof. of Path. & Bach. | ... M. D. | Appointed from 2-1-1972. |
| (7) Dr. G. H. Tilve, Asstt. Prof. of Medicine. | ... | Transferred to Seth G. S. Medical College from 16-10-1971. |

Hon. STAFF.

- | | | |
|--|----------|----------------------------|
| (1) Dr. C. S. Wagle, Hon. Prof. of Paed. | ... M.D. | Appointed from 1-3-1972. |
| (2) Dr. R. V. Juvekar, Hon. Asstt. Prof. of E. N. T. | ... M.S. | Appointed from 29-12-1971. |
| (3) Dr. S. A. Gokhale, Hon. Asstt. Prof. of Opth. | ... M.S. | Appointed from 18-2-1972. |

On leave for Training Abroad.

- | | |
|--|--|
| (1) Dr. A. K. Kale, M.D. (Pharm.). | 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 Assistant Surgeon. | On leave for training in abroad for two years from 25-5-1971. Cook County Hospital Chicago. Fellowship in Burn-Surgery. |
| (3) Dr. A. B. Mehta, M.D. Hon. Asstt. Physician. | On leave for study purposes from 1-6-70 to 31-5-72. U.S.A |
| (4) Dr. B. V. Mehta, M.S. Hon. Asstt. Orth. Surgeon. | On leave for 1 year from 26-6-1971. Resident Fellowship at the United Hospital Orth. Centre, New York, U. S. A. |

ADMISSIONS

No change in intake capacity, i.e. 60 students. Number of undergraduate students on roll on March 1972 was 359 and that of post-graduate students was 127.

EDUCATIONAL ACTIVITIES

Besides regular teaching programme, monthly schedule meeting and clinical cardiology conferences were held regularly. Scientific and educational films were shown to the staff and students.

Interns graduates from Universities other than Bombay were allowed to undergo internship training at the L. T. M. G. Hospital.

During the year, inspection of the University of Bombay for teaching facilities in different departments of this institution was held and the following departments have been recognised for post-graduate training.

Medicine, Surgery, Obst. & Gynaecology, Anatomy, Physiology, Pathology, Pharmacology, Skin, Paediatrics, Radiology, Ophthalmology, Orthopaedics, Psychiatry.

Results of examinations are shown in Appendix I. General performance of students continued to be good.

The names of the winners of college prizes or awards for their academic performance are shown in Appendix II.

List of research work conducted in pre and para-clinical departments is given in Appendix III.

As the College building is not ready for occupation, these departments continued their stay in the hospital O. P. D. building.

Full time departments of Medicine, Surgery and Anaesthesiology are functioning well.

RESEARCH SOCIETY

The Research Society is functioning in these institution since August 1966. It is recognised under societies registration act and public trust Act. It is also exempted from paying Income-tax. Medical Officer working in these institutions including Honoraries, Asst. Honoraries and full-time Medical Officers upto the level of Sr. Registrar, Tutors, Lecturers are members of the Society. Annual subscription for each member is Rs. 25/-. Total number of membership on 31st March 1972 was 121.

Affairs of society are managed by the Executive Committee comprising of 12 members including the Dean as Ex-Officio president. Assistance of Society is made available to the members of the staff for their research activities by sanctioning suitable grants and arranging the typing of their research papers.

Society also arranges monthly scientific meetings and lectures by eminent personalities in the field of Medicine and allied subjects.

LIBRARY

The working hours of the library has increased. At present it is kept open from 8-30 a.m. to 10-00 p.m. on week days, 8-30 a.m. to 7-00 p.m. on Saturdays. It was closed on Sundays and holidays but now it remains open from 9-00 a.m. to 4-00 p.m. on Sundays and holidays except the O. P. D. Holidays.

During the year 417 books and 300 bound volumes have been added to the library collection. At the end of the year it has a collection of 6731 books and 2675 bound volumes of the journals. Subscription is paid for 252 titles of the journals. 25 journals are received as complimentary copies.

The number of books and periodicals issued on the premises is 39,000 approx. and 2,500 issued for home reading.

The amount sanctioned by the Corporation for the year 1971-72 is Rs. 65,000/- An additional grant of Rs. 25,000/- has been sanctioned for the same period for books and deadstock for the library.

The staff also has been increased and the total staff working in the library is as under :—

(1) Senior Librarian.	1
(2) Junior Librarian.	2
(3) Library Attendant.	3
(4) Library Servants.	3

HOSTEL

On shifting of Lady R. M. Os. from the Old barracks to newly constructed building, Lady student residents were shifted there and the barrack which was being used for Ladies hostel is given for boys and now in all 68 boys and 40 girls can be given accommodation in the two hostels.

Preference is being given to the students due for University Examination in the respective terms.

ANNUAL COST AND REVENUE

The total expenditure of College amounted to Rs. 2,74,263/- during the year ending report excluding establishment as against Rs. 2,46,160/- during previous year. The net revenue of the College by way of tuition fees and miscellaneous receipt etc. amounted to Rs. 1,34,501/- as against Rs. 99,855/- for previous year.

AFTERNOON OUT PATIENT DEPARTMENT

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. 43,980 patients were treated in afternoon O. P. D. during the year.

- (1) Medical.
- (2) Surgical.
- (3) Orthopaedic.
- (4) Paediatric.

Indoor Patients

The scheduled bed strength of this Hospital is 507. The distribution of beds according to the department is shown in Appendix—IV. 44,656 patients were admitted for indoor treatment during this year as against 44,755; 40,541 and 39,346 during the preceding 3 years respectively. The decrease in the number of admitted patients during the year, as compared to the last year is due to reduction of patients strength during the Indo-Pak war.

The departmentwise distribution of 44,656 admitted patients plus 936 patients of previous year remaining as on 31-12-1970 is given below alongwith the respective figures of previous year.

Serial No.	Name of the Department	Patients Treated in	
		1971	1970
1	Medical. ...	12,231	11,659
2	Surgical. ...	10,887	10,005
3	E. N. T. ...	1,429	1,647
4	Ophthalmic. ...	796	887
5	Skin. ...	79	102
6	Dental. ...	4	4
7	Pediatrics. ...	7,764	7,932
8	Psychiatrics. ...	246	226
9	Orthopaedic. ...	2,117	2,043
10	Gynaec. ...	1,725	1,746
11	Obstetrics. ...	7,378	8,504
	remaining as on 31-12-1970	936	remaining as on 31-12-1969 900
		<u>45,592</u>	<u>45,655</u>

Following gives the results of treatment.

Hospital	Cured	Relieved	Otherwise	Delivered	Left before delivery.	Expired	Remaining as on 31-12-71.
L. T. M. G. Hospital.	2893	27196	2831	...	...	2853	575
Annapurnabai Deshmukh Hosp. for Women.	402	2247	756	4958	753	36	9
Total	3295	29443	3587	4958	753	2889	667

In addition to 2,889 deaths among adults, there were 462 deaths due to prematurity, still birth and other causes of prenatal and neonatal mortality. The classification of deaths according to their time of admissions is given below:—

Within 24 hours of admission.	After 24 hours of admission but within 3 days.	After 3 days of admission.	Total Deaths.
1,318	351	1,220	2,889

Out Patient

The Out Patient Department have worked for 303 days during the year under report. The system of handing over the O. P. D. papers to patients has been started since December, 1969. 2,53,010 new patients have taken treatment from the various out patient departments during the year under report.

The highest in-patient and out-patient attendance (only new attendance) on a single day was 1,016 and 945 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	1969	1970	1971
1. General Paying Ward & B. E. S. T. patients	1,112	1,057	1,161
2. No. of Operations performed on Paying Patients:—			
(a) Major.	239	225	204
(b) Minor.	282	278	312

Casualty Department

37,283 accidents and other emergency cases were treated in the Casualty Department during the year under report.

Minor Surgery Department

16,461 minor operations were performed in the Minor Surgery Department during the year under report.

Pathology Department

2,23,676 investigations were carried out in the Department of Pathology and Bacteriology in 1971. 793 investigations were carried out for K. B. Bhabha Hospital, Bandra. 1,025 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 Minor Surgery Department of this hospital was 10,023.

Electro Cardiography Department

8,920 Electro Cardiographic tracings were taken during the year under report including 542 vecto-cardiograms.

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 a person in apparent good health is checked up and all routine examinations such as Blood, Urine, Stool, Screening etc. are carried out on payment of Rs. 10. A card showing the results of the various investigations is given to the person. Special investigations such as X-Ray etc. are carried out if required. During the year under report 225 persons have taken advantage of the same.

During the year 1971-72, the total receipt was Rs. 2,280 whereas the expenditure incurred was Rs. 3,900 as against total receipt of Rs. 3,000, Rs. 2,360, Rs. 2,120 and expenditure of Rs. 2,872, Rs. 3,162, Rs. 3,700 during preceding three years.

The Medical check up scheme is an absolutely voluntary scheme for the patients to come on their own to the check-up centre. The P. R. O. may give wide publicity of this scheme in the News papers etc.

X-Ray Department

The work done in the X-Ray Department during the last 3 years is as follows:—

Serial No.	Particulars.	1971	1970	1969
1.	X-Rays (No. of patients)	28,795	26,057	17,364
2.	Screening	No record kept for too many.	23,542	32,935
3.	Barium Meals and Enemas	1,434	1,227	1,147
4.	Special investigations	1,347	1,302	1,022
5.	Cerebral Angiography	129	17	36
6.	Aortography	46	27	22
7.	Bronchography	40	35	32
8.	Other misc. investigations	1,132	1,223	932
9.	Deep X-Ray	123	...	...

Dental Department

17,126 patients were treated in the Dental Department during this year for various dental troubles.

Blood Bank

The total number of blood samples collected from voluntary donors was 2,170 and from professional donors was 3,515. The number of blood samples supplied for transfusion during the year was 5,131.

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	11,412	1,07,047
2.	Occupational Therapy Department	9,208	84,776

A sheltered Workshop has been started in December 1969, for severely disabled patients including paraplegics and amputees. Tailoring, Mending of Hospital Linen, Embroidary work and chair caning work is done by the patients referred to this department. Each patient earns minimum Rs. 80 each month. In the month of January 1971 our patients participated in the Paraplegic meet at the Shivaji Park and in March our patients participated in the world day of Disabled sports at Brabourne Stadium and won many prizes.

Audiology & speech Therapy Department.

This department has been started from January 1970. During the year 1971, 1,149 patients have taken advantages of this department and the total number of visits were 2,676.

A sound proof audiometry room on a miniature scale and of a removeable type like cheap booths which can conveniently be shifted to any place is proposed to be constructed in the department. The unit when fitted is capable of being dismantled and conveniently refitted again at some other place. It will be very useful as the same will have to be shifted to a permanent place in the New Hospital when constructed. No material loss in the process will be involved.

The costly equipment secured is lying idle and a lot of patients are waiting for speech Audiometry and the Audiometry room will serve the purpose.

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	...	...	...	...	137
2. No. of Sterilization operations performed	...	...	...	...	469
3. No. of loops inserted	...	...	...	...	36

Contraceptives such as Jelly, Foam tubetests, Applicators, Diaphragm and Condom were also given.

School Clinic Department

School Clinic Department has started from 8th July 1965 at this hospital, 2,115 new and 10,115 old cases from 288 different Municipal Schools from the suburbs, 50 City School; 37 new and 164 old cases from 11 different Secondary Schools were treated during the year under report 63 tonsil operations and 3 other operations were performed on School children, Spectacles have been given to 78 students, Medicine worth Rs. 24,132.91 were supplied to the children during the year.

Medico Social Service Department

The work done by the Medico Social Service Department during the year 1971 is as follows:—

1. No. of cases given medical help	...	...	...	...	3,69,118
2. No. of T. B. cases handled for medical help and follow-up	...	...	...	...	769
3. No. of physically handicapped cases, illegitimate cases etc., for rehabilitation	...	...	...	...	824
4. No. of cases for spectacles donated by Lions Club of Sion	...	...	...	...	29
5. No. of cases given milk powder, wheat and high protein diet donated by Catholic Charities of India	...	...	...	...	32
6. No. of cases given old clothes	...	...	...	...	66
7. No. of voluntary donors motivated by Medical Social Worker	...	...	...	...	1,157

Physically handicapped patients participated in the world disabled day and fifteen prizes were won by them.

Preventive & Social Medicine Department

Undergraduate training.—Training extends from 1st M.B.B.S. IInd term to IIIrd M.B.B.S. IIIrd term, and Internship programme of 6 weeks at Rural Training Centre, Borivali.

Family Health & Welfare

We have adopted a portion (4000 population) of a slum-Rawli Camp, Sion Koliwada, where we have started Medical Check-up treatment of minor ailments, referral to specialists laboratory investigations & Socio economic, health & nutrition surveys. Students actively participate in this.

Seven students were trained in field work. Active participation in N. S. S.

Medico Legal Cases

During the year under report the Resident Medical Officers attended the following courts for giving evidences in Medico legal cases.

1. Presidency Magistrate's Courts in Bombay	...	...	...	...	...	...	817
2. Sessions Courts.	...	...	...	...	...	...	45
3. Coroner's Courts.	...	...	...	...	...	...	5
4. Thana Court	...	...	...	...	...	...	6
5. Bombay City Civil Court	...	...	...	...	...	...	1
6. Palghar Court	...	...	...	...	...	...	1
7. Shahapur Court	...	...	...	...	...	...	1
8. Alibag Court	...	...	...	...	...	...	1

- 2,407 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 Corporation has taken over the running of Flying Maternity Squad under C. R. No. 974, dated 11th October 1971.

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 84 calls.

Dispensary

The dispensary work carried out in the Dispensary of this hospital during the year under report is as follows:—

1. Out-patients	...	...	...	...	...	...	3,16,338
2. In-patients	...	...	...	...	...	...	867
3. Special prescriptions	...	...	...	...	...	...	644

Department of Pharmacy

Various types of parenteral fluids are being prepared in the Pharmacy department of this hospital. During the year under report 74,393 bottles (of 400 cc each) and 10240 vials (10 cc, 50 cc, 20 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 51 students nurses were admitted for training in General Nursing and 40 for Midwifery. 50 and 41 nurses were sent for General nursing and Midwifery examination out of which 43 and 40 have passed respectively.

Ambulance Service

The Casualty Department has been shifted in the College building from 21st September 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 31st March 1971 stood at Rs. 2,16,297.27, collection from Boxes, donations, sale of drugs and injections and other miscellaneous receipts during the year amounted to Rs. 1,79,277.10 and expenditure through the Poor Box Charity Fund was Rs. 1,08,003.52. The total amount in the Fund as on 31st March 1972 stood at Rs. 2,87,570.45.

The list of persons who have donated over Rs. 50 is given in Appendix VI.

Certificates

4,460 certificates of different types were issued to the patients during the year under report.

Special Facilities for Municipal Employees.

Separate counters have been provided at the Registration Department and the Dispensary, and Afternoon, O. P. D.'s are kept reserved from 4.00 p.m. to 5.00 p.m. for the Municipal Staff at this Hospital.

Gift Shop

A Gift Shop for the benefit of the patients has been started in the Dispensary of this Hospital, which 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. 42,419.18 were sold from the Gift Shop.

Expenditure

The approximate expenditure of the Hospital for the year 1971-72 was Rs. 1,05,23,320.00. 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	Miscell- aneous	Repairs to Bldgs.	Establi- shment	Total
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
1971-72	1.72	0.39	0.11	0.74	0.05	3.30	6.31

Expenditure per in-patient per Day

Year	Diet	Medicines Drugs Equipment	Stores & Linen	Heating & Lighting	Miscell- aneous	Repairs to Bldgs	Establi- shment	Total
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
1971-72	2.00	6.78	1.53	0.45	2.91	0.22	12.90	26.79

M. S. Kekre
Dean,
L. T. M. G. Hospital
Sion Bombay 22.

APPENDIX-I

RESULTS OF DIFFERENT EXAMINATION.

Year	Examination	Appeared	Passed	% of Passing	Stood First	Marks Secured
April-71.	Ist M.B.B.S.	18	17	94.44	Mr. Solanki R. D.	497
	IInd M.B.B.S.	43	35	81.39	Mr. Patkar V. D.	379
	IIIrd M.B.B.S.	48	40	83.33	Smt. Subramani V. G.	667
October -71.	Ist M.B.B.S.	57	50	87.72	Smt. Varma P. R.	580
	IInd M.B.B.S.	19	15	78.95	Mr. Biwalkar P. B.	368
	IIIrd M.B.B.S.	66	55	83.33	Smt. Subramaniam P.	625

APPENDIX-II

Prizes and Awards won by the students of our College during 1971-72.

- (1) Intercollegiate Mimicry Competition won by Dr. B. S. Palekar, Lions Club of Juhu rotating trophy awarded to L. T. M. M. College.
- (2) Second prize in "Sound Effects" to Dr. B. S. Palekar at the Intercollegiate Mimicry Competition organized by Lions Club of Juhu.
- (3) Second prize for "Mime" to Dr. B. S. Palekar at the Inter-collegiate Mimicry Competition organized by Lions Club of Juhu.
- (4) First prize for Indian Light Vocal Singing to Mr. Anand B. Kulkarni at the All India Inter-Medical Youth Festival held at Pondichery.
- (5) Certificate of Merit to Dr. J. N. Rana for Painting at the third All India Inter-Medical Youth Festival held at Pondichery.
- (6) Certificate of Merit to Miss. Nandini Hattangudi for Photography at the Third All India Inter-Medical Youth Festival held at Pondichery.

APPENDIX-III

List of Research Projects in pre and paraclinical Department.

- (1) **Work done in Pathology Department.**
 - i Continuation of work on "Effect of Indian herbs on liver injury in rats."
 - ii Study of tumours of urinary bladder.
- (2) **Paper read and sent for publication Pharmacology Department.**

"Clinical evaluation of MK 910 in hepatic amebiasis by Merchant, H.C., DSN, KBA, MPRRJ.
- (3) **Research problem undertaken in Anatomy Department.**
 - (i) Cytogenetics for abnormal cases-Dr. M. B. Kher, Dr. M. B. Indurkar and Dr. Mrs. U. V. Lokur.
 - (ii) Vaginal cytology in menstrual disorders and sterile females-Dr. Kher, Dr. Indurkar, Dr. Lokur and Dr. Ashar.
- (4) **Research work done and publications by Dr. M. V. Divekar Prof. of Medicine.**
 - (i) "Acute methanol poisoning"-Report of an out-break in Maharashtra.

Paper read before :- (a) Staff Clinical & Research Society L. T. M. G. Hospital, Sion, Dec. 15, 1971
(b) Association of Physicians of India Madras, January, 1972.

GUEST LECTURES DELIVERED.

- (i) Early clinical manifestations for Uremia. College of Physicians and Surgeons, Bombay-12.
- (ii) Renal Complications of Diabetes; Diabetic Association India, I. M. A. Building Bombay.
- (iii) Advances in Renal disease: Indian Medical Association-Bombay Western Suburban branch Vile-Parle.
- (iv) Symposium "Full life despite Diabetes" participation on the occasion of Diabetic Association of India, 20th April 1972.

PUBLICATIONS.

Papers of 1 & 1,2 gone for printing to Association of Physicians and Bombay Hospital Journal.

APPENDIX IV.

DISTRIBUTION OF BEDS ACCORDING TO DEPARTMENT.

Department.	Male	Female	Children	Total.
(A) Non Paying Beds :—				
Medical.	63	50	...	113
Surgical.	56	26	9	91
Orthopaedic.	15	5	3	23
Gynaec & Obstetric.	...	90	...	90
Ear, Nose & 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 & 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 V.

SUMMARY OF IN PATIENTS, OUT PATIENTS AND OPERATIONS.

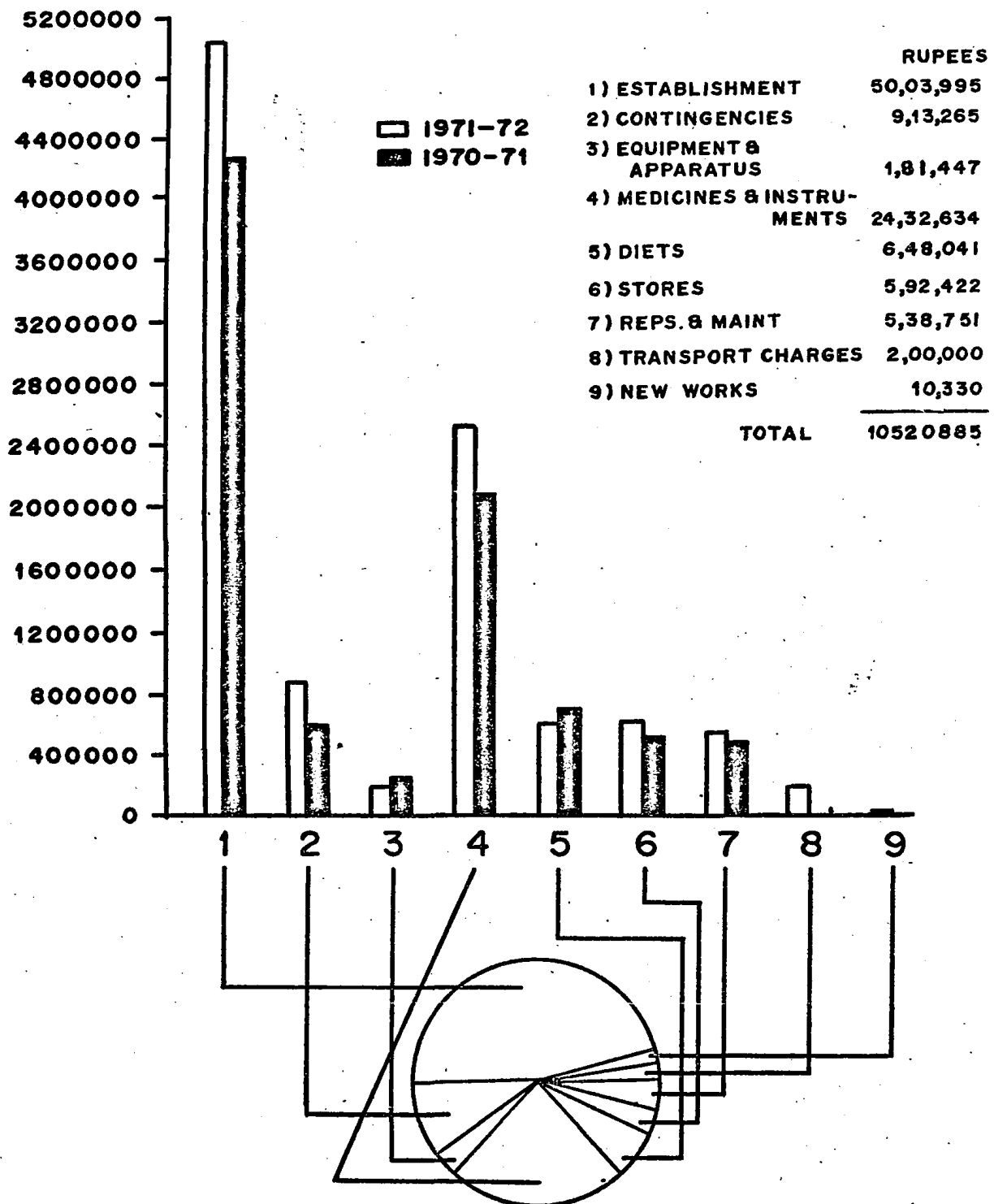
(A) In patients :—				
(1) Schedule Strength of Beds.	...	...	...	507
(2) Daily average No. of In-patients.	...	...	...	890.4
(3) Total No. of Indoor Admissions.	...	...	...	44,656.
(4) Daily average No. of Admissions.	...	...	...	122.3
(5) Highest Indoor patient on a single day.	...	...	...	1,016
(6) Average No. of days each patient was resident.	...	...	...	7.2
(B) Out patients :—				
(1) Total No. of O. P. D. patients (New).	...	...	...	2,53,010.
(2) Daily average No. of O. P. D. patients.	...	...	...	835.
(3) Highest O. P. D. attendance on a single day.	...	...	...	945.
(C) Operations :—				
(1) Total No. of operations performed on In-patients.	...	...	...	13,619.
(2) Total No. of Operations performed on Out-patients.	...	...	...	16,461.

APPENDIX VI.

List of Persons who have donated more than Rs. 5). during the year 1971-72.

Srial No.	Name of the Donor.	Amount.
(1)	G. R. Srinivasan.	51.00
(2)	Welfare Chairman, The American Club of Bombay.	700.00
(3)	H. mala Bhat.	51.00
(4)	V. R. Panjabi.	105.00
(5)	Dr. Balani.	101.00
(6)	Jain Murtipujak Sangh.	500.00
(7)	Cosmopolitan Ladies Association.	51.00
(8)	Anzani H. Jambawiker.	151.00
(9)	Zandu Pharmaceuticals work Ltd.	101.00
(10)	Viswender Panjabi in memory of Smt. Poojabai Viswender.	105.00
(11)	S. R. Karve.	101.00
(12)	Shankarlal Walji Rajgore.	525.00
(13)	Gunwantabai Zaverchand.	51.00
(14)	Jainmurtipujak Sangh.	500.00
(15)	M. Ang. Nilhu.	116.00
(16)	Dachani and Badhani.	70.00
(17)	M. Harraram and Bros. Diakarta.	100.00
	Total	3379.00

ALLOCATION OF GRANTS FOR THE YEAR 1971-72



YEAR	O. P. D. PATIENTS	IN PATIENTS	OPERATIONS	DELIVERIES
1970	231513	44755	27556	5803
1971	253010	44656	30080	4958

te:- The amount of expenditure of Rs.1,389/- incurred on Gymkhana and Rs.1,046/- incurred from Lump Sum Provision to defraying expenditure being very small amounts as compared to other amounts of expenditure, have not been shown in the above diagram. The total expenditure including these amounts comes to Rs.1,05,23,320/-.

GROUP OF T. B. HOSPITALS, SEWRI

Administration Report for the year 1971-72.

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 throughout the year.

The total number of beds for Pulmonary Tuberculosis cases at the disposal of the Bombay Municipal Corporation (Tuberculosis Services) was 1418 as detailed below :-

Name of the Institution	Male	Female	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. (Hired)	325	175	...	500
TOTAL	852	531	35	1418

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 9674.

The total number of patients in the various stages of Pulmonary Tuberculosis treated during the year was 6801, out of these 5566 discharged as improved 62 discharged as Non-Tuberculosis cases, 567 left against Medical advice, 606 died and 742 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 544 cases.

Follow up of Discharged Cases

The total number of patients who attended the Group of T. B. Hospitals for Follow up Examination after discharged from the hospitals was 2845 during the year.

Refill Work

27 Pneumo-Peritoneum Refills were given in the wards to the indoor patients of Group of T. B. Hospitals. Discharged patients on pneumo-peritoneum Refills treatment continued subsequent pneumo-peritoneum Refills at the Group of T. B. Hospitals. 162 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 post-graduate D.P.H. students of Bombay University as in previous years.

Group of T. B. Hospitals and the Four T. B. Clinics continued to be recognised for diploma course in Tuberculosis i.e. T.D.D. by the college of Physicians and Surgeons, Bombay as well as for the degree course i.e. M.D.(Tuberculosis and chest diseases) by the University of Bombay.

Research Work

The following Research work is undertaken at G. T. B. Hospitals.

- (1) Efficacy and Toxicity of Thiacetazone 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.

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 593, of these 486 were discharged as improved, 230 as not improved 78 left against medical advice 99 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 the 2nd June 1970 for conducting domiciliary treatment scheme for T. B. patients covering areas around this clinic. Work done is as follows :—

Total No. of Patients Attended under this Scheme.	Total No. of T.B. Cases under this Scheme	Non. T.B. Cases under this Scheme.
196	144	52

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 Sarvodaya Hospital, Chhatkopar (on Municipal Beds). Health visiting is also performed through the T. B. Clinics. The total number of health visits during the year was 8496.

Total number of out-patients attended and treated at the T. B. Clinics during the year was as below :—

Serial No.	Name of the Clinic.	Total No. of Pts. attended.	T. B. Cases.	Non.T.B. Cases.
1	R. D. T. B. Clinic Dadar	12122	6640	5482
2	Princess St. T. B. Clinic.	18368	2847	15521
3	Foras Road T. B. Clinic	8694	2814	5880
4	Khar T. B. Clinic.	16839	4827	12012
		56023	17128	38895

EXPENDITURE

The average expenditure per patient per day at the G. T. B. Hospitals was Rs. 18.74. The expenditure on diet per patient per day was Rs. 3.90. The total annual expenditure on the Group of T. B. Hospitals amounted to Rs. 49,19,069 as against Rs. 59,98,694 during the previous year.

The rate of charges for the patient hospitalized at Sarvodaya Hospital, Chhatkopar, on behalf of the Bombay Municipal Corporation was Rs. 10.00 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. 15,88,586 as against Rs. 15,51,570 for the previous year. The total expenditure on the four T. B. Clinics attached to the Group of T. B. Hospitals, Sewri, was Rs. 10,11,495/-. Thus the total expenditure incurred by the Corporation on Tuberculosis Services was Rs. 75,19,150

Poor Box collection including fees for issue of Medical certificates was Rs. 9884.91. 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 rendered legal services as under :-

I.—Supreme Court—		
Appeals		73
II.—High Court—		
1) First Appeals		307
2) Second Appeals		Nil.
3) Appeals from Orders		295
4) Letters patent Appeals		192
5) Civil Revision Applications		11
6) Special civil Applications		Nil.
7) Civil Applications		213
8) Long cause Suits		64
9) Appeals before Division Bench		31
10) Insolvency Matters		
11) Company Petitions		106
12) Writ Petitions		262
13) Criminal Revision Applications & Criminal Appeals		136
14) Notice of Motion		41
15) Land Acquisition References		5
II-A—New Delhi High Court Writ Petition		1
II-B—Alahabad High Court		
Insolvency Matters		1
II-C—Jodhpur High Court		
Insolvency Matters		1
III—City Civil Court—		
1. Suits :-		
(a) Suits filed by the Corporation		6
(b) Suits filed against the Corporation		1807
2. Miscellaneous Appeals		89
IV—Small Causes Court		
1. Suits		184
2. Appeals against Rateable value		1063
3. Carrishi Notices		6
4. References under section 503 of Bombay Municipal Corporation Act.		474
5. Licence and Octroi Appeals, set Back Compensation Petitions.		289
6. Appeals from orders of payment of wages Court.		Nil.
7. Full Court Applications.		42
V.—Police Courts.		
1. Complaints instituted for offences against Municipal Laws		42275
VI—Labour and Industrial Courts.		
1. References before industrial Tribunals		4
2. Applications before payment of wages Courts		103
3. Applications before labour Courts.		28
4. Applications before Motor Accidents claims Tribunal.		32
5. Cases before Arbitrators		Nil.
6. Applications before the workmen's Compensation Courts.		6
7. Complaints under Sec. 33 of Industrial Disputes Act.		Nil.
VII.—Municipal Inquiry Courts Under Sec. 105-B of the Bombay Municipal Corporation Act—		
Cases during the year 1971-72		6066
VIII—Documents Completed During the Year.		
1. Conveyances		10
2. Leases		171
3. Certificate of Sales		33
4. Deeds of Transfers		3
5. Deeds of Licence		30
6. Agreements		105
7. Indemnity Bonds		50
8. Cases for compensation for set-back land		404
9. Cases for compensation in T. P. Scheme		60
10. Advice matters in respect of stamp Duty, Town Planning, Set-back, P. F. Claims etc.		915
11. Agreements for handing over Possession		15
12. Indenture of Mortgage (Municipal Housing Societies).		3
IX.—References Received From Department or Outside Parties.		27533

K. S. KADAM
Ward officer (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 1971-72.

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 1971				As on 31st March 1972			
	City	Suburbs	Extended Suburbs	Total	City	Suburbs	Extended Suburbs	Total
Schools	490	316	128	934	493	330	133	956
Classes	46	45	23	114	47	38	20	105
Total	536	361	151	1,048	540	368	153	1,061

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	1	...	...	1
Number of schools opened	4	7	4	15
Number of classes converted into schools	1	2	13	16
Number of schools converted into classes	...	...	...	...
Number of schools/classes amalgamated	3	1	1	5
Number of classes closed	...	2	...	2
Number of classes taken over	...	...	1	1
Number of schools taken over	...	...	...	...

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 standard opened during the year under report is as under:—

Higher standard classes opened	No. of classes opened
Standard V	17
Standard VI	20
Standard VII	13

The total number of upper primary (including Vocational) and Lower Primary Schools and classes was 658 and 403 respectively as against 644 and 404 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 5,28,802 as against 5,03,047 in the previous year (Vide Appendix I). Thus, there was a net increase of 25,755 pupils in Municipal Schools and classes. The average attendance throughout the year was 4,80,595 as against 4,60,491 in the preceding year.

Teachers in Municipal Schools.

The total number of teachers in Municipal Schools during the last year was 14,525 out of which 669 were special teachers. The number stood at 14,989 (Special Teachers 723) during the year under report. Out of 14,266 ordinary teachers 14,094 (i.e. 98.8 per cent) were trained as against 13,639 out of 13,856 (i.e. 98.4 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 1970-71. 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 1971 as per rules.

Written examination of the pupils of standards I to VII was held in the months of March and April 1972, supervised by a Central Examination Board which included Superintendent, Assistant Research Officers, Inspectors, Instructors and Teachers.

The following factors, *inter alia*, hampered the progress of 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 1,061 schools and classes, about 701 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 the funds.

The curriculum for standards I to VII as revised by the Government is being followed in municipal schools.

As required under provision to Section 62 BB of the Bombay Municipal Corporation Act and the City of Bombay Primary Education (Amendment) Act 1950, text books prescribed by the state Government were used during the year under report.

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

During the year under report, there were 77 trainees for D.Ed. Course of 2 years. The teaching staff included (1) One Head Mistress (2) three full time instructresses (3) three part time instructors for teaching Science, Mathematics and Physical Education, (4) three part-time teachers for teaching special subjects like Drawing, Music and Sewing.

Out of the 78 trainees sent up for the First Year D.Ed. Examination held in April 1971, 74 trainees passed the examination. Thus the result of successful trainees was 95 per cent.

77 trainees were sent up for the second year D. Ed. Examination held in April 1972.

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.

37 students appeared at the D.Ed. First Year Examination of April 1971 out of whom 31 passed. Six candidates appeared at the supplementary examination of October 1971 out of whom 4 passed.

There were 36 students on roll in D.Ed. 2nd year in 1971-72. 34 candidates appeared at the D. Ed. 2nd Year Examination of April 1972.

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, Free-ships 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. 4,93,647.

Three new school buildings were added to the existing number of 215 during the year under report bringing the total number to 218 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 sixteen places are under construction and extensions in respect of certain school buildings are in progress. 612 schools (including classes) were accommodated in municipal owned school buildings, 419 schools (including classes) were accommodated in rented buildings and 30 schools (including classes) were housed in rent-free buildings.

II—Municipal Aided and Recognised Schools

Aided School

On 31st March 1972, the number of Aided Schools was 218 (119 in City, 60 in Suburbs and 39 in Extended Suburbs) as against 207 (119 in City, 55 in Suburbs and 33 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 61,633 to 67,893.

The average number of pupils on roll in Aided Schools during the year under report was 67,183 as against 62,122 in the previous year.

The average daily attendance was 64,646 (95.2 per cent) as against 55,744 (89.7 per cent) of the previous year.

The total number of teachers in Aided Schools as on 31st March 1972 was as under:—

	City	Suburbs	Extended Suburbs	Total
Ordinary Teachers	801	485	341	1,627
Special Teachers	106	116	31	253
Total	907	601	372	1,880

Out of 1,880 teachers, 1,542 were trained and 338 were untrained as against 1,856 teachers in the preceding year, out of whom 1,350 were trained and 506 were untrained. The percentage of trained teachers worked out to 77.9 per cent.

The year 1971-72 began with an introductory talk by Rev. Father Wallace, Professor of St. Xavier's College, Ahmedabad. He gave a purposeful talk to 250 teachers on "Teachers' role in Democracy" at Gilder Tank Hall on the 15th August 1971. The hall was fully packed in spite of the fact that it was a holiday and teachers heard him with rapt attention.

In order to make the work of the science teachers fairly simple and interesting, a workshop on teaching science for the teachers of Standards I to IV of private primary Gujarati medium schools was organised from 4th January 1972 to 14th January 1972 at Gilder Tank wherein 189 teachers participated. Dr. (Mrs.) Madhuri Shah, Education Officer, inaugurated it and explained the importance of experimental teaching of science.

The teachers of English medium private primary schools were given an opportunity of observing and doing experiments based on Revised Syllabus in Science from Standards I to IV from 17-1-1972 to 25-1-1972 at the same hall. Schools were requested to depute only one teacher from each school for two full days. A special mention must be made of Dr. Brookes and Dr. Wallace who taught teachers to teach through the method of observation and experimentation. About 300 teachers participated and experienced the thrill of experimenting personally.

Science workshop for the teachers of Standard I to IV from private primary Marathi, Hindi, Sindhi and Urdu schools from 1st February to 8th February 1972 at Gilder Tank building was arranged where in 153 teachers participated.

Dr. (Mrs.) Madhuri Shah, Education Officer, conducted New Mathematics course for teachers of Standards I to III from private primary English Schools on 21st, 22nd and 23rd of February 1972 at Library Hall, Gilder Tank.

Follow-up lectures for the benefit of the teachers were arranged on 30th March 1972.

Unaided and recognised Schools.

Besides Aided Schools there were 391 (203 in City, 131 in Suburbs and 57 in Extended Suburbs), Recognised schools as against 381 (203 in City, 122 in Suburbs and 56 in Extended Suburbs) in the previous year. The number of teachers in these schools was 3,979 as on 31st March 1972 as against 4,021 teachers as on 31st March 1971. The number of pupils increased during the year from 1,26,957 to 1,27,387.

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 paper study habits with the help of the following:—
 - (a) Functions of Memory.
 - (b) Powers of Imagination.
 - (c) How to think clearly and creatively.
 - (d) Power of Decision-making.

Educational Guidance is also given to students of Standard IX in our secondary schools in all Wards.

All the lectures were attended by a large number of teachers in different schools of all Wards.

II. Vocational Guidance in Secondary Schools is given to students of Standard X in 20 secondary schools in all Wards. Lectures on the following topics were attended by nearly 5,000 pupils.

- (i) How to choose a career.
- (ii) Technical careers.
- (iii) Medical career.

(iv) Careers of girls.

III. Career conference was held at Colaba Municipal School. It consisted of—

- (a) Lectures by eminent personalities.
- (b) Career Exhibition.
- (c) Display of Career Films.

IV.—Vocational Counsellor took active part in the Workshop on Programmed Learning and prepared programmes on "Bodies in Space."

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.*—350 teachers including 250 lady teachers attended the Refresher Classes organised on zonal basis in July and August 1971. 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 for 21 days in the month of January 1972. 83 teachers including 45 lady 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 95 per cent.

(3) *Annual Sports.*—Annual Sports were conducted at 128 centres. About 1,08,000 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, where prizes were distributed to winners.

(4) *Model Schools.*—About 30,000 pupils from more than 80 schools participated in the programme consisting of Mass P. T., March-Past, Lezim, Fancy Drills, Asanas, Pyramids, etc. The programmes were held at 16 centres.

(5) *Mass Drills.*—Mass Drills were organised at 5 centres. About 20,000 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 and Children's days.

(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) Pyramids/Stunts.
- (iv) Frolics.

(b) Games competitions were conducted in Kabaddi, Kho-Kho and Langadi for boys and Kho-Kho, Langadi and Dodge Ball for girls.

(8) *Educational Excursions.*—Educational Excursions were conducted from 8th November 1971 to 14th February 1972. About 67,571 pupils of standard III participated in it. These pupils were accompanied by 2,512 teachers. Participants were taken to places like Jijamata Udyan, Kamala Nehru Park, Taraporewal Aquarium, Gateway of India, Birla Kreedra Kendra, etc. They were provided with refreshment and transport by the Municipal Corporation.

(9) *Balbhavan Centres.*—In order to provide facilities for part-time activities after school hours, 29 Balbhavan Centres were conducted all over Greater Bombay. Each centre is provided with a trained Instructor, assisted by helper. Activities like games, crafts, drawing, dramatics, hobbies, folk dances, etc. were taught and encouraged at these centres. At the end of the year, competitions in different activities and exhibitions were organised at each centre followed by a final at a central place.

(10) During the year under report a new activity *viz.*, Road Safety Patrol Scheme has been introduced in 10 municipal primary schools. A Unit of one Instructor and 24 pupils looked after the Traffic and Safety of the pupils crossing the road, in the morning and evening. Uniform to these 25 persons was provided at the cost of the Corporation. The Instructor is paid Rs. 25 per month for this work.

(11) *Band Troops.*—This activity has been introduced in the year under report in 8 municipal primary schools. Three Instructors have been appointed to instruct pupils. It is found that the pupils are taking keen interest in this new activity.

V.—Scout and Guide movements.*Statistical information*

No. of Cub Masters	— 220	No. of Cubs	— 3,900
No. of Scout Masters	— 216	No. of Scouts	— 5,184
No. of Flock Leaders	— 153	No. of Bulbuls	— 2,754
No. of Guide Captains	— 167	No. of Guides	— 4,000

The following are some of the important activities conducted during the year under report :—

1. *Week-end Camps.*—Two week-end camps, for special training of 72 boys and girls for President's Scout/Guide badge and for 1st class Scout/Guide Rally were conducted during July and August 1971.
2. *Explanatory Training Camp.*—Nearly 256 Scout/Guide teachers attended this camp. This camp was conducted to create leadership and acquaint the teachers with the yearly programme of the Scout/Guide Section.
3. *11th President's Scout/Guide Rally.*—We trained 20 Scouts and 11 Guides for this Rally. Out of them only 8 Scouts and 8 Guides were sent to attend the Rally at New Delhi, rest of the pupils got the President's Certificate in Bombay only.
4. *Patrol Leader Training Camps.*—About 1800 scouts and Guides attended Patrol Leader Training Camp, which was conducted at the Aarey Milk Colony Camping ground. This year workshop was organised wherein Fret Work, Cardboard—Modelling etc. were taught. Emphasis was given on training in leadership.
5. *Cub/Bulbul Excursions.*—About 1800 cub/bulbuls were taken on a days' excursion at Aarey Colony Camping ground, during the year.
6. *Patrol Hikes.*—About 1040 scouts/guides participated in the programme during this year. The participants stayed over-night in the camp. Ten trails with a minimum distance of 15 K.M. were laid down for the hikers in advance. The participants thus got the training in map reading, compass reading, map drawing etc.
7. *First Class Scout/Guide Rally.*—A contingent of 72 Scouts/Guides Scouters/Guiders attended this rally, organised by the Maharashtra State Bharat Scouts and Guides at Aarey Milk Colony Camping Ground.
8. *Scout/Guide Week.*—This year the Scout/Guide Week was celebrated from 13th to 22nd November 1971. During this period activities like Camp Fire, Scout/Guide Rallies, Cub Bulbul Revel, Parents' Meetings, Khari Kamai etc., were organised. The total amount of Khari Kamai collected by our Scouts and Guides was about Rs. 14,294.26.
9. *Zonal Sports.*—Zonal Sports were organised this year as usual at 8 different centres all over the Greater Bombay. About 12,000 scouts, guides, cub, bulbuls took part in it. This was followed by finals at the Aarey Milk Colony.
10. *Scout/Guides Rally.*—This year 4 Scout/Guide Rallies and 4 Cub/Bulbul revels were organised. At each of these centres about 2,500 to 3,000 scouts, guides, cubs, bulbuls took part in different activities like march-past, folk dances, display in different Scout/Guide crafts. This was followed by a Central Rally at Kamgar Krida Bhavan on 2nd March 1972. About 9,000 Scouts, Guides, Cub, Bulbuls, Scouters and Guiders participated in it.

VI-A—Audio Visual Education

Ten Projectionists of this section arranged 1,795 film shows in various municipal primary schools all over Greater Bombay. These shows were witnessed by 4,41,247 pupils. Films on different educational subjects were projected for the benefit of the participants of Science and Mathematics Workshop and Refresher Classes.

VI-B—Teaching Aid Centres

In addition to the teaching aid centre at Gilder Tank Building, two more teaching aid centres were opened at Hindu Colony, Dadar and Unnat Nagar Municipal School Building, in the year 1971-72. About 10,000 teachers took advantage of these centres and prepared various teaching aids on different subjects. This year emphasis was given on training of teachers in Handicraft as per the new syllabus. The printing section of the Centre printed Science books for Standard II and captions in English, Marathi, Gujarati, Hindi, etc. In addition to this the centre prepared aids for the Science and Mathematics Workshop being conducted at Gilder Tank Building with the financial assistance from the National Council of 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 1971 was Rs. 93,80,496. 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	6,93,66,950	78,92,185	1,60,69,806	19,82,295

The total expenditure for the year amounted to Rs. 9,76,41,406. The closing balance as on 31st March 1972 (after taking into account increase in Renewed Grant) was Rs. 55,17,929.

VIII.—Research Unit (Education)

The Research Unit carried out the following studies during the year 1971-72:—

1. The Graded Assignments in Languages (Marathi and Gujarati) and Arithmetic for Standard II have been prepared and are ready for distribution. Preparation of Assignments for Standard III is in progress.
2. The work of analysis of the results of the Annual Examination held in 1970 of some sample primary schools from different Wards which has been undertaken to study overall performance of children in different school subjects of the curriculum of Standards I to VII is still in progress.
3. *The Problem*—“Identification of the Gifted Children from the municipal primary schools and preparation of the programme for such children” has been undertaken and the first phase data is under process.
4. In service Training Classes for teachers teaching Science and Mathematics to Standards I to VII had been organized and has given guidance and orientation to more than 600 teachers in Science and Mathematics.
5. Under “The Science and Mathematics Curriculum Improvement Programme” during the year. New Mathematics workshops for primary teachers were conducted, and guidance and orientation was given to more than 500 teachers from different Beats.
6. Preparation of the Enrichment Materials in Mathematics and languages is in progress.

IX.—Secondary Schools.

During the year under report, no new secondary schools were opened due to paucity of funds. The third batch of S. S. C. students from 27 schools appeared for S. S. C. Examination held in March 1972.

The number of Secondary Schools, divisions etc., is given below:—

	As on 31st March 1971	As on 31st March 1972
No. of schools	27	27
No. of Divisions	402	435
No. of Pupils	17,214	18,870
No. of Teaching Staff	610	650

X.—General

During the year under report 1,26,067 children from the Municipal Primary Schools and 15,137 children from Municipal Secondary Schools were medically examined and in 1,23,822 children defects were noticed.

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 and Borivali Hospital, full time dental clinic at Nair Hospital and Juhu Hospital. During the year 76,919 new and old cases were treated at the clinics. Suspected cases of Tuberculosis and Leprosy were referred to the special clinics for investigation and treatment and those who were found infectious were not allowed to attend schools.

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—2,54,428.

Diphtheria and tetanus—1st dose 59,995, 2nd dose 44,475.

B. C. G. (Tuberculosis)—60,077.

Small Pox 1,35,976.

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).

XI.—Municipal Teachers' Library

There are three Libraries for municipal teachers. The Central Library is located at Gilder Tank and the other two branch libraries are at Santacruz and Ghatkopar. The total number of books at the end of the year was 56,602 (30,510 at Central Library, 16,767 at Santacruz and 9,325 at Ghatkopar). This number is inclusive of books at children's Corner. The total number of periodicals and newspapers subscribed was 151 as against 142 in the previous year. The total number of books issued during the year from Central Library was 9,050, from Santacruz Library 9,325 and from Ghatkopar Library 2,936. 248 new members (114 at Central Library, 58 at Santacruz and 76 at Ghatkopar) were enrolled during the year under report.

All these Libraries have got Children's Corner attached to them. The number of books for children at Central Library, Santacruz Library and Ghatkopar Library are 7,000, 7,812 and 5,325 respectively.

XII.—Gratis use of school premises

The use of municipal school premises for conducting Social Education Classes, Hindi Classes, Night Schools, etc., under the auspices of Educational and School Welfare Institutions was continued to be allowed gratis or at nominal fees and leave and licence fees outside regular school hours on prescribed conditions and with the consent of the landlords of the premises in case of rented premises.

XIII.—Special Classes for Mentally retarded children

The Corporation has started Lions Juhu Centre for Mentally Retarded Children in collaboration with Gujarat Research Society and Lions Juhu. The school started functioning in the year 1965 with only 5 pupils on roll and the same has now increased to 75 this year.

The education is imparted through different media such as Marathi, Gujarati, English and Hindi by trained and experienced staff. Besides teaching of other subjects, the pupils are taught craft work and paper making work. The pupils are found taking more and more interest in the craft work for which special machinery is provided. Special type of furniture befitting the mentally retarded children is provided in the school.

Recently, arrangement is also made for development of gardening and such other recreational activities in the schools through which the pupils can develop their mental growth.

In addition to the Lions Juhu Centre School at Khar, special classes for mentally retarded children have been started on experimental basis at four places in different Wards from June 1971, as shown below:—

- (1) Mumbadevi Municipal School building 'C' Ward.
- (2) Nare Park Municipal School Building 'F/South' Ward.
- (3) Akurli Road Municipal School Building 'R' Ward.
- (4) Dhanji Devshi Municipal School Building 'N' Ward.

Those educable children whose mental growth is very slow and are not benefited from attending ordinary school are admitted in these special classes after psychological test. These pupils are given free education.

Special Training Courses in the subject "Mental Retardation and Teaching of Mentally Retarded Children" was conducted by the department and experts in the above subjects from various institutions were invited to deliver lectures on the above topics. The classes were conducted for three months where in nearly 30 teachers of different language sides were trained. The teacher trainees were also deputed to various schools for Mentally Retarded Children in Greater Bombay, for practical training and observation etc. The teacher trainees were given merit certificates on completion of the course. The lecturers were paid honorarium at the rate of Rs. 15 per lecture for the lectures delivered during three months.

Teaching aids specially meant for mentally retarded children are provided in these classes. The pupils are also medically tested regularly by psychologists.

The observations and experiences of the Special Classes during the year have revealed that there is quite satisfactory progress and there is enough scope for expansion of the activities thereby giving more and more benefit to such mentally retarded pupils who are not benefited from attending ordinary schools.

XIV.—Extra-curricular Activities

(a) Sharad Utsav (Autumn Festival)—8 centres of cultural programmes, 2 centres of exhibitions, 7 Division-wise competitions, 3 school hall programmes, 2 Central Functions and 1 Final Dramatics (b) School Anniversaries, Independence and Republic Days were celebrated in a number of schools where special invitations were given to the parents so as to bring them into close contact with schools. Parents and Teachers days were also celebrated in a number of municipal schools. (c) Vacation Coaching Classes at 25 centres were conducted for the children of Standards III, IV and V who were detained at the annual examination held in 1971. The children were subsequently promoted to the next higher standards after successful completion of the course. (d) Educational Seminars were organised in which municipal teachers of all Beats took part. (e) Vacation Libraries were conducted at 47 centres for the benefit of the children.

XV.—School Feeding Programme

Under this programme, all 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. Due to some technical difficulties of Government Dairies to meet our full requirements of three lakh bottles per day, the schools 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 did not get the benefit of free supply of milk as the milk vans did 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 protein manufactured by the Britannia Biscuit Co. Ltd., on every alternate school working day. Besides, nearly 1,00,000 children were catered with peanuts (groundnuts) each boy getting 20 gms. of baked and salted peanuts. Under Buns Programme, the beneficiaries were about 1,00,000 children per day. Each child was supplied with a sweet bun of 50 gms. each manufactured by the Modern Bakeries (India) Ltd.

MADHURI R. SHAH,
Education Officer.

APPENDIX No.1

Municipal Schools and Pupils

Language	As on 31st March 1971			As on 31st March 1972		
	Schools	Classes	Pupils	Schools	Classes	Pupils
CITY						
Marathi	228	2	1,65,583	228	3	1,68,791
Gujarati	70	11	25,672	71	9	24,845
Urdu	95	8	35,393	93	10	36,310
Hindi	48	4	16,747	49	4	17,893
Tamil	7	8	2,580	10	6	2,960
Telugu	10	3	4,012	11	3	4,293
Kannad	13	9	3,160	12	10	3,176
English Primary	17	1	6,551	17	2	6,775
Sindhi	2	...	324	2	...	296
Total ...	490	46	2,60,027	493	47	2,65,429
SUBURBS						
Marathi	124	...	99,802	129	1	1,08,287
Gujarati	45	11	21,014	46	9	21,759
Urdu	67	2	23,604	68	2	25,430
Hindi	43	10	17,792	49	6	19,580
Tamil	8	5	2,048	8	5	2,304
Malayalam	1	3	308	1	3	312
Telugu	3	5	704	3	4	773
Kannad	15	5	4,922	15	5	5,429
Eng. Primary	7	2	1,613	8	1	1,940
Sindhi	3	2	1,542	3	2	1,468
Total ...	316	45	1,73,349	330	33	1,87,282
EXTENDED SUBURBS						
Marathi	53	2	37,049	55	3	40,878
Gujarati	28	2	18,295	28	2	18,952
Urdu	14	3	3,057	15	2	3,469
Hindi	21	4	7,742	21	3	8,676
Tamil	4	5	1,034	5	4	1,113
Telugu	1	1	220	1	1	231
Kannad	2	4	1,103	2	4	1,525
English Primary	2	1	471	3	...	590
Sindhi	3	1	695	3	1	657
Total ...	128	23	69,671	133	20	76,091
Grand Total ...	934	114	5,03,017	956	105	5,28,802

APPENDIX No. II

Statement showing the number of Trained and Untrained Teachers in Municipal Schools according to Sides

Side	As on 31st March 1971			As on 31st March 1972		
	Trained	Untrained	Total	Trained	Untrained	Total
CITY						
Marathi	4,783	38	4,821	4,861	16	4,877
Gujarati	834	3	837	777	5	782
Urdu	1,017	30	1,047	1,058	22	1,080
Hindi	483	2	485	518	4	522
Tamil	68	6	74	79	7	86
Telugu	103	18	121	98	20	118
Kannad	90	3	93	94	2	96
English Primary	142	34	176	177	22	199
Sindhi	11	2	13	11	2	13
Total	7,536	135	7,672	7,673	100	7,773
SUBURBS						
Marathi	2,707	13	2,720	2,847	12	2,865
Gujarati	605	7	612	643	4	647
Urdu	632	28	660	660	22	682
Hindi	497	3	500	523	5	528
Tamil	55	4	59	59	3	62
Malayalam	10	...	10	10	...	10
Telugu	18	...	18	18	...	18
Kannad	139	1	140	157	1	158
English Primary	43	3	46	50	2	52
Sindhi	45	3	48	45	4	49
Total	4,754	62	4,816	5,012	53	5,065
EXTENDED SUBURBS						
Marathi	1,059	4	1,073	1,140	6	1,146
Gujarati	542	1	543	544	1	545
Urdu	87	3	90	95	3	98
Hindi	214	7	221	237	4	241
Tamil	29	...	29	28	1	29
Telugu	6	1	7	8	...	8
Kannad	34	1	35	41	1	42
English Primary	11	2	13	15	3	18
Sindhi	26	...	26	24	...	24
Total	2,018	19	2,037	2,132	19	2,151
Grand Total	14,308	217	14,525	14,817	172	14,989

APPENDIX No. III

Municipal Recognised and Aided Schools and Pupils.

Language	Recognised Schools as on 31-3-1971		Recognised Schools as on 31-3-1972		Aided Schools as on 31-3-1971		Aided Schools as on 31-3-1972	
	No. of Schools	Pupils	No. of Schools	Pupils	No. of Schools	Pupils	No. of Schools	Pupils
City								
Marathi	23	8,825	26	9,897	25	5,905	24	5,828
Gujarati	57	9,602	55	9,500	31	6,873	30	7,093
Urdu	3	1,421	3	1,009	6	1,822	6	1,802
Hindi	...	...	...	...	12	3,265	11	3,218
Sindhi	1	27	...	...	4	553	4	408
Tamil	2	270	1	108	3	846	4	1,064
Telugu	...	...	...	...	1	120	1	119
Malayalam	1	78	...	...	2	457	3	511
Kannad	...	...	...	...	2	466	1	404
English	106	42,037	110	40,196	23	6,123	25	6,648
Bengali	...	...	...	...	1	196	...	...
Miscellaneous	...	...	...	...	...	...	...	...
Iranian	1	34	...	...	...	...	...	...
Marathi Night	...	...	...	...	1	142	1	141
Kannad Night	1	80	1	74	6	452	6	460
English Night	8	1,096	7	992	2	240	3	284
Total	203	63,530	203	61,806	119	27,460	119	27,980
Suburbs.								
Marathi	22	5,416	24	5,603	13	5,003	16	6,489
Gujarati	21	4,553	20	4,502	12	5,665	14	6,845
Urdu	...	...	...	...	1	244	1	306
Hindi	2	164	3	203	10	2,572	9	2,758
Sindhi	...	...	...	...	3	360	3	243
Tamil	...	...	...	...	2	542	2	563
Malayalam	...	...	...	...	2	612	2	615
English	76	35,754	83	38,273	11	3,405	12	4,241
English Night	1	72	1	51	1	350	1	254
Total	122	45,965	131	48,632	55	18,754	60	22,344
Extended Suburbs								
Marathi	5	1,167	5	1,200	9	3,213	10	3,601
Gujarati	22	5,396	19	4,715	14	9,181	18	10,649
Hindi	2	367	2	333	6	1,711	6	1,811
Tamil	1	270	1	233	...	...	...	...
Malayalam	1	145	1	131	...	...	...	...
Kannad	1	177	1	217	...	...	...	...
English	24	9,940	28	10,120	4	1,314	5	1,508
Total	56	17,462	57	16,949	33	15,419	39	17,569
Grand Total	381	1,26,957	391	1,27,337	207	61,633	218	67,893

APPENDIX No. IV

Information re: Physical Education in Municipal Schools

Total number of schools and classes	1,061
Number of schools imparting physical education on playgrounds	189
Number of schools imparting physical education in open spaces	585
Number of schools imparting physical education in class-rooms	286
Total number of pupils	5,28,802
Total number of pupils taking physical education	All
Total number of trained teachers in physical education	1,365
Special Teachers in Physical Education	188
Total number of untrained teachers in physical Education	13,452

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 31-3-1970 (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
City, Subs. & Ext. Subs. :	
According to the number of pupils on roll as on 31-3-1972 (5,28,802)	184.65

LABOUR DEPARTMENT

Administration Report of the Labour Department for the year 1971-72.

The Labour Officer dealt with 17,683 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

Serial No.	Name of the Union.	Date of Establishment	Date of Registration	Registered Number	Membership as on	
					31-12-1969	31-12-1970
1	2	3	4	5	6	7
1	Municipal Worker's Union ...	27-2-1935	29-3-1935	90	2,360	2,020
2	Bombay Sweepers' Union ...	30-7-1946	7-9-1951	1,118	2,292	2,091
3	Bombay Municipal Subordinate Staff Union ...	2-8-1946	30-1-1948	483	4,078	3,252
4	Municipal M zdoor Union ...	...	3-7-1956	2,100	15,397	15,552
5	Bombay Municipal Engineers' Union ...	...	30-10-1956	3,281	477	483
6	Bombay Municipal Kamgar Sangh ...	1-4-1933	28-6-1962	4,212	3,404	3,256
7	The Administrative Officers' Association (B. M. C.) ...	...	6-6-1967	6,008	88	88
8	Bombay Municipal Executive Staff Union ...	21-6-1955	21-5-1966	1,806	2,176	2,280
9	The Greater Bombay Nurses' Association ...	...	...	3,780	Information not available.	495
10	Bombay Municipal Health Visitors Association ...	28-8-1950	18-1-1951	1,001	95	95
11	Maharashtra State Nurses' Welfare Association ...	...	...	4,638	I. N. A.	397
12	Mahamumbai Nagarpalika Prathamik Shikshak Sangh ...	4-4-1906	20-12-1954	1,674	...	6,567
13	Brihanmumbai Nagarpalika Special Shishak Sangh ...	1959	1960	3,593	I. N. A.	134
14	Bombay Municipal Urdu Teachers' Association ...	1926	28-4-1953	1,359	245	243
15	Municipal Qualified Overseers' Union ...	...	...	4,977	...	64
16	Bombay Fire Service Union ...	16-4-1946	13-1-1948	479	141	474
17	Bombay Fire Fighters Services Union ...	13-7-1967	13-7-1967	6,019	474	105
18	Mahamumbai Municipal Marathi Prathamik Shikshak Sangh ...	...	...	...	...	...
19	Association of Inspectors (School) ...	7-7-1970	...	...	...	...
20	The Municipal Secondary Teachers' Association ...	2-1-1967	...	...	...	...
21	Municipal Head and Dy. Head Teachers Association ...	...	...	...	...	...
22	Bhartiya Kamgar Sena ...	...	...	6,142	I. N. A.	...
23	Bombay Municipal Medico-Technical Staff Association ...	...	...	6,455	...	300

Industrial Relations—There was no occasion on which the provisions of the Bombay Municipal Servants Act, 1890 had to be brought into effect. The Municipal Medico-Technical Staff Association was granted recognition during the period under report. The Maharashtra State Nurses Welfare Association was granted recognition to represent the Nursing Staff of B. Y. L. Nair Hospital and the Municipal Workers Union was granted recognition to represent the labour staff of W. O. 'M' Ward and A. E. (M) (Sub.) W. W. during the year under report.

One application under Section 33(2)(b) of I. D. Act 1947 was submitted to Shri G. K. Patankar, the Industrial Tribunal by the Administration for approval to the action of dismissal or removal proposed by it against the delinquent employee and was heard by the respective authority and approval order in that respect was received from them during the year under report.

Labour Management Co-operation.—With a view to promote cordial relations between the employees and the Administration the following steps were continued :—

(i) **Joint Council.**—The total number of Joint Councils constituted by the end of the year under report were 22.

(ii) **Grievance Procedure.**—A four stage grievance procedure is continued to redress the grievances of the employees in all Municipal Departments. The grievance committee consists 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 Union were of various nature. The following table gives the number and the nature of the grievances received and dealt with by the Labour Officer.

TABLE II

Serial No.	Nature of cases.	Total		Grievances redressed.		Not genuine		Pending cases	
		City.	Suburbs.	City.	Suburbs.	City.	Suburbs.	City.	Suburbs.
1	Recruitment and Retrenchment, etc. ...	1,093	950	951	941	128	9	14	Nil.
2	Promotion, Transfers, Confirmations, and Annual Increments ...	523	300	427	295	89	3	7	2
3	Fines, Reversions, Suspensions, Dismissals and other punishments ...	341	30	246	26	90	4	5	Nil.
4	Delay in payment of wages (Wages leave) and allowances ...	322	222	278	215	40	5	4	2
5	Delay in settlement of Provident Fund and other retirement benefits ...	150	188	104	183	38	4	8	1
6	Non-supply of equipments and Uniforms ...	140	45	99	42	35	3	6	Nil.
7	Delay in sanctioning leave due ...	234	55	188	54	42	1	4	Nil.
8	House Rent, Accommodation and transfer of Quarters ...	634	98	619	77	12	20	3	1
9	Miscellaneous ...	1,399	560	1,342	507	50	45	7	8
10	Departmental references, etc.,	9,412	987	9,412	987	...	Nil.	...	Nil.
	Total ...	14,248	3,435	13,666	3,327	524	94	58	14

The Scholarship to the children of Municipal Employees.—During the year, 512 applications for scholarships were received and 186 scholarships were granted to applicants for higher education and 293 for secondary education. The total amount given by way of scholarships to the Municipal Employees was Rs. 45,480.

Medical Assistance Scheme to the Municipal Employees.—261 employees applied for medical assistance under the above scheme. 224 employees were given aid amounting to Rs. 21,520

Daily Attendance.—The average daily attendance of the adults and children at the different Welfare Centres during the year was 2,515 Adults and 2,640 Children as against 2,400 adults and 2,580 Children in the previous year.

Opening of New Centres.—One new Welfare Centre was opened at Annesley Road Municipal Chawls during the year.

Film shows.—Documentary films and full length films of educative and social importance were shown daily at the different Welfare Centres during the year.

Milk Scheme.—Milk is distributed to the children of the Municipal employees. The milk powder is donated by the Catholic Relief Services.

Picnics—One day picnics were organised for the children of the Centres at the places of interest around Bombay.

Excursion for Nursing Staff.—Excursion for the Nursing Staff was organised in the month of February 1972 to Delhi, Nainital, Mathura and Agra. 47 Nurses of the different Hospitals and Maternity Homes participated in the excursion.

Inter Centre Tournaments.—Inter-Centre Volley Ball and Kabaddi Tournaments were held at K. E. M. Hospital grounds in January—February 1972. Prizes were given to the winners and runners at the hands of Shri L. S. Mantri, Chairman, L. R. and G. P. Committee.

Inter Centre Dramatic Competitions—Inter Centre Dramatic Competitions were held at the Birla Kreed Kendra in November 1971. Shri Ramakant P. Patil, Chairman, Standing Committee, presided over the function and distributed the prizes to the Best Actor, Best Actress, Best Directors. Trophies were given to the first three dramas. 17 Welfare Centres participated in the competition. 5 entries were selected for the final competition.

Inter Ward and Inter Departmental Dramatic Competitions.—Inter Ward and Inter Departmental Competitions were also held for the first time from the year under report at Birla Kreedha Kendra from 12th January 1972 to 26th February 1972. 14 departments participated in the competitions. The first winning entry was given a running trophy. Three prizes of Rs. 101 each were given for the best Director, Actor and Actress and 25 consolation prizes of Rs. 51 each were given to the best actor and actress in each entry. Dr. M. N. Desai, Municipal Commissioner, presided over the function, and Mrs. Sumantaj Desai distributed the prizes.

Inter Centre Folk Dance Competition.—This competition was held in the month of October 1971. 23 items in Folk Dance, Ras and Garba were presented on the occasion by the Centres. Smt. Indumati T. Patel, Chairman, Education Committee presided over the function and distributed the prizes.

Inter Centre Activities.—Various Inter Centre activities viz., Best Physique Competition, Rangoli Competition, Table-Tennis and Carrom Tournaments, Fancy Dress and Singing Competition were organised during the year.

Different Functions.—Combined Ganpati festival, were organised during the year under report. Cultural items, competitions etc., were held during the festivals and prizes were distributed to the participants taking part in the programmes. Haldi Kumkum functions were held at 22 Welfare Centres. Buddha Jayanti functions were held at 7 Welfare Centres.

Band Activities.—Scout Band is organised at G. T. B. Hospital Centre and the Brass Band is organised at Umerkhadi Welfare Centre.

Nurseries.—Two nurseries are conducted at Bapty Road and Palton Road Welfare Centres. Nearly 80 children of municipal employees take advantage of the Nursery Schools.

Other Activities.—Fabrication of Petty Coats and preparation of the Arm Bands was carried out through the participants of the Welfare Centres and supplied to the various municipal departments. Files were prepared and supplied to the Municipal Printing Press.

Scouting and Guiding.—The total strength of the Scouts and Guides Section was 4,522 in the year. The organisation gave the following services during the year under report.

(1) They carried out Traffic duties and assisted in maintaining law and order at the time of several celebrations, Urus, etc.

(2) The Scouts, Guides, Scouters and Guiders participated in several Scout Activities in the City and the Scout Guides week, Camp Fires of the West Bombay Bharat Scouts and Guides.

(3) Our Scouts took part in the Wedge Wood Cup Competition, Petrol Leader Training Camp, First Class Training Camp, Tyrell Hike Competition organised by the West Bombay District Association.

(4) Our guides took part in the Sports, Dramatic Competition, Elocution Competition organised by the West Bombay District Association.

Training Course.—First Class Training Course was organised for the Scouts and Guides respectively at the K. E. M. Hospital Centre.

Training Camps.—6 Training Camps for the Scouts and 5 Training Camps for the Guides were organised at the Powai Scout Camp for the different Welfare Centres during the year.

G. S. SAUDACAR,
Labour Officer.

APPENDIX 'A'

Serial No.	Name of the Union	Department concerned	Categories attached	Referred to	Nature of Disputes
1	Municipal Mazdoor Union...	H. E.	... Foreman ...	Conciliation Officer.	Dispute regarding the strike Notice given by the Municipal Mazdoor Union Re : Appointment of Foreman at Pogaon & Mohane Pumping Station.
2	Municipal Workers' Union	H. E.	... Foreman ...	Do.	Do.
3	Municipal Workers' Union	C. E.	... Shift Engineer ...	Asstt. Commissioner of Labour.	Strike Notice Re : Promotion of Workmen according to seniority of the post of Shift Engineer.
4	Bombay Municipal Executive Staff Union.	Conservancy Branch.	Depot Attendance	Do.	Demand on behalf of the Depot Attendants of Conservancy Branch.
5	Bombay Municipal Executive Staff Union.	A. & C.	Asstt. Suptd.	Do.	Demand of Special Pay of Rs. 100 per month with effect from 20-5-1970 to Assistant Superintendent of A. & C. Department.
6	Do.	H. S. Cons. (Sub.)	Asstt. Mukadam	Govt. Labour Officer.	Change in date of birth of Shri Lalk Shiwa.
7	Municipal Workers' Union	C. E.	... Electrician ...	Asstt. Commissioner of Labour.	Strike Notice Re : Promotion according to seniority to Electrician.
8	Maharashtra State Nurses Welfare Association.	K. E. M. and Nair Hospital.	Nursing Staff ...	Do.	Demand of Nursing Staff regarding increase in P. F. etc.
9	Shri Shetty		H. C.	High Court Judge	Representations re : 25 per cent H. C. posts for non-qualified candidates.

PUBLIC RELATIONS DEPARTMENT

Shri N. A. Mistri, M.A., D.J., Dip. S. W., Public Relations Officer, was on earned leave from 1st April 1971 to 20th April 1971 and retired due to superannuation from 23rd April 1971. During the leave period of Shri N. A. Mistri and after his retirement due to superannuation from 23rd April 1971, Shri K. T. Pandit, M.A. was in charge of the post of Public Relations Officer during 1971-72.

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 1972" containing useful information on civic affairs was brought out in English, Marathi and Gujarathi. In addition, two other publications viz. "Know Your Ward" and "Civic Guide" were also published in English and Marathi. List of Municipal Councillors and Officers was brought out during the year, in English and Marathi. A new five colour poster on sanitation was produced in three languages for the 'Clean Bombay' Campaign.

Press Room equipped with lockers etc. 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, photographs etc. 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. For the 10th Conference of All India Council of Mayors and the 8th Conference of Municipal Corporations in India which was held in Bombay, this department was entrusted with the work of organisation and making arrangements etc. for the delegates.

Necessary Co-operation was also extended for the activities, campaigns etc. carried out by the Citizens Committee for Clean Bombay Campaign.

The work of collecting donations for the National Flag Day was also carried out. In addition to providing information to various civic bodies in India and to other Government Departments and arranging visits of V. I. Ps., information both in write ups and pictures was culled, collated and furnished to various foreign countries, many of them coming through the Mayor. A number of central functions, official public meetings and press conferences were also organised in connection with the opening of various civic projects and necessary assistance was also given to departments holding such functions.

K. T. PANDIT,
Public Relations Officer.

Municipal Swimming Pools

Mahatma Gandhi Memorial Olympic Swimming Pool

- (1) 4077 New Members joined the Swimming Pool during the year under report.
- (2) 1187 Beginners were trained in swimming during the year.
- (3) 38,665 casual swimmers including Labourers & Factory Workers availed of the facility of Swimming.
- (4) Thirteen educational Institutions availed of the swimming facility at concessional charge.
- (5) 12 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 Ahmedabad in October 1971.
- (6) The Intercollegiate Swimming competitions were held at the M. G. M. O. Swimming Pool in September 1971.
- (7) Free Swimming facilities were provided for the blind persons by granting reservation of the Pool for 2 hours in a week.
- (8) 1040 school going children upto the age of 18 years availed of 50% concession in fees during the year under report.
- (9) Eight Polio crippled children availed of the free swimming facility at the Pool during the year.
- (10) Collection of fees during the year was Rs. 1,98,435 as against Rs. 3,05,861 during the previous year.
- (11) Private parties reserved the Swimming Pool for 481 hours by which a revenue of Rs. 10,180 was collected.
- (12) The total annual expenditure was Rs. 1,46,047 including the establishment cost of Rs. 85,592 during the year under report.
- (13) 19th 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 Shri. S. M. Y. Sastry, Dy. Municipal Commissioner.
- (14) The M. G. M. O. Swimming Pool was closed from 18-11-71 to 30-11-71 and from 1-2-1972 to 16-3-1972 for repairs work. The Pool was also kept closed for public during the conjunctivitis epidemic in the city from 20-4-1971 to 5-5-1971.

Sardar Vallabhbhai Patel Swimming Pool, Kandivli

- (1) 1822 New members joined the Pool during the year under report.
- (2) 906 Beginners were trained in swimming during the year under report.
- (3) 17,104 casual swimmers including the Labourers & Factory workers availed of the swimming facility.
- (4) Four Educational Institutions availed of the swimming facility at concessional rate of Rs. 100 p. m. during the year.
- (5) 790 school going children upto the age of 18 years availed of 50% concession in fees during the year under report.
- (6) The amount of fees collected during the year was Rs. 80,700 as against Rs. 1,58,856 during the previous year.
- (7) Total expenditure during the year was Rs. 82,200 including the establishment cost.
- (8) Private parties reserved the Swimming Pool for 13 hours by which a revenue of Rs. 520 was collected.

Ghatkopar Lions Municipal Swimming Pool, Ghatkopar

- (1) The Ghatkopar Lions Municipal Swimming Pool was opened to the public on 28th March 1971 by Dr. Shanti Patel, Mayor of Bombay.
- (2) 5888 New members joined this Pool during the year ending 31st March 1972.
- (3) 3962 Beginners were trained during the year under report.
- (4) 5151 Casual Swimmers including Labourers and factory workers availed of the swimming facility in this Pool during the year under report.
- (5) One educational Institution availed the swimming facility at concessional rate.
- (6) Private parties reserved the Pool for 10 hours by which a revenue of Rs. 400 was collected.
- (7) Collection of fees during the year was Rs. 2,54,083.
- (8) Total expenditure during the year including the establishment cost was Rs. 1,12,625.
- (9) 2159 students availed of 50% concession in fees during the year.

S. N. PINGE
Manager
M. G. M. O. SWIMMING POOL.

ADMINISTRATIVE OFFICER ENQUIRIES

Details of investigations work done by Enquiries and Investigations Branch

I.—Investigation of—

(a) Cases of alleged acceptance of illegal gratification and misappropriation of Municipal money by the Municipal Staff	22
(b) Cases of pilferage and misuse of Municipal property and materials	55
(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 Hospital, taking leave under false pretext, driving or allowing to drive Municipal vehicles by unauthorised persons, gross dereliction of duties etc.	246
(d) Cases of irregularities of minor nature on the part of Municipal employees, such as irregular attendance, sub-letting of rooms, harbouring outsiders in their rooms without permission and negligence of duties, etc. and complaints against stall-holders, licences and other regarding sub-letting of stalls, infringement of licences conditions, breach of provisions of Shops and Establishment Act, Municipal Bye-laws and Regulations.	413
Total No. of cases investigated	736

The actions taken in the above cases investigated are summarised as under:—

	No. of Employees	No. of cases.
(1) Dismissal	5	} 105
(5) Removal from Service	15	
(3) Demotion	2	
(4) Resignation accepted	1	
(5) Withholding of increments	45	
(6) Fines imposed	54	
(7) Censures and warnings	27	
(8) Recoveries made for loss of Municipal property	5	
	124	
(9) Sent to Departments for conducting Departmental Enquiries ... ..	...	78
(10) Sent to Departments concerned for necessary remedial actions. ... ..	...	256
(10) Sent to Departments concerned for necessary remedial actions ... ..	...	256
(11) Filed as the allegations were found to be either false or too vague ... ..	...	193
(12) Exonerated as the charges were not proved ... ..	...	10
(13) Enquiries in progress at the end of the year ... ..	...	94
Total	736	

I.—The split up according to the status of the delinquents in the cases 68 employees who have been awarded deterrent punishments such as dismissal, removal from service, demotions and withholding of increment is as under:—

Category	Dismissal	Removal	Demotion	Resignation accepted.	Increment withheld.
Chawl Superintendent	1	—	—	...	2
Rent Collector	—	—	—	—	1
Ward Inspector	—	2	—	—	—
Licence Inspector	—	—	—	—	1
Octroi Inspector	—	—	—	—	1
Clerk	—	—	—	—	1
Store Clerk	—	—	—	—	2
Managing Clerk	—	—	—	—	1
Stock Verifier	—	1	—	—	—
Head Teacher	—	1	—	—	—
Assistant Teacher	—	—	—	—	2
Library Assft.	—	—	—	—	1
Death Reg. Karkoon Overseer	—	1	—	—	—
Junior Overseer	—	1	—	—	1
Store Attendant	1	—	—	—	2
Artist	—	—	—	—	2
Public Health Nurse	—	—	—	1	—
Pharmacist	1	2	—	—	—
X-Ray Assistant	—	—	—	—	1
Labour Staff	2	7	2	—	27
Total	5	15	2	1	45

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	Resignation accepted.	Increment withheld
(1) Demand and acceptance of illegal gratification etc.	1	—	—	—	1
(2) Pilferage of Municipal property such as store articles, dietary articles, etc.	1	6	2	—	2
(3) Temporary misappropriation of Municipal money	1	3	—	—	2
(4) Misbehaviour, misconduct etc.	1	2	—	—	13
(5) Disorderly behaviour while on duty, Assault, Threatening, etc.	1	—	—	—	2
(6) Misuse of Municipal property, vehicles and handing over vehicles to unauthorised persons etc.	—	2	—	—	5
(7) Accepting private jobs, doing private business, trade etc., while in service or leave.	—	1	—	—	—
(8) Other offences	—	1	—	1	20
Total	5	15	2	1	45

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.	184
(2) Attending sale by auction of Municipal property or rights etc.	207
(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	1,148

Work done by the Stock Verification Section.

Verification of Stores including capital stores at the Stores and Sub-Depots was carried out during the year as usual. Periodical checking of balances of petrol, diesel oil etc., at the various Municipal Pumps was also done and quarterly live stock statement of bullock as well as increase and decrease statements of live stock at the Victoria Gardens were verified, checking of the unserviceable articles needlessly occupying considerable space in Municipal Schools was also carried out. Schools and other Ward Offices were visited and unserviceable articles lying there were disposed of as per procedure laid down.

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

The other important work attended to by this Section was the distribution of relief grants from the Mayor's Relief Fund to the persons and families affected by fire, house collapse and other natural calamities.

C. K. PATEL
A. O. (Enquiries).

THE BOMBAY CIVIC JOURNAL

Shri N. A. Mistri, M.A., D.J., Dip. S. W., Public Relations Officer, was on earned leave from 1st April 1971 to 20th April 1971 and retired due to superannuation from 23rd April 1971. During the leave period of Shri N. A. Mistri and after his retirement due to superannuation from 23rd April 1971, Shri K. T. Pandit, M. A., was in charge of the post of Public Relations Officer during 1971-72.

The Journal has entered the 18th year of its publication. The November 1971 issue of Journal was mainly devoted to the two big events 10th Conference of the All-India Council of Mayors and 8th Conference of Municipal Corporations of India, which took place in Bombay for the first time. The other two features—Publications of Interviews of Municipal Councillors and Officers and the 'Know Your Ward' were continued, during the year under report. Besides this, the monthly issues of the Journal which were brought out regularly, contained articles and other related information on subjects or topics of civic importance.

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

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 11-5-1971 to 13-6-1971 and from 13-7-1971 to 30-10-1971. Shri D. T. Chaubal B.Sc. P.A. to M.C. was in charge of the office from 15-7-1971 to 30-10-1971.

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 Kreedha 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 Procedure and suggesting improvements therein so as to tone up the administration.

(vi) Introduction of Marathi—

- (a) One Book प्रसासनीक लेखनातील व जा ह पुस्तक पहिले giving English and Marathi versions, side by side, in respect of remarks, orders, short notes, etc. commonly used in the various Departments of the Corporation is prepared and circulated.
- (b) Answering questions in Marathi is introduced in the departmental examinations.
- (c) Most of the forms are now being printed in Marathi.
- (d) Some circulars were issued in Marathi.
- (e) System of conducting examination for assessing the knowledge acquired by employees in noting and drafting in Marathi is continued.
- (f) Six classes for imparting training in Marathi to Municipal employees, including nursing staff, who do not have Marathi as their mother tongue were conducted.

(vii) In service Training to Clerks.—

Five classes at different places were conducted and In-service Training was imparted to employees of the clerical cadre recruited after 1.4.1968.

S. D. PARCHURE,
Organisation and Methods Officer.

PRODUCTIVITY CELL

The Productivity Cell established in the year 1968, comprising specially trained personnel, in the fields of "Industrial Engineering" and "Management techniques" is charged with the task of suggesting ways and means of stepping up efficiency by cutting down waste. This is sought to be achieved through a dual approach of effective supervision, improved methods and updating working norms.

Shri N. P. Nobre, Executive Engineer, was in Charge of this Cell during the period 1971-72.

Implementation :-

The progress of implementation of the accepted suggestions reflected in the reports that are already submitted, is rather slow. But, the training in "Management techniques" which is already under taken at every level will contribute to a great extent to create a favourable climate for speedy implementation. The suggestions when implemented would realise an huge amount of saving, in addition to the improvements in the areas which cannot be quantified in terms of monetary gains.

The major problems studied during the period 1971-72 are,

- (1) Management of Swimming Pool,
- (2) Despatch System,
- (3) Stores of Ward Offices,
- (4) Overcrowding at O. P. D., at the Bhabha Hospital-Kurla,
- (5) K. D. Railway stores,
- (6) Municipal Work-Shop Stores,
- (7) Standardisation of General Conditions of contract and preparation of revised tender forms.
- (8) Office accommodation at Head Office for proposed water and Sewage Board,
- (9) Work load Analysis of Engineering unit in Drainage planning section,
- (10) Central stores at Dr. R. N. Cooper Municipal Hospital—Juhu.

In addition to the above mentioned major problems, about 15 minor problems were also studied during the year.

Training activity—

Four training officers of this Cell, were sponsored for "O & M" course arranged by the Bombay productivity council.

Two personnel from City Engineers establishment section were sponsored for "Higher efficiency in office work" course arranged by the Bombay productivity council.

PERT/CPM training programmes were carried out for the technical employees of this organisation and were extended further, by request, to the Civil Engineering Contractors working for our organisation and were highly appreciated.

Training Programmes in "Materials Management" were conducted for the personnel of Central store Nair Hospital and ward offices who are in charge of handling the stores. Training Programmes in "Management Techniques" for the personnel of supervisory cadre in the ward offices were carried out and it has contributed much in changing the out-look of the persons who have undergone the training.

Manuals :-

Road maintenance Manual has been prepared.

Detail manuals for Building Repairs, factory and Drainage maintenance, pertaining to the ward Offices, are under progress. Manuals for the clerical unit is also under preparation.

Job Training :-

Scheme for the job training courses for the Engineering unit of the ward Office has been drawn and the work of preparing necessary hand-outs for the job training is in progress.

The scheme is to be launched shortly. Preparation of hand outs for "Induction training" course in progress.

Library :-

As a necessary adjunct to the training wing of this Cell, the library units of the various technical departments have been taken over and amalgamated to form a centralised library. This has been done to have a better Co-ordinated effort to disseminate literature and to have an effective control over the purchase and issue of books.

N. P. NOBRE,
Executive Engineer,
(Productivity Cell).

BOMBAY MUNICIPAL SECURITY FORCE

Shri B. R. Sawant, Dy. Superintendent of Police, Maharashtra State, Bombay, whose services have been taken on loan from the Government initially for a period of 2 years, took over the charge of the Security Officer on 10th March 1971. For the convenience of the administration of the Security Force, the branch of the Bombay Municipal Security Force had been separated from the Administrative Officer (Enquiries) Department and it has been placed directly under the control of the Municipal Commissioner from June 1971.

2. The Security Officer is assisted with three Assistant Security Officers in his day to day administration. The distribution of supervision over the entire area of Corporation for security purposes is made as (i) City Proper (from 'A' to 'G' Wards), (ii) Western Suburbs ('H', 'K', 'P' and 'R' Wards), (iii) Eastern Suburbs ('L', 'M', 'N' and 'T' Wards) and Outside City Divisions of the Water Works Department ranging from Chhatkopar to Vaitarna. One Assistant Security Officer is placed in charge of each Division and he functions as a Supervisory Officer in the Division.

3. Sarvashri G. H. Salunke, D. G. Shinde and C. W. Zambre from among the rank of Security Assistants are holding the charge of posts of Asstt. Security Officers temporarily after their selection by the Selection Board of the Corporation.

4. The work done by the Security Force is of two types, one is of Investigations which includes conducting the Departmental Enquiries and the other of detection of theft and pilferage cases of Municipal Properties in addition to making necessary arrangements for guarding Municipal Buildings and Municipal Installations.

5. The work of Departmental Enquiries completed by Assistant Security Officers is as follows:—
I.—Departmental Enquiries—

(a) Cases of theft or pilferage of Municipal Property or materials	...	9
(b) 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.	...	25
Total No. of cases		= 34

(a) The action taken in the above cases is summarised below:—

	No. of employees	No. of cases.
(1) Dismissal	8	} 34
(2) Removal from service	8	
(3) Promotions withheld	1	
(4) Demotion	7	
(5) Withholding of increments	5	
(6) Fine imposed	5	
(7) Censures and Warnings	3	
(8) Recoveries made for loss of Municipal property	3	
(9) Sent to Departments concerned for conducting further D. Es.	...	...
(10) Sent to departments concerned for necessary remedial actions	...	1
(11) Filed as the allegations were found either false or too vague	...	...
(12) Exonerated as the charges were not proved	...	2
(13) Enquiries in progress at the end of the year	...	82
Total	...	119

I.—(a) The split up according to the status of different employees who have been awarded deterrent punishments such as dismissal, removal from service, demotion and withholding of increment, is as under:—

Category	Dismissal	Removal	Demotion	Increment withheld
Clerk	—	—	—	1
Security Guard	5	3	—	5
Labour Staff (Other than Security Guards)	3	5	1	1
Total	8	8	1	7

II.—The classification of very serious offences for which punishments of dismissal, removal from service, demotion 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) Pilferage of Municipal Property such as store articles, dietary articles, etc.	4	2	1	1
(2) Misbehaviour Misconduct etc.	4	6	—	6
Total	8	8	1	7

The Departmental Enquiries pending with this department (A. S. Os.) are :— 127.

III.—Besides conducting Departmental Enquiries, the Security Assistants have also completed Preliminary Enquiries numbering 344.

IV.—The Security Department maintains Orderly Room Registers with the Security Officer and Assistant Security Officers and the Staff of Security Department is placed in the Orderly Room. The persons found guilty of minor defaults are inflicted punishments such as cautioned, censured or fined. The punishment imposed is recorded in Orderly Room Registers. Fines were recovered from 117 Security Guards amounting to Rs. 124.50, during the year under report.

Theft cases detected and the recovery of stolen property are tabulated below :—

Total No. of cases		Total property involved.		Total property recovered	
		Rs.		Rs.	
Detected 450/290		—	39,826.10.		23,274.09
		Hospitals		Others.	
Cases	Property lost	Property recovered	Cases	Property lost	Property recovered
	Rs.	Rs.		Rs.	Rs.
Detected 298/221	23,142.80	18,594.80	Detected 152/69	16,683.30	4,676.29
		Hospitals.		Others.	
I.—Municipal employees involved		240	I.—Municipal employees involved		106
(a) Municipal Employees against whom Departmental action is taken		217	(a) Municipal Employees against whom Departmental action is taken		40
(b) Municipal Employees against whom Departmental action is pending		23	(b) Municipal Employees against whom departmental action is pending		66
II.—Municipal Employees against whom Police cases were made		9	II.—Municipal Employees against whom Police cases were made		26
(a) No. of employees convicted		4	(a) No. of employees convicted		7
(b) No. of employees against whom Police cases are pending		5	(b) No. of employees against whom Police cases are pending		19

6. During the period under report, some of the members of the Security Force have done excellent work of detecting cases of theft, pilferage etc., and they will be rewarded suitably in due course.

7. With the tightening of the Security Control at various Municipal places and Municipal works, theft cases of Municipal Property have been minimised. A major pilferage of property was reported by the Controller of Stores when brass articles worth Rs. 19,509.73 were pilfered. After tightening of Security measures, no loss is reported.

8. During the year under report, All India Mayors' Conference took place in Bombay and the Security Force had given a valuable service at the occasion. This has been specifically appreciated by the Mayors of other Corporations.

9. The Security Force was engaged for special bundobust on Bombay Bundh days, Morchas, Demonstrations, etc. The Security Force was also engaged in special bundobust at Corporation Meetings at Corporation Hall.

10. The Security Force as such, has worked in collaboration with other departments in activities such as Civil Defence Measures in the Indo-Pak Conflict in December 1971. The strength of Security Force was increased to guard the vital installations such as Water Works, Static Tanks etc. The Security Personnel were also engaged day and night duty at Control Room to keep the force alert for emergency.

11. The Security Force conducts the Industrial Unit of the Home Guards and there are 50 members who attend parades regularly. They are called for parades on every Friday.

12. The Security Force participates in Flag Salute Ceremony on the Republic Day (i.e., 26th January) and Independence Day (15th August) every year when special staff is called for parades on the occasion.

13. The Security Force has got its own Training School for the Security Guards and during the year under report 120 Security Guards (Recruits) were imparted Training.

14. The total expenditure on the Security Establishment was Rs. 57,66,325 comprising a total strength of 2,024 men including Officers, Sub-ordinate and Labour Staff. 320 candidates were recruited as Security Guards during the year under report.

B. R. SAWANT.
Security Officer.

ADMINISTRATION REPORT OF THE EXECUTIVE HEALTH OFFICER FOR THE YEAR 1971-72.

Population.—The midyear estimated population *viz.*, 60,33,000 for Greater Bombay for 1971 has been taken as the basis for working out the rates of vital statistics.

Rainfall.—The total rain fall in millimetres recorded at the Colaba Observatory was 2,443.8. It was above normal by 639.0 mms. It rained on 101 days as against 113 in 1970 and 72 in 1969. The wettest month was June, with a rainfall of 1,094.3 mms.

At the Santacruz Observatory the total rainfall recorded was 2,697.2 mms. as against 2,487.9 mms. in 1970. June was the wettest month with a rainfall of 1,037.1. mms.

Out standing activities of the year.

The following Municipal Medical Institutions were opened from 1st January 1971 to 31st December 1971.

DISPENSARIES

Date of opening	Name of the Dispensary.
17-2-1971	Sherli Rajan Dispensary, Bandra (West).
6-5-1971	Rajarshi Shahu Nagar, Jasmine Mill Compound Dispensary, Dharavi.
31-5-1971	Prabhat Colony Dispensary, Santacruz (East).
27-6-1971	O. P. D. at Chembur Hospital, Ramchandra Chemburkar Marg, Chembur.
28-6-1971	Compound of Fire Brigade Dispensary, Nana Chowk.
11-7-1971	Rawli Comp. Dispensary and Diagnostic Centre, Shaikh Mistry Road, Sion-Koliwada.
26-9-1971	Sarvodaya Hospital Compound dispensary, Lal Bahadur Shastri Marg, Chhatkopar (West).
5-11-1971	Matunga Labour camp Dispensary, opp. Chawl Superintendents' Office, Bombay 19.
20-12-1971	Oshvira Dispensary, Ajit Glass Work Galli, Jogeshwari (West).

MATERNITY HOMES.

11-7-1971 Maternity Home at Rawli Camp, Shaikh Mistri Road, Sion Koliwada, Bombay 22.

OTHER INAUGURATION CEREMONIES.

25-4-1971 Independent Physiotherapy & Occupational Therapy Ward at K. B. Bhabha Hospital, Bandra
8-5-1971 Inauguration of Dr. R. N. Cooper full-fledged Municipal General Hospital.
11-9-1971 Screening machine and Pathological Laboratory at the Municipal General Dispensary at 198(1), Panjrapole Street.

All the opening ceremonies and inauguration functions mentioned above, except the opening of the Municipal dispensary at Sherli Rajan, Bandra West, took place during the term of office of Shri S. M. Jani, Chairman of the Public Health Committee of the Municipal Corporation of Greater Bombay.

Two new Mobile dispensaries one in the City and the other in 'T' Ward were started from 1st February 1971.

PUBLIC HEALTH ADMINISTRATION

I.—GENERAL SANITATION

(A) **Food Sanitation, etc.**—This includes enforcement of sanitation and hygiene in food establishments, check on hawkers of food and destruction of unwholesome articles of food. Control over food establishments is exercised under the conditions of licence issued under Sections 394 and 412-A of the Bombay Municipal Corporation Act. There is also a system of medical examination of food handlers (cooks and cook-mates) in eating houses so as to prevent the spread of various diseases through articles of food.

(B) **Grading of Eating Houses.**—The scheme for grading of eating houses introduced from the year 1961 contemplates improvement of sanitary etc., conditions obtainable in eating houses, by introducing the element of competition amongst the licensees. Grades I, II and III are determined on the basis of marks secured out of 100, allotted for the observance of the conditions of eating house licences and provision of special arrangements such as sterilising of all utensils, cups, dishes, etc., additional arrangements for periodical cleanliness of the premises and tables, cleanliness of the servants and their uniform, refrigeration for food preservation and periodical medical examination of all employees, etc. The grade allotted to an eating house is required to be exhibited in 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 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 Velhar 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 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 is mostly completed in all respects.

(F) **Prevention of Food Adulteration.**—This includes sampling of articles of food stored, sold or exposed for sale, etc., for checking adulteration and misbranding of food, under the Prevention of Food Adulteration Act, 1954. This work is being done by the Food Inspectors appointed for the purpose, under the 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. Food establishments and food hawkers are also licensed under the Maharashtra Prevention of Food Adulteration Rules, 1962.

II.—VITAL STATISTICS.

Births and Birth-rate.—The live births registered were 1,64,293 which were 2,981 more than those for 1970 and 8,498 above the average of the quinquennium 1966-1970. Of the registered births, 86,150 were males and 78,143 females, giving a proportion of 110 males to 100 females. The birth rate was 27.2.

Deaths and Death-rate.—The deaths registered from all causes were 57,245 as against 55,898 in 1970, being 3,573 more than the mean mortality of the preceding 5 years.

The death rate was 9.5 as against 9.8 in 1970. 22.7 per cent of the total deaths were among infants below 12 months. Of these 40.6 per cent were recorded as due to congenital malformation and diseases of early infancy.

Mortality by sex and age.—Of the 57,245 deaths, 33,945 were among males and 23,300 among females. The excess of deaths among males may be ascribed to the slight preponderance of males in the population, their number being nearly 58.3 per cent of the total population. The death-rate among males was, however, actually higher than that among females. On the 1971 census population the male death-rate was 9.8 and the female death-rate 9.4 as against 13.2 and 13.8 respectively in 1970.

Principal causes of deaths.—Diseases of the respiratory system claimed the highest number of deaths as in the past, with a death-rate of 1.8 per 1,000 of population. A large proportion of deaths from respiratory diseases occurred among infants and children under 5 years of age. The causes coming next on the list for the year were tuberculosis, (1.1) congenital malformation and diseases of early infancy, (1.0) diarrhoea and dysentery (0.7).

Infant mortality.—Deaths among infants under 1 year of age numbered 12,973 which were 21 less than in the preceding year and 203 less than the annual average of the previous quinquennium 1966-70. The infant mortality rate for the year was 79.0 per 1,000 live births as against 80.6 in 1970.

Of the 12,973 infant deaths, 11,948 i.e., 92.1 per cent were among infants born in Greater Bombay and 1,025 i.e., 7.9 per cent were among those born outside Greater Bombay. The births of these 1,025 infants were naturally not registered in the Greater Bombay birth registry. Excluding these 1,025 deaths, the infant mortality rate would be 72.7. 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 72.7 i.e., 6.3 less than the recorded rate of 79.0.

Causes.—8,411 or nearly 64.8 per cent of the total infant deaths were due collectively to disease of the respiratory system, congenital malformation and diseases of early infancy, as against 8,300 or 68.8 per cent. in 1970. Diarrhoea and Enteritis caused 1,637 deaths, Dysentery 61 and Convulsions 43 deaths. Deaths from Small-pox Nil. Measles 38 and poliomyelitis caused 25 deaths.

Quinquennial average.—Compared with the annual average of the preceding five years the total deaths among infants in 1971 were 203 less. Increase of 4 under convulsions, 11 under Dysentery and 7 under congenital malformation and diseases of early infancy and 9 under poliomyelitis was recorded. Decrease of 43 under Small-pox 18 under Measles, 15 under Diarrhoea and enteritis and 180 under Diseases of Respiratory System was recorded.

Age at death.—The infant deaths in the first week of life were 5,113 or 39.4 per cent, and in the age group of 1 to 4 weeks it was 2,432 or 18.7 per cent of the total. Thus, 7,545 infant deaths or 58.1 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 3305 and 2,123 respectively constituting 25.5 per cent, and 16.4 per cent of the entire infant mortality.

The maternal mortality numbered 90 the rate being 0.5 per 1,000 live births as against 0.6 during 1970.

Cemeteries.—There were in all 120 cemeteries in use in Greater Bombay. Of these, 20 were Municipal managed and at the 5 private cemeteries in the suburbs required amenities were provided at Municipal cost. At the Municipal managed cemeteries necessary amenities are provided at municipal cost.

Notification.—Notifications of infectious diseases received during the year numbered 8,210 as against 8,320 in 1970. Of these 2,082 (25.4) were from the Medical Practitioners.

Infective Hepatitis.—1,777 attacks (including 35 originating in the other local areas of India) and 203 deaths occurred due to Infective Hepatitis.

Plague.—There was no case of plague.

Rat Control Work.—Integrated Rat Control Campaign by employing different anti-rat measures considering the suitability of each one and their combination was continued in A to G Wards. Routine anti-rat measures in the Suburban wards was also continued. Under rat preventive measures provision of rat guards was encouraged and legal action for clearing debris from private compounds were being instituted.

Rat destruction.—Rats caught and destroyed in Greater Bombay numbered 6,78,573 (including 1,42,172 *Rattus Rattus* and 2,99,270 *Gunomys Kok*) as against 5,88,454 in 1970. 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 to be 17.5 per cent in *Rattus Rattus*, 12.5 per cent in *Rattus Narvegicus*, and 63 per cent in *Gunomys Kok*.

Other anti-plague measures viz., Flee destruction, especially through cyanogassing of rat holes and thorough cleansing of areas were carried out.

Small-pox.—There was no Small-pox case during the year. This is because of the excellent implementations of the Small-pox Eradication Programme planned and executed by the Superintendent of Vaccination under the able guidance of the Executive Health Officer. This programme has also been recommended as a model for implementation in other urban centres in India by Dr. J. G. Breman, W. H. O. Short-term Consultant, Small-pox Eradication Programme, India, after his visit to Maharashtra State in November 1971. Director General of Health Services, Government of India also asked the Executive Health Officer to prepare a write up on the history, strategy and excellent implementation of the Bombay Programme for used other urban centres as a model.

Cholera.—There was no cholera case. Preventive measures such as anti-cholera inoculations disinfection of well water, destruction of over-ripe and rotten fruits, were continued. 9,20,668 persons were inoculated against Cholera.

Influenza.—There was no case of Influenza.

Enteric Fever.—The number of notified cases *viz.*, 1,359 (including 10 originating in other local areas of India) was 841 less than that in 1970. The total number of deaths was 47 as against 75 in 1970. 7,26,904 persons were inoculated with T. A. B Vaccine. Other preventive measures including D. D. T. spraying as an anti-fly measure, surprise inspection of food establishments, etc., destruction of unwholesome food-stuff, propaganda, etc., were carried out as usual, besides treating all cases of typhoid with chloramphenicol, etc., at the Kasturba Hospital for Infectious Diseases.

Acute Anterior Poliomyelitis.—458 cases (including 46 originating in other local areas of India) and 59 deaths were reported due to this disease. 1,03,733 children were immunised against Polio.

Diphtheria.—Caused 1,528 attacks. Of these, 108 were originating in the other local areas of India; 97 deaths.

Cerebro-spinal meningitis.—This disease caused 4 attacks.

Tuberculosis.—Tuberculosis took a toll of 6,339 lives and the death-rate of tuberculosis was 1.1 per 1,000 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 500 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, Foras Road, Dadar, and Khar were admitted as per the waiting list maintained at the Hospital Outdoor Department after examination by the honoraries. A. P. and P. P. refills and screening were done at the hospital as also at the above four clinics. Advanced cases of tuberculosis were isolated at the Daftary Municipal Isolation Wards at Dadar.

The Municipal Commissioner appointed a committee consisting of important personalities in the field of tuberculosis to make concrete proposals for T. B. Control plan for Greater Bombay. The committee recommended the establishment of a Central T. B. Case registration unit under the charge of a T. B. Control Officer. The Corporation by their Resolution No. 1366, dated the 13th February 1969 accorded administrative approval to such a Central T. B. case registration unit being established under the Control of the Executive Health Officer.

Functions.—(1) To organise and supervise maintenance of a central T. B. case register of all the notified cases of Tuberculosis.

(2) To co-ordinate the domiciliary treatment of T. B. patients carried out through various Municipal and Non-municipal T. B. Clinics.

(3) To integrate health visiting work carried out through different clinics and take remedial measures to follow up defaulters in treatment.

(4) To organise and implement groupwise or areawise B. C. G. vaccination.

Staff pattern.—It was recommended that the Tuberculosis Control Unit should consist of a co-ordinating T. B. Officer, Statisticians, Medical Record Technicians, Registration Assistants, Head Clerks, Clerks, Typists, Peons, etc., when the scheme starts on a full-fledged basis.

The function No. 1 was implemented partly by starting to maintain a Central T. B. Register from 13th February 1970.

Work done in 1970 and 1971.—A joint appeal by the Executive Health Officer and the Honorary Secretary, Maharashtra State Anti T. B. Association, Bombay, was issued by a press note as well as by writing personal letters to the Medical practitioners in Greater Bombay, Soliciting their co-operation by notifying T. B. cases. Heads of all the Municipal and Government medical institutions were also requested to notify T. B. cases. Arrangements were also made to distribute to the Medical Practitioners, stamped T. B. Notification Cards and to collect the same duly filled in. During the period from 14th March 1970 to 31st December 1970, 11,616 cases were registered in the Central T. B. Register.

Assistant Health Officer (T.B.) was appointed as a co-ordinating T. B. Officer from 6th October 1971. He is working under the control and general supervision of the Executive Health Officer. His office is situated at the Municipal F/South Ward Offices Building, 2nd floor, R. No. 203, Parcel, Bombay 12.

During 1971, 16,182 T. B. cases were registered in the Central Register.

Venereal Diseases.—The Municipal Venereal Diseases Clinic is situated at 254, Bellasis Road, Byculla Bombay 8. It treats Venereal Diseases Cases with the latest method of treatment after proper clinical diagnosis confirmed by modern laboratory tests carried out at the clinic's laboratory.

Antibiotics like penicillin 'G' in oil, strepto-penicillin, Benzathine penicillin, Ledermycin capsules and chloromycetin etc., were the drugs of choice in the treatment of Venereal Diseases.

Male and Female patients were examined and treated in separate wings of the clinic maintaining absolute privacy and secrecy.

A refresher course in Venereal Diseases was conducted at this clinic for the benefit of general medical practitioners. The course was conducted under the joint auspices of the Association for Moral and Social Hygiene, the V. D. Advisory Committee, Maharashtra State and the Municipal Corporation of Greater Bombay.

The Medico-Social Workers, one male and the other female, and the Health Visitor (Auxiliary Nurse) helped in inducing the defaulting patients and married partners to take continued and complete treatment and impressed upon their minds the disastrous after-effects of the disease.

Some female patients willing to be rescued were given aid in rescuing themselves through the Vigilance Branch of the Police Department.

The private medical practitioners who sent blood samples and urethral smears to this clinic for examination, were given the reports confidentially free of charge. Also 461 samples of blood were received from the

Municipal Maternity Homes and Hospitals (349 ante-natal and 112 post-natal) for opinions as follows :—

Kamathipura Municipal Eye Hospital	...	1
Bellasis Road Municipal Maternity Home	...	103
Savarkar Marg Municipal Maternity Home	...	146
Andheri Municipal Maternity Home	...	95
Naigaum Municipal Maternity Home	...	58
Khetwadi Municipal Maternity Home	...	58
Total	...	461

Of these, 50 were positive for V. D. R. L. or Kahn Test. These positive cases were treated in the respective maternity homes for the convenience of the patients.

As many as 2,380 (19,043 males and 1,337 females) Venereal and 3,176 (2,113 males and 1,063 females) non-Venereal cases were treated.

Out of 20,380 Venereal Cases, 4,199 were Syphilis, 7,510 were Gonorrhoea and 8,671 were cases for Non-syphilitic sores.

On an average 1,056 patients were treated daily at this clinic. The clinic played an important part in the control of Venereal Diseases.

With a view to controlling Venereal Diseases in Greater Bombay an Advisory Committee was constituted. Expert Sub-Committee was also appointed and as per their recommendation, action is in progress to :—

- (1) Establish a supervisory unit to execute and supervise the whole scheme.
- (2) Upgrade the existing V. D. Clinics and establish a few more clinics.
- (3) Exhibit educative health posters for health propaganda.
- (4) Conduct refresher courses to train the medical personnel.
- (5) Train the medical students.
- (6) Establish a Central Reference Laboratory.

Leprosy.—The Acworth Leprosy Hospital was founded in 1890 and since then has been doing commendable work and is also conducting 9 clinics, 5 in the city and 4 in the suburbs and extended suburbs, maintained by the Greater Bombay Leprosy Control Scheme whose aims and objects are to control leprosy in Greater Bombay through survey, education and treatment. In addition to providing a hospital for the isolation of 500 patients, either voluntarily admitted, or committed by Magistrates, under the Leprosy Act, the Institution conducts a well-equipped Out-patient Clinics, with facilities for education, case-detection and treatment, including Physiotherapy and chemo-prophylaxis, and reconstructive and plastic surgery. Medical social service is also provided. The figures of attendance at the 9 clinics are given below :—

	A. L. Hospital clinic.	G. B. L. C. Scheme (9 Clinics)
New cases	4,237	2,595
Old cases	11,036	7,762
Average daily attendance	260.3	374.46

The Corporation bears the entire cost of the out-patient clinic attached to the Acworth Leprosy Hospital and also additional cost on account of—

- (1) 48 beds for the voluntary patients domiciled in Bombay.
- (2) approximately 230 beds for the resident patients (domiciled in Bombay), committed under the Leprosy Act.
- (3) Domiciliary service by 6 Health Visitors.
- (4) An amount of Rs. 10,000.00 (ten thousand) 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 and three Medico-Social Workers and 3 non-medical Assistants appointed by the Acworth Leprosy Hospital and 7 Health Visitors appointed under the Greater Bombay Leprosy Control Scheme are doing the important work of detecting cases of the diseases among the contacts of the patients. The Medical Officers in charge of the Municipal Free Dispensaries have also been specially trained for detection of early cases of leprosy.

Under the auspices of the Acworth Leprosy Hospital Society for Research Rehabilitation and Education in Leprosy, a school survey was carried out by the members of the Acworth Leprosy Hospital staff. 63,346 school children from 132 schools (127 Municipal and 5 private) were examined and 201 leprosy cases were detected. All the leprosy cases detected have been put under Dapsone treatment.

Malaria.—Inspections were carried out for detecting mosquito breeding places and breeding detected was promptly destroyed by treating with larvicides. The urban vector, *A. Stephensi* (larvae) was detected on 9 occasions and *A. culicifacies*, rural vector on 2 occasions in Greater Bombay.

Wells.—20 open wells were filled in and 5 open wells were rendered H. C. C.

Cisterns.—There were 1,39,720 Cisterns in Greater Bombay.

Over-head tanks.—All the 269 overhead tanks on mills and other similar premises were maintained in mosquito proof condition

Mill tank.—101 mill tanks in Greater Bombay were periodically inspected and necessary measures were taken to prevent or destroy mosquito breeding in them. Some of these tanks were kept under insecticidal treatment on payment.

Storm Water Entrances and Drains.—All the Storm Water entrances and drains were kept under regular weekly treatment with larvicides to prevent mosquito breeding.

Precautions against Yellow Fever.—Campaign against *Aedes Aegypti* mosquito, the vector of yellow fever and dengue was continued throughout the year. Breeding of *A. Aegypti* was detected on 50 occasions. Stegomyia index for the year was 0.001 per cent

Statutory actions were taken against the owners of premises etc., to keep their compounds free from breeding of mosquitoes.

Insecticidal services.—Fly and other insect pests likely to cause nuisance and transmit insect borne diseases were reduced as a result of regular anti-fly and other disinfection measures adopted by the Insecticidal Branch.

Filariasis.—Filaria control programme on small scale was been launched with the appointment of additional staff consisting of 3 laboratory technicians, 10 Insect Collectors, 15 Superior Filaria workers and 75 Filaria workers. A random survey was carried out in suburbs (H to T Wards) and 47,395 blood smears were collected and examined for filariasis. 1,083 were found positive. Treatment of those showing micro-filaria was arranged through municipal dispensaries as usual. Entomological survey to assess and delimit the transmission of filariasis by mosquitoes was continued.

Insecticidal treatment on payment of fees in private premises.—This was continued and insecticidal squads operated throughout Greater Bombay. Rs. 3,00,703 were received as fees for the services rendered.

Insecticidal fogging operations.—These were intensified by allotting one unit per ward functioning independently.

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 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 in Greater Bombay 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. The city is covered by passive surveillance only whereas the Western and Central Suburbs and Extended Suburbs are covered by both Active and Passive Surveillance. In City, the blood smears are collected from fever patients, attending the Municipal free dispensaries, Municipal and Government Hospitals, other charitable institutions and from those treated by private medical practitioners whereas in suburbs and extended suburbs, in addition to above, the blood smears are collected by house to house visits and if found positive, radical treatment is given. On an average, 12 to 15 hundred blood smears are daily collected and they are examined in the Malaria Laboratory situated in the premises of old office of Superintendent of Vaccination, Elphinstone Road, Parel, and the results are conveyed to both the active and passive agencies through the inspectorial staff.

In the Surveillance laboratory at Parel, 40 technicians are working in 2 shifts, and the blood smears examined by them are not only checked by the Assistant Health Officer and Assistant Unit Officer, but also 2.5 per cent and 5 per cent of the total monthly collection is sent to 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 unit is also vigilant about the nomadic population which frequently appears in suburbs and extended suburbs. As soon as the location is noticed, the blood smear from each member of the group is collected and Certificate is also issued to them regarding their blood smear examination for the information of the other units of their visits.

In order to make sure that hamlets, isolated houses and slum areas are left with no residual parasitic load a Bias Mass Survey is carried out in all such places. In addition to this, mass suppressive treatment and mass Radical Treatment is carried out wherever necessary.

The Medical Institutions partly covered in the year 1970 were fully covered during the year 1971. 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, and four Assistant Unit Officers assist him in looking after the Active and Passive Surveillance.

A focal outbreak of Malaria in Bombay.—The focal outbreak that occurred during July 1971 at Chandivli village, Kurla, was due to labour movements which had come for work at Quarries. 59 cases were detected and all persons were given radical treatment. The Insecticide Department has also taken preventive measures such as spraying anti-larval measures etc. The area under reference was under vigilance and no further cases were reported from that area.

III.—HYGIENE

The Maternity and Child Welfare services were rendered through the 19 Municipal Maternity Homes and four Hospitals with Maternity wards and 34 maternity and child welfare centres. The scheduled strength of maternity beds was 895. The number of deliveries conducted was 59,410. 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.

B. C. G. Vaccination was given to 46,831 new-born babies at 19 Municipal maternity homes and 4 hospitals with maternity wards after obtaining consent of their parents.

Pediatric 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 good growth and development, providing immunization facilities, teaching family and community health as also nutrition, (ii) to reducing the load of hospital O. P. Ds. by referring cases for different medical care and (iii) to providing a teaching field and educational experience in an urban centre to doctors, nurses and allied workers.

Immunization.—Infants and children aged 6 months and above were immunised with triple vaccine at the Maternity Homes. Polio vaccine was given to the infants and children up to the age of 6 years at the Maternity Homes.

Family welfare Planning.—With a view to preventing or minimizing maternal and infantile mortality and morbidity, instructions in spacing of birth are given by trained doctors to married men and women welfare planning centres free of charge. Contraceptives are also given free after demonstrating the use of the at the family same.

These activities are conducted under the supervision of the Special Officer in charge Family Planning F/South Ward Municipal Office, Dr. Ambedkar Road, Parel.

Summary of the work done :—

(1) I. U. C. D. insertions	1,223
(2) Vasectomy operations	18,018
(3) Tubectomy operations	9,515
(4) No. of condoms distributed	55,88,496

SCHOOL HEALTH WORK

(1) Medical Inspection of School Children

(a) *Primary Schools.*—Pupils in standards I to IV and V to VII in 940 Municipal Primary Schools and 117 classes in Greater Bombay numbered 5,69,093.

The Medical Inspection was conducted in 953 schools and classes by the Assistant Medical Officers (Schools) and Medical Examination of 1,31,520 children (68,465 boys and 63,055 girls) studying in standards I and III as well as of those from standards II and IV who remained examined in 1970 was done this year.

As many as 1,09,825 children were found defective. The defects were communicated to their guardians. The total defects noticed amongst the children were 2,27,171. The guardians of 2,656 children were interviewed by the Assistant Medical Officers (Schools) and were explained the necessity of getting their wards investigated and treated.

The percentage of defectives to the total defectives i.e., 1,09,825 in 1971 was as below :—

Sr. No.	Defects	Total defective in 1971 : 1,09,825	Total defective in 1970 : 1,16,353.
		percentage 1971	Percentage 1970
(1)	General debility	44.76	37.06
(2)	Mouth and Teeth	69.87	60.85
(3)	Enlarged Lymphatic glands	28.23	21.45
(4)	Throat	28.52	25.93
(5)	Nose	16.35	12.68
(6)	Eye (External)	4.84	3.12
(7)	Ear diseases	6.63	6.53
(8)	Skin (Contagious)	3.86	2.65
(9)	Eye (Vision)	1.44	0.91
(10)	Deformity of bones and rickets	1.78	0.99
(11)	Lungs and T. B.	0.77	0.63
(12)	Heart and circulation	1.28	0.40
(13)	Spleen	0.01	0.04
(14)	Other diseases	10.24	11.22

(b) *Secondary Schools.*—Out of 19,000 children studying in 27 Municipal schools (Secondary), 12,064 were medically examined and 9,028 were found defective.

(2). Follow-up

(a) *Corrections of defects.*—The number of children treated at each clinic was as below :—

School clinic at	New cases	Repeaters
L. T. M. G. Hospital, Sion	2,083	10,100
K. E. M. Hospital	2,304	19,383
Nair Hospital	1,866	24,453
Nair Hospital Dental Clinic at Dental College, Nair Hospital	809	3,885
Lion Juhu Dental Clinic	2,901	6,970
H.B. M.G. Hospital Borivili,	647	1,988
	10,610	66,779

(b) 890 cases with minor ailments were treated in the Municipal dispensaries. 2,053 children were referred to the honoraries of the out-patients' department for expert opinion. 324 cases of tonsils were operated at the school clinics. 1,240 children suffering from scabies, ringworms, boils, etc., were treated in the schools by the Assistant Medical Officers (Schools). 28 students were supplied special aid such as calipers, hearing aid, etc., 380 children were supplied with spectacles free of charge. 242 children were found suffering from leprosy, out of which 20 children were disallowed from attending Municipal Schools as they were contagious. The parents of the children suffering from Leprosy were advised of the importance of regular treatment.

(c) 378 children suffering from tuberculosis were treated in clinics.

(3). Sanitary Inspection of School Buildings

The school buildings were inspected from the sanitary point of view and the reports were sent to the departments concerned, for necessary action.

(4). Health Education

(a) 844 and 2,544 Health talks were given in schools by the Assistant Medical Officers (Schools) and Health Visitors respectively.

With a view to improving school health services, the following activities were conducted.

(b) 81 meetings of parents and teachers were organised by the Medical Inspection Branch in the school premises, Educational films were shown as well as informative talks were given at these meetings.

(c) *Health Ministry*.—Health Ministry was formed by selecting one or two students of each standard viz., IV to VII in some of the Upper Primary Schools to look after the sanitation of school environment. This Ministry was guided by the school teachers every day and by the Assistant Medical Officers and Health Visitors periodically.

(d) *Health Trophy Scheme*.—This scheme was introduced to help school children inculcate proper health habits. 102 schools were included in this scheme.

Two schools standing first in the city and 2 schools standing first in the suburbs and extended suburbs were awarded Health Trophies.

(e) *Health Parade*.—Under this scheme, 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 (Schools) periodically to give marks to the children for personal hygiene and cleanliness. The first two children from each class who secured highest number of marks were given prizes as an encouragement.

(5). Supply of milk to the ailing children.

9,506 ailing children attending school clinics at the K. E. M. Hospital and 3,441 children attending the dental clinic at Nair Hospital Dental College were supplied with 200 ml. pasteurised toned milk each and 200 ml. double toned milk was supplied to 3,300 and 5,263 children attending the Nair Hospital school clinic and the L. T. M. G. Sion Hospital School Clinic 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 Inspection Branch in the Health Programme in 2 Municipal Schools located in the Hospital compound, where 202 children were treated.

779 children were examined by the Department of Preventive and Social Medicine, Topiwala National Medical College, 530 by the Department of Preventive and Social Medicine, L. T. M. G. College, Sion and 557 by the Preventive and Social Medicine, G. S. M. College, Parel.

(7). Immunization

The immunizations work in Schools carried out in Municipal schools were as follows :—

(a) Diphtheria and Tetanus 1st dose	...	53,924
2nd dose	...	49,766
(b) Smallpox	...	1,35,976
(c) B. C. G. Vaccination	...	53,708
(d) T. A. B. C.	...	2,66,597

Immunization work was carried out by Mobile Health Unit also in addition to the abovementioned work.

(8). Emergency Care

First Aid was rendered at the time of sports, Mass drills, scout rallies, Sharadotsav, etc. organized by the Municipal Education Department.

9. Lectures on Health Services for children of school-age, were given by the Medical Officer (Schools) to the students attending D. C. H. Course, Sanitary Inspectors' Course, Post-Certificate Paediatric Nursing Course and D. P. H. Course.

The Mobile Health Unit

The mobile health unit working under the supervision of Dr. D. N. Paj, Honorary Director, Mobile Health Unit and Professor of Preventive and Social Medicine; Seth Gordhandas Sundardas Medical College performed the following activities in the Municipal schools and in the field from 1-1-71 to 31-12-71 as per its stipulated objectives as under :—

(1) Comprehensive Health Care to the Municipal School children.

The Mobile Health Unit assisted the Medical Inspection Branch working under the control of Medical Officers (Schools) in conducting the medical inspection in 240 Municipal Schools 34,997 children from Standard 1st to 3rd were medically screened.

(2) *Control of communicable diseases.*—Immunization procedures against various communicable diseases performed both in the Municipal schools and in the field were as under :—

	In schools.	Immunization In field	Total
Diph. Tetanus			
1st dose	8,876	—	8,876
2nd dose	7,649	—	7,649
Triple—			
1st dose	—	481	481
2nd dose	—	253	253
3rd dose	—	230	230
Booster dose	—	59	59
Polio			
1st dose	—	722	722
2nd dose	—	306	306
3rd dose	—	256	256
Booster dose	—	90	90
Tetanus Toxide	—	41	41
T. A. B. C.	64,531	1,27,226	1,91,757
Cholera	64,531	1,54,613	2,19,144
Small-pox	52,378	2,12,148	2,64,526
	1,97,965	4,96,425	6,94,390

(3). Health Drives and Family Planning Exhibitions

In addition to general health education performed and the mass immunization carried through its Units, 75 Health Drives, 16 Family Planning Exhibitions in the different localities, mills and factories were held.

The Family Planning Fortnight was organized from 16th September 1971 to 30th September 1971 in association with the Family Planning Unit.

Six information-cum-distribution centres with facilities for Vasectomy Operations were conducted in co-operation with the Central and Western Railway authorities. The activities at these centres included lectures by the eminent speakers, film shows, instructions on family planning, distribution of contraceptives and literature thereon.

4. *Training of medical and para-medical personnel.*—Medical interns from Municipal medical colleges were trained in Urban Health Practice.

5. *Any other Medical problem of medical emergency.*—Special efforts for taking comprehensive health care and family planning to slum areas were made during this year.

IV.—MEDICAL RELIEF

Municipal General Hospitals

The Public Health Department conducted six general hospitals in the suburbs and extended suburbs.

Free Dispensaries

New cases treated at the 80 dispensaries and 15 mobile dispensaries were 2710545 as against 23,68,630 in 1970. The total attendance was 10007699 as against 92,93,652 in 1970.

Clinics for women and children were conducted by 3 part-time Lady Doctors at 6 Municipal General dispensaries for two hours thrice a week. New cases treated were 1,678 (1,490 women and 188 children) as against 1,875 in 1970. The total attendance was 16,754. These figures include visits by the Lady Doctors to patients at their homes. At the 34 maternity and child welfare clinics, 2,89,990 new cases (1,93,865 women and 96,125 children) were treated. The total attendance was 14,97,106.

The Municipal Eye Hospital at Kamathipura was in charge of the part-time Superintendent who is assisted by two Resident Assistant Medical Officers in clinical and administrative work. Besides, there are eight honoraries who attend on alternate days.

The total number of new cases treated and the total attendance was 40,728 and 1,46,778 as against 29,230 and 82,724 respectively during the previous year. The number of indoor patients amongst new cases and total attendance was 1,402 and 16,000 respectively.

The Medico-social Unit, at Kherwadi, Bandra, 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

(1) Fire Brigade Head Quarters, Byculla, For removal of cases of maternity and of street accidents (free) and non-infectious medical cases, on payment, within Greater Bombay Limits.

(2) Ambulance Garage, Sane Guruji Marg, for Infectious Diseases cases (free) and dead bodies (on payment) within Greater Bombay.

An ambulance is also attached to each of the undermentioned municipal medical institutions which is made available to public for removal of patients within Greater Bombay Municipal limits at the rate of Rs. 8 for

the first hour and Rs. 4 for each subsequent half-hour or fraction thereof.

Name of the Municipal Medical Institution.	Working hours.
(1) K. B. Bhabha Hospital, Bandra	Round the clock (private calls are attended from 9 a.m. to 5 p.m. only.)
(2) Dr. R. N. Cooper Municipal General Hospital, Juhu.	Round the clock.
(3) K. B. Bhabha Hospital, Kurla	Between 7 a.m. to 3 p.m. only.
(4) Municipal General Hospital, Rajawadi, Chatkopar.	Round the clock.
(5) Shri Harilal Bhagwati Municipal General Hospital, Borivli.	Round the clock.
(6) Municipal Maternity Home Bhandup.	Between 8 a.m. and 4 p.m.
(7) Municipal Maternity Home, Mulund	Round the clock.

Upgraded dispensaries

In recent years there has been considerable overcrowding at the out-patients' department of the Municipal general hospitals, making it difficult for the medical staff of the hospitals to pay adequate attention to each patient. The overcrowding in the outpatients' department is due to the attendance of a large number of patients requiring only dispensary treatment. With a view to relieving the general hospitals of the heavy load of patients, to begin with 13 Municipal General Dispensaries were with the approval of the Corporation by their Resolution No. 286, dated the 8th May 1969, upgraded by providing thereat facilities for screening and routine laboratory investigations.

V.—HEALTH PROPAGANDA AND EDUCATION

The health propaganda and education were carried out through the Public Relation Department.

VI.—MUNICIPAL LABORATORY

Shri P. B. Varde continued to look after the work of the Municipal Analyst upto 18th January 1971 and from 19th January 1971 Shri R. S. Chatim was appointed as Municipal Analyst. Sarvashri P. S. Joshi and R. M. Balvalli were the additional Public Analysts, under the Prevention of Food Adulteration Act, 1954.

The Municipal Analyst continued to be a member of the following Committees :—

- (1) Pesticide Sub-Committee of the Indian Standards Institution.
- (2) Water Sectional Committee of the Indian Standards Institution.
- (3) Food Hygiene Sampling and Analysis Sectional Committee of the Indian Standards Institution.
- (4) Air Pollution Sub-Committee of the Indian Standards Institution.
- (5) Panel for microbiological tests of the Water Sectional Committee.
- (6) Composition of the Water for Industrial Purposes Sub-Committee.
- (7) Composition of Processed Cereals and Pulses, Sectional Committee.
- (8) Chemical Standards Sectional Committee.
- (9) Committee for the detection of Argemone Oil in Foodstuffs (under Directorate General of Health Services).

The Laboratory assisted to the several departments of the Municipal Corporation in the examination of samples of various articles sent by them but the important items examined in the Laboratory in large numbers were samples of foods of all kinds under the Prevention of Food Adulteration Act, 1954, and water samples collected from Greater Bombay. In addition to this, samples of foodstuffs were also received from the Food and Drug Administration, Maharashtra State, for Analysis under the Prevention of Food Adulteration Act, 1954. The mode of payment for this additional work is under the consideration of the Administration.

The Laboratory received 35,196 samples as against 34,688 in the preceding year. Categorywise, they arrange themselves into the following groups :—

I.—Chemical Examination

1. Food (i) P. F. A. Act.	...	8,787
(ii) other than P. F. A. Act.	...	2,490
2. Water samples	...	1,289

Chemicals

3. General Stores	...	327
4. Hospitals	...	184
5. Miscellaneous	...	366
		13,443

II.—Bacteriological Examination

1. Water (i) from city and suburbs	...	19,566
(ii) From Bombay Port Trust Area,	...	507
2. Disinfectants	...	26
3. Foods	...	1,654
		21,753

III.—Clinical Examination

1. Urine
2. Blood-for general examination
3. Stools
4. Semen

The water sampling programme was continued as usual. The sampling was done both in the morning and evening to enable collect samples from all over Greater Bombay.

The Municipal Analyst attended Courts in the Greater Bombay on several occasions to give evidence in 11 cases under the Prevention of Food Adulteration Act.

I.—Chemical

1. Samples of food-stuffs:—Examined chemically were 11,788 of these, 8787 were examined under the Prevention of Food Adulteration Act, 1954.

2. Of the 1,289 samples of water examined, 97 of well water and 113 from other sources were found unfit for potable purposes.

3. As many as 355 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 the different departments and from members of the public.

II.—Bacteriological

1. Of the 19,566 samples of water from Greater Bombay examined, 235 of well water and 2,142 from other sources were found unfit for potable purposes.

From the Bombay Port Trust area, 507 samples were collected, None of the samples was found unfit for potable purposes.

2. 26 samples of disinfectants were examined to determine the Rideal Walker Co-efficient.

3. Of the 1654 samples of food-stuffs examined, 116 were found unfit for human consumption.

III.—Clinical

No sample of urine was received from the Municipal institutions or from private parties. Not a single sample of miscellaneous nature such as stools, semen, was examined.

VII.—KASTURBA HOSPITAL FOR INFECTIOUS DISEASES

Dr. R. S. Deshpande, M.B.B.S., D.P.H., Medical Officer continued to be in full charge of the administrative work of the Medical Superintendent in addition to his own. With a view to upgrading this Institution and putting Medical relief work on a better footing, the Honorary Physicians and Paediatricians appointed in 1964 continued to visit this hospital twice a week. One additional post of Honorary Paediatrician was created to fulfil the UNICEF's condition for the establishment of a Paediatric teaching centre in communicable diseases.

- | | |
|--------------------------|---|
| (1) Dr. V. V. Shah, | ... M.D. (B.M.), M.R.C.P.E.F.C. C.P. (U.S.A.) M.R.C.P. F.I.C.A., F.R.C.S. |
| (2) Dr. L. R. Patel, | ... M.D., M.R.C.P., F.C.P.S. |
| (3) Dr. A. F. G. Jwala, | ... M.D., F.C.P.S. |
| (4) Dr. P. E. Bharucha, | ... M.D. (Lond.), D.C.H. (Lond.) (Hon. Paediatrician). |
| (5) Dr. N. S. Tibriwala, | ... M.D., D.C.H. (Hon. Paediatrician). |

The following Assistant Physicians (part-time) who attend daily continued to help the Honorary Physicians.

- | | |
|---------------------------|--|
| (1) Dr. S. A. Kamat, | ... M.D. |
| (2) Dr. V. S. Aigaoonkar, | ... 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 15th December 1969 as part-time Assistant Paediatrician). |

Besides, the following consulting Honorary staff was attached to the Hospital.

- | | |
|---|--|
| (1) Dr. L. H. Hiranandani, | ... F.R.C.S., D.L.R.O., F.C.P.S., Honorary E.N.T. Surgeon. |
| (2) Dr. J. V. Desai, | ... M.S., D.L.O., (Londn) Honorary E.N.T. Surgeon. |
| (3) Dr. V. N. Purandare, | ... M.D., F.R.C.S., Honorary Obstetrician and Gynaecologist. |
| (4) Dr. K. V. Chaubal, | ... M.S., F.R.C.S. (Eng.), D.M.C.H., Orth. (Liverpool) Honorary Orthopaedic Surgeon. |
| (5) Dr. C. A. Talwalkar, | ... M.S., Honorary Orthopaedic Surgeon. |
| (6) Dr. S. C. Desai, | ... M.D., Honorary Dermatologist and Venereologist. |
| (7) Dr. D. G. Mody, | ... M.B.B.S., D.O., D.O.M.S., Honorary Ophthalmic Surgeon. |
| (8) Dr. N. S. Vavia, | ... M.D., Honorary Psychiatrist. |
| (9) Dr. R. G. Ginde, | ... M.S., F.I.C.S., F.A.C.S. Neuro Surgeon. |
| (10) Dr. Janki Mehta, | ... M.B., B.S., D.A., Honorary Anaesthetist. |
| (11) Dr. R. B. Raut, | ... L.D.Sc., Honorary Dental Surgeon. |
| (12) Dr. S. C. Sethi, M.D., F.R.C.P. (Lond.), F.A.A.P., F.A.Sc., F.C.P.S. D.C.H., | Honorary Consultant, Paediatrician (without honorarium from 16th December 1971.) |
| (13) Dr. M. M. Mehta, | ... M.B., B.S., D.M.R.E., Honorary Radiologist. |

As the activities of X-Ray Department increased one post of Honorary Part-time Radiologist was created and as a temporary arrangement, Dr. R. S. Pradhan, Honorary Radiologist of B. Y. L. Nair Hospital looked after the work of Radiologist of this Hospital. As he proceeded on leave from 1st September 1971, Dr. G. R. Jankharia, M.B., B.S., D.M.R.E. (Bom.), D.M.R.D. (Lond.), F.R.R. (Eng.), was appointed as Honorary Radiologist from 1st December 1971.

(1) Medical Record Department

The Medical Record Department was established for the first time at this Hospital from 1st October 1970. The record system is being planned as per the Voller system with a view to rendering quick medical relief to the patients and helping the medical staff and post-graduate students in carrying out the research work. All the discharged case papers are preserved properly and made available to the medical staff when required. All the discharged case papers are coded disease-wise. Diagnosis sheets are prepared so as to furnish the statistical data to the medical staff, post-graduate students or Municipal authorities, etc.

(2) Infectious Hepatitis Out-patients Department

For treating mild cases of Infectious Hepatitis not requiring hospitalization, a small O. P. D. was established from 4th February 1971.

(3) Portable X-ray Machine.

A portable X-ray machine was purchased on 24th March 1971.

(4) The 14 posts of Housemen

The University of Bombay recognised 14 posts of housemen, 10 in general medicine and 4 in Paediatric medicine for M. D. degree examination. They were created by holding in abeyance 5 posts of Junior Medical Assistants and 9 posts of Medical Assistants, to enable them to keep terms for Post-graduate qualifications.

Initially 3 posts of Housemen (2 Medicine, 1 Paediatrics) were filled in from 1st February 1971 to 31st July 1971 and 5 posts (3 in medicine and 2 in Paediatrics) from 1st July 1971 to 29th February 1972.

(5) Operation Theatre

At present for major operations *viz.*, intestinal perforation, etc., are required to be transferred to Nair and K. E. M. Hospitals. A well-equipped new Operation Theatre is now being kept ready and will start functioning soon. Dr. J. S. Shid from the Formerly Primary Consulting Surgeon at Kasturba Hospital was appointed from 1st September 1971 as Honorary Surgeon.

Admissions

3,749 patients suffering from various acute Infectious and communicable diseases except Tuberculosis and Leprosy were admitted to the Hospital as against 33,673 during the previous year. They included 1,179 cases of Enteric Fever, 1,421 of Diphtheria, 1,700 of Infectious Hepatitis.

The daily average number of patients was 650. The fatality rate in the total admission was 2.7 per cent.

Small-pox.—There was no case of small pox.

Diphtheria.—Of the total 5,612 cases admitted, 1,421 were positive for diphtheria and 4,191 were found negative, on laboratory investigations. 160 cases proved fatal of which 73 were those admitted in moribund condition and died within 48 hours of admission. The case fatality rate was 7 per cent. The operation of Tracheotomy was required to be performed at this Hospital in 10 cases of Diphtheria with Laryngeal Obstruction, 6 of whom succumbed to the disease. Of the 4 cases, transferred to this hospital by general hospitals after tracheotomy was performed, 2 were discharged cured and 2 transferred back to General hospitals. Cases admitted were from all parts of Greater Bombay predominantly from Byculla, Parel, Lalbaug, Sewri, Matunga, Mahim, Sion, and H and K Wards.

Broad spectrum antibiotic *viz.*, Erythromycin along with steroids particularly hydrocortisone and dexamethasone were administered in secondarily 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 which is mainly due to Myocarditis.

The highest incidence of the disease was in the age-group of 2-5 years. The youngest patient admitted was a one month old Female Child who expired. The eldest patient was 63 years old female who was discharged cured.

At the immunisation centre at the Hospital, 6,831 persons were immunized against Diphtheria, 8,624 against Enteric Fever, 8,166 against Cholera and 275 primary and 20,875 re-vaccinations against Smallpox.

Enteric Fever.—Admissions numbered 1,179 as against 2,129 during the previous year. All these cases were confirmed by isolation of organism from clot culture and or Widal Test in rising titre. There were 921 cases of Typhoid and 258 of paratyphoid fever.

August 1971 was the peak month for admissions.

Meningeal symptoms developed in 1 case and 26 cases had a relapse. 18 cases in which signs of intestinal perforation and acute abdomen were detected were transferred to General Hospitals for further treatment.

Five cases proved fatal giving a case fatality rate of 0.4 per cent.

Incidence was highest in the age-group of 21-30 years. The youngest patient admitted was a male child of 1 year and the eldest was a 72 years old male. Both were discharged cured.

Cholera and Plague.—There was no case of Cholera and Plague.

C. S. Fever.—All the 4 cases admitted to the hospital were discharged cured.

Anterior Poliomyelitis.—Of the 431 cases admitted, 28 were of bulbar variety, 394 of spinal variety and 9 of spino-bulbar variety. Of the 40 cases proved fatal, 9 belonged to Spinal variety, 25 to bulbar variety and 6 to Spinobulbar variety. 28 deaths occurred within 48 hours of admission among those that were admitted in a moribund condition.

Whooping Cough.—Of the 87 cases admitted, 2 died of Encephalitis. Age incidence varied from 4 to 5 years. Male children were predominant.

Infectious Hepatitis.—Out of 1,700 cases, 64 proved fatal. All deaths were due to hepatic coma. 19 deaths were within 48 hours of admission among those that were admitted in a moribund condition.

Other diseases.—Of the 808 cases of measles, 758 of Mumps and 2,485 of chickenpox admitted, 68 of measles and 9 of chickenpox proved fatal. Majority of the cases were from children's homes, convents, etc. The deaths were generally due to the complications of Broncho-Pneumonia and Encephalitis.

Research work.—Periodical 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) A clinical trial in the treatment of Enteric Fever with a new drug "Trimothoprin Cantanol" financed by Messrs. Burroughs Wellcome and Co. Ltd., was continued from July 1971 to 5th December 1971.

Paying beds.—The paying beds started in November, 1966 were continued to be taken advantage of in large numbers by the members of the public.

Clinical Laboratory.—The investigations carried out in the laboratory numbered 83,653 and blood transfusions were 41.

The Welfare Centre.—The welfare centre for the labour staff carried out its activities satisfactorily.

Teaching.—Instructions in Infectious Diseases were given to 736 students including Undergraduates, of M. B., B. S., G. F. A. M., B.A.M.S., Ayurvedic, Homoeopathic and 75 post-graduate students preparing for the examination of Diploma in Child Health and Diploma in Public Health.

Student Nurses, Nurses, Health Visitors, etc., from different institutions in Greater Bombay 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 and Hurkisondas Hospital, 442 interns were given training in Infectious Diseases. Members of the Medical staff took advantage of medical library and the recreation facilities provided at the Hospital.

Blood Transfusion.—Instead of supplying donors, sealed bottles containing blood of different groups supplied by the Bombay City Red Cross Blood Transfusion Service were stored in the Laboratory so that blood was available for transfusion any time.

Joint Council Meeting of Nursing Staff.—Joint council for Nursing staff consisting of 11 members (5 from administration and 5 from Nursing staff and Labour Officer as an ex-Officio under the rules, to discuss general aspects and principles governing condition of services, etc., was formed. One meeting was held on 22nd November 1971.

Nurses Welfare Fund.—Subscription from the nursing staff and donations were Nil. The expenditure was Rs. 38. The balance to the credit of the fund at the end of the year was Rs. 2,454.88.

Expenditure.—The total expenditure during the year was Rs. 48,68,895 as against Rs. 63,84,834 during the previous year.

VIII.—VACCINATION

There was no small pox in the Greater Bombay. The Greater Bombay was declared to be an area of compulsory protection from Smallpox throughout the year by the Government of Maharashtra by their notification published in the Gazette from time to time. The vaccination drive was continued on mass scale. There were in all 130 vaccinators including 100 appointed on temporary basis. These additional 100 vaccinators worked under the supervision and control of 10 Supervising Vaccinators. They carried out mass vaccination by arranging temporary centres at the big establishments, such as mills, factories, schools, colleges, etc. There was excellent response to the scheme.

During the year 16,38,050 persons were vaccinated against Small-pox. Of these, 1,94,920 were primary and 14,43,130 re-vaccinations. Among the children, primarily vaccinated, 1,65,462 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 were verified on the 8th day of vaccination operation. 5 certificates of postponement of vaccination were issued on the ground of ill health.

Ten cases of Tetanus, following primary vaccinations due to complication were admitted to the Municipal Hospital for treatment. Of these, 6 proved fatal. Out of these 10 cases, 2 were from outside Greater Bombay, one case of Generalised vaccinia following primary vaccination was reported. The patient however recovered. 196 medical students and 94 candidates undergoing vaccination course were imparted theoretical instructions and practical training in vaccination.

5,591 pilgrims who proceeded to Haj were vaccinated. They were issued certificates in international forms.

DR. D. V. PARULEKAR,
M.B., B.S., D.P.H., M.P.H. (U.S.A.)
Executive Health Officer.

SUMMARY OF STATISTICS FOR THE YEAR 1971

		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.	...	45,254	11,630	4,458	13,652
(3) Population	} Census of 1971	30,67,321	21,68,160	7,33,065	59,68,546
	} Mid-year estimated	30,73,000	22,12,000	7,48,000	60,33,000
(4) Total live births registered	...	78,941	59,610	25,742	1,64,293
(5) Birth rate per 1,000 population.	} Census of 1971	25.7	27.5	35.1	27.5
	} Mid-year estimated	25.7	26.9	34.4	27.2
(6) Total deaths	...	32,363	18,040	6,843	57,245
(7) Death rate per 1,000 population	} Census of 1971	10.6	8.3	9.3	9.6
	} Mid-year estimated	10.5	8.2	9.1	9.5
(8) Total deaths among infants (under 1 year)	...	6,627	4,529	1,817	12,973
(9) Infant deaths per 1,000 live births	...	83.9	75.9	70.6	79.0
(10) Maternal deaths	...	49	29	12	90
(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	0.5
(13) Still-births	...	2,603	2,211	846	5,660
(14) Plague	Deaths	...	...	...	...
(15) Cholera	Deaths	...	...	...	...
(16) Small-pox	} Deaths	Nil	Nil	Nil	Nil
	} Death-rate	0.0	...	...	0.0
(17) Influenza	} Deaths	...	...	...	...
	} Death-rate	...	...	...	...
(18) Tuberculosis	} Deaths	4,243	1,557	539	6,339
	} Death-rate	0.8	0.2	0.1	1.1
(19) Acute Anterior Poliomyelitis	} Deaths	27	15	17	59
	} Death-rate	0.0	0.0	0.0	0.0
(20) Diphtheria	} Deaths	59	27	11	97
	} Death-rate	0.0	0.0	0.0	0.0
(21) Typhoid	} Deaths	30	13	4	47
	} Death-rate	0.0	0.0	0.0	0.0

TABLE I
METEOROLOGICAL DATA (Government Observatory, Colaba) LATITUDE 18°-54' NORTH LONGITUDE 72°-49' EAST.

Months 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 L.S.T.	Mean maximum temperature	Departure from normal	Highest in the month	Mean Minimum temperature	Departure from normal	Lowest in month	At 0830 hours L.S.T.	At 1730 hours L.S.T.	At 0830 hours L.S.T.	At 1730 hours L.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 L.S.T.	At 1730 hours L.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 52E	N 39W	6.4	28.4	-0.7	33.4	18.6	-0.8	15.6	1013.3	1010.3	74	59	0.0	-4.1	...	...	...	...	...
February	N 53E	N 31W	6.5	28.6	-0.9	37.1	19.5	-0.8	15.7	1012.1	1009.1	77	61	0.8	-1.2	0.8	28	...	...	1
March	N 62E	N 47W	5.7	32.1	+1.1	39.7	22.5	-0.2	17.6	1012.1	1008.9	69	60	Trace	-1.5	Trace	20	...	...	...
April	S 16E	N 66W	6.3	32.8	+0.5	33.8	25.6	+0.1	23.2	1009.2	1005.8	76	68	0.0	-1.5	...	...	...	...	...
May	N 61W	N 54W	5.7	33.5	+0.2	34.5	26.9	0.0	23.7	1008.1	1005.1	71	66	60.4	+42.1	45.1	31	0.2	21	3
June	S 74W	S 77W	21.1	30.8	-1.1	32.7	25.7	-0.6	23.1	1004.2	1002.5	84	81	1094.3	+629.5	291.2	24	0.2	9, 11, 30	23
July	N 84W	W	18.9	30.1	+0.3	31.6	25.4	+0.3	23.6	1004.3	1002.8	86	79	314.6	-298.8	95.6	16	0.1	5, 25	29
August	N 76W	N 74W	13.8	29.2	-0.3	30.7	24.5	-0.3	23.1	1005.8	1004.0	88	83	604.2	+275.3	117.9	26	0.2	17	25
September	N 45W	N 63W	10.3	30.0	-0.1	32.3	24.9	+0.2	22.8	1007.5	1005.3	86	79	346.8	+60.8	87.2	29	0.3	12	16
October	S 88E	N 43W	6.6	30.8	-1.1	35.4	23.8	-0.8	21.6	1011.8	1008.9	85	73	22.7	-41.8	18.8	23	0.4	22	4
November	N 88E	N 27W	10.0	32.2	-0.1	34.6	21.5	-1.3	20.1	1015.5	1012.1	74	62	0.0	-17.5	...	...	...	...	...
December	N 85E	N 26W	8.9	30.9	...	33.6	19.8	...	17.4	1013.9	1010.8	73	61	0.0	-2.3	...	...	...	...	...

Total rain-fall during the year 2443.8 mms.

Departure from normal -639.0 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. Year 1970.	WIND.		TEMPERATURE. (°C)							MEAN BAROMETRIC PRESSURE (IN MILLIBARS) STATION LEVEL CORRECTED TO 285° ABSOLUTE		MEAN RELATIVE HUMIDITY (in %.)		RAINFALL. (mm.)						
	Mean Direction.		Mean Wind Speed in Kms. per hour at 08-30 hrs. I.S.T.	Mean maximum temper- ature.	Depar- ture from normal.	Highest in the month.	Mean Mini- mum temper- ature	Depar- ture 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)	Depar- ture 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 63 E	N 52 W	4.6	30.1	-0.5	34.3	15.9	-0.4	12.6	1011.7	1003.9	65	48	0.0	-0.1	...	...	...	...	...
February	N 58 E	N 58 W	3.9	30.5	-1.1	37.2	17.5	+0.6	13.2	1010.5	1007.4	67	49	0.0	-0.8	...	...	...	...	...
March	N 59 E	N 56 W	5.3	33.8	+1.0	39.6	20.8	+0.6	14.8	1010.5	1007.2	53	46	0.0	-0.1	...	...	...	...	...
April	SE	N 82 W	5.8	33.3	-0.0	36.5	24.8	+1.0	21.5	1007.5	1004.1	70	64	0.0	-0.3	...	...	...	...	...
May	N 66 W	N 82 W	7.4	33.4	+0.2	35.4	26.4	+0.2	23.5	1006.5	1003.3	67	64	87.9	+67.5	71.5	31	0.3	29	9
June	S 6 W	S 63 W	17.9	30.5	-1.2	32.0	25.4	-0.5	22.5	1002.6	1000.8	82	80	1037.1	+446.0	244.6	24	0.2	14	24
July	S 72 W	S 73 W	17.0	29.9	+0.3	31.0	24.8	0.0	22.6	1002.6	1001.4	86	80	384.9	-562.5	94.3	16	0.6	25	28
August	S 68 W	S 78 W	13.4	28.5	-0.6	30.6	24.3	-0.1	22.5	1004.2	1002.2	88	83	809.8	+190.8	189.1	29	0.1	23	28
September	N 53 W	N 88 W	7.8	30.2	+0.3	35.0	24.4	+0.5	22.5	1005.9	1003.6	86	81	540.1	+8.8	112.8	29	1.2	20	17
October	N 86 E	N 67 W	5.5	31.1	-1.3	35.0	22.4	-0.5	18.3	1010.3	1007.2	76	69	37.4	-65.6	27.4	23	1.4	22	4
November	N 80 E	N 58 E	7.8	33.1	0.0	34.4	18.4	-1.4	15.2	1013.9	1010.6	54	50	0.0	-6.2	...	...	...	...	...
December	N 79 E	N 47 W	7.3	31.9	-0.2	33.4	17.0	-0.7	14.2	1012.2	1009.3	56	48	0.0	-0.8	...	...	...	...	...

Total rain-fall during the year.....2697.2 mms.

Departure from normal.....+76.7 mms.

Rainy day:—A day on which 0.1 m.m. or more of rainfall is recorded.

TABLE 3
VITAL STATISTICS (1900 TO 1971)

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	26,329	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—								
1961	1,16,337	28.2	43,117	10.4	11,150	95.8	221	1.9
1962	1,21,305	28.2	39,551	9.2	10,195	84.0	233	1.9
1963	1,31,831	29.8	40,650	9.2	10,677	80.9	147	1.1
1964	1,32,592	29.2	45,161	9.9	11,355	85.6	133	1.0
1965	1,42,781	30.7	54,223	11.7	13,739	96.2	163	1.1
1966	1,47,986	30.9	50,492	10.6	12,660	85.5	159	1.1
1967	1,53,230	31.3	56,701	11.6	14,118	92.1	115	0.7
1968	1,56,880	29.2	50,439	9.4	12,602	80.3	130	0.8
1969	1,59,571	28.8	54,831	9.9	13,506	84.6	102	0.6
1970	1,61,312	28.3	55,898	9.8	12,904	80.6	89	0.6
1971	1,64,293	27.2	57,245	9.5	12,973	79.0	90	0.5

TABLE 4
GREATER BOMBAY
BIRTH BY MONTHS 1970-1971

Year	MONTHS.												Total
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
1970	10,797	9,644	9,914	11,632	9,637	13,256	14,267	13,611	15,541	14,576	17,255	21,152	1,61,312
1971	10,210	10,205	8,812	10,655	11,790	12,194	14,866	12,949	14,841	14,690	19,027	24,012	1,64,293

TABLE 5
PERCENTAGE TO THE TOTAL MORTALITY BY THE AGE PERIODS IN 1969, 1970 AND 1971.

Age period.	1969		1970		1971			Percentage to total mortality
	Deaths	Percentage to total mortality.	Deaths	Percentage to total mortality.	Males.	Females.	Persons.	
Under one year ...	13,506	24.6	12,994	23.2	6,929	6,044	12,973	22.7
1 to 4 years ...	6,384	11.6	6,350	11.4	3,033	3,356	6,389	11.2
5 to 14 years ...	2,242	4.1	2,153	3.9	1,219	1,048	2,267	3.9
15 to 24 years ...	2,990	5.5	2,966	5.3	1,804	1,200	3,004	5.2
25 to 44 years ...	8,178	14.9	8,473	15.2	5,981	2,756	8,737	15.3
45 to 64 years ...	10,542	19.2	11,067	19.8	8,289	3,086	11,375	19.9
65 to 74 years ...	5,283	9.6	5,487	9.8	3,563	2,191	5,759	10.1
75 and over	5,706	10.5	6,408	11.4	3,122	3,619	6,741	11.7
Age unspecified	...	...	...	...	...	...	...	...
Total	54,831	100.00	55,898	100.00	33,945	23,300	57,245	100.00

TABLE 6.

Statement showing the No. of Live Births in each age group of Mothers in each order of Live Births in Greater Bombay

Age of Mother	1			2			3			4			5			6			7		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Below 15 ...	18	16	34	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15-19 ...	4,488	3,801	8,289	645	293	943	211	75	286	76	32	108	21	11	32	1	9	10	...	2	2
20-24 ...	9,563	9,263	18,826	8,192	9,939	18,131	5,623	5,423	11,048	2,233	1,732	3,965	682	237	939	293	538	831	24	83	107
25-29 ...	7,734	6,977	14,711	9,080	8,699	17,779	7,222	7,728	14,950	4,179	3,833	8,012	2,128	1,814	3,942	838	782	1,620	165	187	352
30-34 ...	3,227	2,815	6,042	2,602	2,096	4,698	2,842	2,263	5,105	3,283	2,967	6,250	2,375	1,913	4,288	1,326	672	1,998	497	217	714
35-39 ...	910	546	1,536	515	244	759	575	343	918	915	332	1,247	914	350	1,264	271	431	702	421	192	613
40-44 ...	100	46	146	60	29	89	103	55	158	105	32	137	69	32	101	47	58	105	54	52	106
45 and over Information not available. ...	20	8	28	8	6	14	8	4	12	17	4	21	9	6	15	1	7	8	5	6	11
Total...	25,198	23,501	48,699	21,150	21,344	42,484	16,612	15,918	32,530	10,836	8,953	19,789	6,211	4,389	10,600	2,792	2,499	5,281	1,170	740	1,910

8			9			10			11			12			Higher Order Birth*	Information not available			Total.					
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19	16	35	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	4	6	5,444	4,232	9,676	
8	20	28	...	3	3	...	...	...	...	...	...	...	...	...	...	...	...	60	49	109	26,673	27,309	53,987	
101	44	145	10	5	15	5	3	8	...	...	...	2	...	2	1	...	...	1	30	26	56	31,495	30,038	61,593
160	132	312	68	35	103	21	16	37	6	3	9	7	5	12	13th 2	13th 1	...	3	32	31	63	16,463	13,166	29,634
194	61	255	80	52	132	38	18	56	11	5	16	4	8	12	13th 1	13th 2	...	3	8	11	19	4,937	2,595	7,532
54	32	86	32	16	48	22	6	28	6	3	9	2	3	5	2 13th 1 14th 3	4 13th 2 14th 6	...	9	3	12	15	660	382	1,042
5	5	10	7	3	10	2	2	4	...	2	2	...	...	...	13th 1	...	...	1	2	3	5	85	56	141
2	...	2	1	...	1	1	1	2	...	...	...	...	...	...	...	...	...	...	177	180	357	364	289	653
544	294	838	198	114	312	89	46	135	23	19	36	15	17	32	8	9	...	17	314	316	630	86,150	78,143	1,64,293

TABLE 7
Deaths by Ages and Months
Age period

Age period	Under 1 month,	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 ...	108	63	58	39	32	17	15	90	53	19	97	66	37	33	22	35	29	19	21	14	23	960
February ...	138	72	41	45	31	16	30	80	53	17	83	69	50	36	24	28	25	30	19	15	29	934
March ...	158	44	35	37	17	20	21	71	44	18	74	58	45	40	40	39	48	30	29	19	22	909
April ...	157	45	32	27	20	27	37	80	34	21	72	50	50	59	25	65	43	30	32	23	20	979
May ...	175	62	47	33	31	24	33	73	44	35	74	35	39	45	41	53	35	45	34	24	24	997
June ...	205	54	26	35	21	25	24	88	61	31	93	53	31	33	32	53	34	31	32	36	23	1,021
July ...	221	82	60	48	57	33	52	113	69	21	105	73	60	52	39	54	48	48	30	42	23	1,310
August ...	106	64	45	59	31	29	25	123	85	33	116	89	50	49	29	38	22	43	39	34	22	1,233
September ...	210	75	57	62	35	35	32	143	83	15	100	60	46	27	30	28	22	23	34	30	31	1,180
October ...	177	65	63	44	41	37	21	129	72	31	79	63	59	34	25	25	15	24	21	24	14	1,064
November ...	170	60	59	64	35	39	37	117	116	42	112	67	37	30	24	24	17	26	22	20	23	1,161
December ...	179	64	71	61	31	34	33	161	119	46	138	65	63	44	32	40	26	27	16	27	18	1,295
Total ...	2,124	770	555	554	363	337	360	1,278	831	333	1,145	748	567	482	353	493	355	375	319	303	272	12,973

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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 unspeci- fied	Total All ages.	Average of previous five years (1965-69).
					25-44 years.	45-64 years.					
January	890	585	191	227	636	905	444	548	...	4427	4190
February	934	648	207	212	727	1014	498	609	...	4849	4174
March	909	674	194	242	684	966	489	546	...	4704	4309
April	979	583	203	246	727	818	434	451	...	4418	4401
May	997	547	200	284	746	940	435	498	...	4647	4442
June	1021	483	194	247	671	868	429	472	...	4385	4213
July	1310	575	186	212	715	932	466	575	...	5001	4919
August	1233	571	179	251	717	924	516	537	...	4928	4637
September	1180	491	177	258	823	1042	492	631	...	5094	4675
October	1054	345	180	242	688	907	473	556	...	4455	4528
November	1161	403	161	278	760	925	519	633	...	4345	4251
December	1295	481	195	275	843	1134	564	635	...	5472	4683
Total	1293	6389	2267	3004	8737	11375	5759	6741	...	57.45	53672

TABLE 9
DEATHS AND DEATH RATES FROM EPIDEMIC AND PRINCIPAL CAUSES

Causes of Death	Average of years (1966-70)		1970		1971	
	Deaths	Death-rate	Deaths	Death-rate	Deaths	Death-rate
<i>Principal Epidemic Diseases</i>						
Small-pox	...	243	0.0	2	0.0	...
Measles	...	243	0.0	242	0.0	194
Plague
Enteric Fever	...	59	0.0	75	0.0	47
Malarial Fever
Influenza	...	2	0.0	...	...	...
Cholera
Dysentery	...	330	0.1	493	0.1	403
Diphtheria	...	115	0.0	111	0.0	97
<i>Other Principal Diseases</i>						
Tuberculosis	...	5,352	1.0	6,173	1.1	6,339
Meningococcal Infection	2	0.0	...
Diseases of Nervous System	...	1,545	0.3	1,607	0.3	1,867
Diseases of Respiratory System	...	9,044	1.7	8,966	1.6	10,730
Diarrhoea and Enteritis	...	3,534	0.7	3,647	0.6	3,737
Puerperal State	...	119	0.0	89	0.0	74
Congenital Debility and Diseases of early Infancy.	...	5,803	1.1	5,422	0.9	6,301
Senility without mention of Psychosis	...	3,714	0.7	3,908	0.7	2,819
Violence	...	3,228	0.6	3,416	0.6	3,753
Other Causes	...	20,324	3.9	21,743	3.8	20,884
Total	...	53,672	10.2	55,893	9.8	57,245

TABLE-10
DEATHS BY MONTHS—1970-1971

Period.	MONTHS.												Total.
	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	
1970	4,291	3,928	3,985	4,305	4,419	4,471	5,338	4,526	5,112	4,267	5,137	5,559	55,658
1971	4,427	4,839	4,704	4,438	4,647	4,355	5,101	4,928	5,094	4,455	4,845	5,472	57,245

TABLE 12.

Deaths among infants from Principal Causes by Age-periods.

Age periods	Small-pox	Measles	Malarial Fever	Diarrhoea and Enteritis	Dysentery	Congenital malformation and diseases of early infancy	Diseases of respiratory system	Convulsions	Poliomyelitis	Other causes	All causes	Percentage to the total of infant deaths
Upto 7 days	59	2	3,378	580	32	...	1,052	5,113	32.4
1 to 4 weeks	332	6	1,026	535	4	3	526	2,432	18.7
Total under 4 weeks	391	8	4,406	1,115	36	3	1,578	7,545	58.8
4 weeks to 6 months...	...	19	...	870	29	764	1,356	5	6	316	3,305	25.4
6 to 12 months	19	376	24	159	673	2	16	854	2,123	16.3
Total	38	1,637	61	5,267	3,144	43	25	2,758	12,973	100.0

TABLE 13

Infant Mortality from Principal Causes (1965-1971)

Causes of death	1966	1967	1968	1969	1970	1966 to 1970 (A)	1971 (B)	Difference between (A) & (B)
Poliomyelitis	...	23	6	36	8	8	16	25 + 9
Small-pox	...	31	174	8	4	...	43	...
Measles	...	39	137	22	33	48	56	38 - 18
Malarial-Fever
Diarrhoea and Enteritis	...	1,656	1,639	1,560	1,702	1,705	1,652	1,637 - 15
Dysentery	...	31	48	55	48	71	50	61 + 11
Congenital malformation and diseases of early infancy	...	5,317	5,225	5,188	5,380	5,190	5,260	5,267 + 7
Diseases of respiratory system	...	3,076	4,025	3,073	3,317	3,110	3,324	3,144 - 180
Convulsions	...	30	24	48	51	42	39	43 + 4
All causes	...	12,660	14,118	12,602	13,506	12,994	13,176	12,973 - 203

TABLE 14

Neonatal Death-Rates (1962-1971).

Year	Birth	Neonatal death	Rate	
1962	...	1,21,305	5,167	42.6
1963	...	1,3,831	5,788	43.9
1964	...	1,32,592	6,050	45.6
1965	...	1,4,781	6,40	47.2
1966	...	1,47,986	7,066	47.7
1967	...	1,53,230	7,195	46.9
1968	...	1,56,880	7,029	44.8
1969	...	1,59,571	7,521	47.1
1970	...	1,61,312	7,483	46.4
1971	...	1,64,293	7,545	45.9

TABLE 15

Infant Deaths and other Deaths, 1971.

Age Period	January	February	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Under one year.	830	534	909	979	977	1,021	1,310	1,23	11.0	1.04	1,161	1,295	12,973
One year and ... above.	3,537	3,915	3,795	3,457	3,650	3,354	3,591	3,65	3,14	3,391	3,384	4,177	44,272

TABLE 16
CASES OF NOTIFIABLE DISEASES REPORTED IN 1971.

Wards	Cholera	Small-pox	Plague	Enteric Fever	Diphtheria	Typhus	Puerperal Fever	Tuberculosis	Leprosy	Relapsing Fever	Influenza	Spinal Fever	Acute interior Polio-myelitis	Virus encephalitis	Scarlet Fever	Infective Hepatitis	Total
A	49	51	...	...	234	...	...	...	...	6	2	...	51	393
B	105	75	...	...	234	...	...	...	...	10	1	...	98	523
C	46	100	...	...	296	...	...	...	...	3	1	...	73	519
D	93	101	...	...	207	...	...	...	1	20	1	...	92	515
E	373	332	...	...	130	...	...	...	1	80	2	...	464	1,382
F	226	216	...	...	845	22	...	...	1	60	1	...	275	1,646
G	265	179	...	...	407	...	...	...	1	52	1	...	258	1,163
H	45	97	...	...	156	...	...	...	...	50	1	...	77	426
K	44	81	...	...	101	...	...	...	...	55	2	...	93	376
L	15	55	...	...	25	...	...	...	...	18	...	...	68	181
M	26	43	...	...	74	...	...	...	...	10	...	...	61	214
N	50	86	...	...	10	...	...	...	...	35	...	...	83	264
P	17	65	...	...	191	...	...	...	...	33	...	...	39	345
R	1	32	...	...	122	...	...	...	...	17	...	...	23	195
T	4	15	...	...	18	...	...	...	...	9	...	...	22	68
Total	1,359	1,528	...	...	3,050	22	...	...	4	458	12	...	1,777	8,210

TABLE 17
REPORTED DIPHTHERIA CASES BY MONTHS IN 1971

Disease	MONTHS												Total
	Jan.	Feb.	Mar.	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Diphtheria	168	143	154	119	95	111	171	110	87	90	137	143	1,528

TABLE 18
REPORTED CASES OF ENTERIC FEVER BY MONTHS IN 1971

Disease	MONTHS												Total
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Enteric Fever	104	61	42	93	105	128	152	282	135	83	94	80	1,359

TABLE 19
TUBERCULOSIS—DEATH-RATE

Period	Annual Death-rate		
	Pulmonary	Other forms	All forms
1966-1970 (Average).	0.9	0.1	1.0
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
1971	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
1970	5,490	683	6,173	4,307	1,866	1.1
1961	5,673	666	6,339	4,344	1,995	1.0

TABLE 21
WARD WISE MALARIA POSITIVE CASES WITH THE SPECIES AND CLASSIFICATION

Ward	No. of positive cases	Malaria Parasities					Classification		
		V	F	M	mixed	Imported	Indi- genous	Un- traced.	Untre- ated**
A	19	17	2	...	...	8	8	1	2
B	25	24	1	...	...	12	5	7	1
C	6	4	2	...	...	3	1	1	1
D	39	35	3	...	1	21	15	3	...
E	29	26	3	...	...	15	6	6	2
F	24	23	1	...	...	9	7	8	...
G	22	21	1	...	...	16	4	2	...
H	39	35	4	...	...	20	10	6	3
K	43	40	3	...	...	22	14	5	2
L	66	62	4	...	...	6	53	5	2
M	36	33	3	...	...	23	8	3	2
N	34	32	2	...	...	16	16	2	...
P	27	26	1	...	...	16	7	3	1
R	48	43	5	...	...	26	14	6	2
T	34	33	1	...	...	15	12	6	1
Total	491	454	36	...	1	228	180	64	19

Abbreviations used:—V—Vivas. F—Falciparum. M—Malaria.

** These cases remained to be treated as they left Bombay before administering Radical Treatment. Concerned Malaria Officers of the unit, were informed accordingly to give radical treatment.

TABLE No. 22

NATIONAL MALARIA ERADICATION PROGRAMME

Annual Report for the year 1971

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.	F.	M.	Mixed	Complete	Partialy	Imported	Indigen-ous	Relapse	Induced	Untraced	Unclassi-fied	
1	2	3	4	5		7	8	9	10	11	12	13	14	15	16	17	18	19	20
Active City	580	580	436	436	...	5	4	...	...	1	3	...	3	2	...	...	...	...	Untraced
Suburbs	16,709	16,709	16,706	16,306	...	23	20	3	...	...	21	...	9	13	...	...	...	1	do.
Extended Suburbs	17,260	17,260	16,771	16,771	...	1	1	...	...	...	1	...	1	...	...	...	...	...
Total	34,549	34,549	33,513	33,513	...	29	25	3	...	1	25	...	13	15	...	...	...	1	
Passive City	55,803	95,803	95,803	95,803	...	155	143	12	...	...	94	...	81	40	...	...	30	4	Untraced
Suburbs	57,115	57,115	57,115	57,115	...	165	158	7	...	...	118	...	78	56	...	...	24	7	do.
Extended Suburbs	40,346	40,346	40,346	40,346	...	80	80	...	...	...	60	...	45	22	...	...	12	1	do.
Total	1,43,264	1,95,224	1,93,264	1,93,264	...	400	381	19	...	...	272	...	204	118	...	...	66	12	
Mass City	...	...	84,408	84,408	...	4	3	1	...	...	3	...	2	2	...	...	...	...
Suburbs	...	...	75,013	75,013	...	46	41	5	...	...	42	...	8	38	...	...	...	...
Extended Suburbs	...	...	96,364	96,394	...	12	4	8	...	...	9	...	4	6	...	...	2	...	Untraced
Total	...	...	2,55,785	2,55,815	...	62	48	14	...	...	54	...	14	46	...	...	2	...	

TABLE 23

NEW CASES AND TOTAL ATTENDANCE AT ALL THE MUNICIPAL FREE GENERAL DISPENSARIES AND THE MOBILE DISPENSARIES UNIT IN GREATER BOMBAY DURING 1971.

Description of Disease.	Total attendance
I.—Alimentary System—	
(a) Diarrhoea	... 2,17,815
(b) Dysentery	... 85,329
(c) Dyspepsia	... 99,834
(d) Helminthiasis	... 45,311
(e) Liver-Jaundice	... 11,828
II.—Circulation System—	
(a) Heart	... 2,318
(b) Blood Vessel	... 978
(c) Blood Pressure	... 14,125
III.—Exanthemata—	
(a) Chickenpox	... 729
(b) Measles	... 2,739
(c) Smallpox	... ..
IV.—Fever—	
(a) Fevers not defined	... 1,97,743
(b) Malaria	... ..
V.—Injuries and Accidents	
	... 51,318
VI.—Nutrition—	
(a) Avitaminosis	... 46,129
VII.—Nervous System—	
(a) Neuritis	... 12,827
(b) Sciatica	... 7,321
(c) Tremors	... 1,518
VIII.—Respiratory System—	
(a) Bronchitis	... 3,09,926
(b) Bronchopneumonia	... 18,721
(c) Common Cold	... 1,72,135
(d) Influenza (Non-epidemic)	... 29,381
(e) Laryngitis	... 8,134
(f) Pharyngitis	... 30,249
(g) Pneumonia	... 3,937
(h) Tonsillitis	... 47,93
(i) Whooping Cough	... 4,759
XI.—Skin and Appendages—	
(a) Diseases of Skin—	
(i) Herpes	... 19,221
(ii) Ringworm	... 62,148
(iii) Scabies	... 76,302
XII.—Special Organs—	
(a) Eyes—	
(i) Conjunctivitis	... 2,70,001
(ii) Corner Ulcer	... 1,371
(iii) Foreign Body in Eye	... 5,242
(iv) Iritis	... 3,910
(v) Cphthalmia	... 15,302
(vi) Spring Catarrh	... 2,129
(b) Ears (i) Diseases of Ears	... 60,321
(c) Nose (i) Diseases of Nose	... 4,118
(d) Teeth (i) Diseases of Teeth	... 34,821

TABLE 23—(Concd.)

Description of Disease	Total attendance
XI.—Surgical Ailments—	
(a) Injuries	... 91,327
(b) Minor Surgical Operations	... 936
(c) Ulcers	... 1,80,356
XII.—Genite Urinary—	
(a) Nephritis	... 9,816
(b) Pyelitis	... 4,621
(c) Gravel (Stones)	... 1,208
XIII.—All other Diseases—	
(a) Specific—	
(i) Anaemia	... 50,125
(ii) Mumps	... 9,721
(iii) Tuberculosis	... 17,876
(iv) Venereal Diseases	... 3,219
(v) Diabetes	... 1,019
(b) Non-specific—	
(i) Fistula in Ano	... 629
(ii) Gingivitis	... 5,052
(iii) Migraine	... 6,721
(iv) Piles	... 6,411
(v) Sprains	... 6,037
(vi) Stomatitis	... 37,742
(vii) Varicose Veins	... 9,905
(viii) A. N. C.	... 1,890
(ix) P. N. C.	... 2,240
(x) Other Causes	... 3,21,920
Total New Cases	... 27,10,545
Males (New Cases)	... 14,21,682
Female (New Cases)	... 12,88,863
Total Attendance	... 1,00,07,699

TABLE 24

Total confinements in Institutions in the City doing maternity work, during the year 1971.

Seril No.	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 Albless Hospital, Mahapalika Marg, Bombay, I. (23-11-1883)	200	4,259	13
2	St. George's Hospital, near Y. T. Bombay, I. (1839)	38	1,215	2
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, I. (1970)	3	88	Nil.
5	Parsi Lying-in-hospital, Outram Road, Bombay, I. (1895)	35	200	Nil.
6	Dr. Trivedi's Maternity and Nursing Home, 67, Netaji Subhash Road, Bombay, I. (1939).	5	5	Nil.
7	Godfrey Clinic, 79, Dadabhai Navroji Road, Off J. J. Schools of Arts, (1-4-1944)	14	131	Nil.
8	Marine Hospital and Maternity Home, 5 New Marine Lines, Bombay, I. (1-12-1947)	3	3	Nil.
9	Dr. Bacha's Memorial Belle-vue Nursing Home, La Citadella, Queen's Road Marine Lines (1911)	30	87	Nil.
10	Bombay Hospital, 12 Marine Lines, Bombay, I. (May 1950)	24	643	Nil.
11	Dr. M. S. Shah's Maternity and General Hospital, Marine Drive, Bombay, I. (1952)	8	62	Nil.
12	Colaba Maternity Home, 3rd Pasta Lane, Colaba (1-1-1948)	4	37	Nil.
13	Northcoate Nursing Home, Ormiston Road near Taj Mahal Hotel, Colaba, Bombay, I. (1949)	..	29	Nil.
14	Dr. Shethi's Maternity & Surgical Home, 3 Cufe Parade, Bombay 5 (10-7-1966)	6	40	Nil.
15	Dr. Adatia's Nursing and Maternity Home and Gynec. Hospital, 278, D. N. Road, Bombay, I, (1-10-1957).	6	144	Nil.
16	Strand Maternity and Gynec. Surgery near Strand Cinema, Bombay 5 (October 1965)...	7	67	Nil.
17	Naigara Clinic, 128, Wodehouse Road, Colaba, Bombay, 5. (18-11-1962)	8	56	Nil.
18	Khatau Makanji Maternity and Surgical Hospital, 65, Bazar Gate Street, Bombay, I.... (1919)	25	208	Nil.
A Ward—Total		450	8,051	16
B—WARD				
1	Sabu Siddik Maternity Home, 27, Imamwada Road, Bombay, 9.	19	1413	Nil.
2	Laxmibai Maternity Hospital, 96, D'Souza Street, Wadgadi, Bombay, 3. (1908)	28	446	1
3	Dhanlaxmi Maternity Home, 156-158 Samuel Street, Bombay, 9. (1952)	16	212	Nil.
4	H. A. N. Dholkawala Maternity Home, 58, Mohamedali Road, Bombay, 3. (1929)	27	614	1
5	Haji Karim Mohamed Suleman Maternity Home, 178-188, Kambekar Street, Bombay 3 (1927)	12	379	Nil.
6	Rahimatbai Maternity Home, Habib Hospital, Jail Road, Dongri, Bombay, 9. (27-4-1937)	20	394	Nil.
7	Noor Hospital, 49, Mohamedali Road, Bombay, 3. (20-11-1953)	72	1822	2
8	Vijayalaxmi Maternity Home, Tej Kiran, Nawroji Hill Road No. 5, Bombay, 9. (28-3-1960)	8	170	Nil.
B Ward Total		202	5,480	4
C—WARD				
1	Seth Gordhanda Ranchhodas Bhagat Maternity Hospital, 267-269, Kalbadevi Road, Bombay, 2. (1928)	45	536	Nil.
2	Women's Clinic, 345-349, Jagannath Shankarshet Road, Bombay, 2. (Aug. 1936)	20	324	Nil.
3	Dr. Saibai's Maternity Hospital, 190, Princess Street Bombay, 2. (1-5-1935)	12	232	Nil.
4	Rattubhai's Hospital, Jai Hind Estate-2, Bhuleshwar, Bombay, 2. (31-5-1959)	40	580	Nil.
5	General and Maternity Hospital, Jai Hind Building, Bhuleshwar, Bombay, 2. (11-11-1948)	15	364	1
6	Dr. C. L. Zaveri's Hospital, for Women, Jai Hind Estate-2 do. do.	15	436	Nil.
7	Dr. Irani's Hospital, Kerawala Mansion, Carnac Road, Bombay, 2. (1947)	2	11	Nil.
C Ward—Total		149	2,483	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, Bombay, 4. ...	12	958	Nil.
2	The Bomanji Dinshaw Petit Parsi General Hospital, Cumballa Hill, Bombay, 26. (1912)	35	248	Nil.
3	Bhatia General Hospital, Tardeo Road, (1934) ...	16	739	1
4	Dr. Karande Maternity & Surgical Hospital, Huges Road, Bombay, 7. (April 1929) ...	12	200	Nil.
5	Dr. D'Sa's Hospital, 15, Dadiseth Lane, Chowpatty, Bombay 7 (1910) ...	12	220	Nil.
6	Dr. Ajit Mehta's Hospital for Women, 6-A, 2nd Dadiseth Road, Bombay, 7. (1-4-1924)	16	356	Nil.
7	Dr. (Mrs.) Vijaykar's Maternity & Surgical Hospital, 139-B, Chandra Terrace, Khadikar Road. (1-4-1955)	10	153	Nil.
8	Dr. B. D. Patwardhan Maternity and Gynaec. Hospital, Phadke Wadi, Ganpati Temple, Bombay, 4. (11-11-1931) ...	12	151	1
9	Chowpatty Maternity & Gynaec Hospital, 31-C, Sea-Face, Chowpatty, Bombay (December, 1911) ...	70	964	1
10	Dr. Wadia's Nursing Home, French Bridge, Bombay, 7, (April 1938) ...	7	13	Nil.
11	Kanchangouri Maternity Hospital, S. V. Patel Road Bhajekar Street, (27-7-1926) ...	40	589	Nil.
12	Brahmanasbha Mhaskar Maternity Home, 9, Benham Hall Lane, Girgaum, Bombay 4. (1-2-1932)	20	304	Nil.
13	New Hospital for Women, Mama Paramanand Marg, Bombay, 4, (1-5-1933) ...	30	602	Nil.
14	Dr. Kumud Mehta Hospital, Poly Clinic, 20 Mama Paramanand Road, Bombay, 4. (10-10-1929)	8	57	Nil.
15	Ruzmani Hindu Lying-in-Hospital, Babulnath Chowpatty, Bombay, 7. (1920) ...	25	227	Nil.
16	Dr. Harkisandas Narottamdas Hospital, New Charni Road, Bombay, 4. (6-1-1928) ...	36	1,394	3
17	St. Elizabeth Nursing Home, J. M. Mehta Road, Malabar Hill, Bombay, 6. (31-8-1922)	22	705	1
18	Women's Clinic (Dr. Pagnis) 61, Narayan Niwas, J. S. S. Road, Bombay, 4. (1957) ...	7	102	Nil.
19	Dr. (Mrs.) Kashibai Sathé's Maternity Home, J. S. Road, Bombay, 4. (November 1938) ...	10	70	Nil.
20	Dr. Amonkar Hospital, 534, Sandhurst Bridge, Bombay, 4. 9-8-1953) ...	18	157	Nil.
21	Dr. (Miss) Shirin G. Patel, Nursing Home for Women, Chowpatty Sea-face (26-5-1940)	12	110	Nil.
22	Dr. K. C. Shah's Maternity Hospital Khetwadi Main Road, Bombay, 4. (1-11-1942) ...	8	3	Nil.
23	Seth Chaganlal Walchand Jain Hospital Marine Mansion, Chowpatty, Bombay 7. (15-6-1945)	17	354	Nil.
24	Ideal Nursing Home, Khetwadi, 12th Lane, Bombay, 4. (28-10-1952) ...	8	76	Nil.
25	Himani Clinic, 17, Mathew Road, Bombay, 4. (22-8-1948) ...	3	Nil.	Nil.
26	The Beach Candy Hospital & Nursing Home, 60, Bhulabhai Desai Road, Bombay, 26. (1-1-1952)	13	390	Nil.
27	Lamington Maternity Surgical Hospital, Girdhar Bhuvan, 415, Lamington Road, Bombay, 4. (September 1950)	17	23	Nil.
28	Modern Hospital for Women, 6, Dr. Wilson's Street, Bombay, 4. (11-2-1951) ...	10	411	Nil.
29	Dr. Irani's Maternity and Nursing Home, 17B August Kranti Marg, Bombay, 26. (17-6-1967)	10	49	1
30	Mistry Hospital, 47, Kennedy Bridge, Bombay, 4. (1953) ...	12	188	Nil.
31	Dr. Pratap's Maternity Hospital & Nursing Home, 104, Charni Road, Bombay, 4. (18-1-1953)	6	40	Nil.
32	Dr. Padma Mehta's Nursing Home, Sandhurst Bridge, Bombay, 7. (1952) ...	10	166	Nil.
33	Dr. Premalata S. Pai's Maternity Home, 7, Tatyia Charpure Path, Bombay, 4. (2-12-1951)	25	379	Nil.
34	Dr. O. J. Shah's Hospital, Opera House, Bombay, 4. (1-1-1951) ...	15	270	Nil.
35	Dr. Wagal Maternity Home, 276-B, Surya Mahal, Thakurdwar, Bombay, 4. (1-12-1957)	12	156	Nil.
36	Saifee Hospital, 15-17, Queen's Road, Bombay, 4. (October 1957) ...	14	289	Nil.
37	Dr. Khandwala Maternity & Gynaec. Hospital Prarthana Samaj, Bombay, 4. (November 1959)	8	66	Nil.
38	Ajinkya Hospital, Hughes Road, Bombay 7 (February 1953) ...	10	157	1
39	Queen's Road Maternity & Surgical Nursing Home, Queen's Road, Bombay 4. ...	13	331	Nil.
40	Dr. Bhaskar Patel Nursing Home & Mastani Clinic, New Queen's Road, Bombay, 4.	13	4	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements.	Deaths among mothers during their stay in Homes.
41	Malabar Hill Clinic, Manav Mandir Road, Bombay, 6. (26-2-1966)	6	57	Nil.
42	Dr. Tara Ramrao Maternity Home, 377, V. P. Road, Bombay, 4. (26-1-1966)	5	80	Nil.
43	Maternity & Nursing Home, Tilak Nagar, V. P. Road, Bombay 4.	11	175	Nil.
44	Ayurvedic Hospital, 87, Mughbhat Street, Bombay 4. (1947)	20	109	Nil.
45	Dr. (Mrs.) Vimal Parikh, Dream Land, 25, Mama Parmanand Marg, Bombay, 4. (Oct. 1960)	4	16	Nil.
46	Dr. N. K. Shah Maternity & Surgical Home, Sadguru Sadan, 15, Babulnath Road, Bombay, 7. (May 1963)	15	226	Nil.
47	Dr. (Miss) N. S. Zaveri Maternity & Gynaec. Hospital, 273, New Charni Road. (11-4-1945)	7	23	Nil.
48	Ajinkya General Nursing Home, 264, Charni Road, Bombay, 4. (15-8-1966)	40	46	Nil.
49	Swastik Nursing Home, Mani Bhuwan, Chowpaty, Bombay, 7. (17-11-1968)	7	6	Nil.
50	Janakee Nursing Home, Bellasis Road Bombay, 34. (19-2-1967)	14	132	Nil.
51	Charak Clinic, Queen's Road, Bombay 4.	...	...	...
52	Dr. T. P. Shah's Hospital, 534, Sandhurst Bridge, Bombay, 7. (1964)	12	61	Nil.
53	Mother and Child Hospital, Gita, Pandita Ramabai Road, Bombay 7 (23-10-1966).	20	80	Nil.
54	Sodha Nursing and Maternity Home, 31, Babulnath Road, Bombay, 7.(1-4-1970)	5	46	Nil.
D Ward—Total		828	12,795	9
E—WARD				
1	Municipal Maternity Home, 252, Bellasis Road, Byculla, Bombay 8 (1915)	37	1,863	Nil.
2	Kamar Khanum Municipal Maternity Home, Victoria Road 3rd Cross Lane, Byculla (19-12-1926)	37	2,730	Nil.
3	Kamathipura Maternity Home, Kamathipura, 13th Lane, Bombay, 8. (2-4-1948)	100	2,066	Nil.
4	Kasturba Hospital, Sane Guruji Marg, Bombay, 11. (12-3-1892)	Nil.	48	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	831	1
7	Engnec Maternity Home, 10, Victoria Road, Byculla, Bombay, 27. (1924)	10	187	Nil.
8	Masina Hospital, 125, Victoria Road, Byculla, Bombay, 27. (1902)	30	292	1
9	Bai Motlibai & Petit Hospital, Bombay, 8. (1892)	76	2,415	15
10	Central Hospital & Nursing Home, Bellasis Road, Bombay, 8. (1952)	3	37	Nil.
11	Ismail General Hospital, Nesbit Road, Aga Hall, Bombay, 10. (25-10-1945)	10	81	Nil.
12	Jagjivanram Hospital, Club Road, Byculla, Bombay, 8. (June 1960)	10	527	Nil.
13	Dr. Vaidya's Hospital, 75, B. A. Road, Bombay, 33. (1959)	3	10	Nil.
14	Byculla Nursing Home, 47, Dr. A. L. Road, Bombay 8.	15	506	Nil.
15	Sheth Maternity & Gynaec Nursing Home, Navjivan Co-operative Housing Society, Lamington Road, Bombay, 8. (12-10-1967).	12	173	Nil.
16	Dr. T. W. Sequeira's Maternity Hospital, Mazgeon, Bombay, 10. (January 1935)	8	223	Nil.
17	Atul Hospital, Bharat Nagar, Grant Road, Bombay, 7.	4	22	Nil.
E Ward—Total		441	14,445	27
F—WARD/North				
1	Lokmanya Tilak Municipal General Hospital, Sion, Bombay, 22. (24-1-1947)	72	5743	26
2	Colony Nursing Home, 216-A, Sir Bhalchandra Road, Bombay, 19. (1935)	3	Nil.	Nil.
3	Rawli Camp Municipal Maternity Home, Sion Koliwada, Bombay, 22.	48	648	Nil.
4	Matunga Clinic, 241-D, Dr. Ambedkar Road, Bombay, 19. (1930)	10	114	Nil.
5	Dr. Dandekar's Trust Hospital, Bhoj Mahal, Dr. Ambedkar Road, Matunga (Oct. 1937)	7	103	Nil.
6	Divekar Charity Trust Hospital, King's Circle, Bombay, 19. (1932)	8	196	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total Confinements.	Deaths among mothers during their stay in Homes.
7	Dr. Karunakaran Hospital, 477, Edenwala Road, Matunga, (1942)	6	183	Nil.
8	Matunga Nursing and Maternity Home, Matunga, (14-2-1955)	7	40	Nil.
9	Surgical and Maternity Hospital, 350, Chandavarkar Road, Matunga, Bombay, (21-9-1947)	10	194	Nil.
10	Family Nursing and Maternity Home, 64-A, Matunga, Bombay, 19. (1946)	10	359	1
11	R. V. Ayurvedic Hospital, Sion, Bombay 22 (6-4-1948)	12	139	Nil.
12	Wadala Maternity Home & General Hospital, 193, Station Road, Bombay 31 (30-9-1952)	4	Nil	Nil.
13	Dr. D. Sitalaxmi's Maternity & Nursing Home, 239A, Sion Road, Bombay 22 (August 1954)	10	199	Nil.
14	Dr. (Mrs.) Kamala Doshi's Hospital, Gujrath Society, Sion, Bombay 22 (15-8-1950)	10	100	Nil.
15	Matunga Nursing Home for Women, 590, Vincent Road, Matunga, Bombay 19 (16-7-1951)	13	50	Nil.
16	Talwalkar Nursing Home & Maternity Home, 153, Hindu Colony, Matunga, Bombay 19 (1-5-1951)	3	26	Nil.
17	Dr. Mulla's Clinic, 603, Jame-jamshed Road, Matunga, Bombay 19 (1952)	6	41	Nil.
18	S. D. Bhavanani Nursing Home, Sion, Bombay 22 (17-5-1953)	25	670	2
19	Dr. Pai's Hospital, 154 Hindu Colony, Dadar, Bombay 14 (17-10-1934)	18	352	Nil.
20	Dr. Merchant's Hospital, Sion, Bombay 22 (June 1968)	24	397	Nil.
21	Sobti Nursing Home, King's Circle, Bombay 19 (15-8-1955)	6	129	Nil.
22	Dr. Gadre's Surgical & Maternity Hospital, Sion, Bombay 22 (Nov. 1958)	8	107	Nil.
23	Mata Laxmi Hospital, 218, Sion East, Bombay 22. (December 1957)	5	40	Nil.
24	Chars Obstetrical & Gynac. Hospital 153, Road No. 9, Wadala, Bombay 31. (April 1962)	18	185	Nil.
25	Dr. Abhyankar's Maternity & Surgical Hospital Sion East, Bombay 22 (Nov. 1957)	7	184	Nil.
26	Shobha Maternity Hospital, 171, Vijay Niwas, R. A. Kidwai Road, Bombay 31 (3-2-1963).	8	72	Nil.
27	Rotunda Nursing Home, 262, Wadala, Bombay 31 (9-2-1964).	6	118	Nil.
28	Dr. Khandeparkar Nursing Home, 151, Sir, Bhalchandra Road, Dadar, Bombay. (4-11-1963)	5	56	Nil.
29	Dr. Parchure's Maternity Home, 159, Ganesh Prasad, Sir Bhalchandra Road, Bombay 14. (January 1968).	3	24	Nil.
30	Port Trust Hospital, Wadala, Bombay, 31 (1970)	23	740	Nil.
31	Sion Poly-clinic and Hospital, Krishna Bhuvan, Sion West, Bombay. (1-1-1970)	4	20	Nil.
F/North Ward—Total		399	11,250	28
F/SOUTH WARD				
1	Naigaum Municipal Maternity Home, Naigaum, Bombay, 14. (2-10-1958)	35	2083	Nil.
2	K. E. M. Hospital, Parel, Bombay, 12. (Maternity Ward opened on 1-12-1959)	176	4798	31
3	The Mahatma Gandhi Memorial Hospital, Government Gate Road, Parel, Bombay, 12 (8-12-1964).	17	398	Nil.
4	Nawroji Wadia Maternity Hospital, King Edward Road, Parel, Bombay, 12. (13-12-1926)	180	8282	13
5	Dr. Cadre's Nursing and Maternity Hospital, 120, Keni Road, Dadar, Bombay, 14. (1940).	18	230	Nil.
6	Desai Memorial Laxmi Lying-in-Hospital and Nursing Home, 94, Hospital Avenue, Parel, Bombay, 12. (June, 1938).	16	230	Nil.
7	Rukmini Maternity Hospital, 7, Aimai Merwanji Road, Parel, Bombay, 12. (1-1-1933)	30	477	Nil.
8	Nursing Home and Eye Clinic, Dadar, Bombay, 14. (15-12-1946)	10	146	Nil.
9	Indian Airforce Child Welfare Centre, 22 E-D, Cotton Green, Bombay. (26-1-1953)	4	Nil	Nil.
10	Sobti Hospital, 66, Jyotiba Phule Road, Naigaum, Bombay 14. (1960)	8	70	Nil.
11	Dr. R. D. Desai's Maternity and Surgical Home, Krishna Chhaya, Parel, Bombay, 12 (12-6-1966)	18	229	Nil.
12	Shantayee Nursing Home, Dadasahab Phalke Road, Dadar, Bombay, 14. (1-4-1970)	9	42	Nil.
13	Dr. Telang Maternity Home, 200, Ambedkar Road, Dadar, Bombay 14	4	42	Nil.
14	Atwini Maternity & Surgical Nursing Home, Dadar, Bombay	8	85	Nil.
15	Modern Nursing Home, 60, D. M. Road, Dadar, Bombay 14. (1952)	3	15	Nil.
16	Atwini Maternity and Surgical and Nursing Home, 5, Ruparel Apartments, Dadar,, Bombay 14 (13-10-1969).	8	101	Nil.
F/South Ward—Total		544	17,228	44

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements.	Deaths among mothers during their stay in Homes.
G/NORTH—WARD				
1	Municipal Maternity Home, Lieut. Dilip Gupte Marg, Opp. Shri Cinema, Mahim, Bombay, 16. (9-5-1970) ...	42	2571	Nil.
2	Laxmi Maternity Home, D. L. Vaidya Road Dadar, Bombay 28. (9-10-1929) ...	15	158	Nil.
3	Sadguru Maternity Home, Chhabildas Road, Dadar Bombay, 28. (8-5-1932.) ...	15	120	Nil.
4	Jankibai Maternity Home 64, S. K. Bole Road, Dadar, Bombay 28. (1-4-1936) ...	7	25	Nil.
5	Dr. Narvane's Surgical & Maternity Home, Shivaji Park, Dadar. (4-10-1938) ...	14	20	Nil.
6	Dr. Purandare's Maternity Hospital, 114, Shivaji Park, Bombay, 28. ...	15	141	Nil.
7	Vijay Clinic, Shivaji Park, Dadar, Bombay. (1936) ...	4	Nil	Nil.
8	National Hospital, 89, F. S. V. Savarkar Road, Mahim, Bombay 16 (10-12-1951) ...	20	214	Nil.
9	Dadar Surgical & Maternity Hospital Prajapati Bhuvan, Gokhale Road, Bombay 28 ... (November 36).	10	130	Nil.
10	Dr. Pinto's Hospital, Portuguese Church Street, Dadar, Bombay 28. (1-4-1947) ...	9	99	Nil.
11	Family Clinic, Mogal Lane, Matunga, Bombay 16 (1-10-1952) ...	10	52	Nil.
12	Dr. Shushila S. Keluskar Maternity Hospital, Portuguese Church, Dadar, (8-6-1952)	9	90	Nil.
13	Dr. C. L. Zaveri, 224, L. H. Road, Matunga, Bombay 16. (15-8-1939) ...	25	409	1
14	Park Nursing Home, 203-204, Shivaji Park Road 5, Bombay 16. (14-3-1950) ...	4	49	Nil.
15	Dadar Clinic & Nursing Home, Dadar Road, Bombay 28. (1949) ...	8	328	1
16	Gupte Maternity and Surgical Home, 143, Sitaladevi Temple Road, Mahim, Bombay 16 (31-5-1953).	12	225	Nil.
17	Dr. D'Souza Surgical and Maternity Temple Home, Sitaladevi Road, Mahim, Bombay 16 (January 1953)	3	1	Nil.
18	Chande Maternity and Surgical Home, Gokhale Road, Dadar, (10-1-1957) ...	10	54	Nil.
19	Bai Radhabai Maternity Home and Women Nursing Home Dadar, Bomay 28 (1-12-1954)	12	95	Nil.
20	Bella Tea Nursing Home, 57, L. J. Road, Mahim, Bomay 16 (29-9-1957) ...	7	43	Nil.
21	Shradha Maternity Home, Kapad Bazar Road, Mahim, Bombay 16 (8-4-1961) ...	4	9	Nil.
22	Pandit Maternity Hospital, L. J. Road, Mahim (1963) ...	9	134	Nil.
23	Dr. Varde's Maternity and Surgical Hospital, Meghdoot, Bhandarwada Road, Bombay 28 (1957).	14	161	Nil.
24	North Bombay Clinic, Opp. City Light Cinema, Lady Hardinge Road, Bombay 16.	4	4	Nil.
25	Ayurvedic Bhawan 444, Manmala Tank Road, Matunga, (W. R.) ...	8	4	Nil.
26	Laxmi Clinic, Vidya Building, Bhandar Galli, Mahim, Bombay 16 (17-9-1967) ...	7	106	Nil.
27	Sane's Nursing Home, 84, Bhawani Shankar Road, Bombay 28 (4-4-1966). ...	8	81	Nil.
28	Dr. Donald's Maternity Home, Dharavi, Opp. Police Station, Bombay No. 17. ...	3	94	Nil.
29	Dr. Fonseca's Maternity and Surgical Home, Opp. Mahim Rly. Station, Mahim, Bombay 16. (20-7-1967)	4	116	Nil.
30	Shushroosha, Citizen's Cooperative Hospital, 198-B, Ranade Road, Dadar (21-5-1969)	4	77	Nil.
31	Dr. Ingle's Surgical and Maternity Hospital, 372-B, Veer Sawarkar Marg, Bombay 28 (5-2-1969).	5	108	Nil.
32	Shri Maternity and Nursing Home, 119, Shivaji Park Road, Bombay 28. ...	8	14	Nil.
33	Dr. Thakur's Hospital, 121, Shivaji Park, Bombay 28. ...	22	455	Nil.
34	Nirmal Nursing Home, Gokul, 93, Ranade Road, Bombay 28. ...	7	69	Nil.
35	Singha, i Maternity Home, B/16, Balvind Co-operativ Housing Society ...	5	6	Nil.
G/North Ward—Total ...		363	6,264	2
G/SOUTH WARD				
1	Haji Mohamed Haji Sabu Siddik Maternity Home S. V. Savarkar Road, Bombay 28	55	4,277	3
2	Police Maternity Hospital, Pochkhanwala Road, Worli Police Camp, Bombay 25 (9-3-1951) ...	35	520	Nil.
3	Worli Maternity Home, B. M. & C. W. Society Worli, Bombay 25 (10-3-1930) ...	34	1,230	1
4	Lower Parel Health Unit, Western Ry. Bombay 13. (1963) ...	7	47	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds	Total confinements.	Deaths among mothers during their stay in Homes.
5	Dr. Sathe's Maternity & Nursing Home. (12-6-1966)	8	134	Nil.
6	B. M. & C. W Society Maternity Hospital, Delisle Road, Bombay 11 (1-4-1932)	40	924	Nil.
7	Worli Hospital for Women, 259, Dr. A. B. Road, Bombay 18 (14-5-1964)	15	407	Nil.
8	M. A. Podar Hospital, Bombay (1942)	30	960	Nil.
9	Worli General Hospital Sea Face Corner, Bombay 25 (1947)	4	17	Nil.
10	E. S. I. S. Hospital, Worli, Bombay, 18 (1-6-1969)	10	40	Nil.
11	Dr. Parulekar Maternity and Surgical Home, 7-8, Pankaj Mansion, Dr. Annie Besant Road, Worli, Bombay, 25.	8	230	1
	G/South Ward—Total	246	8,760	5
H—WARD				
1	Khorshedji Byramji Bhabha Hospital, Waterfeld Road, Bandra Municipal (1876)...	85	4,714	Nil.
2	Municipal Maternity Home, Kherwadi, Bandra East (14-8-1964)	42	2,909	Nil.
3	Western Rly. Health Unit, Bandra (1-9-1938)	8	203	2
4	Government Dispensary-Cum-Maternity Home, Bandra, (October 1962)...	4	135	Nil.
5	Dr. Moses Hospital, The Home Street, East Avenue, Santacruz (1929)	4	8	Nil.
6	Dr. Kashibai Hospital, Swami Vivekanand Road, Santacruz (1937)	25	267	Nil.
7	S. M. G. Hospital J. Nehru Road, Santacruz (East), Bombay 55 (1947)	18	298	Nil.
8	Mandakini Maternity Home, Turner Road, Bandra (1-4-1948)	10	67	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)	9	201	Nil.
11	Holy Family Hospital, St. Andrew's Road, Bandra, Bombay 50 (8-6-1953)	21	596	1
12	St. Martyre's Nursing Home, 11th Street, Martyres Road, Bandra, (November, 1951)	16	544	Nil.
13	Smt. Bhikubai Chandulal Jalandhwala Hospital, Santacruz, Bombay 54 (Oct. 1951)	32	932	2
14	Dr. (Miss) Mahashweta V. Bhat's Hospital for women, 29, National Library Road, Bandra (19-4-1953)	10	41	Nil.
15	Dr. Patkar's Maternity Home, 97, Hill Road, Bandra (31-10-1932)	11	150	Nil.
16	Arora Lying-in-Hospital, Jai Bharat Society, Old Khar, Bombay 52 (January 1951)	6	58	Nil.
17	Mangala Maternity Home, Santacruz East, (1-5-1961)	9	60	Nil.
18	Devi Maternity and Surgical Home, Renuka Linking Road, Bandra	10	85	Nil.
19	Jai Devi Maternity and Nursing Home, Dr. Ambedkar Road, Danda, Khar (26-1-1961)	10	32	Nil.
20	Sanjivani Maternity and Surgical Nursing Home (27-6-1965)	15	336	2
21	Lake-Side Nursing Home, L. I. C. Bldg. Bombay 50 (12-4-1964)	8	5	Nil.
22	Maternity and Surgical Home, 6th Road, Santacruz (East), Bombay 55 (1-7-1969).	6	11	Nil.
23	Surgical and Maternity Nursing Home, Nilama, 12th Road, Khar, Bombay 52.	10	40	Nil.
24	Durga Clinic and Maternity Home, Kalina, Santacruz (1-7-1961).	10	153	Nil.
25	Dr. B. V. Nerurkar Poly & Nursing, 85, Ceetha, S. V. Road, Santacruz Bombay 54.	10	Nil.	Nil.
26	Kumar Clinic Maternity and Nursing Home, Koumar, 14A, Road, Khar, Bombay 52. (January, 1968)	20	53	Nil.
27	Laxmi Padam Maternity and Surgical Maternity Home, 579A, Ramnagar Society, 5th Road, Khar, Bombay 52. (15-7-1967)	5	20	Nil.
28	Adarsha Maternity and Surgical Nursing Home, 482, Sahjeevan, 33rd Road, Khar,, Bombay 52 (13-9-1965).	4	84	Nil.
29	Smrutij Nursing Home, Maheshwar Darshan, 4, S. V. Road, Santacruz West, Bombay, 54, AS. (15-8-1969).	7	74	Nil.
30	New Maternity & Surgical Clinic, Gohile Cooperative Housing Society, Santacruz (East) (5-5-1968.)	7	245	Nil.
31	Ali's Maternity and Surgical Hospital, Tapodhan, 250B, Linking Road, Bandra, Bombay 50.	10	71	Nil.
32	Pushpa-Kuni Maternity and Nursing Home, Nehru Road, Santacruz (East), Bombay, 55. (1-8-1970)	8	85	Nil.
33	Dr. Nandan Maternity Home, 6th Road, Santacruz (East), Bombay, 55. (1-7-1969.)	6	91	Nil.
34	New Maternity Home, Vinay Kunj, Santacruz (East).	7	169	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements.	Deaths among mothers during their stay in Homes.
35	Dr. Sarala Desai's Nursing Home, Dattatraya Road, Santacruz (West) (20-9-1969) ...	15	125	1
36	Rakha Clinic, Guru Krupa, Linking Road, Santacruz, Bombay, 54. ...	10	51	Nil.
37	Sanjeevani Nursing Home, Sangam, 14-B, S. V. Road, Bombay, 53. (28-7-1965) ...	16	336	3
38	Safalya Maternity and Nursing Home, 124, Navin Kunj, S. V. Road, Khar, Bombay, 52 (1-4-1970) ...	7	49	Nil.
39	Santacruz Sarvajanic Hospital, 85, S. V. Road, Santacruz, Bombay 54. (26-1-1970) ...	10	1	Nil.
40	Dr. Canatra's Maternity Home, 674, Khar, Pali Road, Khar. (3-1-1971) ...	15	53	Nil.
41	Rajani's Maternity and Surgical Home, Plot No. 351, 16th Road, Bandra. (10-10-1971) ...	7	17	Nil.
	H Ward—Total ...	552	13,577	9
K—WARD				
1	F. D. K. Municipal Maternity Home, S. V. Road, Andheri (1960) ...	85	5,100	2
2	Dr. R. N. Cooper Municipal General Hospital, Juhu (26-2-1969) ...	60	2756	Nil.
3	Nilima Maternity and Nursing Home, Valabhbai Road, West Vile-Parle (1950) ...	11	303	Nil.
4	Tilak Maternity and Surgical Hospital, 24, Ram Mandir Road, Vile-Parle (24-12-1929) ...	8	196	Nil.
5	Dr. Balabhai Nanavati Hospital S. V. Road Vile-Parle (24-12-1951) ...	44	1,038	2
6	Dr. Shah's Maternity and Nursing Home, M. G. Road Vile Parle (East) ... (3-10-1943)	22	375	Nil.
7	Dr. Sumitrabai Wagh Hospital, Park Road, Vile-Parle (East) (March 1930) ...	12	55	Nil.
8	Dr. Rajadhyaksha's Maternity Hospital, Andheri West (1-4-1938) ...	6	93	Nil.
9	Vrindavan General Hospital and Nursing Home, Kurla Road, Andheri (1-11-1949) ...	50	769	Nil.
10	Dr. Bhat's Andheri Maternity and Nursing Home, 208 S. V. Road, Andheri (1932)	8	89	Nil.
11	Laxmi Maternity Hospital, Nariman Road, Vile-Parle, (24-5-1954) ...	6	41	Nil.
12	Dr. Rajan's Maternity Home, Versova, Khoja Lane, (15-2-1958) ...	6	61	Nil.
13	Dr. Sathé's Maternity Home, Hanuman Road, Vile-Parle (East) (22-4-1958) ...	14	275	Nil.
14	Dr. Bakshi's Gynac. and Maternity Hospital, Lallubhai Park, Andheri (12-2-1959)	4	66	Nil.
15	Dhiraj Maternity and Nursing Home, Andheri East (March 1960) ...	10	99	Nil.
16	St. Catherine's Home, off Versova Road, Andheri, Bombay, 58 (1922) ...	7	126	Nil.
17	Dr. Joshi's Surgical and Maternity Hospital, 75, S. V. Road, Andheri (1-10-1953) ...	10	179	Nil.
18	Motoshri Umabai Rane Maternity Home, Shiv Kunj, Mejas Road, Jogeshwari (East) (20-7-1962).	20	537	Nil.
19	Mahalaxmi Maternity and General Hospital Gumpna Road, Jogeshwari, Bombay 60 (12-12-1965.)	12	159	Nil.
20	Holy Spirit Hospital, Mohakali Road, Andheri (17-1-1967) ...	12	138	Nil.
21	Vishwabharati Nursing Home, Joshi Lane, Andheri (West). (19-5-1968) ...	3	35	Nil.
22	Nandadeep Maternity and Surgical Hospital, 140/141, S. V. Road, Andheri (12-5-68).	10	214	Nil.
23	Nutan Nursing Home, Vile-Parle (East), Bombay No. 56. (12-5-1965).	12	119	Nil.
24	Parle Hospital, Ghod Bunder Road, Vile-Parle West, Bombay 56. (1965) ...	9	97	Nil.
25	Shanti Maternity and Nursing Home, Sahar Road, Bombay, 57 (October, 1961) ...	15	647	Nil.
26	Dadhich Maternity & Nursing Home, Bhagwati Bhawan, J. B. Nagar, Kurla-Andheri Road, (November 1969) ...	8	55	Nil.
27	Ashirwad Maternity and Surgical Nursing Home, Sprantsa Manor, S. V. Road, Andheri, Bombay 58, (1-9-1970) ...	11	150	Nil.
	K Ward—Total ...	475	13788	4
L—WARD				
1	Khan Bahadur H. K. Bhabha Hospital, Kurla, (Municipal) (1-3-1939) ...	36	4526	5
2	Municipal Maternity Home, Sion-Trombay Road, Chunabhatti, Kurla (4-5-1970) ...	20	743	Nil.
3	Dr. P. J. Deshpande's Surgical and Maternity Nursing Home, Kapileshwar, 300, Lal Bahadur Shastri Marg, Kurla. (March 1966) ...	14	557	Nil.
4	Dr. Agaste Maternity and Nursing Home, 116 Bazar Ward, M. N. Road, Kurla. (March 1951)	6	100	Nil.
5	Chanda Maternity Surgical Nursing Home and Diagnostic Centre, (9-5-1971) ...	12	91	Nil.
	L Ward Total ...	88	6017	5

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	3578	Nil.
2	Receiving Centre for Beggars, Ghatkopar-Mahul Road, Chembur, Bombay 71 ...	2	6	Nil.
3	Chembur Colony Dispensary, Bombay 74 (1947) ...	10	212	Nil.
4	Dr. Bhatawadekar's Nursing and Maternity Home, 203, Station Avenue, Chembur (September 1954)	10	423	Nil.
5	Mona Maternity and Nursing Home, Amar Kunj, E. M. Road, Chembur Bombay (10-6-1968)	9	75	Nil.
6	Chembur Nursing Home, 18th Road, Chembur, Bombay 71 (1957) ...	10	162	Nil.
7	Siddh-Giri Clinic, 420 Station, Avenue Road, Chembur, Bombay 71 (26-10-1966)...	12	311	Nil.
8	Joshi Hospital 70, Central Avenue Road, Chembur, Bombay 71 (5-9-1966) ...	8	110	Nil.
9	Lakshmi Maternity Home, Plot No. 213, 11th Road, Chembur, Bombay 71 ...	15	357	1
10	Chembur Hospital, Krishna Baug, Chembur, (1-2-1959) ...	12	425	1
11	Subhash Maternity Hospital, Chembur (20-10-1971) ...	6	2	Nil.
12	Shashikant Hospital, 82-B, Syndicate Bank Building, Govandi Road, Chembur, 71 ...	10	14	Nil.
	M Ward—Total ...	134	5501	2
N—WARD				
1	Shamabai Vitaldas Khimji Maternity Home, Ghatkopar (Municipal) (17-3-1935) ...	20	3206	5
2	Bagwe Hospital, Cama Kale, Ghatkopar (15-4-1951) ...	6	25	Nil.
3	Suburban Maternity and Nursing Home, Ratan Mahal, M. G. Road, Ghatkopar (21-9-1951)	30	769	Nil.
4	Dr. (Miss) Chandra L. Shah Maternity and Nursing Home, Agra Road, Ghatkopar, Bombay 76 (4-5-1958)	35	734	Nil.
5	Pawri Maternity and Nursing Home, Durga Niwas, Pawai, Bombay 76 (1966) ...	6	37	Nil.
6	Ghatkopar Maternity and Surgical Hospital, Jivan Jyot, Bombay 77 AS (1963) ...	40	980	Nil.
7	Sarvodaya Hospital, B. A. Road, Ghatkopar (9-4-1962). ...	66	2819	2
8	Shushrusha, Citizens' Cooperative Hospital, Kannamwar Nagar Vikhroli (16-4-1967).	22	452	Nil.
9	Dr. Atre Maternity Home, Plot No. 90A, Station Road, Vikhroli (West) Bombay 79. (12-12-1969). ...	10	28	Nil.
10	Mamata General Hospital, S.T. Road, Vikhroli West ...	12	70	Nil.
11	Dr. Vinod B. Joshi's Maternity and Nursing Home, M. G. Road, Ghatkopar, Bombay 86. (1966)	10	321	Nil.
12	Jyoti Maternity S Surgical Home, Kavita, 60 Feet Road, Ghatkiopar East, (April 1969)...	7	14	Nil.
13	Rajawadi Maternity and Nursing Home, Rajawadi, Chatkopar (17-5-1964) ...	10	67	Nil.
14	Jyoti Maternity and Surgical Nursing Home, Vaishishtha, Ghatkopar (East), Bombay 77 (1-6-1968).	16	130	Nil.
15	Ashwini Maternity Hospital, Ambika Darshan, M. G. Road, Ghatkopar, Bombay (1-7-1966).	23	694	Nil.
16	Pant-Nagar Maternity and Surgical Hospital, near Ghatkopar Station, Bombay 75 (January 1968).	16	13	Nil.
17	Shantiniketan Nursing Home, Agra Road, Ghatkopar (West), Bombay, 86 (1-1-1970)	10	150	Nil.
18	Modern Maternity Home, Bhatia-wadi, Tilak Road, Ghatkopar, Bombay, 77 (1-6-1970)	14	200	1
	N Ward—Total ...	355	1087	8
F—WARD				
1	Municipal Maternity Home, Daftary Road, Malad. (4-1-1954) ...	28	2,257	Nil.
2	Municipal Maternity Home behind Topiwala Charitable Dispensary Goregaon West (1-7-1964)	20	2,285	Nil.
3	Dr. Velskar's Women's Lying-in Hospital, Zakari Bldg. Zakaria Road, Malad West (29-1-1950)	20	385	Nil.
4	Dr. Desai's Maternity Home, Vijaykar Wadi, Silvan Villa S. V. Road, Malad, West (4-2-1951)	18	444	...
5	Dr. Chandrakant R. Joshi's Eye and Maternity Home, Goras Road, Ahilya Ashram, S. V. Road, Malad (July 1952)	21	115	Nil.
6	Bagwe Maternity Home, Bagwe Bhuvan, Goregaon (20-7-1951) ...	20	155	Nil.
7	Mrs. Nalini Patwardhan's Colony Maternity and Gynec. Hospital Jay Prakash Nagar, Goregaon (Sept. 1952)	8	69	Nil.
8	Dr. Warke M. G. Home, "Suman", 6th Road, Plot No. 104, Goregaon (West). ...	6	69	Nil.
9	Date Maternity and Nursing Home, 23 Jawahar Nagar, S. V. Road Goregaon West (20-9-1960)	15	305	...
10	Dr. Suchak's Maternity and General Hospital, Manchubhai Road, Malad West (7-8-1960)	50	1,094	Nil.
11	Shri S. K. Patil Aroghdam Maternity Dham, Daftary Road, Malad (19-9) ...	8	224	Nil.
12	Family Clinic, I. N. S. Hemle, Mave Road, Malad. (1952) ...	2	18	Nil.

TABLE 24—(Contd.)

Serial No.	Name of Institution (date of establishment in brackets)	Nc. of beds.	Total confinements.	Deaths among mothers during their stay in Homes.
13	Satguru Sainath Maternity Home, S. V. Road, Goregaon (West).	10	161	Nil.
14	Dr. Ray's Maternity Home, 24, Jawahar Nagar, Goregaon (1964).	6	26	Nil.
15	Dr. Bhella's Maternity Hospital, 79, Jawahar Nagar, Goregaon West	15	345	Nil.
16	Patni Maternity and Gyn. & Nursing Home, 8, Jawahar Nagar, Goregaon. (7-11-1965)	18	615	Nil.
17	Dr. Kale's Maternity Hospital, 109, Jawahar Nagar Goregaon (West). (1948)	10	85	Nil.
18	Kapadia Maternity and Surgical Nursing Home, Malari G. Road, Goregaon West.... (19-10-68)	10	109	Nil.
19	Dr. Guiba Maternity Hospital, Mamlatdar wadi, Malad (June 1963).	20	300	Nil.
20	Shobha Maternity Home and General Hospital, Plot No. 33A, Daftari Road, Malad (East) (9-9-1968).	20	173	Nil.
21	Kalpona Maternity and Surgical Home, Jawahar Darshan, Daftary Road, Malad (East) (April 1968)	10	210	Nil.
22	Dr. Purank's Maternity and Nursing Home, Mamlatdar Wadi, Malad (West).	12	20	Nil.
23	Malad Maternity Hospital, Krishna Varma Wadi, Daftary Road, Malad.	6	4	Nil.
24	Beliga Nursing Home, "Paras", S. V. Road, Goregaon (West).	10	139	Nil.
25	Dr. Fernandez Maternity S Surgical Hospital, Ant's Hill, Orlem, Marve Road, Malad (West) (21-2-1971)	8	47	Nil.
26	Kothari Maternity Home, Bachani Nagar, Malad East. (1-1-1971)	12	180	Nil.
27	Usha Maternity S Nursing Home, 93, Usha Niketan, Aarey Road, Goregaon (East) (June 1971)	7	23	Nil.
28	Jyoti Maternity S Nursing Home, Tagore Park, Kothari Wadi, S. V. Road, Malad. (15-8-1971)	11	23	Nil.
P Ward—Total		381	9,957	...
R—WARD				
1	Padhabai Dhamanmal Ishwardas Bhatia Municipal Maternity Home Irani Wadi, Mathuradas Road, Kandivli (2-4-1963)	20	981	1
2	Borivli Municipal Maternity Home, S. V. Road, near Borivli Station, Borivli. (4-8-1968)	20	2561	1
3	Pandya Maternity Home, Eksar Cross Lane, 2 Patel Road, Borivli (3-9-1950)	12	333	Nil.
4	Bagwe Maternity Home, Tilak Road, Borivli West (28-2-1952)	14	75	Nil.
5	Sumati Maternity Home, S. V. Road, Borivli, (March 1945)	25	464	Nil.
6	Palkar Maternity Home, Opp. Rly. Station, G. B. Road, Borivli, (15-7-1953)	10	123	Nil.
7	Radhabai Dalvi Hosp. and Mat. Home, G. B. Road, Kandivli (1-1-1928)	31	509	Nil.
8	Dr. Joglekar Mat. Home, G. B. Road, Kandivli (1-1-1947)	14	110	Nil.
9	Mehta Maternity Hospital, Bhimji Kero's Bungalow, Chandarvarkar Lane, Borivli (9-7-1950)	12	75	Nil.
10	Usha Maternity Home, Shantilal Modi Road, Kandivli West (1962)	12	212	Nil.
11	Dr. Usha Hospital, Borivli (West) (8-8-1965).	12	159	Nil.
12	Mandani Maternity Hospital, Pranlal Nagar, Opp. North Level Crossing, S. V. Road, Borivli (East) (17-5-1970).	11	525	Nil.
13	Laxmi Maternity Home, Nandadeep, 169, Shri Krishna Nagar, Borivli Bombay, 92. (20-6-1970).	3	13	Nil.
14	Laxmi Maternity Home, S. V. Road, Kandivli (1956)	5	6	Nil.
15	Dahisar Nursing Home, S. V. Road, Dahisar East (6-6-1971)	3	21	Nil.
16	Shretas Masrani Nursing Home, Shankar Lane, New Kandivli Co-op. Housing Society, Ltd. Bombay 81. (20-6-1971).	12	81	Nil.
17	J. M. G. Medical Centre and Nursing Home, Gandhi Building, Akurli Road, Kandivli (East)	6	nil.	Nil.
R Ward—Total		222	6,218	2
T—WARD				
1	Municipal Maternity Home, Bhandup (1-1-1964)	20	3,088	Nil.
2	Municipal Maternity Home, Mulund (West), Bombay 80 (21-4-1969).	30	2,482	2
3	Manasadevi T. Agarwal General Hospital, Mulund, Bombay 80.	Nil.	5	Nil.
4	Naval Hospital, Pawai, Bhandup (1-9-1964)	5	65	Nil.
5	Indian Institute of Technology, Powai, Bombay 76 (1944)	8	59	Nil.
6	Modern Maternity and Nursing Home, 68, Mulund Colony, (2-2-1961)	4	68	Nil.
7	Dr. M. J. Thakkar's Maternity Home, Mulund (1-5-1966)	12	57	Nil.
8	Nav Jiwan Maternity and Nursing Home, Mulund East, (5-6-1966)	11	190	Nil.
9	Dr. Bhagwat's Maternity Home, M. C. Road, Jemura Sad:n, Mulund, (Sept. 1964)	6	73	Nil.

TABLE 24—(Concl.)

Serial No.	Name of Institution (date of establishment in brackets)	No. of beds.	Total confinements	Deaths among mothers during their stay in Homes.
10	Mulund Poly Clinic Maternity and Nursing Home, Ambedkar Road, Mulund West (1957)	6	33	Nil.
11	Shah Clinic and Maternity Hospital, J. M. Road, Bhandup (30-4-1968) ...	12	262	Nil.
12	Dr. Badwik Maternity Hospital Agra Road, Bhandup (5-8-1950) ...	12	275	1
13	Dr. Gore's Laxmibai Mat. Hospital, M. G. Road, Mulund Aug. ('0-6-1949) ...	15	396	Nil.
14	Mulund Maternity and Nursing Home, Gajanan Mansion, Mulund (20-4-1969) ...	9	181	Nil.
15	Dr. Bhatia's Hospital, "Carrey's Retreat", Village Road, Bhandup Bombay 78 (26-1-1965) ...	8	143	Nil.
16	Dr. Ganatra's Maternity Home, Opp. Railway Station Mulund (20-3-1952) ...	12	372	Nil.
17	Dr. Buch's Maternity Home, Munshi Estate G. Road, Mulund (3-10-1965) ...	12	219	Nil.
18	Dr. Khandekar's Maternity Home, Lokmanya Tilak Road, Mulund East (Dec. 1961)	2	17	Nil.
19	Shri Naresh Manilal Gandhi Sarvajnik Hospital, Mulund, Bombay, 80.	4	37	Nil.
20	Mangala Maternity and Surgical Hospital, L. B. Shastri Marg, Bhandup. (6-12-1971) ...	12	5	Nil.
T Ward—Total ...		200	8,067	3

Ward	No. of Institutions	No. of beds	No. of confinements	No. of Maternal deaths
A	18	450	8,051	16
B	8	202	5,480	4
C	7	149	2,483	1
D	54	828	12,795	9
E	17	441	14,445	27
F/N	31	399	11,250	28
F/S	16	544	17,228	44
G/N	35	363	6,254	2
G/S	11	246	8,760	5
H	41	552	13,577	9
K	27	475	13,738	4
L	5	88	6,017	5
M	12	134	5,500	2
N	17	355	10,837	8
P	28	381	9,957	...
R	17	222	6,248	2
T	20	200	8,067	3
Grand Total ...	364	6,027	1,60,747	169

Total births (Including 5,606 still births) registered in the Greater Bombay during the year 1971 ... 1,69,899

Deaths registered as Maternal deaths during the year 1971 ... 90