



**ADMINISTRATION  
REPORT**

**of the**

**Municipal Commissioner**

**for**

**Greater Bombay**

**1986-87**

**City, Suburbs and Extended Suburbs**

**MUNICIPAL PRINTING PRESS  
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## FOREWORD

1

## ACCOMPANIMENTS

1	GENERAL	2 - 5
	GENERAL ADMINISTRATION —	6 - 14
2	Central Control Room	15
3	Public Relation Civic Journal	16 - 17
4	W. O. (B. C. Cell)	18
5	Labour Department	19 - 24
6	Legal Department	25 - 27
7	Central Stores	28
8	Administrative Officer (Enquiries)	29 - 30
9	Mumbai Municipal Security Force	31 - 32
10	Municipal Printing Press	33 - 34
11	Rota Printing Unit	35
12	Finance	36 - 84
13	Revenue and Elections	85 - 97
14	Education Department	98 - 110
15	Public Health	111 - 130

## MEDICAL RELIEF AND EDUCATION —

16	K. E. M. Hospital and Seth G. S. M. College	131 - 208
17	B. Y. L. Nair Charitable and T. N. M. College	209 - 285
18	L. T. M. G. Hospital and Medical College	286 - 325
19	Nair Hospital Dental College	326 - 341
20	Anti - T. B. Services and Group of T. B. Hospital	342 - 347
21	Seth A. J. B. Municipal E. N. T. Hospital	348 384 - 349
22	Rajawadi Hospital Ghatkopar	350 - 363
23	K. B. Bhaba Hospital, Bandra	364 - 373
24	Dr. R. N. Cooper Municipal General Hospital, Juhu	374 - 394
25	Shri H. M. G. Hospital, Borivali	395 - 400
26	Engineering	401 440 - 441
27	Estates and Land Management	442 - 448
28	Mumbai Fire Brigade	449 - 465
29	Vigilance Officer on Special Duty	466 - 468

## MARKETS AND SLAUGHTER HOUSES

30	W. O. Markets Departments	469 - 470
31	Deonar Abattoir	471 - 472
32	Licence Department	473 - 477
33	Shops and Establishment Department	478 - 479

## RECREATION ACTIVITIES

34	Municipal Gardens	480 - 481
35	Libraries	482
36	Museum	483
37	Municipal Swimming Pool	484
38	Raja Dr. Baldevdas Birla Kreedha Kendra	485
39	Ward Officer (Removal of Encroachments)	486 - 487

## FOREWORD

As required under Section 124 of the B. M. C. Act, I have pleasure in placing the Administration Report for the year 1986-87 before the Corporation. The report is an outline of the progress of the activities carried out by the various Civic Departments during the year 1986-87.

No new major construction works were planned during the year and the available funds were allocated for completion of on going works. However, structural repairs of several Municipal Buildings including Hospitals and Schools were under-taken by the Planning and Design and Building Construction Divisions of the City Engineer's Department.

The Slum Improvement Cell was engaged in providing civic amenities to slum dwellers in various censused slum colonies. Slum upgradation programmes such as formation of co-operative housing societies of slum dwellers, construction of sanitary facilities, etc., were undertaken under the Bombay Urban Development Project.

The Environmental Sanitation & Projects Wing of the Corporation was engaged in abatement of air, water and noise pollution by various industries.

The Draft Revised Development Plan was finalised and submitted to the State Government for approval. The plan was reviewed by the Development Plan Advisory Committee set up by the State Government under the chairmanship of Shri J. B. D'Souza, Ex-Chief Secretary to the Government. The Committee has already submitted its report to the Government for consideration and decision and notification of final revised Development Plan.

No new road works were taken in hand during the year 1986-87 due to scarcity of funds. The road maintenance work was restricted to repairs to bad patches.

Traffic islands were developed with gardens and fountains by assigning them to private firms. Improvement of street lighting by providing sodium vapour lamps was also undertaken in a big way, particularly on arterial roads and fly overs in the city area.

The traffic signal system in the city was modernised by providing microprocessor based traffic responsive and synchronised signals. Similar schemes are being planned for suburban areas.

To abate the nuisance due to flooding in the city, antiflood measures such as training of nallas, desilting of nallas, construction of storm water drains, etc. were taken up during this year as per usual programme.

The works covered under the Water Supply and Sewerage Project Bombay—II were under execution and an additional 160 MLD of water was made available to the city as part of the phased completion of the Project.

Preliminary works of the Bombay—III Project were started. The scheme aims at bringing an additional 455 MLD of water to the city.

The Civic Training Institute & Research Centre, (CTIRC) at Abhinav Nagar, Borivali (East), was ready for occupation during this year. The entire office establishment of the (Productivity Department), C. T. I. & R. C. was, therefore, shifted from the 6th floor of the Mahanagarpalika Head Office, Extension Building to the C. T. I. R. C. Campus at Borivali (East), during September, 1986. Training activities at the CTIRC campus were commenced from 16th October, 1986.

The Public Health Department continued important health programmes viz. (i) Family Welfare Programme; (ii) School Health Services; (iii) Urban Malaria Control; (iv) T. B. Control Programme; (v) Brihan Mumbai Leprosy Control Scheme and (vi) Running of Municipal Laboratory, in addition to routine aspects of Health Services.

Because of expanded Programme of Immunisation against Diphtheria, Tetanus, Typhoid and Measles, etc., there was no increase in the incidence of these notifiable diseases.

The Assessment and Collection Department, a major revenue earning Department of the Corporation Collected Rs. 164.18 crores from Municipal Property Taxes, Rs. 230.77 crores from Octroi, and Rs. 30.34 from four Government taxes. Altogether, Rs. 425.29 crores were collected from various taxes for the year 1986-87.

Sd/-  
Chief Engineer  
(CTIRC)

Sd/-  
D. M. C. (P)

Sd/-  
Municipal Commissioner.

# GENERAL

## CORPORATION, STANDING COMMITTEE, IMPROVEMENTS COMMITTEE, EDUCATION COMMITTEE AND THE TREE AUTHORITY.

### CORPORATION

Shri Datta Nalawde, who was elected Mayor at the Meeting of the Corporation, held on 3rd April 1986, held that office throughout the year.

2. 107 Meetings of the Corporation, including 5 Special Meetings and Adjourned Special Meetings, 69 Meetings of the Special Committees and 4 Meetings of the Consultative Committees were held during the year 1986-87.

3. The vacancy caused due to the death of Shri S. K. Rameswamy who died on 15th February 1987, was not filled in.

4. Shri Vinod Ramchandra Ghosalkar elected from Ward No. 126 on 8th December 1986 in the vacancy, caused due to death of Shri Mohanlal Parekh.

5. The Corporation accorded Civic Reception to (i) Shri Vasantdada Patil, Governor of Rajasthan on 13th November 1986.

### STANDING COMMITTEE

Shri C. S. Padwal, who was elected Chairman of the Standing Committee at their Meeting held on 11th April 1986, held that office throughout the year.

Shri B. D. Joshi was an Ex-officio Member of the Standing Committee on his appointment as the Chairman of the Education Committee with effect from 9th April 1986.

120 Meetings, including regular and adjourned Meetings and Special and adjourned Special Meetings was held during the year. 1 Meeting of the Sub-Committee was held during the year.

Dr. Prabhu resigned from Committee with effect from 23rd June 1986.

Shri N. B. Pawar was elected as Member of Standing Committee on 14th July 1986.

### IMPROVEMENTS COMMITTEE

Shri R. M. Keni, who was elected Chairman, of the Improvements Committee at their Meeting held on 8th May 1986, held that office throughout the year.

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

28 (Twenty-Eight) Meetings including Regular and Adjourned Meetings were held during the year.

No Meeting of the Sub-Committee was held during the year.

### EDUCATION COMMITTEE

Shri Balkrishna D. Joshi, who was elected Chairman of the Education Committee at their Meeting held on 9th April 1986, held that office throughout the year.

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

25 Meetings, including regular and adjourned Meetings and Special and adjourned Special Meetings were held during the year. No meetings of the Sub-Committee was held during the year.

### TREE AUTHORITY

\* No change took place in the composition of the Tree Authority during the year.

5 (Five – Meetings of the Tree Authority were held during the year.

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\* Elected from Ward No. 126 at the Bye-election held on 7th December 1986 *vice* Shri M. C. Parekh expired on 7th September 1985.

LIST OF THE COUNCILLORS WHO HELD OFFICE AS ON  
31st MARCH 1987.

CORPORATION

Shri Datta Nalawde, *Mayor*.

Shri C. S. Padwal, *Chairman*, Standing Committee.

Shri R. M. Xeni, *Chairman*, Improvements Committee.

Shri B. D. Joshi, *Chairman*, Education Committee.

Shri H. P. Padwal, *Chairman*, B. E. S. & T. Committee.

Ansari, Shri N. M.  
Ansari, Shri M. J.  
Avachat, Shri V. V.  
Ankleswaria, Shri R. C.  
Ankola, Shri A. H.  
Andrade, Shri O. P.  
Acharya, Shri S. N.  
Ayre, Shri V. P.  
Ambre, Shri S. S.  
Owhal, Shri V. M.  
Kadam, Shri P. R.  
Kadam, Shri M. T.  
Kadam, Shri R. T.  
Kadam, Shri V. G.  
Kavthe, Shri M. N.  
Kawle, Shri D. B.  
Kandarkar, Shri D. D.  
Kandalgaonkar, Shri T. V.  
Korgaonkar, Shri S. G.  
Kohli, Shri S. J.  
Kolambkar, Shri K. N.  
Khadye, Shri V. P.  
Khan, Shri F. A.  
Khan, Shri R. A.  
Khedaskar, Shri M. B.  
Gambhir, Shri S. A.  
Gala, Shri D. S.  
Gawde, Shri D. B.  
Gite, Shri A. G.  
Gujar, Shri D. D.  
Gurav, Shri B. R.  
Ghediya, Shri V. P.  
Ghoslkar, Shri V. R.\*  
Chavan, Shri R. K.  
Chavan, Shri V. V.  
Chavan, Shri S. S.  
Choubæ, Shri T. V.  
Chouhan, Shri B. A.  
Chouhan, Shri Lalsingh  
Zaveri, Shri M. I.  
Jadhav, Shri K. B.  
Jadhav, Shri M. S.  
Jawkar, Shri S. G.  
Jain, Shri K. H.  
Joshi, Shri R. G.  
Zakaria, Shri S. A.  
Zarepkar, Shri D. G.

Thakare, Shri G. S.  
Thakur, Shri P. L.  
Thosar, Shri N. S.  
D'Cruz, Shri C. R.  
D'Gama, Shri N. R.  
Taireja, Shri S. T.  
Tawde, Shri G. V.  
Tandel, Shri M. N.  
Tirandaz, Shri R. S.  
Tripathi, Shri H. J.  
Thapa, Shri K. T.  
Thorat, Shri M. G.  
Daruwale, Shri V. M.  
Deshpande, Shri S. R.  
Desai, Smt. Alka A.  
Desai, Shri G. K.  
Doshi, Shri U. P.  
Dhulla, Shri K. C.  
Naik, Shri D. P.  
Naik, Shri M. R.  
Naik, Shri S. D.  
Nagvekar, Shri V. B.  
Nayak, Shri Ramdas  
Narkar, Shri R. P.  
Narvekar, Shri V. A.  
Narvekar, Shri S. M.  
Nerurkar, Shri V. R.  
Nevrekar, Shri K. R.  
Patel, Shri I. G.  
Patel, Smt. Indumati T.  
Patel, Shri B. M.  
Patel, Shri M. I.  
Parab, Shri J. M.  
Pawar, Shri N. B.  
Pawar, Shri M. L.  
Pawar, Shri R. D.  
Pandit, Shri A. G.  
Patil, Shri A. W.  
Patil, Shri K. R.  
Patil, Shri B. H.  
Patil, Shri B. A.  
Patil, Shri S. B.  
Patil, Shri H. K.  
Patil, Shri H. L.  
Pande, Shri B. N.  
Purohit, Shri R. K.  
Pednekar, Shri K. S.

Pote, Shri H. M.  
 Popat, Smt. Prabhaben J.  
 Prabhoo, Dr. R. Y.  
 Bastiwala, Shri K. A.  
 Boudhankar, Dr. R. N.  
 Balakrishnan, Shri Subramani.  
 Birje, Shri M. D.  
 Belif, Shri M. M.  
 Britto, Shri A. R.  
 Bhanushali, Shri V. V.  
 Bhave, Shri M. G.  
 Bhujbal, Shri C. C.  
 Makwana, Shri I. M.  
 Matreja, Shri S. M.  
 Mayekar, Shri S. V.  
 Mayekar, Shri R. S.  
 Mahadik, Shri G. S.  
 Mahale, Shri Ganesh  
 Mane, Shri Baburao  
 Mishra, Shri S. M.  
 Munagekar, Shri D. P.  
 Mehta, Shri P. U.  
 Mehta, Shri Rusi M.  
 Motorwala, Shri Shaikh Z. A.  
 Mote, Shri M. M.  
 More, Shri V. B.  
 Mhatre, Shri P. A.  
 Yadav, Shri S. B.  
 Raut, Shri M. M.  
 Raut, Shri V. B.  
 Raginwar, Shri R. W.  
 Rani, Shri S. T.  
 Rane, Shri N. T.  
 \* Ramaswamy, Shri S. K.  
 Raote, Shri D. N.  
 Rambhiya, Kum. Sushila K.

Laud, Shri R. P.  
 Laud, Shri W. R.  
 Lilani, Shri D. R.  
 Vanu, Shri N. A.  
 Vartak, Shri G. D.  
 Wagle, Smt. Pushpa M.  
 Wable, Shri V. N.  
 Wadkar, Shri C. G.  
 Walekar, Shri L. G.  
 Vyas, Shri V. S.  
 Sharma, Shri C. C.  
 Shah, Shri J. J.  
 Shirke, Shri G. G.  
 Shirke, Shri D. B.  
 Shinge, Shri S. M.  
 Shaikh, Shri A. A.  
 Shaikh, Shri R. S.  
 Shetty, Shri K. D.  
 Sheth, Shri G. H.  
 Sayed, Shri M. H.  
 Sarguroh, Shri Ishaqbhai.  
 Sardar, Shri T. S.  
 Sarmalkar, Shri S. K.  
 Satam, Shri N. T.  
 Samant, Shri S. V.  
 Sawant, Shri M. M.  
 Sawant, Shri S. M.  
 Singh, Shri R. R.  
 Singh, Shri R. J.  
 Surve, Shri M. R.  
 Soni, Shri K. T.  
 Solanki, Shri V. L.  
 Shroff, Shri B. N.  
 Handore, Shri C. D.  
 Hegde, Shri M. J.

**LIST OF THE MEMBERS OF THE STANDING COMMITTEE WHO HELD  
OFFICE AS ON 31ST MARCH 1987.**

*Shri C. S. Padwal (Chairman).*

Acharya, Shri S. N.  
Kohli, Shri S. J.  
Gambhir, Shri S. A.  
Jawker, Shri S. G.  
Joshi, Shri B. D.\*  
Nagvekar, Shri V. B.  
Nayak, Shri Ramdas  
Patel, Smt. Indumati T.

Patel, Shri B. M.  
Patil, Shri A. W.  
Prabhoo, Dr. R. Y.\*\*  
Mayekar, Shri S. V.  
Mishra, Shri S. M.  
Mhatre, Shri P. A.  
Raote, Shri D. N.  
Laud, Shri R. P.  
Pawar, Shri N. B.\*\*\*

\* Shri B. D. Joshi was an Ex-officio member of the Standing Committee.

\*\* Dr. Prabhoo resigned from Committee with effect from 23rd June 1986.

\*\*\* Shri N. B. Pawar was elected as member of Standing Committee on 14th July 1986.

**LIST OF THE MEMBERS OF THE IMPROVEMENTS COMMITTEE  
WHO HELD OFFICE AS ON 31ST MARCH 1987.**

*Shri R. M. Keny (Chairman).*

Shri V. V. Avachat,  
Shri V. P. Khadye  
Shri A. G. Gite  
Shri D. G. Zarpkar  
Shri C. R. D'cruz  
Smt. Alka A. Desai  
Shri Subramani Balkrishnan  
Shri R. S. Mayekar

Shri Z. A. Motorwala  
Shri V. B. Raut  
Shri R. W. Raginwar  
Shri N. A. A. L. Vanu  
Shri N. T. Satam  
Shri S. M. Sawant  
Shri C. D. Handore

**LIST OF THE MEMBERS OF THE EDUCATION COMMITTEE WHO HELD  
OFFICE AS ON 31ST MARCH 1987.**

*Shri B. D. Joshi (Chairman).*

Shri S. N. Acharya  
Shri R. T. Kadam  
Shri D. B. Gawade  
Shri R. G. Joshi  
Shri N. S. Thosar  
Shri Y. D. Dode\*  
Shri S. D. Naik  
Shri B. L. Nagvekar\*

Shri S. M. Narvekar  
Shri M. I. Patel  
Shri A. G. Pandit  
Shri A. A. Barve\*  
Shri M. I. M. H. Belif  
Shri M. D. Lotlikar\*  
Smt. P. M. Wagle

\* Non-Councillor members.

**LIST OF THE MEMBERS OF THE TREE AUTHORITY WHO HELD OFFICE  
AS ON 31st MARCH 1987.**

*Shri D. S. Nalawde (Chairman)*

Shri A. H. Ankola\*  
Shri M. G. Joshi\*  
Shri K. T. Tahpa  
Shri V. N. Daruwala  
Shri K. S. Pednekar  
Shri A. R. Brito  
Shri S. M. Matreja  
Shri S. V. Mayekar  
Shri G. A. Mahale  
(Chairman, M. & G. Committee)

Shri S. B. Yadav  
Shri R. W. Raginwar  
Shri N. T. Rane  
Shri C. C. Sharma  
Shri S. Kumar L. Shah\*  
Shri V. L. Solanki\*  
Shri S. V. Sampat\*  
Shri H. M. Hegde

Note. — \* Non-Councillors co-opted by the Tree Authority.

# GENERAL ADMINISTRATION

## Preamble :

The Municipal Corporation of Greater Bombay administers over an area of 437-71 sq. kms. to cater to the civic needs of over 9.001 million citizens by employing a work force of about 132500 with a budgetary outlay of Rs. 1297 crores.

The two offices which hold the balance of prestige and power in the city government are the Mayor and the Commissioner. The office of the Mayor combines a functional role of chairmanship which includes mediation and guidance at Corporation Meetings, as well as a ceremonial role with appendages associated being the First Citizen in the premier city of India. His personality and character, his political background and prestige and the aura of his office help in securing support for his policies as also in influencing the business before the House. Thus, although the Mayor performs a degrading role in civic life, in actual practice, he exercises an area of influence which is not visible to the casual observer. To the individuals and groups within and without the Corporation, the Mayor symbolizes their corporate spirit. Bombay citizens, by and large, have been proud of their Mayors.

The Commissioner, a key figure in the local self government set up and independent co-ordinate authority is virtually under constant watch by the citizens, the Councillors and even the other officers. Each section looks upon him expectantly for the ideal results in the respective fields of interests, or operation, at the same time looking for his deficiencies, so as to exploit them or use them to attack him. This is so because the Bombay Municipal Corporation Act envisages separation of powers between the deliberative and executive functions making the Municipal Commissioner theoretically an all powerful executive Head.

The important issue therefore, that confronts the city government, is the relationship between the legislative and the policy making bodies on the one side and the executive and the administrative agencies on the other. This involves a healthy adjustment between the principle of democracy and the need for an efficient civic administration devoid of politics. It rests on three principles.

In the first place, it recognizes the distinction between the policy making and the policy execution. Secondly, it entrusts the policy making function to the Corporate Body and the policy execution to a single individual the Commissioner. Thirdly, it makes the Commissioner more or less independent of the Corporation, although the two always work in close co-operation.

The B. M. C. Act of 1888 within the framework of which the Corporation and the Commissioner function, has specified seven statutory collateral authorities charged with the distinct responsibilities of the city government. Each operates within the limitations set for it. Though the executive authority vests in the Municipal Commissioner, the 170 elected representatives the Municipal Councillors do exercise general authority over the civic affairs through budgetary and financial controls by determining taxes and allocating expenditure, approving contracts and other financial proposals and making appointments to senior posts.

Of these seven statutory authorities, five are deliberative, namely the Corporation, the Standing Committee, the Improvements Committee, the BEST Committee and the Education Committee, which excepting the Improvements Committee have powers to sanction funds, the remaining two are executive namely the Municipal Commissioner and the General Manager, BEST Undertaking.

Apart from the four Statutory Committees, the Corporation also appoints five Special Committees viz., (1) Works Committee (City), (2) Works Committee (Suburbs), (3) Public Health Committee, (4) Markets and Gardens Committee and (5) Law, Revenue and General Purposes Committee which deals with specified subjects.

The centralized Administrative system came in for reorganisation in 1964 when for the first time, the de-centralized pattern was introduced. Its object is to speed up disposal, improve efficiency and effect economy.

In pursuance of this policy decision, the entire city is divided into five administrative zones with 23 Wards. The five zones are supervised by the Deputy Municipal Commissioners with a certain number of Ward Officers working under them. In all there are nine Deputy Municipal Commissioners, four territorial and five functional. While the territorial D. M. Cs. are in charge of certain Wards, the functional D. M. Cs. are in charge of certain important departments. There is no rigid watertight compartment system in their functions and sometimes the functional D. M. Cs. are also asked to be in charge of some of the Wards depending the exigencies of work in the Corporation.



In its chequered history of 113 years, for the first time the Municipal Corporation of Greater Bombay was dissolved by the State Government under Maharashtra Act No. VII A of 30 the March, 1984 as a result of which the electric element went out of office from 1st April, 1984 upto 10th May, 1985 till fornoon and the then Municipal Commissioner assumed the role of Administrator and exercised all powers and performed all duties of the Corporation. It is also for the first time, that during this period, two Additional Municipal Commissioners were appointed to assist the Commissioner in the overall management of the Administration.

After the eighth Municipal General Elections to the Corporation in April, 1985, the elective element came into life again from 10th May, 1985 with an added strength of 30 councillors making the total number of Councillors 170.

In consequence of this, the administrative apparatus reverted back to its original status, the Municipal Commissioner exercising the powers vested in him by the Bombay Municipal Corporation Act. The two Addl. Commissioners continue to assist him and generally exercise supervisory control over the Administration.

### BRIHANMUMBAI MAHANAGARPALIKA

#### Administrative Office/ Municipal Commissioner's Office as on 01-04-1987

The designation and names of the Officers holding the post of Municipal Commissioner, Additional Municipal Commissioner, Director (Engineering Services & Projects) and Dy. Municipal Commissioner etc. together with the period from which the posts were held by each of them are given below :—

Sr. No.	Designation	Name of the Officer	Qualification	Period		Remarks
				From	To	
(1)	(2)	(3)	(4)	(5)		(6)
1.	Municipal Commissioner	Shri J. G. Kanga, I.A.S.	M.A. (Hardward) LL.B.	01-04-1986	23-07-1986	Repatriated to Government of Maharashtra from 24-07-86. Attending seminar at Colombo from 15-3-87 to 22-3-87. On deputation to Washington from 21-7-86 to 5-5-87. Appointed as Municipal Commissioner from 21-7-1986.
		Shri S. S. Tinaikar, I.A.S.	M. A. (Bombay)	24-07-1986	31-03-1987	
2.	Additional Municipal Commissioner	Shri S. Ramamurthi, I.P.S.	M. A.	01-04-1986	31-03-1987	
3.	Additional Municipal Commissioner	Shri A. M. Warty, I.A.S.	B. Sc.	01-04-1986	31-03-1987	Attended the conference at Spain from 19-5-86 to 1-6-86.
4.	Director (Engineering Services & Projects).	Shri J. R. Patwardhan	B. E. (Civil) M.E. (P.H.) A.M.I.E.	01-04-1986	30-9-1986	Voluntarily retired from Municipal Service from 1-10-1986.
5.		Shri M. H. Batiwale	B. E. (Civil)	12-02-1987	31-03-1987	Appointed as Director (E. S. & P.) from 12-02-87.
6.	Dy. Municipal Commissioner (Impts.)	Shri P. P. Kamdar	B. A. (Spl.) B.Com., LL.B.	01-04-1985	31-03-1987	
7.	Dy. Municipal Commissioner (Personnel)	Shri P. D. Karandikar, I.A.S.	M. A. (Spl.) & Diploma In Industrial & Business Management.	01-04-1986	31-03-1987	

Sr. No.	Designation	Name of the Officer	Qualification	Period		Remarks
				From	To	
(1)	(2)	(3)	(4)	(5)	(6)	(8)
8.	Dy. Municipal Commissioner (Special Engineering)	Shri V. G. Savant	B. E. (Civil)	01-04-1986	31-03-1987	
9.	Dy. Municipal Commissioner (Zone-I)	Dr. D. A. Pinto	M. A. Ph. D.	01-04-1986	31-07-1986	Retired from Municipal service with effect from 1-8-1986
		Shri V. D. Vaidya	B. A. (Spl.) M. Com.	01-08-1987	13-10-1987	Looking after the work of D. M. C. (Z-I)
		Shri S. R. Dange	B. A.	14-10-1986	31-05-1987	Appointed as Ag. D.M.C. (Z-I) from 14-10-86.
10.	Dy. Municipal Commissioner (Z-II)	Shri V. D. Vaidya	B. A. (Spl.) M. Com.	01-04-1986	01-03-1987	Appointed as D. M. C. (R) from 2-3-87.
		Shri A. B. Maduskar	M. Com. (Bom.)	02-03-1987	31-03-1987	On deputation to Addis Ababa for the period from 27-2-86 to 28-2-87. Appointed as D. M. C. (Z-II) from 2-3-87.
11.	Dy. Municipal Commissioner (Z-IV)	Shri D. C. Desai	B. Sc. (Agri.) Dist. L. L. B.	01-04-1986	31-03-1987	
12.	Dy. Municipal Commissioner (Z-V)	Shri M. P. Nerkar	B. E. (Civil) M. E. (P. H.)	01-04-1986	31-03-1987	
13.	Dy. Municipal Commissioner (Revenue)	Shri V. D. Vaidya	B. A. (Spl.) M. Com.	02-03-1987	31-03-1987	Appointed as D. M. C. (R) from from 2-3-1987.

**Other Heads of Departments during the period from 01-04-1986 to 31-03-1987**

Sr. No.	Designation	Name of the Officer	Qualification	Period		Remarks
				From	To	
1.	2.	3.	4.	5.	6.	8.
1.	Personal Secretary to The Municipal Commissioner	Shri R. V. Joshi	B.A., L.S.G.D., L.G.S.	01-04-1986	17-04-1986	Appointed as O. S. D. (Mayor) with effect from 18-4-86.
		Shri P. V. Malsha	M.A. (Hons.)	27-06-1986	31-03-1987	Appointed as P. S. to M. C. from 27-5-86.
2.	Personal Assistant to the Municipal Commissioner Establishment Officer	Shri D. R. Kubel	Matric, L.S.G.D., L.G.S.	01-04-1986	28-02-1987	Appointed as Estt. Officer from 1-3-1987.
		Shri D. R. Kubel	Matric, L.S.G.D., L.G.S.	01-03-1987	31-03-1987	
3.	Personal Secretary to the Additional Municipal Commissioner (R)	Shri P. K. Hirlekar	B. A., L. S. G. D.	01-04-1986	31-03-1987	
4.	Personal Secretary to the Additional Municipal Commissioner (W)	Shri V. S. Gokhale	B.A. (Spl.), L.S.G.D., Pravin, LLB.	01-04-1986	19-03-1987	Promoted as Dy.P. O. with effect from 20-3-1987.
		Shri R. T. Waghmare	B.A. (Hons.) LLB., L.S.G.D., L.G.S.	20-03-1987	31-03-1987	Appointed as P. S. to A.M.C. (W) with effect from 20-3-1987.
5.	Administrative Officer (Committee)	Shri D. D. Raje	Matric, L.S.G.D.	01-04-1986	30-09-1986	Retired from Municipal service from 1-10-1986.
		Shri C. P. Desai	Matric	01-10-1986	31-03-1987	Appointed as A. O. (Committee) from 1-10-1986. A. O. (Committee) understudy for the period fro 2-6-86 to 30-9-86.
6.	Personal Officer	Shri V. S. Morye	B. A. (Hons.)	01-04-1986	31-01-1987	Retired from Municipal Service from 1-2-87.
		Shri V. S. Nadkarni	B.A. (Hons.), LLB.	12-02-1987	31-03-1987	Appointed as P. O. from 12-2-87. (Hold the charge of P.O. from 1-2-87 to 11-2-87.

1.	2.	3.	4.	5.	6.
7.	Dy. City Engineer (Vigilance)	Shri G. A. Redkar	B. E. (Civil)	01-04-1987 to 31-03-1987	
8.	Sr. Ward Officer	Shri Y. A. Nadkar	D.C.E., A.M.I.E., M.I.E.I.	01-04-1986 to 31-08-1986	Voluntarily retired from Municipal service from 1-9-1986.
9.	Officer on Special Duty	Shri K. N. Kaimal Shri R. V. Joshi	B. E. (Civil) B.A., L.S.G.D., L.G.S.	01-04-1986 to 17-04-1986 18-04-1986 to 31-03-1987	Appointed as A.E. from 18-4-1986. Appointed as O. S. D. (Mayor) from 18-4-1986.
10.	Administrative Officer (Personnel)	Shri N. M. Vaidya	Inter Arts, L.S.G.D.	01-04-1986 to 04-03-1987	Promoted as Dy. P. O. (B. C. Cell) with effect from 5-3-87.
11.	Administrative Officer to D.M.C. (Z-I)'s Office.	Shri R. M. Bhagwat Shri G. H. Shaikh.	S. S. C. S. S. C.	01-04-1986 to 09-02-1987 10-02-1987 to 31-03-1987	Transfer to M.C.'s Office from 10-2-1987. Appointed as A. O. to D.M.C. (Z-I) from 10-2-1987.
12.	Administrative Officer to D.M.C. (Z-II)'s Office	Shri P. B. Adhikari Shri S. G. Kunte.	S.S.C., L.S.G.D., L.G.S. B. A.	01-04-1986 to 09-03-1987 10-03-1987 to 31-03-1987	Appointed as A. O. to D. M. C. (R) from 10-3-1987. Appointed as A. O. to D. M. C. (Z-II) from 10-3-1987.
13.	Administrative Officer to D.M.C. (R)'s Office.	Shri P. B. Adhikari	S.S.C., L.S.G.D., L.G.S	10-03-1987 to 31-03-1987	Appointed as A. O. to D. M. C. (R) from 10-3-1987.
14.	Administrative Officer to D.M.C. (Z-IV)'s Office.	Shri J. A. S. Pinto Smt. D. P. Udwadga	B. Sc., (Hons.) Matric	01-04-1986 to 31-10-1986 01-11-1986 to 31-03-1987	Retired from Municipal service with effect from 1-11-1986. Appointed as A. O. to D. M. C. (Z-IV) from 1-11-1986.
15.	Administrative Officer to D.M.C. (Z-V)'s Office.	Shri H. A. Desimukh Shri V. G. Mudalgikar	S.S.C., L.S.G.D. S.S.C., L.S.G.D.	01-04-1986 to 31-05-1986 16-06-1986 to 31-03-1987	Retired from Municipal service from 1-6-1986. Appointed as A. O. to D. M. C. (Z-V) from 16-6-1986.
16.	Administrative Officer to Municipal Commissioner.	Shri A. V. Edvankar	B. A.	10-03-1987 to 31-03-1987	Appointed as A. O. (M. C.) from 10-3-1987.
17.	Administrative Officer to D. M. C. (P).	Shri P. V. Malshe Shri P. S. Chitale	M. A. (Hons.) S. S. C.	01-04-1986 to 26-05-1986 16-06-1986 to 31-03-1987	Appointed as P. S. to M. C. from 27-5-1986. Promoted and appointed as A. O. to D. M. C. (P) from 16-6-1986.
18.	Dy. Personnel Officer	Shri V. S. Gokhale	B.A. (Spl.) L.S.G.D.	20-3-1987 to 21-03-1987	Promoted and appointed as Dy. P. O. with effect from 20-3-1987.
19.	Dy. Personnel Officer (B. C. Cell)	Shri N. M. Vaidya	Inter Arts, L.S.G.D.	05-03-1987 to 31-03-1987	Promoted and appointed as Dy. P. O. (B. C. Cell) from 5-3-1987
20.	Administrative Officer (Marathi)	Shri S. G. Kunte Shri B. P. Desai	B. A. B.A. (Spl.) L.G.S. General	17-11-1986 to 01-03-1987 02-03-1987 to 31-03-1987	Appointed as A. O. (Marathi) with effect from 17-11-1986. Transferred and appointed as A. O. to D. M. C. (R) from 02-03-1987.
21.	Dy. Personnel Officer	Shri V. S. Nadkarni	B. A. (Hons.) LL.B. (General)	31-10-1986 to 11-02-1987	Appointed as Dy. P. O. from 31-10-1986.
22.	Administrative Officer to O. S. D. (General)	Shri V. V. Chitambar Shri P. V. Doodhar	Matric, L. S. G. D. Inter (Com), L. G. S.	01-04-1986 to 31-12-1986 01-01-1987 to 31-03-1987	Retired from Municipal Service from 1-1-1987. Appointed as A. O. to O. S. D. (C) from 1-1-1987.
23.	Administrative Officer to O.S.D. (General)	Shri D. S. Fokkar Shri T. S. Desai	Matric, L. S. G. D. Matric, L. S. G. D.	01-04-1986 to 31-11-1986 01-01-1987 to 21-03-1987	Retired from Municipal Service from 1-1-1987. Appointed as A. O. to O.S.D. (C) from 1-1-1987.

## Sr. W. O./W. O. upto 31st March 1987

Sr. No.	Name	Designation	Remarks
1.	Shri M. D. Rajadhyaksha	W. O. 'A' Ward	
2.	Shri D. F. Ichhapoira	I/c. W. O. 'B' Ward	
3.	Shri D. D. Jadhav	W. O. 'C' Ward	
4.	Shri R. M. Joglekar	Sr. W. O. 'D' Ward	
5.	Shri C. K. Ghone	W. O. 'E' Ward	
6.	Shri M. C. Gandhi	W. O. F/N Ward	
7.	Shri V. B. Pawar	W. O. F/S Ward	
8.	Shri S. A. Mehta	I/c. W. O. G/N Ward	
9.	Shri V. B. Kadam	Sr. W. O. G/S Ward	
10.	Shri V. Balachandran	Sr. W. O. H/W Ward	
11.	Shri S. B. Muthalia	Sr. W. O. K/W Ward	
12.	Shri N. N. Puppalwar	W. O. H/E Ward	
13.	Shri S. R. Upadhyaya	W. O. K/E Ward	
14.	Shri A. Y. Kulkarni	W. O. 'L' Ward	
15.	Shri A. N. Dube	W. O. M/W Ward	
16.	Shri A. N. Dube	I/c. W. O. M/E Ward	
17.	Shri V. S. Jadhav	W. O. 'N' Ward	
18.	Shri M. S. Chavan	W. O. P/N Ward	
19.	Shri G. B. Prasad	W. O. P/S Ward	
20.	Shri H. L. Gangwani	Sr. W. O. R/N Ward	
21.	Shri H. S. Shah	I/c. W. O. R/S Ward	
22.	Shri M. D. Sharma	W. O. 'S' Ward	
23.	Shri I. L. Darji	W. O. 'T' Ward	
24.	Shri G. R. Khairnar	Sr. W. O. Mkt. Deptt.	
25.	Shri S. P. Ghaste	W. O. Estate Deptt.	
26.	Shri N. B. Salunke	W. O. M/W & L. T. M. Hosp. & L. T. M. G. College	
27.	Shri R. B. Vaturkar	W. O.	Working as P. S. to M. C. from 2-5-1985.

**"Department of Personnel and Administrative Reforms (including Organisation and Methods Division of M. C.'s Office.)"**

The newly established Department of Personnel and Administrative Reforms comprises of Personnel Department, Labour Department, Establishment Sections of C. A. and A. C. A.'s Department, Dy. P. O. (B. C. Cell), R. G. Cell, O. & M. O. Divisions, Establishment Sections in M. C.'s office dealing with personnel matters, Marathi Section, etc.

The main functions expected to be carried out by D. P. A. R. are; (i) to effectively control and provide policy frame work & set of rules & procedures in all personnel matters, (ii) to ensure that the policies & procedures are implemented uniformly at various decentralised levels, (iii) to motivate the employees with a view to increasing productivity & making the administration more & more public oriented & (iv) to strive to make continuous appraisal of existing procedures & methods.

During the year, the following activities were carried out :—

**1. Standardisation of Forms, Registers, Qualifications, Duties etc., for various posts :—**

Standardisation of forms & registers was done as & when required by various departments. Standardisation of qualifications, duties for the posts of similar nomenclature & methods & recruitment has been done. The work of compendium is in process. This department had conducted the tests in typing, short-hand, trade tests of Technical Staff etc. from time to time.

**2. Use of Marathi Language :**

A separate Marathi Section is established with necessary staff to fulfil the requirements as per directions of State Government and the Corporation. The work of translating into Marathi version of drafts, notes, qualifications, technical terms, names of departments & Offices, etc. was done by this department.

**3. Method study & case study :**

This department examined 696 cases that were referred for scrutiny & study of the additional staff required for existing services and/or the enhanced services.

4. **Compilation of important circulars, book-lets, etc. :**

Compilation of important circulars, issued by M. C.'s Office & then printing in the form of book-let is a periodical work assigned to this department.

5. **Inspection :**

In Inspection of various offices & the surprise visits for checking of attendance of the staff was regularly carried out by the staff of this department. Collection of data required for revision of grades & other ancillary schemes for grant of benefits to the employee is also attended by this staff during inspection.

6. **General :**

- (i) Formation of Committees at appropriate levels for :
  - (a) Deciding suitability for promotions.
  - (b) continuation in service beyond 55 years.
  - (c) Redressal of grievances of the employees.
  - (d) Establishing panels for recruitment and selection of staff to various categories.
  - (e) Considering the proposals regarding change in date of birth.
  - (f) Considering the proposals for P. T. Cases.
- (ii) Revision of recruitment rules to provide reservation for children of municipal employees, sportsmen, Handicapped Persons, ex-servicemen, P. T. Cases, reserved categories, etc.
- (iii) A regular programme for meeting at fixed intervals with (i) Officers dealing with Personnel Matters in all departments to monitor implementation of personnel policies, (ii) representation of the recognised unions to settle disputes of general nature.
- (iv) Agreement has been reached with the unions for carrying out Job-evaluation exercise covering about 1200 jobs and more than 1 lakh employees which is a unique exercise of this kind & magnitude to be undertaken in any Govt./Semi Govt. Organisation. The appointment of the Consultant has been approved by the Standing Committee, and steps are being taken to launch the exercise.
- (v) Some of the Chronical issues like equigradation of Junior Engineers, bringing family welfare staff on municipal grades, revision of various allowances like washing wallowances, unclean work allowance, messing allowances, uniform allowance, N. D. A. etc., the demands to reschedule duty hours of Nursing staff, more promotional avenues for Sub-ordinate staff and peons, change of birth dates, etc. have been settled through bilateral negotiations and by evolving a policy frame work.
- (vi) Agreement between Union & Administration reached for grant of Ex-Gretia payment to Municipal Full-time Employees for the year 1985-86.
- (vii) Broad agreement has been reached with the Unions for revision of pay scales, D. A., H. R. A., etc. by merging D. A. with basic pay. The benefit of H. R. A. to some extent has been granted to the employees entitled to free quarters.
- (viii) Procedural improvements have been brought about by introducing model guide-booklets and standardised forms to expedite :
  - (a) Settlement of P. F./Pension Claims.
  - (b) Enquiry proceedings.
  - (c) Proposals for continuation of temporary posts.
  - (d) Vacancy reports of Corporation.
- (ix) The system of maintenance of confidential records has been streamlined & further consolidation work & introduction of improved system of performance appraisal is in process.  
The system of consideration of appeals against the adverse confidential records has been introduced.
- (x) The total number of proposals of furniture & equipments etc. scrutinised was 1003.
- (xi) The work of absorption of retrenched staff of temporary Election Department, in Municipal service, as per the norms accepted by the Corporation has been mostly completed. All matters involving personnel policies and/or proposals like Medical Aid, revision of grades, allowances & other demands are attended by this department.

Sr. No.	Designation	Name of the Officer & Qualifications	PERIOD		REMARKS
			From	To	
1	2	3	4	5	6
1.	Municipal Chief Auditor I/c.	Shri B. B. Desai, B. Com., L.G.S.	1-4-86	5-4-86	Shri Desai was holding the post of Dy. M. C. A. during the period from 6-4-86 to 17-2-87. Shri Karve retired voluntarily from 18-2-87.
		Shri T. K. Karve, B. Sc., B. Com. (I.M.C.), L.G.S.	6-4-86	17-2-87	
	Municipal Chief Auditor	Shri B. B. Desai, B. Com., L.G.S.	18-2-87	31-3-87	
<b>OTHER HEADS OF THE DEPARTMENTS</b>					
1.	City Engineer	Shri P. M. Kale, B. E. (Civil)	1-4-86	20-5-86	He was working as Ch. E. (D.P.) during the period from 1-4-86 to 31-3-87 & also he worked as C.E. on Charges Allowance from 1-4-86 to 20-5-86.
		Shri S. A. Rege, B.E. (Civil), M. E. (Struct)	21-5-86	31-3-87	
2.	Chief Accountant	Shri V. W. Joshi, M. Com., L.G.S.	1-4-86	31-3-87	Throughout the year. The post of Jt. C. A., is vacant from 9-5-85 on wards and duties & functions of the post of Jt. C.A. have been discharged by Shri V. W. Joshi, C. A.
2A)	Jt. Chief Accountant	—	—	—	
3.	Hydraulic Engineer	Shri R. G. Deshpande, B.E. (Civil), M. E. P. H.	1-4-86	31-3-87	Throughout the year.
4.	Ex. Health Officer	Dr. S. S. Sabnis, M.B.B.S., D.P.H.	1-4-86	31-3-87	—do—
5.	Dean, K.E.M. Hospital & G. S. M. Collegé.	Dr. G. B. Parulkar, MBBS, MS, FACS, FASC.	1-4-86	31-3-87	—do—
6.	Dean, B.Y.L. Nair Ch. Hospital & T.N.M. College.	Dr. (Smt.) P. M. Pai, M.D., D. Ch.	1-4-86	31-3-87	—do—
7.	Dean, L.T.M.G. Hospital & L. T. M. M. College.	Dr. S. V. Nadkarni, M.S. (Gen. Surg.)	1-4-86	31-3-87	—do—
8.	Dean, Nair Hospital Deantal College.	Dr. D. R. Shahani, MDS, MRSH (Eng.), F.I.C.D.	1-4-86	31-3-87	—do—
9.	Chief Fire Officer	Shri V. B. Nikam, B. Sc. (Hons), Overs. Senior Command Course (UK), A.M.N.F.S.C. (Hons.), Gold Medalist (Advance Dip. of National Fire Service College Nagpur, B.D.C. (Hons) of College of Military Engineering, Puna.	1-4-86	31-3-87	—do—
10.	Medical Superintendent, (G. T. B. Hospitals).	Dr. A. P. Rao, MD, TDD, FCCP (USA), MIPHA (Cal).	1-4-86	31-3-87	—do—
11.	Assessor & Collector	—	—	—	Vacant throughout the year.
	Assessor & Collector I/c.	Shri D. R. Joshi, BA (Spl.), L.S.G.D.	1-4-86	31-3-87	Throughout the year.
12.	Education Officer	Smt. S. V. Pandit, M. A., B.T., M.Ed., E.D.S., Degree in Specialise in Edu. (The Kannad State Teachers College)	1-4-86	31-3-87	—do—
13.	Law Officer	Smt. M. M. Shetty, BA, LLB	1-4-86	31-3-87	Through out the year.

1	2	3	4	5	6
14	Chief Engineer (Water Supply Projects)	Shri M. K. Gokhale, D.C.E., A.M.I.E., Master of Engineering, University of Rurkee.	1-4-86	31-3-87	do —
14A)	Chief Engineer (Sewerage Projects)	Shri V. G. Savant, M. E. (Civil)	1-4-86	18-6-86	Promoted as D. M. C. (S. E.) from 19-6-86.
14B)	Chief Engineer (Common Services).	Shri V. Y. Damle, M. E. (P.H.)	19-6-86	31-3-87	
	Chief Engineer (C.S.) I/c.	Shri V. Y. Damle, B.E. (Civil), M.E. (P.H.)	1-4-86	20-7-86	Transferred to Ch. E. (S.P.).
	Chief Engineer (C.S.)	Shri R. K. Avadhani, B. E. (Civil)	21-7-86	20-9-86	The post of Ch. E. (C.S.) was vacant from 21-7-86 to 20-9-86 during which Shri Avadhani, Dy. Chief Eng., (Purchase) was asked to look after the work of Ch. E. (C.S.) in addition to this own.
		Shri M. Y. Sabnis, B.E. (Civil)	21-9-86	31-3-87	
15.	Controller of Stores	Shri P. B. Momin, B.E. (Civil).	1-4-86	31-3-87	Throughout the year.
16.	Supdt. of Markets & Slaughter Houses.	—	—	—	Vacant since 1975.
16A)	General Manager (Deonar Abattoir)	Dr. A. A. Padalkar, B. Sc. (Vet.).	1-4-86	31-3-87	Throughout the year.
16B)	Ward Officer (Markets)	Shri G. R. Khairnar, B. Com.	1-4-86	31-3-87	—do—
17.	Administrative Officer (Enq.)	Shri C. S. Karve, B.A., LL.B.	1-4-86	31-3-87	—do—
18.	Security Officer	Shri V. T. Davare, BA (Hon.), L.G.S.	1-4-86	31-3-87	—do—
19.	Ward Officer (Estates) I/c.	shri D. D. Dighe, BA, L.S.G.D., L.G.S. (Pravin Hindi).	1-4-86	17-4-86	Retired voluntarily from 18-4-86.
	Ward Officer (Estates)	Shri S. P. Ghaste, B.A., LL.B.	18-4-86	31-3-87	
20.	Labour Officer	Shri N. G. Kalme, M.A. (S.W.).	1-4-86	31-3-87	Throughout the year.
21.	Public Relations Officer & Editor Civic Journal.	Shri J. B. Mahajan, M.A., LL.B.	1-4-86	31-3-87	Throughout the year. Shri Mahajan was on leave from 1-9- 86 to 30-9-86 to look urgent work of P.R.O., by giving Charge Allowance.
22.	Addl. Assessor & Collector (Octroi).	Shri D. R. Joshi, B.A. (Spl.), L.S.G.D.	1-4-86	31-3-87	Throughout the year.
23.	Supdt. of Licences.	Shri f. A. Chougule, S.S.C., L.S.G.D.	1-4-86	31-3-87	—do—
24.	Supdt. of Gardens.	Shri J. C. Garkhel, B.Sc. (Hon.), Agriculture.	1-4-86	31-3-87	He was on leave from 2-5-86 to 31-5-86. A substitute arrange- ment was made on payment of Charge-Allowance to look after the work during his leave period.
25.	Manager, Municipal Printing Press.	Shri M. M. Kamat, Printing Technology, Dip. in Business Management.	1-4-86	31-3-87	Throughout the year.
26.	Asstt. Medical Officer (E.N.T. Hospital).	Dr. (Smt.) S.C. Basrur, MBBS, DGO.	1-4-86	31-3-87	Throughout the year. She was on leave from 29-9-86 to 25-10-86. During the leave period, Dr. J. Z. Naik was looking after her work.
27.	Curator, Dr. B. D. Lad Museum & Chief Librarian.	Shri M. D. Mistry, S. S. C.	1-4-86	31-3-87	Throughout the year.
28.	Manager, Mahatma Gandhi Memorial Olympic Swimming Pool.	Shri R. S. Rane, SSC, LSGD, LGS.	1-4-86	15-7-86	He was on leave from 16-7-86 to 31-10-86 and retired from 1-11- 86. The post was vacant from 16-7-86 to 18-7-86.
		Shri R. N. Patil, S.S.C.	19-7-87	31-3-87	
29.	Manager, Raja Baldevdas Dirla Kreed Kendra.	Shri B. P. Desai, B.A., LL. B.	1-4-86	28-2-87	Promoted as Administrative Officer (Marathi), M.C.'s office from 1-3-87. The post was vacant from 1-3-87 to 10-3-87.
		Shri S. J. Babar, BA (Spl.), L.S.G.D. L.G.S.	11-3-87	31-3-87	

## Suburbs and Extended Suburbs

Sr. No.	Designation	Name of the Officer & Qualifications	Period		REMARKS
			From	To	
1	2	3	4	5	6
1.	Dy. Ex. Health Officer (Western Suburbs)	Dr. A. A. Shaikh, M.B.B.S., D.P.H.	1-3-87	31-3-87	Post vacant from 1-4-86 to 28-2-87. He was transferred from E.S. from 1-3-87.
	Dy. Ex. Health Officer (Eastern Suburbs)	Dr. A. A. Shaikh, M.B.B.S., D.P.H.	1-4-86	28-2-87	Appointed as Ag. Ex. Health Officer. (Western Suburbs) from 1-3-87.
		Dr. S. E. Peermohomed, M.B.B.S., D.P.H.	1-3-87 <sup>a</sup>	31-3-87	
2.	Dy. Assessor & Collector (Eastern Suburbs)	Shri H. M. Shah, B.A. (Spl.), LL.B.	1-4-86	31-3-87	Throughout the year.
3.	Dy. Assessor & Collector (Western Suburbs).	Shri S. D. Madiwale, S.S.C.; Pravin, L.S.G.D.	1-4-86	31-3-87	—do—
4.	Dy. Supdt. of Markets (Western Suburbs) III	Shri B. V. Nevrekar, B.A. (Spl.), S.I., L.S.G.D. L.G.S.	1-4-86	31-3-87	—do—
	Dy. Supdt. of Markets (Western Suburbs) IV	Shri G. N. Malandkar, B.A. (Spl.), L.S.G.D. M.I. S.I.	1-4-86	22-12-86	Transferred to City office from 23-12-86. The post was vacant from 23-12-86 to 9-2-87.
		Shri V. G. Lagu, B.A., S.I. (London), B.E.D., L.S.G.D., L.G.S.	10-2-87	31-3-87	
5.	Dy. Supdt. of Markets (Eastern Suburbs) V	Shri C. S. Bendre, S.S.C., S.I.	1-4-86	31-3-87	Throughout the year.



## CENTRAL CONTROL ROOM

The complaints Section dealt with the complaints received in the Central Control Room by referring them to the departments concerned and following them up systematically to ensure prompt redressal of the grievances. It remained open all the days of the year including Sundays and Holidays.

The total number of complaints registered and followed up during the year under report was 2533 as detailed in the accompanying statement as against 2437 in the preceding year.

The Section worked in close co-operation with the Fire Brigade and water supply control Room and ensured that in cases of house collapses and such other emergencies, the Municipal Officers and Staff reached the site in time, to mitigate the hardships of the victims. Co-operation among various agencies including Maharashtra Housing & Area Development Board was also brought about on such occasions.

Information on civic matters was furnished to the members of Public on request.

Ward	Drainage	Building	Water Works	Road	Refuse*	P. C. O. (Rat & Mosquito)	Licence	Stray Dogs	Fire	Miscellaneous (Carcass, Monkey etc.)	Flooding	Total
A	30	49	4	1	19	5	2	13	17	62	7	209
B	100	80	16	10	66	5	4	...	7	31	1	320
C	27	125	11	1	18	4	1	3	3	10	4	207
D	52	100	11	25	39	8	5	13	9	42	16	320
E	39	57	8	7	28	4	1	4	24	30	7	209
F/South	20	43	1	3	5	...	5	5	22	29	4	137
F/North	12	10	9	11	30	5	7	9	7	43	4	147
G/South	35	22	6	5	7	2	2	8	12	37	1	137
G/North	26	43	3	9	6	...	...	6	9	41	3	146
H/East	2	7	2	2	2	...	1	8	6	6	...	36
H/West	22	17	4	3	4	2	4	2	4	39	6	107
K/East	8	17	4	2	4	...	5	12	13	30	6	101
K/West	10	17	2	2	3	1	3	13	8	31	1	91
L	6	12	2	1	4	...	2	...	15	10	3	55
M/East	3	5	...	1	1	...	...	...	6	4	...	20
M/West	5	3	...	3	2	...	2	...	6	7	...	28
N	8	14	3	...	4	...	2	2	5	17	5	61
P/South	3	10	...	...	...	...	1	1	7	5	...	27
P/North	1	16	...	2	2	...	...	3	7	3	...	34
R/South	...	1	1	1	...	...	2	...	6	7	...	18
R/North	1	5	2	1	1	...	1	2	2	12	4	31
S	1	8	3	4	...	...	1	2	6	15	5	45
T	3	8	1	4	2	...	1	1	2	24	1	47
<b>TOTAL :</b>	<b>414</b>	<b>639</b>	<b>93</b>	<b>98</b>	<b>247</b>	<b>36</b>	<b>52</b>	<b>108</b>	<b>203</b>	<b>535</b>	<b>78</b>	<b>2533</b>

Sd/

Complaints Officer  
(Central Control Room)

Ward Officer 'B' Ward I/c

## PUBLIC RELATIONS DEPARTMENT

Shri J. B. Mahajan, M.A., LL.B., was Public Relations Officer and Editor, Brihan Mumbai Mahanagarपालिका Patrika, during the year 1986-87.

The department effected publicity about the various activities and services rendered by different Municipal departments, functioned as a liaison between the members of the public and the various civic departments and acted as a clearing house in respect of criticism and suggestion appearing in local newspapers. It also carried out Health Education work and dissemination of information about Municipal activities to the public through various media.

The information counter at the Municipal Head Office Extension building continued to give necessary guidance and information to the public in addition to the carrying out of sale of various civic publications.

The Civic Diary 1987 and the Civic Guide 1987 containing useful information on civic affairs were brought out with Offset printing and eight colour photos in English and Marathi. Other publications included the list of Municipal Councillors and Officers and pocket book of important Telephone Numbers. In addition to this, P. R. O.'s department extended active co-operation to Municipal Secretary in bringing out multicolour Municipal Year Book 1986-87 in an attractive form. Special publicity material, such as posters, folders, etc. on various civic activities were also prepared and distributed to the Institutions and individuals all over Brihan Mumbai.

### PROTOCOL LIAISON AND EXHIBITION

One of the major functions of this department is to make proper arrangements of V. I. P. visitors visiting the *metropolis* of Mumbai.

During the year under report as many as 235 Dignatories from India as well as from foreign countries have visited this Corporation. Amongst them to mention a few were 10 members of sister cities of U. S. S. R. who participated in the Conference held on 7th & 8th August 1986, 16 members of U. S. Education Foundation, Dr. (Mrs.) Susan Hadden, Prof. of Texas University, Duke & Dutches of Kent, Shri Chitturman Dukhira, Dy. Town Clerk, Town of Bean Basse in/Rose Hill, Mauritius.

This department took part in the Republic Day Parade 1987 at Shivaji Park by presenting a civic float which was awarded second prize. In addition to this the department organised an health exhibition at the Mount Mary Fair, Bandra in September 1986. So also these exhibitions were arranged at the sites of Immunisation Camps organised by the Health Department in co-operation with IMPACT INDIA. The Civic Health Museum established by this department has now been handed over to the Education Department and shifted to the Manmala Tank Municipal School, Mahim for maintenance.

### PRESS RELEASE

A Press room equipped with lockers, telephone typewriter etc. was continued to be provided for the use of press reporters. During the year 1986-87, 68 Press Conferences and 15 Press Visits to the Municipal Institutions and installations were arranged for dissemination of information relating to civic services, activities, programmes etc. Press handouts giving information about various civic matters and rejoinders in reply to the criticism suggestions etc. appearing in newspapers, were also issued promptly.

### SPECIAL ACTIVITIES

In addition to the usual cleansing campaigns, special campaigns for Civic Health Camps were carried out extensively and sustained educative propaganda was undertaken through various media of publicity. Besides, the department also assisted the Municipal Secretary in organising the annual Clean Mumbai, Green Mumbai Competitions so also the open tournaments in Kabaddi, Kho-Kho and Wrestling for the Mayor's Shields and Executive Committee Meeting of the All India Mayor's Council. Similarly, due publicity was given to various civic functions.

The department also participated in the observance of the World Health Day, National Cleanliness Day, World Leprosy Day, Social Education Week, Family Planning Campaign, Grow More Trees Campaign, Anti Fire Campaign, Flag Day and also other health drives and exhibition organised by various Social Welfare Organisations.

**BRIHAN MUMBAI MAHANAGARPALIKA PATRIKA**

Shri J. B. Mahajan, M.A., LL.B., the Public Relations Officer of the Corporation worked also as Editor of Brihan Mumbai Mahanagarpalika Patrika during the year 1986-87.

India-U.S.S.R. Twin Cities Conference was the important function on which was given wide coverage in Patrika.

Brihan Mumbai Mahanagarpalika had organised a two day conference on 7th & 8th August 1986 of the four cities of U.S.S.R. and four cities of India. The Conference which was inaugurated by Dr. Shankar Dayal Sharma, Governor of Maharashtra dealt in details the role of twin cities in the struggle for peace. In the modern world the concept of Sister-city Relationship assumes great significance because the urban communities in large cities constitute a vital and vocal force in any country. Significantly the city of Mumbai has sister city relationship with 14 cities all over the world. The Patrika gave full coverage to this important event.

The civic administration has been making all out efforts to beautify the city for which services of social institutions, business houses and enlightened citizens are solicited. Today Mumbai city is compared with some of the modern foreign cities. During last few years is more green and beautiful. The beautification programme is a continuous process and the Corporation is leaving no stone unturned to see that one day the citizens of this Metropolis can be proud of this city. The most of the cover pages of Patrika therefore were utilised for showing the establishment of new gardens Parks and also renovated garden in city and suburbs.

In other Issues of the Patrika various articles on civic activities were published in Patrika for the information of the readers of the multi farious activities undertaken by the Corporation for the welfare of the citizens.

Other events which were given due publicity in the Patrika included celebration of World Health Day, celebration of Shivaji Jayanti, Nurses award, civic reception to Shri Vasantdada Patil, mass immunization campaign, Republic Day Celebrations, and Maharashtra day celebrations.

Sd/-

Shri J. B. Mahajan,  
Public Relations Officer,

## **BACKWARD CLASS CELL**

The Backward Class Cell has come into existence and is put under the control and supervision of D. M. C. (P) with a special Officer, in-charge of the Cell with a view to checking whether the Government policies with regard to reservation of vacancies for Backward Class Communities as per prescribed percentage in the matter of recruitment and at the stage of promotion are being implemented effectively in the Corporation.

The Department collects periodical and other information regarding recruitment and promotion of Backward Classes from various departments of the Corporation as required by the Government from time to time and quarterly report is submitted to the Government. Similarly, six-monthly reports regarding appointment of Backward Class persons by recruitment and promotion in the Corporation are also submitted to the Corporation.

During the year under report, 237 proposals involving the question of reservation, were referred to the Cell for advice, scrutiny etc.

30 complaints and grievances of Backward Class employees about the reservation, promotion, seniority etc. were attended to by the Department.

Dy. Personnel Officer (Backward Class Cell) or his representatives serves as a member on the panel of recruitment of Apprentice Clerk, Teacher etc.

Sd/-

Dy. Personnel Officer  
(Backward Class Cell)

## LABOUR DEPARTMENT

### High lights : —

(1) Expenditure —	
(i) Establishment	— Rs. 7,59,277.20
(ii) Other than Estt.	— Rs. 5,40,596.32
(2) Recognised Unions	— 45
(3) Joint Councils	— 9
(4) Welfare Centres	— 51
(5) Average daily attendance of Welfare Centres	—
(i) Adults	— 4800
(ii) Children	— 5000

### Trade Unions :—

The Trade Union activities among Labour and other staff members were mostly confined to 45 unions recognised by the Municipal Commissioner as per rules and covers about 1.20 lacs employees.

### Labour Relations :—

With a view to promote cordial relations between the employees and the Administration the following steps were continued :—

(i) **Grievance procedure** :—Uptill now the periodical meetings of the Grievance Committee were arranged to look into the problems of all the departments and wards as well as individual grievances under the chairmanship of Labour Officer. However in order to streamline the procedure of redressal of grievances the existing Grievance Committee is replaced by a three tier system of Grievance Committee *i.e.*, Unit Level Committee to Apex Level Committee in which concerned D. M. Cs., Head of the Departments/Ward Officers or their representatives of the recognised unions and the employees are also called for redressal of their grievances and through these Committees efforts were made to settle the grievances existing at the Shop/Unit level if there was no deviation from the existing policies.

(ii) **Individual Grievances** :—The individual grievances received directly from the individual employees or the unions in this department are attended by the representatives of Labour Department.

These grievances are of various nature and can be broadly classified as under :—

- (1) Recruitment and retrenchment.
- (2) Promotions, Transfers, Confirmation & annual increments.
- (3) Fines, Reversion, Suspensions, Removal, Dismissal and other punishments.
- (4) Delay in Payment of wages (wages of leave, Overtime Allowances leave, Travel Assistance etc.) and Allowances.
- (5) Delay in settlement of Provident Fund and other retirement benefits.
- (6) Non-supply of equipments and uniforms.
- (7) Delay in sanctioning leave due.
- (8) House Rent, accommodation and transfers of quarters.

### Disputes :—

During the year under report, 14 disputes were referred to the Commissioner of Labour/Conciliation Officer etc. Out of these 10 disputes, are settled and 4 disputes are still pending before Conciliation Officer/Asstt. Commissioner of Labour (List is attached at Annexure 'A'). Similarly 8 disputes were referred to the Labour/Industrial Courts. Out of these disputes regarding applications under Section 33 (2)(b) of the I. D. Act 1947, two have been decided in favour of administration. In one case the Administration has gone in appeal in the High Court as the same was decided in favour of an employee who was removed from Municipal Service. The remaining 5 disputes are still pending in the Labour/Industrial Court (list is attached at Annexure 'B').

**Scholarship to the children of the Municipal employees :—**

During the year 1986-87, scholarships were sanctioned to 223 Municipal employees for various studies prosecuted by the Wards. Out of them 1 scholarship was granted to the applicant for Engineering Degree, 81 for College Courses including Diploma Courses, 74 for Higher Secondary Education and 67 for Secondary Education. The total amount paid by way of scholarship to the Municipal employees is Rs. 35,355.00.

**Medical Assistance scheme for Municipal employees :—**

Under the above scheme 84 Municipal employees were given the financial assistance to themselves and their dependants during major illness involving huge medical expenses. The total expenditure incurred under this scheme during the year under report is of Rs. 2,09,838.33.

**Immediate Cash Assistance :—**

Under the scheme for granting Immediate Cash Assistance of Rs. 500/- each to the direct dependants for the funeral expenses of the Municipal employees who die while in service, 391 direct dependants of the deceased Municipal employees were given assistance and the total amount disbursed for the purpose was Rs. 1,95,500/- during the year under report.

**Inter Ward/Inter Departmental Drama Competitions :—**

16 Wards/Departments took part in the Inter Ward/ Inter departmental drama Competitions held at Birla Kreedra Kendra.

First three dramas were awarded with rotating trophies. The prizes of Rs. 251/- each were awarded to the Best Actor, the Best Actress, the Best Director, and for Best setting and 27 consolation of Rs. 51/- each were awarded for good acting.

The prize winning departments and individual Best Prize Winners are as follows :—

**Best Individual Prize Winners .**

Sr. No.	Prize for	Name of the prize winner	Name of the Drama
(1)	Best Director.	Shri Manohar Surve.	Alawara Daku.
(2)	Best Art Director.	Shri Prakash Mayekar.	Rang Savalya
(3)	Best Author.	Shri Sunil Kambli.	Pashani Kaul.
(4)	Best Actor.	Shri K. B. Waman.	Aranyadaha.
(5)	Best Actress.	Smt. Pratibha Amrute.	Man Dhuwadhar.

- (1) First Prize for drama  
 (2) Second Prize for drama  
 (3) Third prize for drama

- H. E.'s Deptt. — Rang Savalya.  
 — C. A.'s Deptt. — Alwara Daku.  
 — E. E. (Mech.) — Pashani Kaul.

**Recruitment of Telephone Operator :—**

The work of recruitment, promotion, confirmation of Telephone Operators and the allotment of individual telephones as well as installation of Telephone Boards in various Municipal Department/Wards and Hospitals is being handled by the Labour Department.

During the year under report—

- (i) 40 Telephone Operators 'B' Grade are appointed.
- (ii) 17 Telephone Operators 'B' Grade were promoted to the Post of Telephone Operator 'A' Grade.

**Recruitment and absorption of Preferential Treatment candidates in different posts.**

During the year under report, 59 P. T. candidates were appointed as Part time Registration Asstts. and 8 P. T. candidates were absorbed in the Full-time Sub-clerical posts. Likewise 48 Part-time Registration Asstts. were promoted to the posts of Full-time Reg. Asstts. were promoted to the posts of Full-time Reg. Asstts./Record Asstt. Besides, 343 P. T. candidates were recruited in the post of Labourer/Ayah/Sweeper/Hamal etc. and 202 P. T. candidates were appointed in the post of School Peon, Office Peon and other clerical posts.

**Welfare Branch :—**

51 Welfare Centres are run by this department and various activities are conducted. On an average daily attendance of the Adult Male/Female participants and children at the different Welfare centres is 4800 and 5000 respectively. The following regular activities conducted at the different welfare centres are as under :—

**For Women and Girls.**

Sewing, Embroidery, Knitting, Cooking, Handicraft, Indoor and Outdoor games, Music, Dance, etc. guides and Bulbul activities are conducted for girls.

**For Adults and Boys.**

Indoor and Outdoor games, Gymnasium, Dramatics, etc.

In addition to the above, Inter Centre Tournaments, Competitions and other centralised activities are conducted as mentioned below :—

**Inter Center Tournaments :—**

Inter Centers Tournaments such as

- (a) Volley Ball.
- (b) Carrom.
- (c) Kabaddi.
- (d) Table Tennis etc. were held during the year under report.

**Competitions :—**

- (1) Fancy Dress.
- (2) Rangoli.
- (3) Folk-Dance.
- (4) Elocution Competitions and

(5) Inter Centre one Act play Competitions were held at the Bal Gandharva Rang Mandir, Bandra, in the month of February 1987 and the function of prize distribution of the competition was held at the same place when the Trophies were awarded to the first three dramas. One consolation prize was also awarded to the 4th drama. The cash prizes were given to the Best Actor, Best Actress, Supporting Actor, Actress and Director and 20 consolation prizes were also given to encourage the artists.

**Other functions.**

(1) **Ganpati festival** was organised at 23 welfare centres. Cultural programmes were presented during the festival. The prizes were distributed to the participants to encourage them for taking part in the programmes.

(2) **Buddha Jayanti** :—The Buddha Jayanti functions were organised at 12 welfare centres. Cultural programmes were presented on the occasion and prizes were distributed to the participants to encourage them for taking part in the programme.

(3) **Girl Guide and Bulbul** :—Various activities such as athletics, Petrol Leader Training, First Class Training, Attendant Social Service etc. were held in various centres during the year under report.

(4) **Haldi Kumkum** function was celebrated at all centres.

(5) The **National Days** such as 26th January and 15th August were celebrated at all centres.

(6) **Daru Bandi** :—During the year under report a programme on "Daru Bandi" were arranged at Palton Road Welfare Centre by this department when about 250 Municipal employees residing in the Municipal tenements participated in the programme. A film show on Daru Bandi was shown during the programme and an exhibition was also arranged for three days for the benefit of participants at the time of programme.

(7) **Films shows** :—Documentary and full length films of the Educational and Social importance were shown at different welfare centres during the year.

(8) **Excursion for Nursing Staff** :—The excursion for Nursing Staff was organised in the month of March 1987 to Kanya Kumari, Madurai, Kodai Kanal etc. 42 Nurses of different hospitals and Maternity Homes participated in the excursion.

(9) **Balwadi** :—Seven Balwadies are conducted at the following Welfare Centres.

(1) Bapty Road.

(2) Palton Road.

(3) Colaba.

(4) Chembur.

(5) Byculla Fire Brigade.

(6) Gautam Nagar.

(7) Dadar.

Nearly 350 children of the Municipal employees took advantage of the Balwadies.

**Statistical Cell :—**

(1) The statistical cell of the Corporation is working under Labour Department. The statistical information in respect of total employees, wages, grades etc., are collected paysheetwise from various departments of the Corporation.

(2) Certain statistical information required by the state/Central Govt., and Corporation such as categories posts in the Municipal Corporation etc. has been collected by the Cell during the year under report.



## Annexure 'A'

## Disputes referred to the Commissioner of Labour during the year 1985-86.

Sr. No.	Name of the Union	Department concern	Categories attached	Referred to	Nature of Disputes	Remarks
1.	2.	3.	4.	5.	6.	7.
1.	The Bombay Municipal Subordinate Staff Union.	All Deptts.	Administrative staff.	Asstt. Commissioner of Labour.	Withdrawal of order contained in circular No. MOM/1636 of 20-10-86 regarding late attendance.	Pending before the Asstt. Commissioner of Labour.
2.	-----	C. A.	Probationary Officers	-----	Notice of change in respect of promotion and appointments of probationary officers in C. A. s Department.	-----
3.	-----	All Deptts.	Head Clerks.	-----	Notice of change in respect of change in qualification of Head Clerks.	Outstanding
4.	-----	C. A.	Paymasters/Jr. Paymasters.	-----	Notice of change in respect of security deposit attached to the posts of Paymasters/Jr. Paymasters in C. A.'s Department.	Settled.
5.	-----	All Deptts.	Head Clerks	-----	Notice of change in respect of qualifications for the post of Head Clerk (i.e., clause of viva voce).	Settled.
6.	-----	All Deptts.	All categories.	-----	Notice of change in respect of amendment in the scholarship rules.	Settled.
7.	Municipal Mazdoor Union & Mumbai Mahanagarpalika Karmachari Mahasangh.	All Deptts.	Labour & Technical staff and their supervisory staff.	-----	Notice of change regarding Holiday policy.	Pending with the Government.
8.	Municipal Mazdoor Union.	Nair Hospital	Clerk-cum-Typist, Steno & Servants.	-----	Introduction of second shift for the staff working in National Centre for Neuro Science at Nair Hospital.	Settled.
9.	Municipal Mazdoor Union.	Dy. C. E. (S. W. M.)	Sweeper	-----	Introduction of Mechanical Sweeper in Solid Waste Management Department.	Settled.
10.	Mumbai Mahanagarpalika Karmachari Mahasangh.	All Deptts.	All staff	-----	Illegal lockout at the places of work from 21-1-87 commencing from 9.00 p.m. to 23-1-87 upto 1.00 a.m.	Settled.
11.	Municipal Mazdoor Union.	All Deptts.	All	-----	Dispute regarding charter of demands.	Settled.
12.	Individual (Shri Madha Bhima).	Dy. C. E. (S.W.M.)	Scavengerman	-----	Forcible dispossession of room No. 40, G-Block, Mahalaxmi.	Settled.
13.	Individual (Shri C. S. Joshi).	E.E. Mech. (EIM)	Jr. Steno.	-----	Demand for leave salary.	Settled.
14.	Municipal Mazdoor Union	Security	Security Guards	-----	Reduction of Security Guards in Security Deptts.	Settled.

## ANNEXURE 'B'

Disputes referred to Labour/Industrial Court during the year 1985-86.

Sr. No.	Name of the Union	Department concerned.	Categories attached	Referred to	Nature of disputes.	Remarks.
1.	2.	3.	4.	5.	6.	7.
1.	Individual dispute (S.B. Shinde)	Dy. C. E. (S.W.M.)	Head Clerk	Industrial Tribunal (Approval Application)	Removal from Municipal Service.	Closed.
2.	Individual (S. H. Pandejee)	F. W. U.	Clerk-cum-Cashier	—————	—————	Pending.
3.	Individual (V. G. Deorukhkar)	A. & C.	Octroi Inspector.	—————	—————	Closed.
4.	Individual (Smt. V. N. Vartak)	F. W. U.	Female Field Worker	—————	—————	Pending.
5.	Individual (R. D. Desai)	A. & C.	Octroi Inspector	—————	—————	Pending.
6.	Individual (Smt. Karande)	F. W. U.	Female Field Worker	—————	—————	It was decided in favour of ex-employee. We have gone in appeal and the same is now pending in High Court.
7.	Individual (S. B. Shinde)	Dy. C. E. (S.W.M.)	Head Clerk	Labour Court (Ref. from A. C. L.)	—————	Pending.
8.	Individual (Shri V. G. Deorukhkar)	A. & C.	Octroi Inspector	Labour Court (Ref. from A. C. L.)	—————	Pending.

Sd/-

Labour Officer

D. P. A. R.

## LEGAL DEPARTMENT.

Legal Department deal with all the litigation filed by or against the Corporation in various Courts and Tribunals. In addition, Legal Department gives opinions to various departments of the Corporation on the reference made to it. Legal Department also does the work of drafting Conveyance and other legal documents. It also deal with all other legal matters pertaining to the Corporation. The details are given below :—

	Outstanding at the close of last year.	Received during the year under report	Total	Disposed during the year under report	Balance at the end of the year under report.
	1	2	3	4	5
<b>I Supreme Court</b>	2200	17	2217	2	2215
<b>II High Court</b>					
1. First Appeal	334	34	368	1	367
2. Appeals from order	393	268	661	170	491
3. Letters patent Appeals	10	1	11	...	11
4. Civil Applications	382	232	614	160	454
5. Civil Revision Applications	17	12	29	5	24
6. Writ Petition (Appellate Side)	157	60	217	32	185
7. Long Cause Suit	149	31	180	10	170
8. Arbitration Suit	13	4	17	2	15
9. Insolvency Matter & Company Petitions	105	...	105	1	104
10. Appeal before Division Bench (Original Side).	214	120	334	64	270
11. Writ Petition (O.S.)	1682	482	2164	204	1960
12. Chamber summons in Original Side including Division Bench	...	22	22	18	4
13. Notice of Motion	101	61	162	32	130
14. Land Acquisition Reference	37	...	...	...	37
15. Nagpur High Court Bench	3	...	3	...	3
16. Andhra-Hyderabad High Court	1	...	1	...	1
17. Delhi Metropolitan Court	2	...	2	2	—
18. Madras High Court	...	1	1	...	1
19. Bilaspur Civil Court	...	1	1	...	1
20. Pauper Petition	...	2	2	2	...
21. Interim Petition	...	1	1	1	...
22. Review Petition	...	2	2	...	2
<b>III CITY CIVIL COURT</b>					
1. Suit filed by the Corporation	52	1	53	...	53
2. Suit filed against Corporation	4568	2186	6754	2882	3872
3. Misc. Appeals	157	46	203	33	170
<b>IV SMALL CAUSES COURT</b>					
1. Suits filed by the Corporation	27	3	30	3	27
2. Suits filed against Corporation	245	42	287	10	277
3. Garnishee notices	8	2	10	4	6
4. Notice in suits	55	22	77	37	40
5. Full court Applications (Appeals)	4	2	6	2	4
6. Licences and setback appeals	84	26	110	32	78
7. Appeals against Rateable Value	2944	334	3278	1537	1741
8. References under Section 503 of B. M.C. Act.	212	31	243	44	199

	1	2	3	4	5
<b>V LABOUR AND INDUSTRIAL TRIBUNAL COURTS.</b>					
1. Labour Court Applications under Workmens' Compensation & Authority under Payment of Wages Act.	43	53	96	8	88
2. Motor Accidents Claim Tribunal	103	2	105	13	92
<b>VI POLICE COURT</b>					
1. Case under B. M. C. Act.	65011	32501	97512	24261	73251
2. High Court Criminal Appeal	48	10	58	3	55
3. High Court Criminal Writ Petition	4	4	8	3	5
4. High Court Criminal Application	4	14	18	16	2
5. High Court Criminal Revision Application	4	2	6	2	4
6. Sessions Court Crim. Appln.	49	...	49	1	48
7. Session Court Criminal R.A.	49	5	54	3	51
8. Case under Shops and Establishment Act.	49	2	51	1	50
9. Criminal P. Code	10	11	21	8	13
10. I. P. C.	71	42	113	6	107
11. P. F. A.	356	44	400	42	358
12. Traffic	16	...	16	...	16
13. Cruelty to Animal Act.	...	1	1	...	1
14. Under Section 515 of B. M. C. Act.	90	31	121	23	98
15. Contested cases under B. M. C. Act.	88	73	161	58	103
16. M. R. T. P.	74	29	103	16	87
17. Lunatic Cases	16	...	16	...	16
18. Protection of Civil Rights	2	2	4	1	3
19. Tree Cutting cases	10	14	24	5	19
20. Slum Tribunal	1	...	1	...	1
21. Provident Fund cases	...	25	25	...	25
22. Total amount of fine imposed during the year	Rs. 53,31,537.00.				

1.	2	3
<b>VII Municipal Enquiries (Courts)</b> (Section 105B of the B. M. C. Act).		
1. Pending cases as on 1-4-86		721
2. Cases received during the year from 1-4-86 to 31-3-87.		5857
3. Total cases received during the year from 1-4-86 to 31-3-87		6578
4. Total cases disposed of during the year 86-87.		2880
5. Number of cases pending as on 1-4-87.		3698
<b>VIII CONVEYANCING SECTION</b>		
1. Deed of Conveyance and Agreement (F. S. I.).		207
2. Certificate of Sale.		10
3. Deed of Confirmation		3
4. Agreement		55
5. Indemnity Bond		8
6. Cases for compensation for set back (Sub.).		202
7. Cases for compensation for set back (City)		15

1	2	3
8. Advice matter in respect of stamp duty, Agreement, Lease, Town Planning, Set-back, P.F. Claim etc.		2346
9. Indenture of Deed of Mortgage, Deed of Receipt (Municipal Corporation Housing Society)		27
10. Further Charge (Municipal Corporation Housing (Society)		1
11. Appeal Matter before charity Commissioner		2
12. Appeal matter before Addl. Commissioner (B. & B.)		5
13. Appeal matter before Co-operative Society's Court		3
14. Appeal at Thanne Civil Court		3
15. Appeal matter before Sub-Division Officer (B. S. B.)		4
16. Appeal matter before Dy. Collector (B.S.D.) in N.A. Assessment		3
17. Appeal matter before Tahasildar (Mulund)		Nil.
18. Appeal matter at Shahapur Civil Court		2
19. Appeal matter before Supdt. of Land Record		1
20. Individual loan		161
21. Assignment		15
22. Indemnity Bonds		18
23. Draft Lease		2
24. Draft Licence & Deed of Covenants		15
25. Power of Attorney		20
26. Probate		22
27. Declaration		Nil.
28. Letters of Administration		12
29. Draft Licence to Assign.		10
30. Release Deed		2
31. Rectification		1
32. Reconveyance		1
33. Consent Decree		8
34. Gift Deed		2
35. Partition		2
36. Appointment of New Trustees and Settlement		2
37. Partnership & Retirement		3
38. Legal Notice		25
39. Total Receipts		1092
40. Opinion on references from Department and parties		497
41. Opinion on documents and drafting documents Legal notices.		435

Sd/-  
Law Officer.

## CENTRAL STORES

The Stores Department acts as a Central Purchasing and Stores Agency of the Corporation for procuring, storing and supplying various items to all the departments. There are about 298 schedules covering 3150 items. The purchases are made by inviting tenders by public Advertisement and/or by circular letters to known dealers.

The transactions made during the year under report are shown below in Statement 'A'.

During the year under report, the expenditure incurred on Establishment was Rs. 26,90,806 Advertisement Rs. 1,23,859.80, Printing and Stationery Rs. 28,220, Misc., viz., Clothing, Books and Dead Stock, electricity & telephones charges, etc., Rs. 1,66,780.40 and Maintenance and Repairs, Rs. 2,01,945.00.

During the year, the mark of tenders invited was 279, 212, Quotations were invited, 265 Contracts were executed and the marks of purchase orders placed was 1535.

During the year, 119 notices were served on defaulting suppliers and, in 6 cases, tender deposits were forfeited. For delayed supplies, penalties were also recovered as per the terms of the contracts.

### FUTURE PLANNING

The Central Stores is working on manual system and there is no effective control on stock levels at the ward stores and other departmental stores even though some kind of budget to the control is exercised by the C. A. In order to achieve the objective of stock control and to optimise investment in material, it has been decided to computerise the stock accounting, inventory control and suppliers' accounting.

Since April 1986, Computer run was started for the Central Stores of C. S. and for five Sub-Stores, viz., D1, D2 of 'D' Ward, F1, F2 of F/S Ward and of K/E Ward. Further, Since April 1986, the Ward Stores of 'B', K/W, P/S, L/, N, Wards have been taken on Computer run month by month upto July 1986. Further, F3, F4 Sub-Stores of F/N Ward, G3, G4, Sub-Stores of G/N Ward and G1 Sub-Store of G/S Ward are also being taken on Computer run. Subsequently, 14 sub-stores of the remaining wards will be taken on Computer run. with M. C.'s sanction, it has already been decided to reorganise Ward sub-stores by bringing them under the control of Central Stores and necessary arrangements as sanctioned being made for the purpose.

### STATEMENT 'A'

Showing the transactions made during the year 1986-1987.

Particulars	Capital Stores	General Stores.	Total of Columns 2 & 3
Value of Stores as on 1st April 1986.	1,20,82,208.99	45,38,358.11	1,66,20,567.10
Value of Stores received including transfer during the year 1986-87.	13,89,87,518.65	3,20,95,396.67	17,10,82,915.32
<b>TOTAL :</b>	<b>15,10,69,727.64</b>	<b>3,66,33,754.78</b>	<b>77,03,482.42</b>
<i>Less:</i> Value of Stores issued Including transfers during the year 1986-87.	12,56,97,510.01	3,10,83,500.07	15,67,81,010.08
Closing Balance as on 31st March 1987.	2,53,72,217.63	55,50,254.71	3,09,22,472.34
Average annual inventory.	31,52,722.16	8,93,174.61	40,45,896.77
Ratio of Average inventory level to monthly issue.	0.199	0.097	0.296

## ADMINISTRATIVE OFFICER (ENQUIRIES)

The Department of Administrative Officer (Enquiries) is a Central Agency for investigation of major and serious lapses on the part of Municipal employees belonging to various Departments. Besides, holding and conducting Departmental Enquiries against delinquent employees is another major function of the Department.

During the year of the report, the Department was headed by the Administrative Officer (Enquiries) who was assisted by three Deputy Administrative Officers (Enquiries), Eight Chief Inspectors (Enquiries), 36 Inspectors (Enquiries) and other administrative staff.

The department carries out the following functions.

- (1)
  - (a) Detection of mal-practices indulged in by municipal employees of all categories including officers, such as acceptance of illegal gratification, defalcation, misappropriation of municipal money or property and other misconduct.
  - (b) Holding of departmental enquiries against the municipal employees and recommending to appropriate authority the result for imposing appropriate penalty.
  - (c) Giving advice and instructions in the matter of investigation and departmental enquiries to the other departments, whenever sought.
  - (d) Verification of inventories prepared by ward staff before shifting the slum dwellers from old places to new places.
- (2) During the year, the department conducted 609 investigations, paid 809 surprise visits to various municipal institutions and mustering places and disposed off 4539 cases of miscellaneous nature. The details of investigations are as under.

(a) Cases of alleged acceptance of illegal gratification and misappropriation of municipal money	49
(b) Cases of irregularities of major nature	135
(c) Cases of irregularities of minor nature	425
	609

the details of action taken are as under :—

1. Dismissal	4
2. Removal	12
3. Demotion	4
4. Withholding of increments	91
5. Fines imposed	39
6. Censure, Caution and Warnings	19
7. Suspension for 3 days	3
8. Recovery on account of loss to the Corporation	8
9. Exonerated as the charges were not proved	5
	185

### Some Important Cases.

(1) Alleged diversion of cement issued from Controller of Stores premises to P. W. C. contractors to places other than scheduled godowns and misappropriation thereof in which one full loaded lorry of cement containing 200 bags was diverted to Mazgaon area instead of unloading at Nimakar Marg, 'D' Ward maintenance chowky. The necessary F. I. R. was lodged at Agripada Police station and 4 persons have been arrested.

(2) Surprise raids were arranged and carried out by intercepting the vehicles, after they had entered into Bombay City limits and/or passed through certain octroi check posts and evasion of octroi in those cases was detected. As a result of such raids, an amount to the tune of Rs. 7,11,779.14 towards the octroi duty was recovered at the instance of this department.

(3) Investigations in respect of Modus Operandi of syphoning of municipal funds by the exporters and/or licensed Octroi Refund Dalals by lodging bogus octroi refund claims revealed in the last year were further vigorously pursued as a result of which prima facie cases were established against 4 licenced Octroi Refund Dalals for lodging alleged bogus octroi refund claims and their licences were not renewed for the year 1987-88. Income-Tax Department also scooped down on 10 Octroi Refund Dalals. Investigations in the cases are in final stage of completion. Cumulative deterrent effect of this action was seen quite feasible in that about 52% claims in terms of number amounting to about Rs. 3 crores were received less, during the year 1987 as compared to year 1985-86.

Investigations in respect of misuse of 'N' form facility *i.e.*, for immediate exportation of goods without payment of octroi detected in last November, 1986, were carried further as a result of which *prima facie* case against 24 inspectorial staff of Octroi Department was established for serious irregularities and they were put under suspension pending D. E. ordered against them which is in progress.

(4) On a report received from A & C's Department that on Ward Inspector of Assessment Wing had mis-appropriated municipal money to the tune of about Rs. 2,22,593/- detailed investigations were carried out establishing a *prima facie* case against him. Though he repaid the misappropriated money and remitted to the municipal treasury, he was placed under suspension and D. E. against him is in progress.

(5) On a report received from W. O. 'S' Ward about the serious irregularities committed by members of the pannel for recruitment of labourers, investigations were completed and a clear out *prima facie* case against one Assistant Labour Officer and one Assistant Head Supervisor being members of the pannel was established. Irregularities established being serious, they were ordered to be placed under suspension and D. E. is in progress.

(6) One monthly tenant of the owner of the land at Chembur repeatedly insisted since 1973 to allot alternative pitches to 81 persons on the ground that they were affected by the development of 60' D. P. Road leading to Deonar Abattoir not known as Lokhande Marg. though his claim were previously rejected by Municipal Administration, he managed to reopen the issue and hence this office carried out extensive investigations which revealed that his claim for allotment of pitches was not maintainable and he and the Government were suitably informed.

(7) on receipt of complaint that Corporation has been defrauded in estimating salvage value of the structure to be demolished by the concerned engineering staff of E-Ward, preliminary investigations were carried out which established a *prima facie* case for serious irregularities on part of Executive Engineer, Assistant Engineer, Sub-Engineer and Junior Engineer of Engineering Department and Assistant Accountant of C. A.'s Department. To support the allegations, the concerned engineering staff were placed under suspension and D. E. order against them is in progress.

Sd/-

Administrative Officer  
(Enquiries) I/c



# MUMBAI MUNICIPAL SECURITY FORCE

## SALIENT FEATURES :—

### I — Income & Expenditure :

(i) Income	.. .. .	₹ 6,400/-.
(ii) Expenditure	.. .. .	4,61,13,478.00

### (II) — Departmental Enquiries completed ———

From the year 1984, Departmental Enquiries in respect of employees of other departments orders on the basis of P. Es. conducted by this department are transferred to Administrative Office (Enquiries). However, the Departmental Enquiries against the employees of Security Department are conducted by Dy. Security Officer of this department.

Preliminary Enquiries completed	:	106
III — Theft etc. cases reported	:	269
IV — Value of Municipal Property involved.	:	Rs. 39,396.37
V — Cases detected	:	50
VI — Value of property recovered	:	Rs. 11,648.37
VII — Formation of Security Cell for Water Supply & Sewerage.	:	

## Departmental Information :

There are 3552 men working on the Establishment of Security Force. A separate Security Force Wing guarding the installations of Water Supply & Sewerage Department has been formulated. This Unit is functioning under the administrative control of Security Officer (WSSD) and functional control of Ch. Engineer (C. S.).

The Administration of the department is now decentralised in three zones *i.e.*, City; Eastern Subs., and Western Subs. headed by the Dy. Security Officers.

The main work of Security Force is protection of Municipal Property against theft, pilferages etc., as also to conduct — preliminary enquiries into cases of theft, pilferages, misbehaviour, assaults etc.

The Security Assistant have completed 106 Preliminary Enquiries during the year in the cases of desertion of duty, sleeping while on duty, unauthorised absence from duty for long periods, theft, pilferages and assaults etc.

The classification of Preliminary Enquiries is as under :—

Cases of desertion of duty, sleeping while on duty, unauthorised absence etc.	Theft & Pilferage cases.	Other cases such as assault, misbehaviour.	Total
65	12	29	106

The work of theft cases detected and the recovery of stolen property is tabulated below :—

	Total No. of cases.	Property lost	Cases detected	Property recovered
Hospital	75	9,561.37	31	5,188.37
Other	194	29,835.00	37	6,460.00

The Security Force has also been engaged in special bandobast of Corporation Meeting at the Corporation Hall. The Offices of the Security Force are called on special duty round the clocks in emergencies like strikes, bundh etc.

The Security Force participates in Flag Salutation Ceremony on the Republic Day and Independence Day every year when special staff is called for parade.

The Security Force has got its own Training School and during the year 1986-87 Security Guards (including recruits were imparted training.

The Mumbai Municipal Security Force has organised its own Band Unit. It gives its programme on Sundays in Public Parks and Gardens as required by the Garden Supdt. The Standing Committee has given sanction for Mumbai Municipal Security Unit to give Band programmes to the public on hire basis on prescribed rates.

There were 3552 men working on the Establishment which includes Officers, Subordinates and Labour Staff. The Security Force recruited 170 candidates as security guards during the year.

(V. T. Davare)

## MUNICIPAL PRINTING PRESS

### HIGHLIGHTS :

<b>(1) Expenditure :</b>		
(a) Establishment		Rs. : 1,04,32,848.00
(b) Other items		Rs. : 90,38,278.00
<b>(2) Jobs :</b>		
(a) Printing		8502 + 31 8533
(b) Stationery		2129 + 3 2132
<b>(3) Printed pages for Corporation and their various Committees (Both Marathi &amp; English)</b>		23496
<b>(4) Amount Charged :</b>		
(a) To Departments :		Rs. : 2,00,93,705.96
(b) To Private Parties :		Rs. : 1,97,149.04

During the year, the press carried out 8533 Printing Jobs both Departments & Private in addition to supply of stationery jobs at a total cost of Rs. 2,00,93,706 Department undertook 31 private printing jobs and 3 jobs of stationery and earned Rs. 1,97,149. There was a surplus of Rs. 6,33,807 against the last years working deficit of Rs. 16,50,017. In order to meet the requirements, department purchased 487 Metric tons of various kinds of paper from the market and consumed total quantity of 479 Metric tons which included old stocks.

The comparative statement of jobs carried out and paper consumed during the year 1985-86 & 1986-87 is furnished as below :—

### Statement—I (Jobs carried out)

Description	1985-86		1986-87	
	Jobs	Pages	Jobs	Pages
(1) Departmental (Printing)	6812	...	8502	...
(2) Departmental (Stationery)	1518	...	2129	...
(3) Pvt. Parties (Printing)	19	...	21	...
(4) Pvt. Parties (Stationery)	5	...	3	...
(5) B.E.S.T. (Undertaking)	10	...	10	...
(6) Corporation & its Committees	...	14158 (E)	...	17433 (E)
	...	3789 (M)	...	3916 (M)
(7) Corporation (Record)	...	4596 (E)	...	999 (E)
	...	953 (M)	...	807 (M)

('E' denotes English & 'M' denotes Marathi)

### Statement II (Paper consumed)

Description	1985-86 in M. T.	1986-87 in M. T.
(i) White	271½	303
(ii) Nepa	56	75
(iii) Other kinds	105	101
Total :	432½	Total : 479

Certain jobs were carried out through Outside Agencies at a cost of Rs. 1,97,280 as against Rs. 1,64,838 in the previous year. In addition to regular work, the press carried out printing of (i) Marathi Budget and Establishment Schedule comprising of 5956 pages. (ii) Budget 'G' both Marathi and English against heavy odds.

The Press is working in two shifts with total strength of the 444 Workers as on 28th February 1987 as against 501 Workers as on 28th February 1986. 26 Apprentices under Apprenticeship Act 1961 were engaged in this year as against 13 on 28th February 1986. The Labour relations were cordial and their grievances were redressed on the spot wherever practicable.

### Workload Summary as per Performance Budget

Sr. No.	Description of Activity	Unit of Measurement.	Budget Estimates 1986-87	Actual 1986-87
(1)	(2)	(3)	(4)	(5)
1.	(A) Agenda of Meeting of Corporation & various Committees.	Pages	30,000	17,433
	(B) Agenda of meeting of Corporation & various Committees (Marathi)	Pages	6,000	3,916
2.	Departmental Printing Works such as Forms & Registers, etc.	Jobs.	12,000	8,502
3.	Supplying stationery items to various departments.	Jobs.	2,000	2129
4.	Record of proceedings of Corporation Committee.	Pages	15,000	1806
5.	Printing of Administration report.	Pages	400	784
6.	Budget Estimates and Establishment Schedule in English & Marathi	Pages	6,000	5,956
7.	Supply of Stationery items & Printing, Private Parties Jobs.	Jobs	50	34

### ADVANCES DEPARTMENTAL WORKS MUNICIPAL PRINTING PRESS.

To opening balance (Bills)	8,44,778.74	By recovery during the year	2,01,78,222.12
To opening stock	84,60,369.23	By Misc. Rev.	49,807.78
To Exp. A/c.		By O/s bills.	7,71,168.26
I—Establishment	1,04,32,848.12	By closing stock	84,10,882.69
II—Contingencies	5,67,896.88		
III—Rep. & Maint.	7,03,001.70		
IV—Stores	55,72,897.88		
V—Elect. Power	1,86,091.68		
VI—Works through outside Agencies	1,97,280.47		
VII—Debt charges	17,13,210.91		
VIII—Transport charges	97,898.56		
	1,94,71,126.20		
To surplus (Excess of income over expenditure)	6,33,806.68		
	<u>2,94,10,080.85</u>		<u>2,95,10,080.85</u>

M. M. Kamat,  
Manager,  
Municipal Printing Press.

## ROTA PRINTING UNIT

### IMPORTANT FEATURES

The Rota Printing Unit carry out the work of printing and supplying copies of the Municipal Commissioner's and Municipal Chief Auditor's Administration Reports in Marathi, urgent items and accompaniments of the Agenda of the Corporation and its various Committees, and all the printing work of Tree Authority both in English and Marathi. It also undertakes the work of printing and supplying copies of Annual Examination Question papers of Primary and Secondary Schools of the Corporation in 11 different languages viz. Marathi, Hindi, Gujarathi, English, Urdu, Kannad, Tamil, Telugu, Sindhi, Devnagari, Sindhi, Arabic and Malyalam, and printing of other departmental jobs such as reports, defferent types of formats, circulars, H. C.'s Examination Question papers, Asstt. Supdt. (A. & C.)'s question papers and lower cadre examination question papers, hand-outs for the above Departmental Examinations.

The Planning Section of Municipal Printing Press is carrying out the work of preparing plates of various jobs, 70% printing of which is carried out by the Rota Printing Unit, in addition to the printing work of the department.

#### Expenditure :

(a) Establishment	Rs. 12,22,355.35
(b) Other Expenditure	Rs. 13,22,595.87

	Pages	Cost
(a) Printing of Administration Report of M. C.'s & M. C. A.'s Deptts. in Marathi.	587	44,128.00
(b) Departmental jobs such as formats, circulars, reports etc.	Jobs. 1219	8,88,638.16
(c) Urgent items & accompaniments and the Agenda of the Corporation and its various Committees.	Jobs. 1337	2,56,244.72
(d) Annual Examination Question Papers of Primary & Secondary Schools of E.O.'s Department.	Lac. 9038950	16,71,387.45

In the Reporting year, there were 56 employees on the Establishment of the Rota Printing Unit.

The various jobs-works received in the Rota Printing Unit are of the urgent and time limit nature and the same are executed systematically.

The printing work of Annual Examination Question papers of E. O. s department is of confidential nature and the same is executed very punctually and according to the specific time-schedule.

Sd/-  
Superintendent,  
Rota Printing Unit.

**FINANCE**  
**(Budgets, A, B & E)**

Report from the Chief Accountant on the accounts of the General Municipal Administration, the Improvement Schemes and the Education Fund for the year 1986-87.

**GENERAL MUNICIPAL ADMINISTRATION**  
**(Budget 'A')**

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

	1986-87		1985-86	
Revenue Account (Budget 'A')	Budget Estimates	Revised Estimates	Actuals	Actuals
	Rs.	Rs.	Rs.	Rs.
Opening Balance ..	20,54,84,600	20,35,50,837	20,35,50,837	12,53,091
Income ..	3,63,54,36,750	3,36,61,79,950	3,28,25,39,714	2,93,53,27,839
Expenditure ..	3,83,34,42,940	3,11,79,32,410	3,04,64,90,381	2,74,86,46,241
Surplus (+) or Deficit (—) during the year.	— 19,80,06,190	+ 24,82,47,540	+ 23,60,49,333	+ 18,66,81,598
Balance ..	+ 74,78,410	+ 45,17,98,377	+ 43,96,00,170	+ 18,79,34,689
Increase (—) Decrease (+) in Reservation for Advances etc. ..	..	— 11,58,70,000	— 29,14,01,106	+ 1,56,16,148
Closing Balance ..	+ 74,78,410	+ 33,59,28,377	+ 14,81,99,064	20,35,50,837

2. The details of Reservation for Advances etc.		Rs.
In Reserve Stores		16,93,285
In Renewed Grant		12,28,00,000
In Misc. Advances		16,69,07,821
Total Increases ..		29,14,01,106

Comparative Statement showing the actual position of Surplus Cash Balance as on 31st March 1987 and that as shown in the Revised Estimates for 1986-87 in Corporation Budget.

(Rs. in lakhs)

Revenue Account Budget 'A'	As adopted by the Corporation (R.E.)	Actuals	Variation Com- pared with Revis- ed Estimates o the Corporation
	Rs.	Rs.	Rs.
Opening Balance ..	20,35,50	20,35,50	..
Income ..	3,36,61,80	3,28,25,40	8,36,40 (Decrease)
Expenditure ..	3,11,79,32	3,04,64,90	7,14,42 (Decrease)
Deficit (—) Surplus (+) for the year	+ 24,82,48	+ 23,60,50	— 1,21,98
Deficit/Surplus ..	+ 45,17,98	+ 43,96,00	— 1,21,98
Deduct/Add Increase (—) Decrease (+) in Reservation for Advances etc ..	— 11,58,70	— 29,14,01	— 17,55,31
Net Deficit/Surplus (—)(+)	+ 33,59,28	+ 14,81,99	— 18,77,29

3. The net unhypothecated Surplus Cash Balance on 31st March, 1987 was as under :--

Liabilities		Assets	
	Rs.		Rs.
Reserve Stores Account ..	72,65,558	Surplus Fund as per Appendix No.2	70,78,65,102
Miscellaneous Advances ..	55,24,00,480		
Minimum required by Law ..	1,00,000		
Surplus Cash Balance ..	14,80,99,064		
	<u>70,78,65,102</u>		<u>70,78,65,102</u>

### RESERVE STORES AND CAPITAL STORES

4. Position of Reserve Stores and Capital Stores was as under :

Name of the account	Opening Balances as on 1-4-86	Receipts during the year	Total	Issues during the year	Closing Balance as on 31-3-87
	Rs.	Rs.	Rs.	Rs.	Rs.
(1) Advances Reserve Stores ..	91,98,559	3,32,53,144	4,24,51,703	3,24,99,189	99,52,514*
(2) Advances Reserve Stores foras Rd. Depot	1,18,190	18,68,320	19,86,510	12,93,131	6,93,379*
(3) Advances Capital Stores ..	3,20,30,817	9,69,18,448	12,89,49,265	10,12,26,571	2,77,22,694
(4) Advances Capital Stores Foras Rd Depot	95,842	7,83,242	8,79,084	4,00,051	4,79,033
Total ..	4,14,43,408	13,28,23,154	17,42,66,562	13,54,18,942	3,88,47,620

\* The difference of Rs. 43,09,917 and Rs. 9,29,582 as per the books of C.S. and E.E. Mech (South), respectively have been shown under respective unadjusted Reserve Stores Account.

5. The Loan Liabilities at the beginning and at the end of the year were as under :

Budget 'A'	Outstanding Debt as on 1st April 1986	Loan raised during the year	Repayment during the year	Loan outstanding as on 31st March 1987
	Rs.	Rs.	Rs.	Rs.
Division-I ..	1,49,95,68,964	23,59,94,432	3,32,35,404	1,70,23,27,992
Division-II ..	1,45,06,14,630	16,89,00,000	3,92,56,350	1,58,02,58,280
Division-III ..	29,00,00,000	15,00,00,000	..	44,00,00,000
Total ..	3,24,01,83,594	55,48,94,432	7,24,91,754	3,72,25,86,272

The break up of the Loans raised during the year were as under :

	Rs.	Rs.	
(1) Division-I	11,00,00,000	21,89,00,000	Being the Loan issued at par with the currency of 15 years at 11 per cent interest per annum and Sinking Fund improving at 7 per cent basis per annum raised by public subscription (out of Rs. 2,530 lakhs Loan) sanctioned under G.R. No. LLB/1086/466/C.R./142-86-UD-13, dated 27th October, 1986 in response to Corporation's Loan application for Rs. 9,000 lakhs under lying C.R. No. 418 of 19th September 1986.
Division-II	10,89,00,000		
(2) Division-I	10,00,00,000		Being the Loan amount towards Rs. 3.100 lakhs issued at par with a currency of 25 years at 11 per cent interest per annum and Sinking Fund improving at 7 percent basis per annum raised by Internal Fund out of Rs. 3,300 lakhs Loan sanctioned under G.R. No. LLB/1186/466/CR/142-86/UD-26, dated the 25th March 1987.
Division-II	6,00,00,000		
Division-III	15,00,00,000	31,00,00,000	
(3) Division-I (BUDP-I)		2,59,94,432	Being the Loan of Rs. 2,22,00,000 out of Rs. 51.97 Crores received from Government of Maharashtra for Affordable Low Income Shelter programme B.U.D.P. I-under Budgets A, B & G and Rs. 37,94,432 interest at the rate of 8.5 per cent per annum for the year 1986-87 being capitalised vide G.R. No. WBP/1083/1192 (71) D-X, dated 12th April, 1984 and under subsidiary Loan agreement vide C.R. No. 90 of 25-7-85.
Total		<u>55,48,94,432</u>	

The repayments of the Loans during the year were as under.

	Rs.	
Division-I (1)	41,96,935	Repayment of 9.2 per cent I.B.R.D. (World Bank) Loan through B.M.R.D.A. for Traffic Operations.
(2)	5,06,666	Repayment of Loan received from General Insurance Corporation of India through Govt. of Maharashtra for purchase of Capital Fire Fighting Equipments.
(3)	2,47,50,000	Repayment of 6½ percent Rs. 225 lakhs B. M. C. Loan 1976-77.
(4)	37,81,803	Repayment of 4½ percent Rs. 225 lakhs B.M.C. loan 1961-62e including Rs. 1,87,18,198.22 of Budget 'G'.
	<u>3,32,35,404</u>	



## Repay to Debenture Holders out of Sinking Fund Investment.

## Division—II &amp; III.

(1)	2,20,00,000	6 1/4 percent Rs. 220 lakhs Public Loan 1975-76.
(2)	1,37,50,000	6 1/4 percent Rs. 137.50 lakhs Public Loan 75-76.
(3)	35,06,350	6 1/4 percent Rs. 50 lakhs internal Loan 1961-62.
<b>TOTAL</b>	<u>3,92,56,350</u>	
<b>G. T.</b>	<u>7,24,91,754</u>	

## SINKING FUND.

5-A. The position of the Sinking Fund is as shown below.

Budget A	Amount of Fund on 1st April 1986	Interest etc. realised	Sinking Fund Instalments.	Withdrawn for repayment of Loans.	Excess accumulation Tr. to Municipal General Fund:	Amount of Fund on 31st March 1987
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Div.-I	36,79,39,167	2,38,52,959	5,19,41,944	4,72,50,000	..	39,64,84,070
Div.-II ..	30,57,23,013	2,07,55,729	7,66,20,594	4,07,50,000	..	36,23,49,336
Div.-III ..	21,02,798	1,57,702	45,85,051	..	..	68,45,551
<b>Total ..</b>	<b>67,57,64,978</b>	<b>4,47,66,390</b>	<b>13,31,47,589</b>	<b>8,80,00,000</b>	<b>..</b>	<b>76,56,78,957</b>

Out of this 22,19,68,376 Pertaining to, Div.-I Rs. 18,60,42,473, Div.-II Rs. 1,85,64,141 Div.-III and Rs. 1,73,61,762 respectively related to Budget 'G'.

Budget 'A'	Book Value of Securities and Cash as on 31-3-87	Market Value of Securities interest accrued upto 31-3-87 and cash as on 31-3-87	Amount of Sinking Fund which should have accumulated upto 31-3-87	Excess or less in Sinking Fund as on 31-3-1987
	Rs.	Rs.	Rs.	Rs.
Division-I	39,64,84,070	39,91,88,370	39,14,02,874	+ 77,85,496
Division-II	36,23,49,336	36,56,41,608	37,45,29,210	-88,87,602
Division-III	68,45,551	68,47,643	68,32,993	+14,650
<b>Total</b>	<b>76,56,78,957</b>	<b>77,16,77,621</b>	<b>77,27,65,077</b>	<b>-10,87,456</b>

## REVENUE INCOME

6. The estimated Income for the year was Rs. 3,63,54,36,750 and Revised Estimates was Rs. 3,36,61,79,950. The actuals amounted to Rs. 3,28,25,39,714 resulting in decrease, of Rs. 35,28,97,036 on the Budget Estimates and of Rs. 8,36,40,236 on the Revised Estimates.

## OCTROI:

6A. The gross collections for the year were estimated at Rs. 2,71,10,00,000 the refunds and Commission charges at Rs. 19,95,00,000 and the net revenue at Rs. 2,51,15,00,000. The revenue collected and paid in to the Municipal Treasury in the year amounted to Rs. 2,27,85,49,433 and after deducting the amount of Rs. 16,94,89,689 (on account of refunds Rs. 15,68,67,888 and on account of Commission for collection Rs. 1,26,21,801), credited to the separate, Revenue Head, the net receipts amounted to Rs. 2,10,90,59,744, showing an increase of Rs. 19,13,03,850 as compared with the actuals of the previous year (i.e. Rs. 1,91,77,55,894).

## REVENUE EXPENDITURE.

	Rs.
7. The final sanctioned grants amounted in the aggregate to Rs. 4,22,64,14,593.	
Budget Grants .. .. .	3,83,34,42,940
Unexpended Grants for previous years renewed for expenditure ..	27,30,00,000
Additional grants .. .. .	11,99,71,653
Final sanctioned grants ..	4,22,64,14,593

The transfers from one Budget Head to another without affecting the total Budget Provisions for the year amounted to Rs. 1,21,70,769.

8. Against the final sanctioned grants for the year aggregating to Rs. 4,22,64,14,593 as stated above the actuals amounted to Rs. 3,04,64,90,381 leaving an unexpended balance as stated above the actuals amounted to Rs. 3,04,64,90,381 leaving an unexpended balance of Rs. 1,17,99,24,212 at the close of the year. Out of this balance the amount of Rs. 39,58,00,000 is being renewed for expenditure during 1987-88 as against Rs. 27,30,00,000 in 1986-87 and the remaining balance of Rs. 78,41,24,212 is being allowed to lapse.

9. The percentage of establishment expenditure to the total expenditure for the year 1986-87 and the previous year is as given below.

Budget 'A'	Establishment Cost	Percentage of Establishment cost to total Expenditure during.	
		1986-87	1985-86
	Rs.	%	%
Division - I .. .. .	82,25,53,879	41.39	38.04
Division - II .. .. .	26,70,03,344	43.05	48.66
Division - III .. .. .	20,75,78,913	47.27	50.96
Total ..	1,29,71,36,136	42.57	41.84

### LOAN FUND AND LOAN WORKS EXPENDITURE.

10. The position of loan Fund was as shown below :—

Budget 'A'	O.B. as on 1-4-86	New Loans raised during 1986-87	Reimburse- ment of Loan from B.M. R.D.A.	Repayment of advance grant- ed for purchase of P. & M.	Central Govt Assistance for flood damage
1	1	2	3	4	5
	Rs.	Rs.	Rs.	Rs.	Rs.
Division-I	13,98,77,973	23,59,94,432	..	2,90,80,401	..
Division-II	2,29,69,289	16,89,00,000	..	55,65,514	..
Division-III	—6,42,64,869	15,00,00,000	..	6,87,059	..
<b>Total</b>	<b>9,85,82,393</b>	<b>55,48,94,432*</b>	<b>..</b>	<b>3,53,32,974</b>	<b>..</b>

Grant-in-aid from Government	Total Loan fund available..	Total Expendi- ture incurred	Advance for Financing Capital Stores	C.B. as on 31-3-1987
6	7	8	9	10
Rs.	Rs.	Rs.	Rs.	Rs.
..	+ 40,49,52,806	28,84,37,801	Cr. 39,14,191	12,04,29,196
..	+ 19,74,34,803	16,81,08,656	..	2,93,26,147
..	+ 8,64,22,190	10,37,16,527	..	— 1,72,94,337
..	<b>68,88,09,799</b>	<b>56,02,62,984</b>	<b>Cr. 39,14,191</b>	<b>13,24,61,006</b>

\* (1) Rs. 2,22,00,000 from Government of Maharashtra for Affordable Low Income Shelter Programme B,U.D.P.I. under Budget A,B, & G, Rs. 37,94,432 interest capitalised at the rate of 8.5 percentage per annum.

(2) Rs. 31,00,00,000 Internal Loans.

(3) Rs. 21,89,00,000 Public Loans (through Open Market).

The percentage of actual expenditure to Funds available works out to 81.

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 Actual to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.	Rs.	Rs.
<b>1984-85</b>					
Division-I	38,87,10,900	34,50,73,900	21,21,63,319	55	61
Division-II	32,51,91,350	23,59,55,600	13,92,76,618	43	59
Division-III	21,04,65,500	15,53,36,500	8,05,74,957	38	52
<b>Total</b>	<b>92,43,67,750</b>	<b>73,63,66,000</b>	<b>43,20,14,894</b>	<b>47</b>	<b>59</b>
<b>1985-86</b>					
Division-I	40,64,51,200	45,90,51,000	21,12,41,616	52	46
Division-II	29,59,92,900	26,58,75,700	11,00,32,041	37	41
Division-III	17,33,87,000	21,32,34,500	8,35,88,659	48	39
<b>Total</b>	<b>87,58,31,100</b>	<b>93,81,61,200</b>	<b>40,48,62,316</b>	<b>46</b>	<b>43</b>
<b>1986-87</b>					
Division-I	88,48,70,500	58,38,23,700	28,84,37,801	33	49
Division-II	30,13,51,000	29,38,28,100	16,81,08,656	56	57
Division-III	21,08,43,000	22,52,72,600	10,37,16,527	49	46
<b>Total</b>	<b>1,39,70,64,500</b>	<b>1,10,29,24,400</b>	<b>56,02,62,984</b>	<b>40</b>	<b>51</b>

## TRUST FUND AND EXPENDITURE

### Under Trust Fund.

10.-A. The position of Trust Fund was as shown below :—

	O. B. as on 1-4-1986	Receipts during 1986-87	Total Funds available	Expenditure during 1986-87	C. B. as on 31-3-1987
	Rs.	Rs.	Rs.	Rs.	Rs.
Div.-I	20,48,272	30,000	20,78,272	12,11,611	8,66,661
Div.-II	97,808	..	97,808	..	97,808
Div.-III	..	..	..	..	..
<b>Total</b>	21,46,080	30,000	21,76,080	2,11,611	9,64,469

### INVESTMENT

11. The position of Investment was as under :—

	Investment in Fixed Deposit.	Investment in Current A/c. Deposit	Aggregate Investment	Interest on Fixed Deposits	Interest on current A/c. Deposit.	Total Interest realised
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Div.-I	2,25,80,34,100	23,36,68,80,550	25,62,49,14,650	9,45,68,145	3,20,094	9,48,88,239
Div.-II (W. S.)	..	5,238	5,238	..	9	9
Div.-III (E. S.)	..	77,69,89,821	77,69,89,821	..	12,672	12,672
<b>Total</b>	2,25,80,34,100	24,14,38,75,609	26,40,19,09,709	9,45,68,145	3,32,775	9,49,00,920

### STREET IMPROVEMENT.

12. The Expenditure incurred on acquisition of set backs was as under :

	Provision in the Revised Loan Works Budget Estimates for 1986-87 for acquisition of set backs.	Expenditure during 1986-87	Balance out of provision	Amount of undischarged Commitment upto 31-3-87
	Rs.	Rs.	Rs.	Rs.
Division-I	34,80,000	9,74,497	25,05,503	97,74,279
Division-II	24,00,000	13,03,412	10,96,588	..
Division-III	1,31,00,000	83,29,041	47,70,959	..
<b>Total</b>	1,89,80,000	1,06,06,950	83,73,050	97,74,279

## HOUSING LOAN

13. The position of Housing Loans to the Co-operative Housing Societies of the Municipal employees was as under.

Loan Balance as on 1-4-1986	Amount of Loans granted during the year.	Repayments of Loans during 1986-87	Loans Balance as on 31-3-1987.
Rs.	Rs.	Rs.	Rs.
18,29,60,462	2,72,75,790	1,21,83,946	19,80,52,306

**BOMBAY URBAN DEVELOPMENT PROJECT—I.**

13-A. The Corporation *vide* resolution No. 592 dated the 3rd October, 1983 approved Municipal Commissioner's proposal to carry out the works of providing off-site infrastructural facilities to the sites and services projects, undertaken by the Government of Maharashtra through Maharashtra Housing and Area Development Authorities. Accordingly the Corporation entered into the Subsidiary Loan Agreement for the above project known as B. U. D. P.-I with the Government of Maharashtra on 26th July 1985 *vide* C. R. No. 90 of 25th July 1985. The project will be partly financed by the World Bank and will be implemented for urban poor class. As per the conditions of above agreement the Corporation has to carry out various works pertaining to Budgets 'A', 'B' and 'G' and also to maintain separate Account at one Central place.

The Loan receipt of Rs. 3,00,00,000 and capitalised interest of Rs. 16,00,727 thereon at the rate of 8.5% per annum amounted to Rs. 3,16,00,727 upto 31st March 1986. During the year under report further instalment of Rs. 2,22,00,000 was released by the Government of Maharashtra. The interest Capitalised upto 31st March 1987 on total Loan receipt of Rs. 5,38,00,727/- amounted to Rs. 37,94,432/-. Thus the total Loan receipt amounted to Rs. 5,75,95,159 upto 31st March 1987. (Loan receipt of Rs. 5,22,00,000 plus interest capitalised Rs. 53,95,159).

The Expenditure of Rs. 4,07,94,517 inclusive of 12.5% and 8.5% supervision charges respectively on civil works and purchase of equipments was incurred which was debited to the proper head of account *viz.* XVI—Works under B. U. D. P.-I. In addition to this an expenditure of Rs. 10,78,050 was provisionally met from Advances Sundries, Misc. Advances. Thus the total Expenditure amounted to Rs. 4,18,72,567/- leaving balance of Rs. 1,57,22,592 at the close of financial year out of total Loan receipt. The above expenditure will be finally debited to respective Budget Estimates *viz.* A, B and G.

**BUDGET 'B'****General Account.**

14. The position of General Account during the year 1986-87 was as under :—

	Income	Expenditure	Surplus	Deficit.
	Rs.	Rs.	Rs.	Rs.
Improvement Schemes.	6,85,83,250	8,98,70,406	..	2,12,87,156
Slum Clearance (City).	40,78,202	1,05,58,257	..	64,80,055
Slum Clearance (Subs.)	12,78,596	62,26,042	..	49,47,446
Slum Improvement.	8,88,92,345	8,88,92,345	..	..
Total	16,28,32,393	19,55,47,050	..	3,27,14,657

\* Rs. 6,23,91,878 Contribution from Budget 'A' and Rs. 2,65,00,467 Income from Hutment Colonies.

\*\* Deficit of Rs. 6,23,91,878 had been met from Contribution from Budget 'A'.

## CAPITAL ACCOUNT.

15. The position of Capital Account was as under :—

Particulars	Opening Balance as on 1-4-86.	Receipt on Account of Sale proceeds of lands & Bldgs.	New Loan raised during the year.	Total Funds available.	Expenditure during the year.	Deficit of General Account Transferred to Cap. Account.	Closing Balance as on 31-3-87.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Improvement Schemes.	—14,68,27,602 (Deficit)	7,01,998	..	—14,61,25,604	20,71,907	2,12,87,156	—16,94,84,667 (Deficit)
Slum Clearance (City).	—3,61,30,750 (Deficit)	..	..	—3,61,30,750	15,53,358	64,80,055	—4,41,64,163 (Deficit)
Slum Clearance (Subs.).	—3,47,21,384 (Deficit)	1,29,862	..	—3,45,91,522	..	49,47,446	—3,95,38,968 (Deficit)
Slum Improvements.	—11,42,54,394 (Deficit)	1,83,93,129**	..	—9,58,61,265	4,39,33,172	..	—13,97,94,437 (Deficit)
Total	—33,19,34,130 (Deficit)	1,92,24,989	..	—31,27,09,141 (Deficit)	4,75,58,437	3,27,14,657	—39,29,82,235 (Deficit) *

\*\* Rs. 1,08,93,129 Reimbursement of Capital Expenditure from Bombay Housing and Area Development Board and Rs. 75,00,000 Receipt from Collector of Bombay and Bombay Suburban District and Government of Maharashtra.

\* The Deficit was met-by taking an advance from Surplus monies of Budget 'A' Division-I.

16. The Loan Liabilities at the beginning and at the end of the year were as under

Budget 'B'	Outstanding Loan as on 1st April 1986.	Loan raised during the year.	Repayment of Loan during the year.	Loan outstanding as on 31st March 1987.
	Rs.	Rs.	Rs.	Rs.
Improvement Schemes	10,19,28,000	..	69,28,000	9,50,00,000
Slum Clearance (City)	5,34,02,745	..	52,55,078	4,81,47,667
Slum Clearance (Suburbs)	5,21,83,992	..	1,45,161	5,20,38,831
Slum Improvement	2,00,00,000	..	..	2,00,00,000
Total	22,75,14,737	..	1,23,28,239	21,51,86,498

## SINKING FUND

17. The position of Sinking Fund was as under :—

	Amount of Sinking Fund as on 1-4-1986.	Interest etc. Realised during the year.	Sinking Fund Instalments	Withdrawn for repayment of Loans.	Amount of Sinking Fund as on 31-3-1987.
	Rs.	Rs.	Rs.	Rs.	Rs.
Improvement Schemes	6,32,41,274	38,55,592	20,83,245	69,28,000	6,22,52,111
Slum Clearance (City)	2,22,78,078	14,14,500	9,59,452	50,00,000	1,96,52,030
Slum Clearance (Subs.)	2,13,72,720	14,40,063	9,85,606	..	2,37,98,389
Slum Improvement	42,48,069	2,86,947	3,64,534	..	48,99,550
Total	11,11,40,141	69,97,102	43,92,837	1,19,28,000	11,06,02,080

	Book Value of Securities Cash as on 31-3-1987.	Market Value of Securities Interest accrued upto 31-3-1987.	Amount of sinking Fund accumulated upto 31-3-1987.	Excess in Sinking Fund as on 31-3-1987.
	Rs.	Rs.	Rs.	Rs.
Improvement Schemes	6,22,52,111	6,26,67,109	5,58,51,174	68,15,935
Slum Clearance (City)	1,96,52,030	1,97,90,325	1,62,90,397	34,99,928
Slum Clearance (Subs.)	2,37,98,389	2,38,81,734	2,11,81,980	26,99,754
Slum Improvement	48,99,550	49,00,456	48,05,653	94,803
Total	11,06,02,080	11,12,39,624	9,81,29,204	1,31,10,420

S. M. CHANDEKAR  
Jt. Chief Accountant.

## EDUCATION FUND

18 (i) The following Statement summarises the transactions for the year pertaining of Revenue Budget and the Actuals for the preceding year :—

Revenue Budget(E)	1986-87			Actuals for 1985-86
	Budget Estimates	Revised Estimates	Actuals	
	Rs.	Rs.	Rs.	Rs.
Opening Balance	20,676	20,802	20,802	20,676
Income .. .. .	70,00,60,960	65,35,58,830	66,05,59,625	52,33,83,196
Expenditure .. .. .	70,00,61,090	65,35,51,620	64,62,32,581	53,66,61,146
Surplus or Deficit during the year. (+) (—)	—130	+7,210	+1,43,27,044	—1,32,77,95)
Balance. .. .. .	+20,546	+28,012	+1,43,47,846	—1,32,57,274
Add : Decrease or Increase in Reservations as shown in (ii) below...	..	..	—1,43,27,195	+1,32,78,076
Closing Balance. .. .. .	+20,546 (Surplus)	+28,012 (Surplus)	+20,651 (Surplus)	+20,802 (Surplus)

(ii) The Details of Reservations of Advances etc are as under :—

Increase/Decrease (+) (—)	1986-87	1985-86
	Rs.	Rs.
In Miscellaneous Advances. .. .. .	+32,57,195	—22,44,076
In Renewed Grants. .. .. .	+1,10,70,000	—1,10,34,000
Net Increase or Decrease. (+) (—)	+1,43,27,195	—1,32,78,076

(iii) The net unhypothecated Surplus Cash Balance on 31st March 1987 was as under :—

Liability		Assets.	
Miscellaneous Advance. .. .. .	1,25,84,775	Surplus Revenue Fund as per Appendix No. 59.	1,26,05,426
Minimum required by Law. .. .. .	20,000		
Surplus Cash Balance .. .. .	651		
Total .. .. .	1,26,05,426	Total	1,26,05,426

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

Opening Debt on 1st April 1986.	Loan raised during the year.	Repayment of debt during the year.	Outstanding Debt on 31st March 1987
Rs.	Rs.	Rs.	Rs.
30,60,50,000	4,20,00,000	65,00,000	34,15,50,000

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

Amount of Fund on 1st April 1986	Interest etc. realised.	Sinking Fund Instalments.	Total Sinking Fund.	Withdrawal for Repayment of Loans.	Amount of Fund on 31st March 1987
Rs. 6,48,28,930	Rs. 40,57,355	Rs. 1,32,19,170	Rs. 8,21,05,455	Rs. 65,00,000	Rs. 7,56,05,455

Book value of securities and cash as on 31-3-1987	Market value of securities with interest accrued upto 31-3-1987 and cash as on 31-3-1987	Amount of Sinking Fund which should have accumulated upto 31-3-1987	Excess in Sinking Fund as on 31-3-1987
Rs 7,56,05,455	Rs. 7,64,45,333	Rs 7,62,33,521	Rs. 2,11,812

The value of securities held in Sinking Fund Account on the basis of Market rates prevailing on 31st March 1987 including accrued interest and cash exceeded the actual amount of the Sinking Fund by Rs. 2,11,812 which is held in the Sinking Fund Account

#### Income.

(vi) Position of the Income excluding the Special Contribution from Budget 'A' during the year 1986-87 is as shown below :—

Budget Estimates.	Revised Estimates.	Actuals.	Increase(+) Decrease(—) Compared with	
			Budget Estimates.	Revised Estimates.
Rs. 26,03,60,960	Rs. 24,50,58,830	Rs. 25,20,59,625	Rs. —83,01,335	Rs. +70,00,795

To cover the deficit, an amount of Rs. 40.85 Crores (as against Budget Estimates of 43.97 Crores and Revised Estimates of Rs. 40.85 Crores) has been taken from Budget 'A' as Special Contribution during the year.

The rates of Education Cess are varying from 1/2 per cent to 5 per cent on slab basis of Retalesable value.

#### Expenditure.

(vii) The final sanctioned Grants amounted in the aggregate to Rs. 73,06,47,500 as follows :—

Budget Grants .. .. .	Rs. 70,00,61,090
Unexpended Grants for previous years renewed for Expenditure ..	2,60,63,000
Additional Grants .. .. .	45,23,410
Final sanctioned Grants .. .. .	73,06,47,500

The transfer from one Budget Grant to another without affecting the total Budget provision of the year amounting to Rs. 1,40,020.



## (vii) Position of the Revenue Expenditure during the year 1

Final Grant 1986-87	Actuals 1986-87	Balance Grant as on 31-3-1987	Amount Reserved for Renewal during the year 1987-88	Balance of Grant treated as saving.
Rs. 73,06,47,500	Rs. 64,62,32,581	Rs. 8,44,14,919	Rs. 3,71,33,000	Rs. 4,72,81,919

(ix) The percentage of Establishment cost inclusive of expenditure on Dearness Allowance, Provident Fund and Pension etc. charges to the total expenditure for 1986-87 as compared with the previous year's percentage is given below :—

Establishment.	Establishment Cost	Percentage to the total expenditure during	
	1986-87	1986-87	1985-86
Budget—E.	Rs. 55,26,87,806	Rs. 85.52	Rs. 85.21

## Loan Funds

(x) Position of the Loan Fund during the year :—

Opening Balance as on 1-4-1986	Loan Receipts.	Total	Loan Works expenditure.	Closing Balance as on 31-3-1987
Rs. —1,00,93,416	Rs. 4,20,00,000	Rs. 3,19,06,584	Rs. 2,38,84,397	Rs. 80,22,187

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

Year.	Loan and Trust Fund			Percentage of Actuals to Budget Estimates.	Percentage of Actuals to Revised Estimates.
	Budget Estimates	Revised Estimates	Actuals.		
Rs. 1984-85 ..	Rs. 6,47,02,500	Rs. 4,46,94,000	Rs. 3,14,96,918	Rs. 48.7	Rs. 70.5
1985-86 ..	5,82,37,500	5,24,01,750	3,02,14,005	51.9	57.7
1986-87 ..	8,34,33,000	3,17,35,000	2,38,84,397	28.6	75.3

A/c. 8853 Edu.

A/c 8863. Edu.  
V. W. JOSHI.  
Chief Accountant.

APPENDIX No. 1.  
(Consolidated)  
General Financial Statistics.

Particulars.	1982-83.	1983-84	1984-85.	1985-86.	1986-87.
<i>General</i>					
1. Area of the Greater Bombay (in sq. Kms.)...	466.35	466.35	466.36	466.36	466.36
Population	††† 82,43,405	††† 82,43,405	††† 82,43,405	* 95,65,000	* 98,61,000
<i>Rates and Assessments.</i>					
3. Rateable value Rs.	1,75,81,40,007	1,88,21,97,578	2,01,14,75,756	2,21,23,66,719	2,43,85,22,083
4. Rateable value Rs. per head of population.	Rs. 213.27	Rs. 228.33	Rs. 244.01	Rs. 231.30	Rs. 247.29
5. Properties registered in the Assessment Book	2,15,870	2,19,312	2,21,129	2,19,105	2,30,043
<i>Income.</i>					
6. General Tax (@24% of R.V.) ...	Rs. 38,89,43,002	Rs. 40,20,27,912	Rs. 44,14,10,665	Rs. 46,33,99,911	Rs. 52,81,34,685
7. Income from other sources	1,39,84,86,890	1,92,23,84,758	2,22,65,24,034	2,47,19,27,928	2,75,44,65,029
Total Income	1,78,74,29,892	2,32,44,12,670	2,66,79,34,699	2,93,53,27,839	3,28,25,39,714
8. Incidence of Taxation per head	₹ 184.31	₹ 238.96	₹ 270.01	₹ 255.43	₹ 274.04
<i>Loans.</i>					
9. Debt outstanding	Rs. 2,08,25,74,885	Rs. 2,28,99,34,636	Rs. 2,62,43,25,541	Rs. 3,24,01,83,594	Rs. 3,72,25,86,272
10. Redemption and Sinking Funds in hand or invested	44,83,60,539	45,59,93,446	42,33,42,466	45,14,91,474	54,37,10,581
11. Net Loan Debt	1,63,42,14,346	1,83,39,41,190	2,20,09,83,075	2,78,86,92,120	3,17,88,75,691
12. Net Debt per head of population	198.24	222.47	267.00	291.55	322.36
<i>Expenditure</i>					
13. Contribution to Primary Education	Rs. 27,88,99,660	Rs. 30,47,55,900	Rs. 43,20,30,310	Rs. 39,08,44,240	Rs. 48,87,51,870
14. Medical Relief	36,06,57,404	41,12,76,531	42,15,96,822	48,89,99,579	52,57,28,317
15. Other Civic services	91,75,67,784	1,10,86,63,720	141,27,58,023	1,53,53,78,825	1,62,84,93,372
16. Debt Charges	23,32,51,011	27,51,73,824	29,07,42,475	33,34,23,597	40,35,16,822
Total Expenditure	1,79,04,15,859	2,09,98,69,975	2,55,71,27,630	2,74,86,46,241	3,04,64,90,381

Div.—I

₹ Incidence of Taxation per head of population exclusive of Water Tax, Sewerage Tax and Education Cess.

††† As intimated by H.O.

\* Mid— year Population, as Intimated by H. O.

APPENDIX No. 2.

(Consolidated)

Revenue Account for the year ended 31st March 1987

Particulars	Total	Particulars	Total
	Rs. P.		Rs. P.
To Revenue Expenditure ...	3,04,64,90,381.16	By Revenue Receipts ...	3,28,25,39,714.18
Surplus for the year	23,60,49,333.02		
	3,28,25,39,714.18		3,28,25,39,714.18
	Rs. P.		Rs. P.
To Revenue Expenditure to be incurred in 1987-88 and provided for as renewed grants ...	39,58,00,000.00	By Surplus Revenue Fund as at 1st April 1986 ...	59,46,15,768.87
To Balance being Surplus Revenue Fund as at 31st March 1987 as per Appendix No. 5 of Division I +	3,83,47,72,874.46	By Surplus for the year ...	23,60,49,333.02
II -	2,25,73,21,530.93		83,06,65,101.89
III -	86,95,86,241.64	By Revenue of previous years reserved for the year 1986-87 ...	27,30,00,000.00
	70,78,65,101.89		27,30,00,000.00
	1,10,36,65,101.89		1,10,36,65,101.89

## Appendix No 5

Revenue &amp; Expenditure Account, Balance Sheet as at 31-3-198

## Budget 'A'

(Consolidated)

Liabilities	Amount				Assets	Amount			
	Ra.	P.	Ra.	P.		Rs	P.	Ra.	P.
(A) Outstanding Liabilities—									
Cash Bill Outstanding					Cash at Bank—				
Budget 'A' Div. I ..	7,30,452.85				Div. I .. Cr	7,28,46,857.92			
" II ..	8,42,067.96				Div. II .. Cr	32,02,826.99			
" III ..	36,750.86			16,09,271.67	Div. III .. Cr	67,163.43			Cr. 761,16,848.36
Cheques Payable A/c					Cash in Office—				
Budget 'A' Div. I ..	5,41,12,365.84				Div. I ..	15,83,37,075.31			
" II ..	33,56,934.18			6,89,10,816.66	Div. II ..	5,64,03,230.35			
" III ..	1,14,41,516.64				Div. III ..	3,51,61,868.67			24,99,02,174.33
Stores Purchase Outstanding A/c				1,28,16,007.54	Municipal Loans-Interest Warrant Payable Account				
Stock Adjustment A/c				1,60,258.24	Budget 'A' Div. I ..	40,256.32			
Capital Stores Purchase A/c (Foras Rd.)				6,80,180.47	" II ..	98,943.75			1,39,200.07
Outstanding charges for 1916-87 and previous year					B. I. T. Loans Interest Warrant Payable Account				6,054.55
Budget 'A' Div. I ..	24,58,00,000.00				Interest on B. I. T. Loans payable Account				760.00
" II ..	8,00,00,000.00			39,58,00,000.00	Interest on Suburban Loan with State Bank of India Budget 'A' Div. II ..				91,022.61
" III ..	7,00,00,000.00				Due for Stores Sold Capital Stores Stock F. Rd.				14,00,75,232.94 3,83,191.61
Outstanding charges in respect of Interest Accrued but not paid				4,20,18,777.21	Stock Adjustment A/c in respect of the amount of Stock in hand & work in Progress App. 13(A)				2,56,62,335.35
Budget 'A' Div. I ..	1,48,89,260.44				Advances Recoverable Account Budget 'A' Div. I ..	29,13,72,701.10			
" II ..	2,70,33,127.89				" II ..	5,63,31,653.27			
" III ..	76,388.88				" III ..	1,03,19,567.90			35,80,23,922.27
Deposit in Cash and Public Securities from contractors and Private Parties					Reserve Stores purchase A/c				6,72,212.31
Budget 'A' Div. I ..	76,71,66,398.82				Capital Stores Purchase A/c ..				Cr. 19,46,596.36
" II ..	41,20,25,878.10			132,42,81,537.63	Capital Store Stock A/c ..				Cr. 2,16,928.44
" III ..	14,50,89,260.71				Unadjusted Reserve Stores A/c Stock				43,09,916.68
Interest on loans payable A/c					Unadjusted Reserve Stores A/c Stock (F. R.)				Cr. 9,29,582.38
Budget 'A' Div. I ..	22,465.00				Advance from Surplus Moneys for financing Capital work Expenditure—				
" II ..	8,09,262.66			8,31,727.66	Budget 'A' Div. I ..				
					" II ..				
Amount Payable to Budget 'G'				17,67,07,636.64	" III ..	1,72,94,336.65			
Amount Payable to Budget 'E'				4,61,23,943.24	Budget 'B'	39,29,82,235.23			41,02,76,571.88
					Deposit in Securities from Pub. With State Bank of India—				
					Budget 'A' Div. I ..	1,77,02,100.00			
					" II ..	10,27,190.12			1,87,29,290.12
Total—Outstanding Liabilities				206,99,40,156.96	In Office—				
					Budget 'A' Div. I ..	10,58,355.65			
					" II ..	23,27,755.00			
					" III ..	7,54,230.00			41,40,340.65
					Investment of Surplus Moneys in Public Securities				38,013.14
					Investments of Balance held—				
					In Securities ..				12,28,09,437.77
					In Fixed Deposits ..				63,91,57,100.00
					In Interest bearing Current A/c ..				17,45,07,562.84
					In Cash with S. B. I. ..				2,25,773.38
									206,99,40,156.96
Total C. F.				206,99,40,156.96	Total C. F.				206,99,40,156.96

## Revenue &amp; Suspence Account Balance Sheet as at 31-3-1987. (Contd.)

Budget 'A'  
(Consolidated)

LIABILITIES	AMOUNT		ASSETS	AMOUNT	
	Rs.	P.		Rs.	P.
Total—B. O. ..	206,99,40,156.96		Total—B. O. ..	2,06,99,40,156.96	
(B) Special Fund Account*			Investment of Special Funds in Securities		
Municipal Fire and Accident Insurance Fund A/c. ..	96,06,508.80		Provident Fund ..	1,16,16,36,046.56	
Net Premia Fund Account ..	18,31,903.41		Hospital Fund— Budget 'A' Div. II ..	2,36,100.00	
Provident Fund Account ..	116,16,36,110.32		Budget 'A' Div. I ..	20,14,300.00	22,50,400.00
Pension Fund Account ..	41,45,33,731.91		Fidelity Guarantee Ins. Fund ..		11,63,500.00
Hospital Fund Account— Budget 'A' Div. I ..	20,14,383.72		Public Monument Maintenance Fund Budget 'A' Div. I ..	1,22,873.34	
" II ..	2,36,191.87		" II ..	16,300.00	1,39,173.34
		22,50,575.59	Endowment Fund ..		13,61,288.89
G. S. M. College, K. E. M. Hospital Research Fund Account	13,02,685.01		Motor Vehicles (Third Party) Insurance Fund ..		11,50,000.00
Gratuities Fund A/c ..	9,02,909.29		Tree Authority Fund ..		40,13,700.00
			Mechanically Propelled Vessels (T.P) Insurance Fund ..		5,00,000.00
Fidelity Guarantee Insurance Fund A/c. ..	11,63,563.39		Municipal Fire & Accident Insurance Fund ..		96,06,500.00
Land (Recl. & Acqn.) Fund Account	2,82,66,163.74		Land (R&A) Fund ..		2,82,66,100.00
Public Monument Maintenance Fund Account— Budget 'A' Div. I ..	1,22,963.34		Fire Brigade Employees (Operational Staff) Accident Compensation Fund ..		8,08,200.00
" ..	16,317.94		Net Premia Fund ..		18,31,900.00
		1,39,283.28	G. S. M. College & K. E. M. Hospital Research Fund ..		7,51,500.00
Endowment Fund Account ..	14,28,502.04		Pension Fund ..		18,22,32,400.00
Fire Brigade Employees (Operational Staff) Accident Compensation Fund A/c ..	8,08,253.23		Total—Inv. in Securities ..		139,57,10,708.79
Motor Vehicles (Third Party) Insurance Fund A/c ..	12,00,000.00		Investment of Special Funds in Fixed Deposit and Cash etc.		
Mechanically Propelled Vessels (T. P.) Insurance Fund A/c ..	6,09,349.70		Municipal Fire and Accident Insurance Fund ..		8.80
Development Fund for Secondary Schools A/c ..	1,65,74,218.09		Net Premia Fund ..		3.41
Tree Authority Fund A/c ..	40,13,727.02		Provident Fund ..		63.76
			Pension Fund ..		23,23,01,331.91
			Hospital Fund Budget 'A' Div. I ..	83.72	
			" II ..	91.87	
					175.59
			G. S. M. College and K. E. M. Hospital Research Fund Gratuities Fund ..		5,51,185.01 9,02,909.29
			Fidelity Guarantee Insurance Fund ..		63.39
			Land (Recl. & Acqn.) Fund Public Monuments Maintenance Fund Budget 'A' Div. I ..	92.00	63.74
			" II ..	17.94	
			Endowment Fund ..		109.94 67,213.15
			Fire Brigade Employees (Operational Staff) Accident Compensation Fund ..		53.23
			Motor Vehicles (Third Party) Insurance Fund ..		50,000.00
			Mechanically propelled vessels (T. P.) Insurance Fund ..		1,09,349.70
			Development Fund for Secondary Schools ..		1,65,74,218.09
			Tree Authority Fund ..		27.02
			Total Investment in Fixed Deposits and in Cash ..		25,05,56,776.03
Total—Special Fund A/c. ..	164,62,67,484.82		Total Investment Special Fund ..		164,62,67,484.82
Total—C. F. ..	371,62,07,641.78		Total—C. F. ..		371,62,07,641.78

## Appendix No. 5 (Concl.)

## Revenue &amp; Suspense Account, Balance Sheet as at 31-3-1957. (Concl.)

## Budget 'A'

(Consolidated)

Liabilities	Amount				Assets	Amount			
	Rs.	P.	Rs.	P.		Rs.	P.	Rs.	P.
Total—B.O. ..			371,62,07,641.78		Total—B.O. ..			371,62,07,641.78	
C) Surplus Revenue Fund A/c.					Investment of Surplus Revenue Fund				
Budget 'A' Div. I ..	383,47,72,874.46				General Reserve Stores Account Stock—(App. 17) ..			72,65,558.17	
.. II (Deficit) ..	225,73,21,530.93				Advances out of S. C. B.—				
.. III (Deficit) ..	86,95,86,241.64		70,78,65,101.89		Budget 'A' Div. I ..	32,86,86,649.85			
					.. II ..	15,78,31,805.04			
					.. III ..	6,96,76,457.93		55,61,94,912.82	
					Investments of Balance held—				
					In Securities ..				
					In Fixed Deposits ..			14,44,04,600.00	
					In Interest bearing Current A/c. ..				30.90
					In Cash with S.B.I. ..				
			70,78,65,101.89		Total Surplus Revenue Fund ..			70,78,65,101.89	
Grand Total ..			442,40,72,743.67		Grand Total ..			442,40,72,743.67	

## Investments of Surplus Fund.

Budget 'A'	Securities		Fixed Deposit		Interest bearing Current A/c.		State Bank of India. Cash Deposits		Total	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
Division I ..	11,41,18,137.77		78,35,61,700.00		17,34,41,803.21		1,29,855.15		1,07,12,51,496.13	
Division II (W.S.) ..	25,36,700.00				1,750.45		95,767.23		25,34,217.68	
Division III (E.S.) ..	61,54,600.00				10,64,040.08		151.00		72,18,791.08	
Total ..	12,28,09,437.77		78,35,61,700.00		17,45,07,593.74		2,25,773.38		1,08,11,04,504.89	

Div.—I.

**APPENDIX No. 7**  
**CAPITAL ACCOUNT BALANCE SHEET AS AT 31ST MARCH 1987 (Budget 'A')**  
**(Consolidated)**

LIABILITIES							ASSETS								
PARTICULARS	Div. I		Div. II		Div. III		TOTAL	PARTICULARS	Div. I		Div. II		Div. III		TOTAL
	Rs.	P.	Rs.	P.	Rs.	P.			Rs.	P.	Rs.	P.	Rs.	P.	
Loans Outstanding															
Due to Public	1,70,23,27,591.94		1,58,02,58,280.00		44,00,00,000.00		3,72,23,86,271.94	BLOCK ACCOUNT—							
Advances from Surplus Monies								Loan Funds—							
Trust Fund Account—					1,72,94,336.65		1,72,94,336.65	Property and Assets at original cost	2,16,75,43,119.17	1,89,38,24,029.16	45,72,94,336.65	4,51,86,61,484.98			
Donation from—								TRUST FUND—							
The Trustees of the late Justice Badruddin Tyabji Memorial Fund for the Construction of Orchard House at Victoria Garden	1,694.50					1,694.50		Expenditure	95,35,440.71	3,90,700.30		98,66,141.01			
Reserve Bank of India for construction of a ward of 33/40 beds for accommodating their sick employees in K. E. M. Hospital	46,577.39					46,577.39									
State Bank of India for reservation of paying bed scheme	20,00,000.00					20,00,000.00									
Mrs. K. N. Khanjari for Air-conditioning of mobile ophthalmic Van No. MRJ 8343 used by TNMC and B. Y. L. Nair Hospital.	30,000.00					30,000.00	20,78,271.89	MUNICIPAL LAND AND BUILDINGS FUND—							
<b>SURPLUS—</b>								Land purchased and Buildings erected	43,03,043.42				43,03,043.42		
Capital Assets at Original Cost Over Liabilities Sinking Fund on Loans	39,64,84,069.63		36,23,49,335.27		68,45,551.00	76,56,78,955.90									
Contribution from Special Fund	8,03,171.02					8,03,171.02		INVESTMENTS—							
Do. Revenue for Loan Works Establishment	17,869.98					17,869.98		SINKING FUND	39,64,84,069.63	36,23,49,335.27	68,45,551.00	76,56,78,955.90			
Do. Port Trust	1,56,500.00					1,56,500.00		LOAN AND TRUST FUNDS—							
Do. Government for Schools	5,00,000.00					5,00,000.00		Amount reserved for Capital Stores	2,78,18,634.70			2,78,18,634.70			
Do. Government for widening the Lovers Grove Bridge	91,234.00					91,234.00		BALANCE HELD IN—							
Do. Land and Buildings Fund	43,03,043.42					43,03,043.42		In Securities		2,94,23,900.00		2,94,23,900.00			
Do. Development Fund	1,29,89,110.46					1,29,89,110.46		In Fixed Deposits	12,12,95,700.00			12,12,95,700.00			
Do. Revenue towards Bai Jerbai Wadia Hospital for Children	7,00,000.00					7,00,000.00		In Current Account Deposits							
Do. Trust Fund	83,23,829.47	4,25,215.69				87,49,045.16		In Cash	156.28	54.24		210.52			
Do. Trustees Gokuldas Tejpal Charities	18,123.64					18,123.64			12,12,95,856.28	2,94,23,954.24		15,07,19,810.52			
Do. Budget 'A' Division I		3,00,000.00				3,00,000.00		<b>Grand Total</b>	<b>2,72,69,80,163.91</b>	<b>2,28,59,28,018.97</b>	<b>46,41,39,887.65</b>	<b>5,47,70,48,070.53</b>			
Grant-in-aid from Govt. for widening the Road in Colaba Division	12,975.87					12,975.87									
Grant in Aid from Infrastructure Compost Plant	26,36,152.00					26,36,152.00									
Central Govt. Assistance for flood damage	8,86,96,780.00					8,86,96,780.00									
Loan Redemption Fund	50,68,41,040.59	34,25,95,188.01				84,94,36,228.60	1,73,50,89,190.05								
<b>Grand Total</b>	<b>2,72,69,80,163.91</b>	<b>2,28,59,28,018.97</b>	<b>46,41,39,887.65</b>			<b>5,47,70,48,070.53</b>									

## (CONSOLIDATED)

## Capital Works Expenditure Budget 'A' (Summary).

CAPITAL ACCOUNT	TOTAL CAPITAL WORKS EXPENDITURE UPTO 31ST MARCH 1986				CAPITAL WORKS EXPENDITURE DURING THE YEAR 1986-87				TOTAL CAPITAL WORKS EXPENDITURE UPTO 31ST MARCH 1985			
	Div.—I (City)	Div.—II (W. S.)	Div.—III (E. S.)	Total	Div.—I (City)	Div.—II (W. S.)	Div.—III (E. S.)	Total	Div.—I (City)	Div.—II (W. S.)	Div.—III (E. S.)	Total
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
(1) Loan Funds—												
I—General Supervision etc.	8,33,31,270	4,57,10,537	6,48,769	12,96,90,576	77,93,147	22,90,721	..	1,00,83,868	9,11,24,417	4,80,01,258	6,48,769	13,97,74,444
Education, Primary	27,98,012	1,24,024	..	29,22,036	..	..	..	..	27,98,012	1,24,024	..	29,22,036
II—Free Reading Rooms etc.	15,68,199	67,040	..	16,35,239	..	..	..	..	15,68,199	67,040	..	16,35,239
III—Street Cleansing and Conservancy etc.	4,16,70,825	2,53,42,113	70,00,724	7,40,13,662	1,65,045	7,74,360	16,72,801	26,12,206	4,18,35,870	2,61,16,473	86,73,525	7,66,25,868
IV.—S. W. Drains etc.	31,19,80,921	38,72,66,045	2,05,40,725	71,97,87,691	4,69,95,109	1,77,74,593	1,11,24,276	7,58,93,978	35,89,76,030	40,50,40,638	3,16,65,001	79,56,81,669
V.—Mechanical	23,84,296	67,576	..	24,51,872	Cr. 6,82,224	..	..	Cr. 6,82,224	17,02,072	67,576	..	17,69,648
VI.—Bldgs, Land Acqn. etc.	16,40,55,918	6,22,04,151	51,79,983	23,14,40,052	2,56,66,728	2,66,65,871	2,02,78,097	7,26,10,696	18,97,22,646	8,88,70,022	2,54,58,080	30,40,50,748
VII.—Fire Brigade	1,63,15,740	3,98,01,860	3,56,668	5,64,74,268	41,00,923	59,31,618	..	1,00,32,541	2,04,16,663	4,57,33,478	3,56,668	6,65,06,809
VIII—Licensing, Removal of Encroachments	12,96,652	..	..	12,96,652	..	..	..	..	12,96,652	..	..	12,96,652
IX—Gardens & Open Spaces.	4,94,28,450	11,64,15,398	6,62,94,728	23,21,38,576	40,18,698	2,12,42,458	1,16,95,670	3,69,56,826	5,34,47,148	13,76,57,856	7,79,90,398	26,90,95,402
X.—Markets	7,03,95,448	3,45,40,798	18,04,642	10,67,40,888	9,10,626	1,82,083	..	10,92,709	7,13,06,074	3,47,22,881	18,04,642	10,78,33,597
XI.—Deonar Abattoir.	5,70,51,212	..	1,59,82,996	7,30,34,208	..	..	..	95,22,863	5,70,51,212	..	2,55,05,859	8,25,57,071
Slum Service	50,75,492	..	..	50,75,492	..	..	..	..	50,75,492	..	..	50,75,492
XII—Village Amenities	..	95,98,463	14,14,895	1,10,13,358	..	5,17,152	4,52,085	9,69,237	..	1,01,15,615	18,66,980	1,19,82,595
Measures for Civil Defence	1,87,148	..	..	1,87,148	..	..	..	..	1,87,148	..	..	1,87,148
Greater Bombay	2,81,069	..	..	2,81,069	..	..	..	..	2,81,069	..	..	2,81,069
XIII—Industrial Estates.	1,31,35,664	80	..	1,31,35,744	..	..	..	..	1,31,35,664	80	..	1,31,35,744
XIV.—Centenary Celebration Works	..	2,81,48,783	81,54,603	3,63,03,386	..	2,40,469	20,505	2,60,974	..	2,83,89,252	81,75,108	3,65,64,360
Municipal Power Laundry	2,23,935	..	..	2,23,935	..	..	..	..	2,23,935	..	..	2,23,935
Discount & Other charges on Loan	1	45,223	..	45,224	..	..	..	..	1	45,223	..	45,224
XV.—Traffic Operations.	56,47,02,388	70,07,58,006	20,12,87,489	1,46,67,47,883	6,87,76,155	7,54,52,792	4,48,18,201	18,90,47,148	63,34,78,543	77,62,10,798	24,61,05,690	1,65,57,95,031
XVI.—Works under B. U. D. P. I.	16,78,197	..	..	16,78,197	3,91,16,320	..	..	3,91,16,320	4,07,94,517	..	..	4,07,94,517
XXI—Public Health Department	2,82,84,157	4,40,62,822	47,27,964	7,70,74,923	49,08,186	Cr. 15,21,272	4,79,704	38,66,618	3,31,92,323	4,25,41,550	52,07,668	8,09,41,541
XXII—Medical Relief & Education	39,97,86,108	18,52,75,283	1,66,12,373	60,16,73,764	5,75,18,542	1,26,29,602	28,69,548	7,30,17,692	45,73,04,650	19,79,04,885	1,94,81,921	67,46,91,456
XXIII—Measures to control environmental air pollution in Greater Bombay.	1,33,91,415	..	..	1,33,91,415	1,52,561	..	..	1,52,561	1,35,43,976	..	..	1,35,43,976
Suspense Account, Mechanical Transport compost plant & Printing Press Plant and Machinery out of different Special Fund.	55,823	..	..	55,823	..	..	..	..	55,823	..	..	55,823
Plant and Machinery out of Loan Fund	74,31,324	2,75,43,941	88,875	3,50,64,140	11,45,136	25,89,039	5,443	37,39,618	85,76,460	3,01,32,980	94,318	3,88,03,7058
Plant and Machinery out of Loan Fund	7,16,76,078	2,43,12,036	41,69,435	10,01,57,549	Cr. 12,27,552	Cr. 14,19,297	90,274	Cr. 25,56,575	7,04,48,526	2,38,92,739	42,59,709	9,76,00,974
Total (1) Loan Fund	1,90,81,85,722	1,73,12,84,179	35,42,64,869	3,99,37,34,770	25,93,57,400	16,33,50,189	10,30,29,467	52,57,37,056	2,16,75,43,122	1,89,46,34,368	45,72,94,336	4,51,94,71,826
Trust Fund	83,23,829	3,27,408	..	86,51,237	12,16,611	3,292	..	12,19,903	95,40,440	3,30,700	..	98,71,140
Land Bldg. Fund	43,03,044	..	..	43,03,044	..	..	..	..	43,03,044	..	..	43,03,044
Land purchased & Bldgs. erected	..	..	..	..	..	..	..	..	..	..	..	..
Grand Total.	1,92,08,12,595	1,73,16,11,587	35,42,64,869	4,00,66,89,051	26,05,74,011	16,33,53,481	10,30,29,467	52,69,56,959	2,18,13,86,606	1,89,49,65,068	45,72,94,336	4,53,36,46,010



## APPENDIX No. 11

(Consolidated)

Outstanding Balances of Loans on 31st March 1987 pertaining to Budget 'A'.

Serial No.	Particulars of Loans	Rate of Interest per annum	Outstanding Loan Balance on 31st March 1987	Serial No.	Particulars of Loans	Rate of Interest per annum	Outstanding Loan Balance on 31st March 1987
1	2	3	4	1	2	3	4
	<b>BUDGET 'A' DIV. I</b> Loans raised from Public		<b>Rs.</b>		<b>BUDGET 'A' DIV. II</b> (Subs.) Loans raised from Public		
1	Rs. 150 lakhs Loan 1962-63 ..	4½%	1,50,00,000.00	40	Rs. 50 lakhs Loan 1963-64 ..	4½%	50,00,000.00
2	Rs. 235 lakhs Loan 1963-64 ..	4½%	2,35,00,000.00	41	Rs. 70 lakhs Loan 1964-65 ..	4½%	70,00,000.00
3	Rs. 100 lakhs Loan 1964-65 ..	4½%	1,00,00,000.00	42	Rs. 50 lakhs Loan 1965-66 ..	6½%	50,00,000.00
4	Rs. 300 lakhs Loan 1965-66 ..	6%	3,00,00,000.00	43	Rs. 50 lakhs Loan 1966-67 ..	6½%	50,00,000.00
5	Rs. 200 lakhs Loan 1965-66 ..	6½%	2,00,00,000.00	44	Rs. 50 lakhs Loan 1967-68 ..	6½%	50,00,000.00
6	Rs. 400 lakhs Loan 1966-67 ..	6%	4,00,00,000.00	45	Rs. 50 lakhs Loan 1968-69 ..	6½%	50,00,000.00
7	Rs. 250 lakhs Loan 1966-67 ..	6½%	2,50,00,000.00	46	Rs. 100 lakhs Loan 1972-73 ..	6½%	1,00,00,000.00
8	Rs. 800 lakhs Loan 1967-68 ..	5%	8,00,00,000.00	47	Rs. 100 lakhs Loan 1973-74 ..	6½%	1,00,00,000.00
9	Rs. 325 lakhs Loan 1968-69 ..	6%	3,25,00,000.00	48	Rs. 100 lakhs Loan 1974-75 ..	6½%	1,00,00,000.00
10	Rs. 200 lakhs Loan 1972-73 ..	6%	2,00,00,000.00	49	Rs. 250 lakhs Loan 1975-76 ..	6½%	2,50,00,000.00
11	Rs. 400 lakhs Loan 1972-73 ..	6%	4,00,00,000.00	50	Rs. 300 lakhs Loan 1976-77 ..	6½%	3,00,00,000.00
12	Rs. 250 lakhs Loan 1973-74 ..	6%	2,50,00,000.00	51	Rs. 250 lakhs Loan 1976-77 ..	6½%	2,50,00,000.00
13	Rs. 250 lakhs Loan 1974-75 ..	6½%	2,50,00,000.00	52	Rs. 600 lakhs Loan 1977-78 ..	6½%	6,00,00,000.00
14	Rs. 100 lakhs Loan 1975-76 ..	6½%	1,00,00,000.00	53	Rs. 450 lakhs Loan 1978-79 ..	6½%	4,50,00,000.00
15	Rs. 300 lakhs Loan 1976-77 ..	6½%	3,00,00,000.00	54	Rs. 250 lakhs Loan 1978-79 ..	6½%	2,50,00,000.00
16	Rs. 400 lakhs Loan 1977-78 ..	6½%	4,40,00,000.00	55	Rs. 850 lakhs Loan 1979-80 ..	6½%	8,50,00,000.00
17	Rs. 400 lakhs Loan 1977-78 ..	7½%	4,00,00,000.00	56	Rs. 450 lakhs Loan 1980-81 ..	7½%	4,50,00,000.00
18	Rs. 80 lakhs Loan 1978-79 ..	6½%	88,00,000.00	57	Rs. 250 lakhs Loan 1980-81 ..	6½%	2,50,00,000.00
19	Rs. 150 lakhs Loan 1978-79 ..	6½%	1,50,00,000.00		<b>Total Div. II</b> ..		<b>45,05,00,000.00</b>
20	Rs. 500 lakhs Loan 1978-79 ..	8%	5,00,00,000.00		<b>BUDGET 'A' Div. III</b> (Ext'd. Subs.)		
21	Rs. 150 lakhs Loan 1979-80 ..	6½%	1,65,00,000.00		Loans raised from Public		
22	Rs. 550 lakhs Loan 1979-80 ..	6½%	5,50,00,000.00	58	Rs. 25 lakhs Loan 1964-65 ..	4½%	25,00,000.00
23	Rs. 450 lakhs Loan 1980-81 ..	7%	4,95,00,000.00	59	Rs. 50 lakhs Loan 1965-66 ..	6½%	50,00,000.00
24	Rs. 800 lakhs Loan 1980-81 ..	6½%	8,00,00,000.00	60	Rs. 40 lakhs Loan 1966-67 ..	6½%	40,00,000.00
25	Rs. 600 lakhs Loan 1981-82 ..	7½%	6,60,00,000.00	61	Rs. 20 lakhs Loan 1967-68 ..	6½%	20,00,000.00
26	Rs. 500 lakhs Loan 1981-82 ..	7%	5,00,00,000.00	62	Rs. 100 lakhs Loan 1972-73 ..	6½%	1,00,00,000.00
27	US 6.50 Millions Loan from World Bank (I B R D) thro. BMRDA ..	9.2%	3,90,80,469.67	63	Rs. 50 lakhs Loan 1973-74 ..	6½%	50,00,000.00
28	Rs. 600 lakhs Loan 1982-83 ..	7½%	6,60,00,000.00	64	Rs. 50 lakhs Loan 1974-75 ..	6½%	50,00,000.00
29	Rs. 600 lakhs Loan 1982-83 ..	7½%	6,00,00,000.00	65	Rs. 50 lakhs Loan 1975-76 ..	6½%	50,00,000.00
30	Rs. 600 lakhs Loan 1983-84 ..	8½%	6,60,00,000.00	66	Rs. 150 lakhs Loan 1976-77 ..	6½%	1,50,00,000.00
31	Rs. 700 lakhs Loan 1983-84 ..	8½%	7,00,00,000.00	67	Rs. 75 lakhs Loan 1976-77 ..	6½%	75,00,000.00
32	Rs. 1100 lakhs Loan 1984-85 ..	9%	12,10,00,000.00	68	Rs. 400 lakhs Loan 1977-78 ..	6½%	4,00,00,000.00
33	Rs. 700 lakhs Loan 1984-85 ..	9%	7,00,00,000.00	69	Rs. 300 lakhs Loan 1978-79 ..	6½%	3,00,00,000.00
34	Rs. 546 Lakhs Loan 1985-86 ..	9½%	5,46,00,000.00	70	Rs. 425 lakhs Loan 1979-80 ..	6½%	4,25,00,000.00
35	Rs. 2000 Lakhs Loan 1985-86 ..	9½%	20,00,00,000.00	71	Rs. 450 lakhs Loan 1980-81 ..	7½%	4,50,00,000.00
36	Rs. 76 Lakhs Loan from General Insurance Corporation of India through G. O. M. for Purchas of Capital Fire Fight Equipments 1985-86 ..	9½%	70,93,333.33	72	Rs. 150 lakhs Loan 1980-81 ..	6½%	1,50,00,000.00
37	Rs. 51.97 Crores Loans for Affordable Low Income Shelter Programme B.U.D.P.-I. ..	8½%	5,75,95,159.00		<b>Total Div. III</b> ..		<b>24,92,50,000.00</b>
38	Rs. 1100 lakhs Loan 1986-87 ..	11%	11,00,00,000.00		<b>Budget 'A' Div. II</b> (Subs. / Ext. Subs.)		
39	Rs. 1000 lakhs Loan 1986-87 ..	11%	10,00,00,000.00	73	Rs. 650 lakhs Loan 1981-82 ..	7½%	7,15,00,000.00
	<b>Tota</b> ..		<b>1,92,21,68,962.00</b>	74	Rs. 100 lakhs Loan 1981-82 ..	7½%	1,10,00,000.00
	<b>Less: Amount transferred to Budget 'G'</b> ..		<b>-21,98,40,970.06</b>	75	Rs. 500 Lakhs Loan 1981-82 ..	7%	5,00,00,000.00
	<b>Total Div. I</b> ..		<b>1,70,23,27,991.94</b>	76	Rs. 775 lakhs Loan 1982-83 ..	7½%	8,52,50,000.00
				77	Rs. 500 lakhs Loan 1982-83 ..	7½%	5,00,00,000.00
					<b>Total Div. II</b> ..		<b>26,77,50,000.00</b>
					<b>Total</b> ..		<b>96,75,00,000.00</b>
					<b>Less: Amount transferred to Budget 'G'</b> ..		<b>-2,91,17,200.00</b>
					<b>Total Div. II &amp; III</b> ..		<b>93,83,58,280.00</b>
					<b>Budget 'A' Div. II (W. S.)</b>		
				78	Rs. 800 lakhs Loan 1983-84 ..	8½%	8,80,00,000.00
				79	Rs. 1500 lakhs Loan 1984-85 ..	9½%	16,50,00,000.00
				80	Rs. 2200 Lakhs Loan 1985-86 ..	9%	22,00,00,000.00
				81	Rs. 1089 lakhs Loan 1986-87 ..	11%	10,89,00,000.00
				82	Rs. 600 lakhs Loan 1986-87 ..	11%	6,00,00,000.00
					<b>Total Div. II (W. S.)</b> ..		<b>64,19,00,000.00</b>
					<b>Budget A Div. III (E. S.)</b>		
				83	Rs. 400 lakhs Loan 1983-84 ..	8½%	4,00,00,000.00
				84	Rs. 500 lakhs Loan 1984-85 ..	9%	5,00,00,000.00
				85	Rs. 2000 Lakh Loan 1985-86 ..	9½%	20,00,00,000.00
				86	Rs. 1500 Lakh Loan 1986-87 ..	11%	15,00,00,000.00
					<b>Total Div. III (E. S.)</b> ..		<b>44,00,00,000.00</b>
					<b>Grand Total Budget 'A'</b> ..		<b>3,72,25,86,271.94</b>

## APPENDIX—15

(Consolidated)

Budgets 'A' and 'B'

Statement showing Receipts and Expenditure during the year 1986-87 and balances to the credit of the Municipal General Fund at the close of the year i. e. 31st March 1987.

Account Heads	Division I (City)		Division II (W. S.)		Division III (E. S.)		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>BUDGET 'A' (Part I)</b>								
<b>RECEIPTS</b>								
<b>A) Revenue Account Receipts</b>								
<b>1 General Tax, Indirect Taxation and Miscellaneous Revenues</b>								
<b>A—General Tax.</b>	21,38,56,649.79		23,17,91,151.97		8,24,86,882.78		52,81,34,684.54	
<b>B—Octroi.</b>	2,12,18,92,208.21		..		..		2,12,18,92,208.21	
<b>BB—Theatre Tax</b>	16,44,060.45		9,41,120.89		5,61,255.30		31,46,436.64	
<b>C—Other Receipts</b>								
<b>(a) Grant-in-Aid of Fees for land conveyance, Music etc. Licenses</b>	1,322.50		..		..		1,322.50	
<b>(b) Grant-in-Aid in respect of Fines for Offences against the Law</b>	25,06,035.00		..		..		25,06,035.00	
<b>(c) Interest and Profit on Investment of Surplus Loan and Other Balances</b>	5,92,35,574.04		3,63,922.47		79,736.64		5,96,79,233.15	
<b>(d) Miscellaneous</b>	3,47,27,609.07		1,73,48,759.13		10,39,425.38		5,31,15,793.58	
<b>(e) Receipts on account of Municipal Journal</b>	11,673.00		..		..		11,673.00	
<b>D—Receipts on account of proportionate Cost of Collection of Education Cess</b>	7,43,991.75		4,46,026.00		2,45,607.35		14,35,625.10	
<b>E—Rebates from Govt. on account of collection of Education Cess</b>	..		..		..		..	
	2,43,46,19,123.81		25,08,90,980.46		8,44,12,907.45		2,76,99,23,011.72	
<b>2. Museums.</b>	1,14,747.00		..		..		1,14,747.00	
<b>3. Free Reading Rooms and Libraries.</b>	.50		9,697.00		3,240.00		12,937.50	
<b>4. Municipal High School</b>	6,55,51,852.18		..		..		6,55,51,852.18	
<b>5. Street Cleaning, Conservancy and Halalkhore Service</b>	69,26,49.40		35,16,801.15		18,18,230.99		1,22,61,581.54	
<b>6. S. W. Drains etc.</b>	2,02,246.72		10,413.53		8,342.50		2,21,002.75	
<b>7. Mechanical and Electrical</b>	5,66,662.08		3,10,038.70		97.00		8,76,797.78	
<b>8. Buildings, Land Acquisition and Management.</b>								
<b>A—Sale Proceeds of Land.</b>	..		..		..		..	
<b>B—Other Receipts:</b>								
<b>(a) Rent of Buildings.</b>	52,22,729.83		3,76,105.94		52,930.16		56,51,765.93	
<b>(b) Ground Rent.</b>	10,47,537.49		44,469.03		1,54,422.59		12,46,429.51	
<b>(c) Miscellaneous</b>	1,93,21,233.73		3,33,31,432.29		1,16,84,163.56		6,43,36,829.58	
<b>C—Contribution from Capital Funds on account of Special Land Acquisition Staff.</b>	7,82,943.68		..		..		7,82,943.68	
	2,63,74,444.73		3,37,52,007.26		1,18,91,516.71		7,20,17,968.70	
<b>9. Fire Brigade</b>								
<b>A—Fire Tax</b>	1,41,61,398.09		1,34,59,431.82		51,91,257.31		3,28,12,087.22	
<b>B—Other Receipts</b>	1,13,602.56		13,896.70		4,542.00		1,32,041.26	
	1,42,75,000.65		1,34,73,328.52		51,95,799.31		3,29,44,128.48	
<b>10. Licensing, and Removal of Encroachments on Public Streets.</b>								
<b>A—Licences for Dangerous and Offensive Trades</b>	1,91,47,509.96		1,36,30,977.06		82,89,405.17		4,10,67,892.19	
<b>B—Removal of Encroachments on Public Streets etc.</b>	2,03,21,833.70		56,93,308.57		28,29,068.65		2,88,44,210.92	
<b>C—Miscellaneous</b>	71,07,447.72		19,93,248.87		10,28,085.04		1,01,28,757.63	
	4,65,76,791.38		2,13,17,510.50		1,21,46,558.86		8,00,40,860.74	
<b>11. Administration of Shops and Establishment Act 1948.</b>	19,89,728.30		9,65,751.83		5,28,873.75		34,84,353.88	
<b>12. Gardens and Open Spaces</b>	23,28,100.09		24,08,774.09		17,09,454.47		64,46,338.65	
<b>13. Markets</b>	2,77,46,625.92		55,15,297.37		22,17,746.09		3,54,79,661.38	
<b>14. Donor Abattoir.</b>	..		..		4,89,53,272.26		4,89,53,272.26	

## APPENDIX—15—(Contd.)

(Consolidated)

Account Heads	Division I (City)		Division II (W.S.)		Division III (E. S.)		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>Budget 'A' Receipts—(Contd.)</b>								
<b>15. Traffic Operations, Road and Bridges—</b>								
A—Wheel Tax.	1,87,52,480.11		68,43,833.76		35,26,810.23		2,91,23,124.10	
B—Contributions from Govt. in lieu of Tolls	24,927.00		20,637.00		..		45,564.00	
C—Other Receipts	94,12,810.33		86,66,159.73		35,56,517.93		2,16,35,487.99	
D—Ferry Receipts.	..		17,98,372.37		..		17,98,372.37	
	<b>2,81,90,217.44</b>		<b>1,73,29,002.86</b>		<b>70,83,328.16</b>		<b>5,26,02,548.46</b>	
<b>16. Contribution from Capital Funds to Revenue</b>								
Account of Loan Works Staff.	59,42,358.65		42,13,787.92		25,51,089.98		1,27,07,236.55	
17. Extra Ordinary Receipts.	1,14,456.24		..		..		1,14,456.24	
18. Transfer from the B. E. S. & T. Fund.	40,00,000.00		..		..		40,00,000.00	
19. Rebate from Government on Account of Collection of U. I. P. Tax, Education Cess levied Employment Guarantee, House Rep. etc.	58,15,049.23		10,54,682.09		3,67,097.09		72,36,828.41	
20. Receipts from Government on Account of Urban Immoveable Property Tax etc.	..		..		..		..	
21. Share in Entertainment Tax etc.	2,70,48,681.97		..		..		2,70,48,681.97	
22. Share in Non-Agricultural Assessment Tax	96,00,000.00		..		..		96,00,000.00	
<b>Total—Part I</b>	<b>2,70,79,82,636.29</b>		<b>35,47,68,073.28</b>		<b>17,88,87,564.62</b>		<b>3,24,16,38,274.19</b>	
<b>Budget 'A' (Part-II)</b>								
21. Public Health Department.	39,45,954.45		35,85,118.30		11,98,248.90		87,29,321.65	
22. Medical Relief and Education.	1,69,25,654.80		47,98,144.81		28,57,059.02		2,45,80,858.63	
23. Measures to Control Environmental Air Pollution in Greater Bombay.	34,43,786.42		17,52,153.10		23,95,320.19		75,91,259.71	
<b>Total—Part II</b>	<b>2,43,15,395.67</b>		<b>1,01,35,416.21</b>		<b>64,50,628.11</b>		<b>4,09,01,439.99</b>	
<b>Total—(A) Revenue Receipts.</b>	<b>2,73,22,98,031.96</b>		<b>36,49,03,489.49</b>		<b>18,53,38,192.73</b>		<b>3,28,25,39,714.18</b>	
<b>(B) Capital Account Receipts—</b>								
<b>Loan Funds—Capital Receipts—</b>								
Debt Principal—New Loans of 1986-87.	23,59,94,432.00		16,89,00,000.00		15,00,00,000.00		55,48,94,432.00	
Advances from Surplus Monies for Financing Loan Works Expenditure Special Funds.	..		..		Or. 4,69,70,532.52		Or. 4,69,70,532.52	
Recoupment of Advances from Loan Funds for Purchase of Plant and Machinery.	2,90,80,400.63		55,65,513.92		6,87,059.53		3,53,32,974.08	
Non-recurring grant in aid for infrastructural Feed Compost Plant.	..		..		..		..	
Trust Fund—Donations	30,000.00		..		..		30,000.00	
<b>Total—(B) Capital Receipts I+II..</b>	<b>26,51,04,832.63</b>		<b>17,44,65,513.92</b>		<b>10,37,16,527.01</b>		<b>54,32,86,873.56</b>	
<b>(C) Suspense Account Receipts—</b>								
<b>I—Sinking and Special Fund Accounts—</b>								
Sinking Fund Account (Municipal)	7,71,63,683.85		9,82,19,479.30		47,42,753.00		18,01,25,916.15	
Special Fund Account.	59,32,74,595.66		3,92,56,350.00		..		63,25,30,945.66	
<b>Total—I (S and S. Funds)</b>	<b>67,04,38,279.51</b>		<b>13,74,75,829.30</b>		<b>47,42,753.00</b>		<b>81,26,56,861.81</b>	
<b>II—Paper and Cash Accounts—</b>								
1. Sinking Fund.	9,53,43,935.77		3,84,30,062.26		..		13,37,73,998.03	
2. Special Funds.	29,65,65,737.40		1,87,500.00		..		29,67,53,237.40	
3. Surplus Fund.	59,46,36,218.02		12,96,12,459.03		15,47,42,700.00		87,89,91,377.05	
4. Loan Fund.	26.18		2,29,69,288.51		..		2,29,69,314.69	
4A. Trust Fund	11.24		..		..		11.24	
5. State Bank of India and Other Local Banks on Account of Sundry Deposits..	4,63,04,54,438.46		12,08,41,771.19		21,79,50,448.50		4,96,92,46,658.15	
<b>Total—II (Paper &amp; Cash)</b>	<b>5,61,70,00,367.07</b>		<b>31,20,41,080.99</b>		<b>37,26,93,148.50</b>		<b>6,30,17,34,596.56</b>	
<b>III—Other Suspense Accounts—</b>								
Deposits Accounts	5,49,08,57,609.63		47,93,50,249.81		37,06,90,642.97		6,34,08,98,502.41	
Reserve Stores Account.	10,20,33,431.30		..		..		10,20,33,431.30	
Capital Stores Accounts.	19,66,12,686.63		..		..		19,66,12,686.68	
Purchase of Petrol and Diesel Oil.	53,38,284.44		39,91,723.29		1,31,224.42		99,61,232.18	
Advances to Public including Co-operative for Housing purposes.	1,23,69,044.00		..		..		1,23,69,044.00	
Advances Departmental Works.	99,90,047.35		31,68,421.11		31,57,119.02		1,63,15,587.48	
Advances Dept. Works-Traffic Amenities..	..		85,539.00		2,88,594.46		3,74,133.46	
Advances Municipal Workshops.	92,00,218.67		8,87,968.60		..		1,00,88,187.27	
Municipal Foundry	18,53,876.61		..		..		18,53,876.61	
Worth Crushers.	..		..		..		..	
Mechanical Transport.	4,77,17,072.15		2,29,92,670.83		..		7,07,09,942.98	
Asphalt Plant.	62,50,169.91		..		..		62,50,169.91	

## APPENDIX—15 (Contd.)

(CONSOLIDATED.)

Account Heads	Division-I (City)		Division-II (W. S.)		Division-III (B. S.)		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>Budget 'A' Receipts (Contd.)</b>								
Municipal Printing Press .. ..	1,95,44,736.68						1,95,44,736.68	
Rota Printing Unit .. ..	25,73,050.15						25,73,050.15	
Advances Private Works .. ..	61,71,763.71				82,199.64		62,53,963.35	
Advances Private Works-Traffic Amenities .. ..			73,700.76		1,05,208.95		1,78,909.71	
Reinstatement of Trenches .. ..	1,13,56,840.40		72,00,444.99		30,44,404.24		2,16,01,689.63	
Advances Special Funds .. ..	46,77,806.95						46,77,806.95	
Municipal Contractors .. ..	1,20,610.04		4,83,928.00		37,711.08		6,41,249.12	
Municipal Tenderers .. ..								
Sundry Advances Miscellaneous .. ..	13,17,83,775.02		7,37,12,643.92		6,80,12,829.60		27,35,09,248.54	
Advances for Demolition of Unauthorised Structures and for removal of unsafe Buildings .. ..	58,37,653.15		3,903.00		2,24,390.70		60,65,946.85	
Advances for conversion of Basket Privies etc. .. ..								
Advances to Municipal Officers .. ..	20,35,571.46		1,51,760.00		550.00		21,87,881.46	
Interest accrued But Not Paid .. ..	17,10,366.67		66,73,333.33		54,166.66		84,37,866.66	
Interest receivable Account .. ..								
Provident Fund .. ..	27,71,60,779.94		69,52,649.70		46,14,463.12		28,87,27,892.76	
Welfare Fund .. ..					500.00		500.00	
Fines Fund .. ..	6,385.78						6,385.78	
Fidelity Guarantee Insurance Fund* .. ..	1,898.65						1,898.65	
B.M.C. Loans Interest Warrants Payable A/c....	4,90,47,110.14		8,69,64,320.44				13,60,11,430.58	
Dishonoured Cheques .. ..	5,04,27,913.57		2,07,88,787.03		61,75,376.08		7,73,92,076.65	
Cash Bills Outstanding Accounts .. ..	6,96,429.03		2,23,133.27		29,240.30		9,48,802.60	
Cheques Payable .. ..	10,30,70,87,557.38		97,25,08,904.61		69,18,61,651.91		11,97,14,58,113.90	
Wages Deposit Account .. ..								
Loan Redemption Fund Municipal .. ..	3,32,35,403.61						3,32,35,403.61	
Repayment of Loans .. ..			14,93,650.00				14,93,650.00	
Interest on B.M.C. Loans Payable Account .. ..	22,465.00		7,87,824.73				8,10,289.73	
Municipal Power Laundry .. ..	78,69,408.92						78,69,408.92	
Advances from Surplus Monies for financing Loan Works Expenditure .. ..					4,69,70,532.52		4,69,70,532.52	
Compost plant debt charges .. ..			1,25,843.37				1,25,843.37	
Pension Fund .. ..	28,69,66,853.68						28,69,66,853.68	
Gratuities Fund .. ..	49,05,518.65						49,05,518.65	
Amounts transferred within Budget 'A' Divns. .. ..	77,39,20,450.13		76,93,28,479.20		54,19,88,835.23		2,08,52,37,764.56	
Amounts transferred to Budget 'G' .. ..	1,57,56,14,504.22						1,57,56,14,504.22	
Improving Common House Gullies .. ..	3,31,605.22						3,31,605.22	
Contribution Receivable from Budget 'E' .. ..	67,87,13,450.83						67,87,13,450.83	
Advance for Deposit with outside bodies .. ..	1,200.00						1,200.00	
Unadjusted Reserve Stores Account Stock .. ..	46,74,057.91						46,74,057.91	
Halalkhore Services .. ..								
Advances Special Funds for Purchase of Plant and Machinery. .. ..								
Municipal Debt Interest .. ..			11,10,70,105.27				11,10,70,105.27	
Advances for unforeseen works during draught period .. ..								
Adv. for consolidation of passing in put compan. .. ..								
Advances for Improvement of Private Streets .. ..								
<b>Total III—(Other Sup.) .. ..</b>	<b>20,11,92,17,608.63</b>		<b>2,56,90,20,184.23</b>		<b>1,73,74,69,640.93</b>		<b>24,42,57,07,433.79</b>	
<b>Total (C) Suspense Receipts .. ..</b>	<b>26,40,66,56,255.21</b>		<b>3,01,85,37,094.52</b>		<b>2,11,49,05,542.43</b>		<b>31,54,00,98,892.16</b>	
<b>Total Receipts Budget 'A' .. ..</b>	<b>29,40,40,59,119.80</b>		<b>3,55,79,06,097.93</b>		<b>2,40,39,60,262.17</b>		<b>35,36,59,25,479.90</b>	
Tree Authority Budget .. ..	50,34,859.34						50,34,859.34	

**APPENDIX—15—(Contd.)**  
**(CONSOLIDATED)**

Account Heads	Improvement Scheme		Slum Improvement		Slum Clearance (City)		Slum Clearance (Western & Eastern Suburbs)		Total Budget 'B'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>BUDGET 'B' RECEIPTS</b>										
<b>(A) General Account Revenue</b>										
I Rent and other Proceeds of Properties.	3,08,90,169.31		2,65,00,466.99		40,78,202.55		9,81,211.32		6,24,50,050.17	
II Contribution from B. M. C. under section 125 (2) (d) of the B.M.C. Act.	3,52,07,903.00		..		..		..		3,52,07,903.00	
IV Interest and Profit on Investments.	..		..		..		..		..	
V Miscellaneous Receipts.	24,85,177.84		..		..		2,97,384.05		27,82,561.89	
VI Grant Assistance from Govt. of India for Improvement Slums.	..		..		..		..		..	
VII Appropriation from Capital Account to meet the deficit	2,12,87,155.74		..		64,80,054.59		49,47,446.38		3,27,14,656.71	
Contribution from Budget 'A'	..		6,23,91,878.17		..		..		6,23,91,878.17	
<b>Total (A) General Account Revenue.</b>	<b>8,98,70,405.89</b>		<b>8,88,92,345.16</b>		<b>1,05,58,257.14</b>		<b>62,26,041.75</b>		<b>19,55,47,049.94</b>	
<b>(B) Capital Account Receipts</b>										
Sale Proceeds of Lands, Building etc.	7,01,997.79		..		..		1,29,861.55		8,31,859.34	
Transfer of Revenue Surplus from General Account	..		..		..		..		..	
New Loans raised during 1986-87.	..		..		..		..		..	
Advances from Surplus Monies.	2,26,57,065.25		2,55,40,043.34		80,33,413.32		48,17,584.83		6,10,48,106.74	
Reimbursement from Maharashtra Slum Improvement Board	..		1,08,93,129.00		..		..		1,08,93,129.00	
Reimbursement from Collector of Bombay Suburban District	..		75,00,000.00		..		..		75,00,000.00	
<b>Total (B) Capital Receipts</b>	<b>2,33,59,063.04</b>		<b>4,39,33,172.34</b>		<b>80,33,413.32</b>		<b>49,47,446.38</b>		<b>8,02,73,095.08</b>	
<b>(C) Suspense Account Receipts</b>										
<b>I. Sinking and Special Funds Accounts</b>										
(a) Sinking Fund Account.	59,64,110.38		6,51,480.75		23,83,130.45		24,29,350.86		1,14,28,072.44	
(b) Investment Reserve Fund Accounts	29,15,020.24		..		..		..		29,15,020.24	
(c) Rent Equalisation Fund Account	10,94,413.38		..		..		..		10,94,413.38	
(d) Amenities Fund Account	4,97,261.86		..		..		..		4,97,261.86	
<b>Total I (S. and S. Funds)</b>	<b>1,04,70,805.86</b>		<b>6,51,480.75</b>		<b>23,83,130.45</b>		<b>24,29,350.86</b>		<b>1,39,34,767.92</b>	
<b>II Paper and Cash Account.</b>										
(a) Sinking Fund.	75,32,937.80		68.50		51,51,017.75		67,889.46		1,27,51,913.51	
(b) Capital Fund.	..		..		..		..		..	
(c) Investment Reserve Fund.	9.13		..		..		..		9.13	
(d) Rent Equalisation Fund.	109.37		..		..		..		109.37	
(e) Amenities Fund.	108.75		..		..		..		108.75	
<b>Total II—(Paper &amp; Cash)</b>	<b>75,33,165.05</b>		<b>68.50</b>		<b>51,51,017.75</b>		<b>67,889.46</b>		<b>1,27,52,140.76</b>	
<b>III—Other Suspense Accounts.</b>										
Loan Redemption Fund	69,28,000.00		..		52,55,078.51		1,45,161.28		1,23,28,239.79	
B. I. T. Loans Interest Warrants Payable Account	..		..		..		..		..	
<b>Total—III (Other Susp.)</b>	<b>69,28,000.00</b>		<b>..</b>		<b>52,55,078.51</b>		<b>1,45,161.28</b>		<b>1,23,28,239.79</b>	
<b>Total (C) Suspense Receipts</b>	<b>2,49,31,970.91</b>		<b>6,51,549.25</b>		<b>1,27,89,226.71</b>		<b>26,42,401.60</b>		<b>4,10,15,148.47</b>	
<b>Total Receipts—Budget 'B'</b>	<b>13,81,61,439.84</b>		<b>13,34,77,066.75</b>		<b>3,13,80,897.17</b>		<b>1,38,15,889.73</b>		<b>31,68,35,293.49</b>	

APPENDIX—13—(contd.)  
(CONSOLIDATED)

Account Heads	Division I (City)		Division II (Western Suburbs)		Division III (Eastern Suburbs)		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>BUDGET 'A' (Part I)</b>								
<b>EXPENDITURE</b>								
<b>A) Revenue Account—</b>								
<b>I—General Supervision, Collection of Revenue, etc</b>								
A—General Superintendence .. ..	9,57,81,102.74		1,76,11,986.95		1,42,32,623.51		12,76,25,713.10	
B—Collection of Revenue .. ..	5,55,02,912.63		1,49,11,118.46		81,86,911.60		7,86,03,942.69	
C—Upkeep and guarding of Municipal Offices ..	85,43,261.41		33,48,205.52		25,13,110.46		1,44,09,577.39	
D—General Stores .. ..	32,69,935.99		..		..		32,69,935.99	
E—Legal Department .. ..	56,68,173.19		1,79,632.15		Cr. 363.00		58,47,445.34	
F—Miscellaneous Charges .. ..	23,74,226.63		1,05,570.00		1,26,000.00		26,05,796.63	
G—Election Expenses .. ..	38,89,537.2		..		..		38,89,523.72	
H—Provident Fund Charges .. ..	..		..		..		..	
I—Debt Charges .. ..	93,31,247.17		36,21,993.26		14,67,399.02		1,44,20,639.45	
J—Encouraging sports activities .. ..	4,000.00		..		..		4,000.00	
K—Payment of Bank Commission Charges ..	8,527.51		..		..		8,527.51	
	18,43,77,910.99		3,97,78,506.24		2,65,25,684.59		25,06,82,101.82	
Deduct : Proportion of General Superintendence	4,59,21,249.11		1,20,17,315.37		86,94,518.35		6,66,33,082.83	
	13,84,56,661.88		2,77,61,190.87		1,78,31,166.24		18,40,49,018.99	
<b>II—Museums—</b>								
A—Dr. Bhanu Daji Lad Museum .. ..	3,23,966.18		..		..		3,23,966.18	
B—Provident Fund Charges .. ..	..		..		..		..	
C—Debt Charges .. ..	..		..		..		..	
	3,23,966.18		..		..		3,23,966.18	
<b>III—Free Reading Rooms and Libraries—</b>								
A—Municipal Free Reading Rooms & Libraries ..	22,74,113.08		10,48,819.49		5,76,825.26		38,99,757.83	
B—Provident Fund Charges .. ..	..		..		..		..	
C—Debt Charges .. ..	1,06,619.50		1,261.48		..		1,07,880.98	
	23,80,732.58		10,50,080.97		5,76,825.26		40,07,638.81	
<b>V—Municipal High Schools.</b>								
A—Municipal High Schools .. ..	6,06,45,325.97		..		..		6,06,45,325.97	
B—Provident Fund Charges .. ..	..		..		..		..	
C—Pension Fund .. ..	7,68,954.82		..		..		7,68,954.82	
	6,14,14,280.79		..		..		6,14,14,280.79	
<b>V—Street Cleansing, Conservancy and Halalkhore Service—</b>								
A—Street Cleansing and Conservancy .. ..	2,27,08,070.70		1,00,93,653.65		71,41,357.70		3,99,43,082.05	
B—Collection, Loading, Removal and Disposal of Town Refuse .. ..	20,52,86,769.60		6,85,82,705.00		5,45,31,310.04		32,84,00,784.64	
C—Halalkhore Service .. ..	1,40,21,848.68		1,59,18,242.22		73,28,030.88		3,72,68,121.78	
D—Provident Fund Charges .. ..	..		..		..		..	
E—Debt Charges .. ..	35,13,707.31		26,43,901.51		23,47,484.11		85,05,092.93	
	24,55,30,396.29		9,72,38,502.38		7,13,48,182.73		41,41,17,081.40	
<b>VI—S.W. Drains—</b>								
A—Maintenance of S.W. Drains .. ..	1,89,23,491.00		2,26,47,321.17		2,13,25,696.73		6,28,96,508.90	
B—Provident Fund Charges .. ..	..		Cr. 162.13		..		Cr. 162.13	
C—Debt Charges .. ..	68,62,519.66		86,82,703.47		66,34,440.10		2,21,79,663.23	
	2,57,86,010.66		3,13,29,862.51		2,79,60,136.83		8,50,76,010.00	
<b>VII—Mechanical and Electrical</b>								
A—Mechanical Engineer's Office Establishment	39,45,155.82		4,17,874.27		38,603.10		44,01,633.19	
B—Maintenance of Electric Installations ..	..		3,40,536.08		56,537.62		3,97,073.70	
C—Provident Fund Charges .. ..	..		..		..		..	
D—Debt Charges .. ..	Cr. 1,09,026.82		54,469.81		..		Cr. 54,557.01	
E—Contribution to Motor Vehicle (T.P.) Insurance Fund	50,000.00		..		..		50,000.00	
	38,86,129.00		8,12,880.16		95,140.72		47,94,149.88	

## APPENDIX-15-(Contd.)

(Consolidated).

Account Heads	Division I City		Division II (W. S.)		Division III (B. S.)		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>BUDGET 'A' EXPENDITURE-(Contd.)</b>								
VIII—Buildings, Land Acquisition and Management								
A—City Engineer's Central Office Establishment	69,29,649.94		51,00,089.63		27,77,916.42		1,48,07,655.99	
B—Inspection and Supervision of Private Buildings.	68,71,579.75		16,18,660.40		11,66,546.69		96,56,786.84	
C—Architectural .. .. .	7,05,943.06		..		..		7,05,943.06	
D—Land Acquisition and Management .. .. .	75,06,241.26		3,58,439.17		15,398.29		78,80,078.72	
E—Inspection and Supervision of Factories, Workshops and Work Places. .. .. .	7,62,864.31		7,10,524.51		3,27,332.48		18,00,721.30	
F—Industrial Estates .. .. .	9,12,623.70		..		..		9,12,623.70	
G—Provident Fund Charges. .. .. .	..		..		..		..	
H—Debt Charges. .. .. .	1,01,51,262.03		64,03,019.21		18,09,847.00		1,83,64,128.24	
	3,38,40,164.05		1,41,90,732.92		60,97,040.88		5,41,27,937.85	
Deduct—2½ Percent Supervision chargeable to Imp. Scheme A/c. .. .. .	46,672.86		..		..		46,672.86	
	3,37,93,491.19		1,41,90,732.92		60,97,040.88		5,40,81,264.99	
IX—Fire Brigade—								
A—Maintenance .. .. .	1,96,58,340.87		36,49,014.10		34,48,097.00		2,67,55,451.97	
B—Provident Fund Charges. .. .. .	..		..		..		..	
C—Pension, Gratuities and Compassionate Allowances. .. .. .	4,90,700.00		..		2,49,120.00		7,39,820.00	
D—Proportion of General Supervision and Collection of Revenue .. .. .	13,89,667.23		4,56,084.29		2,54,483.90		21,00,235.42	
E—Debt Charges .. .. .	85,15,140.15		76,60,614.15		7,31,450.70		1,69,07,205.00	
F—Contribution to Fire Brigade Employees Accident Compensation Fund. .. .. .	1,00,000.00		..		..		1,00,000.00	
	3,01,53,648.25		1,17,65,712.54		46,83,151.60		4,66,02,712.39	
X—Licensing and Removal of Encroachments on Public Streets.								
A—Licensing Establishment .. .. .	54,44,418.17		25,04,699.31		15,52,046.89		95,01,164.37	
B—Removal of Encroachment on Public Streets	72,12,725.02		26,59,286.46		12,14,576.61		1,10,86,588.09	
C—Provident Fund Charges .. .. .	..		..		..		..	
D—Debt Charges .. .. .	1,37,842.36		..		..		1,37,842.36	
	1,27,94,985.55		51,63,985.77		27,66,623.50		2,07,25,594.82	
XI—Administration of Shops and Establishment Act 1948.								
A—Administration of Shops and Establishment Act 1948 .. .. .	28,46,044.57		10,18,253.08		6,63,284.73		45,27,582.38	
E—Provident Fund Charges. .. .. .	..		..		..		..	
	28,46,044.57		10,18,253.08		6,63,284.73		45,27,582.38	
XII—Gardens, Recreation Centres and Open Spaces								
A—Gardens .. .. .	1,62,14,263.69		78,04,101.09		54,10,559.52		2,94,28,924.30	
B—New Gardens, Recreation Grounds, etc .. .. .	85,421.25		81,067.83		45,483.44		2,11,972.52	
C—Open Air Theatres .. .. .	2,71,441.26		3,09,252.33		..		5,80,693.59	
D—M. G. M. O. Swimming Pool .. .. .	6,65,507.31		..		..		6,65,507.31	
E—Krida Kendra and Social Welfare Centres .. .. .	3,83,543.89		..		..		3,83,543.89	
F—Sardar V. P. S. Pool Kandivali. .. .. .	..		3,78,302.28		..		3,78,302.28	
G—Ghatkopar Lion's Municipal Swimming Pool .. .. .	..		..		4,76,302.17		4,76,302.17	
H—L. Dinanath Mangeshkar Natya Mandir .. .. .	..		8,47,465.50		..		8,47,465.50	
I—S. Pool Siddharth Nagar Goregaon .. .. .	..		4,39,923.89		..		4,39,923.89	
J—Provident Fund Charges. .. .. .	..		..		..		..	
K—Debt Charges .. .. .	47,87,979.74		1,18,20,594.45		76,49,299.35		2,42,57,873.54	
L—Sports complex Swimming Pool Mulund .. .. .	..		..		9,20,546.73		9,20,546.73	
	2,24,08,157.14		2,16,80,707.37		1,45,02,191.21		5,85,91,055.72	
XIII—Markets								
A—Markets. .. .. .	2,15,68,663.59		67,80,787.25		26,32,397.87		3,09,81,248.71	
B—Provident Fund Charges .. .. .	..		..		..		..	
C—Pension, Gratuities and Compassionate Allowance. .. .. .	8,30,900.00		..		17,91,020.00		26,24,920.00	
D—Proportion of General Supervision .. .. .	40,62,172.82		12,26,240.99		4,27,071.64		57,15,485.45	
E—Debt Charges. .. .. .	58,74,422.81		28,60,683.04		4,79,419.00		92,14,524.85	
	3,23,35,559.22		1,08,67,711.28		53,32,908.51		4,85,36,179.01	

APPENDIX—15—(cont'd)  
(CONSOLIDATED)

Account Heads	Division I (City)		Division II (W. S.)		Division III (E. S.)		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>BUDGET 'A' EXPENDITURE—(Contd.)</b>								
XIV—Deonar Abattoir								
A—Deonar Abattoir .. .. .	..	..	..	..	4,16,42,721.23		4,16,42,721.23	
B—Provident Fund Charges .. .. .	..	..	..	..	..		..	
C—Pension, Gratuities and Compassionate Allowance .. .. .	..	..	..	..	..		..	
D—Proportion of General Supdt. .. .. .	..	..	..	..	7,57,309.06		7,57,309.06	
E—Debt Charges .. .. .	..	..	..	..	55,28,543.84		55,28,543.84	
	..	..	..	..	4,79,28,574.13		4,79,28,574.13	
XV—Traffic Operations, Roads and Bridges—								
A—General .. .. .	83,71,872.08		50,97,819.64		42,54,949.65		1,77,24,641.41	
B—Traffic Planning and Operation .. .. .	30,54,001.47		19,62,314.69		15,969.26		50,32,285.42	
C—Road, Bridge Planning and Design .. .. .	27,056.71		73,277.73		..		1,03,334.44	
D—Road and Bridge Maintenance .. .. .	12,44,97,494.55		9,33,56,943.55		5,50,00,697.04		27,28,55,135.14	
E—Rebate on account of compounded wheel tax permissible under section 185 of the B.M.C. Act .. .. .	..	..	..	..	..		..	
F—Provident Fund Charges .. .. .	..	..	Cr. 20,724.02		..		Cr. 20,724.02	
G—Debt Charges .. .. .	8,42,85,595.20		7,06,24,342.29		3,90,36,477.89		19,39,46,415.38	
H—Proportionate Cost of Collection of Wheel Tax .. .. .	12,39,986.28		7,43,376.66		4,09,345.58		23,92,705.52	
I—Lumpsum provision for payment of Commission charges and interest on I.B.F. D.Loan .. .. .	..	..	..	..	..		..	
J—Lumpsum provision for repayment of I B R D Loan No. 1335 I. N. .. .. .	..	..	..	..	..		..	
	22,14,76,006.29		17,18,37,350.54		9,87,17,439.46		49,20,30,796.29	
XVI—Contributions to—								
(a) Budget 'B' under section 125(2)(d) of the Bombay Municipal Corporation Act .. .. .	1,43,12,063.00		1,28,16,990.00		49,71,690.00		3,21,00,743.00	
(b) Budget 'E' under section 126C (c) of the Bombay Municipal Corporation Act .. .. .	3,57,80,160.00		3,20,42,480.00		1,24,29,430.00		8,02,51,870.00	
(c) Budget 'E' (Special Contribution) under section 126C (c.1) of the Bombay Municipal Act .. .. .	40,85,00,000.00		..		..		40,85,00,000.00	
(d) Fines and Welfare Fund .. .. .	44,28,918.71		..		..		44,28,918.71	
(e) Tree Authority Fund .. .. .	24,09,388.01		..		..		24,09,388.01	
(f) Contribution to P.F. to meet the difference in interest allowed and that actually realised on investment of P. F. .. .. .	1,45,00,000.00		..		..		1,45,00,000.00	
(g) Special Contribution to Budget B Slum Improvement to meet deficit in General Account .. .. .	6,23,91,878.17		..		..		6,23,91,878.17	
	54,23,22,407.89		4,48,59,470.00		1,74,00,920.00		60,45,82,797.89	
XVII—Miscellaneous—								
(a) P. F. charges .. .. .	17,91,932.68		..		..		17,91,932.68	
(b) Incentive Bonus .. .. .	2,38,746.00		..		..		2,38,746.00	
(c) Pension Fund .. .. .	4,45,95,700.00		1,48,15,610.00		86,34,993.91		6,80,46,303.91	
(d) Gratuity Fund .. .. .	21,13,030.00		..		..		21,13,030.00	
(e) Deposit linked Insurance schemes .. .. .	17,58,630.96		..		..		17,58,630.96	
Deduct: Proportionate Share .. .. .	Cr. 2,75,381.48		..		..		Cr. 2,75,381.48	
	5,02,22,658.16		1,48,15,610.00		86,34,993.91		7,35,73,262.07	
XVIII—Measures for Civil Defence .. .. .	1,86,386.31		..		..		1,86,386.31	
XIX—Contribution to Bombay Building Repairs and Reconstruction Board .. .. .	3,60,00,000.00		..		..		3,60,00,000.00	
XX—Village amenities.								
A—Maintenance .. .. .	..	..	..	..	4,18,558.42		4,18,558.42	
Lump-sum provision for Staff Contingencies .. .. .	..	..	..	..	..		..	
XXI—Lump-sum Provision for up-keep of old and Historical monumental Bldgs. in the City .. .. .	..	..	..	..	..		..	
XXII—Lump sum provision for Deposit linked Insurance Scheme .. .. .	..	..	..	..	..		..	
XXIII—Lump-Sum provision for unforeseen works at Rs. 1,00,000 in each constituency .. .. .	49,48,943.34		40,60,785.78		27,51,555.84		1,17,61,284.96	
XXIV—Lump-sum Provision for Past Liabilities .. .. .	10,00,000.00		..		..		10,00,000.00	
XXV—Lump Sum Provision for payment of Arrears on A/c. of Revision of Grades .. .. .	1,46,51,638.53		18,043.89		1,09,552.24		1,47,79,234.66	
XXVIII—Bombay Urban development Project .. .. .	58,275.50		..		..		58,275.50	
<b>Total—Part-I</b> .. .. .	<b>1,48,29,76,579.32</b>		<b>45,84,70,880.06</b>		<b>32,78,18,246.21</b>		<b>2,26,92,65,705.59</b>	



APPENDIX—15—(Contd.)  
(CONSOLIDATED)

Account Heads	Division I (City)		Division II (W. S.)		Division III (E. S.)		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>BUDGET 'A' EXPENDITURE (Contd.)</b>								
Budget 'A' (Part II)								
XXI—Public Health Department—								
A—General Superintendence .. .. .	4,17,62,751.21		2,17,23,527.86		1,41,52,639.87		7,76,38,918.94	
B—Supply of Milk to the under nourished needy children attending Municipal Schools .. .. .	40,25,159.06		40,41,873.68		38,77,945.56		1,19,44,978.30	
C—Provident Fund Charges .. .. .			Cr. 1,57,904.64				Cr. 1,57,904.64	
D—Malaria Eradication Programme .. .. .	11,08,862.57		20,86,966.97		6,01,078.37		37,96,907.91	
E—Impounding Spray Cattle .. .. .	6,68,162.49		15,39,982.89				22,08,145.38	
G—Census .. .. .								
H—Filaria Programme .. .. .			3,58,460.11		3,48,211.15		7,06,671.26	
I—Debt Charges .. .. .	19,70,399.51		39,70,148.31		14,28,840.00		73,69,587.82	
	4,95,35,334.84		3,35,63,055.18		2,04,08,714.95		10,35,07,104.97	
XXXII—Medical Relief and Education—								
A—Hospitals .. .. .	28,67,85,983.82		8,89,18,445.28		6,85,38,902.36		44,42,43,331.46	
B—Maternity Homes .. .. .	1,60,94,326.83		1,12,48,017.02		83,04,889.77		3,56,47,233.62	
C—Dispensaries .. .. .	1,45,65,912.43		75,13,110.23		58,12,796.57		2,78,91,819.23	
D—Medical Education .. .. .	6,12,05,290.26		45,936.11				6,12,51,226.37	
E—Statutory Contributions to Government Medical Institutions .. .. .								
F—Clinic for treatment of Leprosy Cases .. .. .	22,56,000.00		78,510.00		37,255.00		23,71,765.00	
G—Grant-in-Aid to Public Institutions .. .. .	1,43,95,325.61		8,35,000.00		3,43,842.00		1,55,74,167.61	
H—Provident Fund Charges .. .. .								
I—Debt Charges .. .. .	5,24,68,417.97		1,94,93,615.18		78,56,235.45		7,98,18,268.60	
	44,77,71,256.92		12,81,32,633.82		9,08,93,921.15		66,67,97,811.89	
XXXIII—Measures to Control Environmental Air Pollution in Greater Bombay—								
A—Dy. City Engineer (Mech. & Elec.) .. .. .	4,84,968.69						4,84,968.69	
B—Air pollution prevention office .. .. .	33,40,331.19						33,40,331.19	
C—Health Survey Unit .. .. .	2,80,545.25						2,80,545.25	
D—Debt Charges .. .. .	28,13,913.58						28,13,913.58	
	69,19,758.71						69,19,758.71	
<b>Total—Part II .. .. .</b>	<b>50,42,26,350.47</b>		<b>16,16,95,689.00</b>		<b>11,13,02,636.10</b>		<b>77,72,24,675.57</b>	
<b>Total—(A) Revenue Expenditure .. .. .</b>	<b>1,98,72,02,929.79</b>		<b>62,01,66,569.06</b>		<b>43,91,20,882.31</b>		<b>3,04,64,90,381.16</b>	
(B) Capital Account—								
I—General Supervision, Collection of Revenue, etc. .. .. .	77,93,146.55		22,90,720.50				1,00,83,867.05	
II—Free Reading Rooms and Libraries .. .. .	1,65,045.34		7,74,360.84		16,72,801.10		26,12,207.28	
III—Street Cleansing and Conservancy etc. .. .. .	4,69,95,109.34		1,77,74,592.68		1,11,24,275.68		7,58,93,977.70	
IV—S. W. Drains etc. .. .. .	Cr. 6,82,224.07						Cr. 6,82,224.07	
V—Mechanical and Electrical .. .. .	2,56,66,727.82		2,66,65,871.62		2,02,78,096.46		7,26,10,695.90	
VI—Buildings Land Acquisition and Management .. .. .	41,00,922.87		59,31,617.04				1,00,32,539.91	
VII—Fire Brigade .. .. .								
VIII—Licensing, Removal of Encroachment etc. .. .. .	40,18,697.87		2,12,42,458.03		1,16,95,671.51		3,69,56,827.41	
IX—Gardens and Open Spaces .. .. .	9,10,626.32		1,22,082.10				10,92,708.42	
X—Markets .. .. .					95,22,862.58		95,22,862.58	
XI—Deonar Abattoir .. .. .			5,17,151.98		4,52,084.61		9,69,236.59	
XII—Village Amenities .. .. .								
XIII—Industrial Estates .. .. .					20,505.22		2,60,974.22	
XIV—Centenary Celebration Works .. .. .	6,87,76,155.29		7,54,52,792.70		4,48,18,200.78		18,90,47,148.77	
XV—Traffic Operations, Roads and Bridges .. .. .	3,91,16,320.02						3,91,16,320.02	
XVI—Works under B.U.D.F.I.								
Power Laundry .. .. .								
Plant and Machinery out of Loan Funds .. .. .	1,03,25,670.60		21,83,002.00		55,280.00		1,25,03,952.60	
Suspense Account Mechanical Transport .. .. .	11,45,136.26		25,89,038.68				37,34,174.94	
Plant and Machinery Purchased out of different Special Funds .. .. .								
Assets written off .. .. .								
Recoupment of Advance for Purchase of Capital Stores .. .. .	Cr. 39,14,191.61						Cr. 39,14,191.61	
Printing Press .. .. .								
Computer Plant .. .. .					5,442.75		5,442.75	
<b>Total—Part I .. .. .</b>	<b>20,44,17,142.60</b>		<b>15,57,84,157.17</b>		<b>9,96,45,220.69</b>		<b>45,98,46,520.46</b>	
XXI—Public Health Department .. .. .	49,08,186.04		Cr. 15,21,271.40		4,73,704.03		38,66,618.67	
XXII—Medical Relief and Education .. .. .	5,75,18,542.12		1,26,29,602.10		28,69,548.21		7,30,17,692.43	
XXXIII—Measures to Control Environmental Air Pollution in Greater Bombay. .. .. .	1,52,561.00						1,52,561.00	
Plant and Machinery out of Loan Fund .. .. .	1,75,27,177.75		12,12,875.71		7,22,054.08		1,94,62,107.54	
<b>Total—Part II .. .. .</b>	<b>8,01,06,466.91</b>		<b>1,23,21,206.41</b>		<b>40,71,306.32</b>		<b>9,64,98,979.64</b>	
<b>Total Part-I and II .. .. .</b>	<b>28,45,23,609.51</b>		<b>16,81,05,363.58</b>		<b>10,37,16,527.01</b>		<b>55,63,45,500.10</b>	
Trust Fund .. .. .	12,11,611.24		3,292.30				12,14,903.54	
<b>Total—(B) Capital Expenditure .. .. .</b>	<b>28,57,35,220.75</b>		<b>16,81,08,655.88</b>		<b>10,37,16,527.01</b>		<b>55,75,60,403.64</b>	

APPENDIX—15—(contd.)  
(CONSOLIDATED)

Account Heads	Division I (City)		Division II (W. S.)		Division III (E. S.)		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>BUDGET 'A' EXPENDITURE—(Contd.)</b>								
<b>C) Suspense Account</b>								
<b>I—Sinking and Special Fund Accounts</b>								
Sinking Fund Account—Municipal ..	4,86,18,781.15		4,15,93,156.28		..		9,02,11,937.43	
Special Fund Account ..	41,78,26,298.60		..		..		41,78,26,298.60	
Loan Redemption Fund ..	..		..		..		..	
<b>Total—I (S. and S. Funds)</b>	<b>46,64,45,079.75</b>		<b>4,15,93,156.28</b>		<b>..</b>		<b>50,80,38,236.03</b>	
<b>II—Paper and Cash Account</b>								
Sinking Fund ..	12,38,88,838.47		9,50,56,385.28		47,42,753.00		22,36,87,976.75	
Special Fund ..	36,76,44,434.46		1,87,500.00		..		36,78,31,934.46	
Surplus Fund ..	69,04,79,444.69		13,05,68,188.68		16,00,00,000.00		98,10,47,633.37	
Loan Fund ..	149.30		2,93,26,146.55		..		2,93,26,295.85	
State Bank of India and Other Local Banks on account of Sundry Deposits ..	4,58,25,79,729.05		12,09,07,977.20		21,45,99,826.35		4,91,80,87,532.60	
<b>Total—II (Papers and Cash)</b>	<b>5,76,45,92,595.97</b>		<b>37,60,46,197.71</b>		<b>37,93,42,579.35</b>		<b>6,51,99,81,373.03</b>	
<b>III—Other Suspense Accounts</b>								
Deposit Account ..	5,40,15,37,429.36		47,07,24,425.76		34,76,10,731.94		6,21,98,72,587.06	
Reserve Stores Account ..	13,22,53,535.51		..		..		13,22,53,535.51	
Capital Stores Account ..	21,78,46,551.89		..		..		21,78,46,551.89	
Capital Stores Account (Foras Road Depot) ..	7,83,242.52		..		..		7,83,242.52	
Advances for purchase of Petrol and Diesel Oil ..	56,55,614.01		39,69,166.97		..		96,24,780.98	
Advances for Departmental Works ..	84,30,129.53		39,80,097.41		88,39,980.20		2,12,50,207.14	
Advances for Private Works ..	43,61,783.43		..		..		43,61,783.43	
Advances Private Works—Traffic Amenities ..	..		4,21,667.37		1,71,116.74		5,92,784.11	
Advances Departmental Works—Traffic Amenities ..	..		..		25,00,306.90		25,00,306.90	
Municipal Workshop ..	1,41,24,565.88		39,33,342.98		..		1,80,57,908.86	
Municipal Foundry ..	15,29,620.49		..		..		15,29,620.49	
Worli Crusher ..	..		..		..		..	
Mechanical Transport ..	5,50,57,417.19		3,50,86,099.90		..		9,01,43,517.09	
Asphalt Plant ..	69,24,681.39		..		..		69,24,681.39	
Municipal Printing Press ..	1,94,21,639.66		..		..		1,94,21,639.66	
Rota Printing Unit ..	22,39,177.89		..		..		22,39,177.89	
Advances Special Funds ..	46,77,806.95		..		..		46,77,806.95	
Municipal Contractors ..	3,21,217.50		41,167.57		99,108.66		4,61,493.73	
Advances for capitalisation of int. on Loan ..	37,94,432.00		..		..		37,94,432.00	
Advances for Demolition of Unauthorised Structures and Removal of unsafe Buildings ..	29,93,746.44		1,83,680.23		3,28,668.45		35,06,095.12	
Advances to Public including Co-operative for Housing purposes ..	2,72,75,790.00		..		..		2,72,75,790.00	
Municipal Power Laundry ..	80,34,760.35		..		..		80,34,760.35	
Advances to Municipal Officers ..	28,05,680.00		63,300.00		1,39,200.00		30,08,180.00	
Advances, Sundry Advances Miscellaneous ..	25,94,92,136.56		11,33,40,253.08		6,73,62,581.17		44,01,94,970.81	
Provident Fund ..	27,71,60,779.94		69,52,647.70		46,14,463.12		28,87,27,892.76	
Pension Fund ..	28,69,65,853.68		..		..		28,69,65,853.68	
Gratuity Fund ..	49,05,518.65		..		..		49,05,518.65	
Welfare Fund ..	..		70,000.00		59,500.00		1,29,500.00	
Fines Fund ..	6,385.78		..		..		6,385.78	
Fidelity Guarantee Insurance Fund ..	1,898.65		..		..		1,898.65	
Reinstatement of Trenches ..	1,24,55,772.33		71,24,497.84		52,55,499.91		2,37,35,770.08	
Advances from Surplus Monies for Financing Capital Works Expenditure ..	6,10,48,106.74		..		..		6,10,48,106.74	
<b>Total—(C)—III—(Other Susp.) C/F</b>	<b>5,82,11,06,274.32</b>		<b>64,57,90,348.81</b>		<b>43,69,81,157.09</b>		<b>7,90,38,77,780.22</b>	

## APPENDIX-15—(Contd.)

(CONSOLIDATED)

Account Heads	Division I (City)		Division II (W.S.)		Div. III (E.S.)		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
Budget—'A' Expenditure—(Contd.)								
Total—(C) III (Other Susp.) B/F	6,82,11,06,274.32		64,57,90,348.81		43,69,81,157.09		7,90,38,77,780.22	
Dishonoured cheques.	5,04,27,913.57		2,07,88,787.00		61,75,376.08		7,73,92,076.65	
Advances for Halalkhore Service.	..		..		..		..	
Improving common House Gullies in the city..	..		..		..		..	
Advances for Improvement of Private streets.	..		..		..		..	
Advances for Deposit with Outside Bodies.	62,450.00		16,000.00		..		78,450.00	
Advance for Security Deposit with S. B. I.	..		..		..		..	
Interest accrued but not paid	4,90,850.27		6,95,528.84		..		11,86,379.11	
Interest receivable Account.	..		..		..		..	
Interest on Loans Payable Account	6,973.75		3,46,726.50		..		3,53,700.25	
B. M. C. Loans Interest Warrants Payable Account.	4,90,47,905.64		8,69,43,714.94		..		13,59,91,620.58	
Repayment of B. M. C. Loans	3,32,35,403.61		4,07,50,000.00		..		7,39,85,403.61	
Cash Bill Outstanding Account	10,92,760.41		1,09,768.56		32,903.12		12,35,432.09	
Cheques Payable	10,30,66,15,362.34		97,60,05,538.31		69,30,30,915.02		11,97,56,51,815.67	
Wages Deposit Account	..		..		..		..	
Amount Transferred from Mun. General fund Budget A Div. I to Budget 'E'	67,61,30,342.81		..		..		67,61,30,342.81	
Amount transferred to Budget 'G'	1,70,93,71,967.17		..		..		1,70,93,71,967.17	
Amount transferred within Budget 'A' Divisions	1,26,99,46,382.86		46,96,75,783.06		34,56,15,598.64		2,08,52,37,764.56	
Unadjusted Reserve Stores Account Stock.	43,09,916.68		..		..		43,09,916.68	
Unadjusted Reserve Stores (Poras Road Depot)	..		..		..		..	
Municipal Debt. Interest.	..		11,10,70,105.27		..		11,10,70,105.27	
Advances Suspense Account accumulated Surplus Balance payable to Budget 'G'	..		..		..		..	
Compost Plant debt charges	..		..		1,05,646.00		1,05,646.00	
Advances for consolidation of Passge in Pvt. Companies.	..		..		..		..	
Total—III (Other Susp.)	20,92,18,44,503.43		2,35,21,92,301.29		1,48,19,41,595.95		24,75,59,78,400.67	
Total (C) Suspense Expenditure	27,15,28,82,171.15		2,76,98,31,655.28		1,86,12,84,175.30		31,78,39,98,009.73	
Total Expenditure Budget 'A'	29,42,58,20,329.69		3,55,81,06,880.22		2,40,41,21,584.62		35,38,80,48,794.53	
Trec Authority Budget	50,34,859.34		..		..		50,34,859.34	

## Appendix—15 (Contd.)

(CONSOLIDATED)

Account Heads	Improvement Scheme		Slum Improvement		Slum Clearance (C.Y.)		Slum Clearance (Western & Eastern Slums)		Total Budget
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	
<b>BUDGET 'B' EXPENDITURE</b>									
<b>IMPROVEMENT SCHEME ACCOUNT</b>									
<b>(A) General Account Expenditure</b>									
A—Maintenance of Properties and Streets ..	8,16,41,969.41		8,72,77,811.16		62,49,716.16		20,00,302.75		17,71,69,779.48
B—Cost of Management and Establishment ..	2,28,16,632.48		...		...		...		2,28,16,632.48
C—Proportionate Charges on account of Municipal Supervision ..	1,03,02,069.17		...		...		...		1,03,02,069.17
Deduct—Proportionate Share of Cost of Management & Establishment—									
(a) General Account ..	Cr. 3,34,13,708.57		...		...		...		Cr. 3,34,13,708.57
(b) Capital Account ..	Cr. 2,04,993.08		...		...		...		Cr. 2,04,993.08
D—Debt Charges ..	79,53,055.00		16,14,534.00		43,08,540.98		42,25,739.00		1,81,01,868.98
E—Lumpsum Provision for Deposit linked Insurance Scheme ..	1,35,274.48		..		..		..		1,35,274.48
H—Provident Fund charges ..	1,35,454.00		...		..		..		1,35,454.00
I—Incentive Bonus ..	4,653.00		..		..		..		4,653.00
<b>Total (A) General Account Expenditure</b>	<b>8,98,70,405.89</b>		<b>8,88,92,345.16</b>		<b>1,05,58,257.14</b>		<b>62,26,041.75</b>		<b>19,55,47,049.94</b>
<b>(B) Capital Account Expenditure Improvement and Street etc. Schemes Expenditure.</b>									
..	20,71,907.30		4,39,33,172.34		15,53,358.73		..		4,75,58,438.37
Proportionate Share of Cost of Management and Establishment ..									
..	..		...		...		...		..
Deficit in General Account—									
..	2,12,87,155.74		...		64,80,054.59		49,47,446.38		3,27,14,656.71
<b>Total (B) Capital Expenditure</b>	<b>2,33,59,063.04</b>		<b>4,39,33,172.34</b>		<b>80,33,413.32</b>		<b>49,47,446.38</b>		<b>8,02,73,095.08</b>
<b>(C) Suspense Account Expenditure</b>									
<b>I—Sinking etc. Fund Account</b>									
(a) Sinking Fund Account ..	69,53,273.28		...		50,09,178.49		3,682.08		1,19,66,133.85
<b>Total—I (S. Fund)</b>	<b>69,53,273.28</b>		<b>...</b>		<b>50,09,178.49</b>		<b>3,682.08</b>		<b>1,19,66,133.85</b>
<b>II—Provisional Cash Accounts</b>									
(a) Sinking Fund ..	65,43,774.90		6,51,549.25		25,24,969.71		24,93,558.24		1,22,13,852.10
(b) Capital Fund ..	..		..		..		..		..
(c) Investment Reserve Fund ..	29,15,029.37		..		..		..		29,15,029.37
(d) Rent Equalisation Fund ..	1,94,522.75		...		...		...		1,94,522.75
(e) Amenities Fund ..	4,97,370.61		...		..		...		4,97,370.61
<b>Total—II (Provs and Cash)</b>	<b>1,10,50,697.63</b>		<b>6,51,549.25</b>		<b>25,24,969.71</b>		<b>24,93,558.24</b>		<b>1,67,20,774.83</b>
<b>III—Other Suspense Account</b>									
Repayment of B. I. T. etc. Loans ..	59,25,000.00		...		52,55,078.51		1,45,161.28		1,23,28,239.79
B. I. T. Interest Warrants Payable Account ..	...		...		...		...		...
<b>Total—III (Other Susp.)</b>	<b>59,25,000.00</b>		<b>...</b>		<b>52,55,078.51</b>		<b>1,45,161.28</b>		<b>1,23,28,239.79</b>
<b>Total—(C) Suspense Expenditure</b>	<b>2,49,31,970.91</b>		<b>6,51,549.25</b>		<b>1,27,89,226.71</b>		<b>26,42,401.60</b>		<b>4,10,15,148.47</b>
<b>Total Expenditure Budget 'B'</b>	<b>13,81,61,439.84</b>		<b>13,34,77,066.75</b>		<b>3,13,80,397.17</b>		<b>1,38,15,889.73</b>		<b>31,68,35,293.49</b>

**Appendix No. 15 Concl.**

(Consolidated)

RECEIPTS				SUMMARY	DISBURSEMENTS			
Division-I (City)	Division-II (W.S.)	Division-III (E.S.)	Total		ACCOUNTS			
Rs. P.	Rs. P.	Rs. P.	Rs. P.	Division-I	Division-II (W.S.)	Division-III (E.S.)	Total	
Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	
10,83,09,782.93	5,57,15,890.65	3,60,10,257.67	20,00,35,931.25	Opening Balance as at 1st April 1986.	..	..	..	
				Budget 'A'				
2,73,22,98,031.96	36,49,03,489.49	18,53,38,192.73	3,28,25,39,714.18	(A) Revenue Account	1,98,72,02,929.79	62,01,66,569.06	43,91,20,882.31	3,04,64,90,381.16
26,51,04,832.63	17,44,65,513.92	10,37,16,527.01	54,32,86,873.56	(B) Capital Account	28,57,35,220.75	16,81,88,655.88	10,37,16,527.01	55,75,60,403.64
26,40,66,56,255.21	3,01,85,37,094.52	2,11,49,05,542.43	31,54,00,98,892.16	(C) Suspense Account	27,15,28,82,179.15	2,76,98,31,655.28	1,86,12,84,175.30	31,78,39,98,009.73
29,40,40,59,119.80	3,55,79,06,097.93	2,40,39,60,262.17	35,36,59,25,479.90	Total—Budget 'A'	29,42,58,20,329.69	3,55,81,06,880.22	2,40,41,21,584.62	35,38,80,48,794.53
50,34,859.34	..	..	50,34,859.34	Tree Authority Budget.	50,34,859.34	..	..	50,34,859.34
19,55,47,049.94	..	..	19,55,47,049.94	Budget 'B'				
8,02,73,095.08	..	..	8,02,73,095.08	(A) General Account	19,55,47,049.94	..	..	19,55,47,049.94
4,10,15,148.47	..	..	4,10,15,148.47	(B) Capital Account	8,02,73,095.08	..	..	8,02,73,095.08
31,68,35,293.49	..	..	31,68,35,293.49	(C) Suspense Account	4,10,15,148.47	..	..	4,10,15,148.47
29,72,59,29,272.63	3,55,79,06,097.93	2,40,39,60,262.17	35,68,77,95,632.73	Total—Budget 'B'	31,68,35,293.49	..	..	31,68,35,293.49
				Total Budgets 'A' + 'B' + TA	29,74,76,90,482.52	3,55,81,06,880.22	2,40,41,21,584.62	35,70,99,18,947.36
				Closing Balance as at 31st March 1987 as reconciled below* with the Cash Potation	8,65,48,573.04	5,55,15,108.36	3,58,48,935.22	17,79,12,616.62
29,83,42,39,055.56	3,61,36,21,988.58	2,43,99,70,519.84	35,88,78,31,563.98	GRAND TOTAL	29,83,42,39,055.56	3,61,36,21,988.58	2,43,99,70,519.84	35,88,78,31,563.98
				*Bank Reconciliation :				
				Balance as per Bank's Pass Book	90,81,598.96	2,50,15,705.69	3,69,93,332.74	7,10,90,637.39
				Add : Revenue sent to the Bank of 31st March 1987 but acknowledged on 1st April 1987.	1,12,08,584.94	45,31,680.93	9,19,669.98	1,66,59,935.85
				Less : Uncashed Cheques	9,31,37,041.82	3,27,50,213.61	3,79,80,166.17	16,38,67,421.60
				Total Bank Position.	Dr. 7,28,46,857.92	Dr. 32,02,826.99	Dr. 67,163.45	Dr. 7,61,16,848.36
				Balance in Bank as per Day Book (Column No. 10)—				
				Balance in Office, in Government Promissory Notes etc.	10,58,355.65	23,14,705.00	6,27,600.00	40,00,660.65
				Balance in Office in Cash	15,83,27,075.31	7,795.94	1,27,983.99	15,84,72,855.24
				Collection kept in office Treasury	..	5,63,95,434.41	3,51,60,514.68	9,15,55,949.09
				Total—Office Position	15,93,95,430.96	5,87,17,935.35	3,59,16,098.67	25,40,29,464.98
				Closing Balance as at 31st March 1987 as shown at above.*	8,65,48,573.04	5,55,15,108.36	3,58,48,935.22	17,79,12,616.62

## APPENDIX No. 27.

## IMPROVEMENT SCHEMES

General Account for the year ending 31st March 1987.

Particulars	Amount	Particulars	Amount
	Rs.		Rs.
To Revenue Expenditure as per Appendix No. 35	8,98,70,406	By Revenue Receipts as per Appendix No. 31	6,85,83,250
		Balance being deficit transferred to Capital Account Balance Sheet.	2,12,87,156
Total ..	8,98,70,406	Total ..	8,98,70,406

## APPENDIX No. 28

Slum Clearance Account—(City) General Account for the year ending 31st March 1987.

Particulars	Amount	Particulars	Amount
	Rs.		Rs.
To Revenue Expenditure as per Appendix 36	1,05,58,257	By Revenue Receipts under— I—Rent and other proceeds of properties. II—Interest and Profits on Investments IV—Transfer of excess in Sinking Fund	40,78,202
		Balance being Deficit transferred to Capital Account Balance Sheet.	64,80,055
Total ..	1,05,58,257	Total ..	1,05,58,257

## APPENDIX No. 29.

Slum Clearance Account—(Western and Eastern Suburbs) General Account for the year ending 31st March 1987.

Particulars	Amount	Particulars	Amount
	Rs.		Rs.
To Revenue Expenditure as per Appendix 37	62,26,042	By Revenue Receipts under— (a) Rents and other proceeds properties. (b) Receipts from Social Welfare Centre at S. G. Barve Nagar.	9,61,443 19,769
		II—Interest and Profits on Investments III—Miscellaneous Receipts	2,97,384
		Balance being Deficit transferred to Capital Account Balance Sheet.	49,47,416
Total ..	62,26,042	Total ..	62,26,042

## APPENDIX No. 32.

Improvement Schemes Account Slum Improvement General Account for the year ending 31st March 1937.

Particulars	Amount	Particulars	Amount
	Rs.		Rs.
To Revenue Expenditure as per Appendix No. 38 ..	8,88,92,345	By Revenue Receipts as per Appendix No. 34 under	
		(i) Hutment Colony ..	2,65,00,467
		(ii) Contribution from Budget 'A' ..	6,23,91,878
		(iii) Subsidy for Meeting the deficit ..	..
Total ..	8,88,92,345	Total ...	8,88,92,345

APPENDIX No. 39.  
IMPROVEMENT SCHEMES

Capital Account Balance Sheet—as on 31st March 1987.

LIABILITIES		Amount		ASSETS		Amount	
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>Loan Outstanding—</b>				<b>Block Account—</b>			
(Vide details as shown in appendix No. 52)	..	9,50,00,000.00		Property and Assets at original cost as per Appendix No. 43	..	41,99,98,407.93	
<b>Loan—Redemption Fund</b>	..	18,55,10,489.06		<b>Less—Assets Credited by—</b>			
<b>Advance from Surplus Money</b>	..	16,94,34,567.24		(1) Transfer of Sinking Fund Accumulations in respect of Rs. 370 lakhs loan †	..	25,07,330.00	
				(2) Special grants from the Government of India	..	54,00,000.00	
				(3) Premia on loans raised in 1935-36	..	30,000.00	
				(4) Grant-in-Aid from Govt. of Bombay part expenditure of Acquisition of Land	..	5,00,000.00	
				(5) Sale proceeds of Land and Buildings.	..	9,89,02,610.09	
<b>Book value of land comprised in Schedule 'W' and 'X'</b>	..	47,58,490.00		Book value of lands comprised in Schedule 'W' & 'X' as per Appendix No. 47 (Section 97A of B.M.C. Act)	..	31,26,58,017.84	
<b>Sinking Fund on Loans</b>	..	6,22,52,111.45		<b>Investment—</b>			
<b>Special Funds—</b>				*Sinking Fund In Paper & Cash as per Appendix No. 48	..	6,22,52,111.45	
<b>Investment Reserve Fund</b>	..	3,67,78,262.64		† Investment Reserve Fund In Securities & Cash	..	3,67,78,262.64	
<b>Amenities Fund</b>	..	56,06,335.33		† Amenities Fund In Securities & Cash	..	56,06,335.33	
<b>Rent Equalisation Fund</b>	..	1,58,27,212.07		† Rent Equalisation Fund In Securities & Cash	..	1,58,27,212.07	
<b>Less—</b>				<b>Capital Fund—</b>			
<b>Revenue Deficit—</b>			57,52,17,567.79	<b>In Fixed Deposit</b>	..	..	
<b>Deficit upto 31st March 1986</b>	..	11,60,49,982.72		<b>In Cash</b>	..	..	
<b>Add Deficit during 1986-87</b>	..	2,12,87,155.74					
			13,73,37,138.46				
<b>Total</b>	..	43,78,80,429.33		<b>Total</b>	..	43,78,80,429.33	

Div—I

\*For Face, Book and Market Value of Securities held in the Sinking Funds on 31st March 1987, please see Appendix No. 55.

† 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 Corporation Transferred to Capital Accounts as the Loan is converted into a fresh Loan repayable in equated annual instalments vide C.R. No. 94 of 4th May 1936.

‡Comparison of Face, Purchase and Market Values as on 31st March 1987 of the different Securities held in the following Funds.

Particulars of Securities	Face Value	Purchase rate percent	Actual cost at purchase rate	Market rate percent	Market Value
	Rs.		Rs. P.		Rs. P.
<b>Investment Reserve Fund.</b>					
6% Rs. 400 Lakhs Budget 'A' Div.-I Loan 1972-73	13,31,500	Par	13,31,500.00	Par	13,31,500.00
6 1/2% Rs. 75 Lakhs Slum City Loan 1975-76	12,51,900	Par	12,51,900.00	Par	12,51,900.00
6 1/2% Rs. 50 Lakhs Slum Suburbs Loan 1977-78	12,92,600	Par	12,92,600.00	Par	12,92,600.00
7 1/2% Rs. 600 Lakhs Budget 'A' Div.-I Loan 1982-83	13,71,400	Par	13,71,400.00	Par	13,71,400.00
8 1/2% Rs. 400 Lakhs Bud. 'A' Division III Loan 1983-84	2,86,15,800	Par	2,86,15,800.00	Par	2,86,15,800.00
9 3/4% Rs. 2,000 Lakhs Budget 'A & Div.-III Loan 1985-86	29,15,000	Par	29,15,000.00	Par	29,15,000.00
<b>Total</b>	3,67,78,200		3,67,78,200.00		3,67,78,200.00
<b>Amenities Fund.</b>					
6% Rs. 50 Lakhs Budget 'B' Loan 1966-67	1,97,900	Par	1,97,900.00	Par	1,97,900.00
6 1/2% Rs. 75 Lakhs Slum City Loan 1975-76	1,84,400	Par	1,84,400.00	Par	1,84,400.00
6 1/2% Rs. 50 Lakhs Slum Suburbs Loan 1977-78	2,49,700	Par	2,49,700.00	Par	2,49,700.00
7% Rs. 500 Lakhs Budget 'A' & Div.-I Loan 1981-82	59,500	Par	59,500.00	Par	59,500.00
7 1/2% Rs. 600 Lakhs Budget 'A' Div.-I Loan 1982-83	2,63,200	Par	2,63,200.00	Par	2,63,200.00
8 1/2% Rs. 400 Lakhs Bud. 'A' Division III Loan 1983-84	42,13,800	Par	42,13,800.00	Par	42,13,800.00
9 3/4% Rs. 2,000 Lakhs Budget 'A' Div.-III Loan 1985-86	4,37,800	Par	4,37,800.00	Par	4,37,800.00
<b>Total</b>	56,06,300		56,06,300.00		56,06,300.00
<b>Rent Equalisation Fund</b>					
6% Rs. 250 Lakhs Budget 'A' Division I Loan 1966-67	1,31,45,200	Par	1,31,45,200.00	Par	1,31,45,200.00
6% Rs. 400 Lakhs Budget 'A' Div.-I Loan 1972-73	4,12,300	Par	4,12,300.00	Par	4,12,300.00
6 1/2% Rs. 50 Lakhs Slum Suburbs Loan 1977-78	5,72,500	Par	5,72,500.00	Par	5,72,500.00
7% Rs. 500 Lakhs Budget 'A' & Div.-I Loan 1981-82	1,78,200	Par	1,78,200.00	Par	1,78,200.00
7 1/2% Rs. 600 Lakhs Budget 'A' Div.-I Loan 1982-83	6,02,700	Par	6,02,700.00	Par	6,02,700.00
9 3/4% Rs. 2,000 Lakhs Budget 'A' & Div.-III Loan 1985-86	9,16,300	Par	9,16,300.00	Par	9,16,300.00
<b>Total</b>	1,58,27,200		1,58,27,200.00		1,58,27,200.00



## APPENDIX No. 40

## Slum Clearance City

Capital Account Balance Sheet as on 31st March 1987.

LIABILITIES	Amount	ASSETS	Amount
Loan Outstanding (Details as shown in Appendix No. 53)	Rs. P. 4,81,83,666.96	Block Account—	Rs. P.
Subsidy from Government	1,06,52,426.00	Property and Assets at original cost as per Appendix No. 44	5,76,94,370.14
Sale proceeds up to 31st March 1987	33,028.69	Investment—	
Sinking Fund on Loans	1,96,52,030.05	Sinking Fund as per Appendix No. 49	1,96,52,030.05
Loan Redemption Fund	1,44,17,249.04	Capital Fund—	
Advance from Surplus monies	4,41,64,162.65	In Fixed-Deposit Cash	
	13,71,02,563.38		
Less— Revenue Deficit— Deficit upto 31st March 1986	Rs. 5,32,76,108.60		
Add—Deficit during 1986-87	64,80,054.59		
	-5,97,56,163.19		
Total	7,73,46,400.19	Total	7,73,46,400.19

## Appendix No. 41

## Slum Clearance Suburbs and Extended Suburbs.

Capital Account Balance Sheet as on 31st March 1987.

LIABILITIES	Amount	ASSETS	Amount
Loan Outstanding (Appendix No. 53)	Rs. P. 5,20,38,830.09	Block Account—	Rs. P.
Subsidy from Government	57,82,779.00	Property and Assets at original cost as per Appendix No. 45	4,54,44,941.55
Sinking Fund on loans	2,37,98,388.75	Investment—	
Sale proceeds upto 31st March 1987	45,01,007.91	Sinking Fund as per Appendix No. 50	2,37,98,388.75
Loan Redemption Fund	16,54,146.91	Capital Fund	
Advance from Surplus Monies	3,95,38,968.45	In Fixed Deposit Cash	
	12,73,14,121.11		
Less— Revenue Deficit— Deficit upto 31st March 1986	Rs. P. 5,31,23,344.43		
Add—Deficit during 1986-87	49,47,446.38		
	-5,80,70,790.81		
Total	6,92,43,330.30	Total	6,92,43,330.30

## Appendix No. 42

## Slum Improvement

Capital Account Balance Sheet as on 31st March 1987.

LIABILITIES	Amount	ASSETS	Amount
Loan Outstanding (Appendix No. 54)	Rs. 2,66,30,000.00	Block Account—	Rs. P.
Sinking Fund on Loan	48,99,550.25	Property and Assets at original cost as per Appendix No. 46	30,93,22,154.10
Reimbursement of Capital expenditure from B. H. & A. D. Board	10,13,52,617.21	Investment—	
Receipt from the Collector of Bombay & B. S. D. for M.L.A. Works	3,81,75,100.00	Sinking Fund as per Appendix No. 51	48,99,550.25
Receipt from Government of Maha- rashtra for demolition and reconstruc- tion of A.P. W.C. Works	1,00,00,000.00	Capital Fund—	
Advance from Surplus Monies	13,97,94,436.89	In Fixed Deposits Cash	
	31,42,21,704.35		
Total	31,42,21,704.35	Total	1,42,21,704.35

Appendix No. 43  
IMPROVEMENT SCHEMES  
Block account showing details of Capital Expenditure upto 31st March 1987.

Particulars	Total Capital Expenditure upto 31st March 1986	Expenditure during 1986-87	Total Capital Expenditure upto 31st March 1987	Particulars	Total Capital Expenditure upto 31st March 1986	Expenditure during 1986-87	Total Capital Expenditure upto 31st March 1987
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
<b>CAPITAL ACCOUNT</b>				<b>Brought over</b>	<b>37,70,26,494</b>	<b>8,91,907</b>	<b>37,79,18,401</b>
<b>Improvement and Scheme.</b>				Housing Accommodation	1,21,19,982	..	1,21,19,982
Schedule W Lands	13,45,571	..	13,45,571	Acquisition of land at Mogra for shifting potter from Dharavi to Jogeshwari	5,74,316	..	5,74,316
Schedule X Lands	16,26,471	..	16,26,471	Const. of 100' wide Rd. from Edward to Jakeria Bunder Road—Acquisition of Port Trust land by B. M. C.	28,08,760	..	28,08,760
Schedule Z Lands	8	..	8	Acquisition of Land in Survey No. 129, Hissal, Squatters Nos. 130-136 of Eksar Pahed for housing of dishoused tenants as well as displaced Industries in execution of its sanctioned Schemes	94,149	..	94,149
<b>Scheme No.</b>				Acquisition of land at Borla village.	66,75,279	4,20,000	70,95,279
1 First Nagpada	29,16,099	..	29,16,099	Acquisition of land bearing C S No 1325 (Part) and 1325 Lower Parcel Division for housing dishoused persons as a result of Municipal Scheme	1,82,329	..	1,82,329
2 Princess Street	85,08,865	..	85,08,865	Acquisition of land at Poisar and Kandivali in Survey No 94 and 95 (Part) of Poisar Survey Nos 126 and 128 and 129 (Part) of Kandivali	3,51,977	..	3,51,977
3 Sandhurst Road	1,16,02,375	..	1,16,02,375	Taking over explosion victims tenements S P Sheds at Shantinagar Arthur Road etc	4,84,801	..	4,84,801
4 Gamdevi	22,88,002	..	22,88,002	Acquisition of land bearing C. S. No. 93(1/7), 94(8) 16(8), 16(9), 94(7) of Borla Village for road of Municipal Housing.	..	7,60,000	7,60,000
5 Dadar-Matunga	1,00,53,384	..	1,00,53,384		40,03,18,137	20,71,907	40,23,90,044
6 Sion-Marunga	2,06,31,826	..	2,06,31,826	<b>Police Accommodation Schemes.</b>			
7 Colaba Reclamation	4,78,538	..	4,78,538	<b>Scheme No.</b>			
8 Mandvi Koliwada	26,52,501	..	26,52,501	14 First Nagpada	84,450	..	84,450
11 Agripada	3,127	..	3,127	16 Wodehouse Road	3,22,657	..	3,22,657
13 Souther Street Extension East-wards	68,102	..	68,102	17 Duncan Road	58,981	..	58,981
27 Maahew Road	14,11,129	..	14,11,129	18 Shepherd Road	36,223	..	36,223
29 Notwroj Hill	86,57,482	..	86,57,482	19 Agripada	1,79,120	..	1,79,120
30 Souther Street Extension West-wards	1,30,512	..	1,30,512	23 Connaught Road	79,495	..	79,495
31 Parel Suparibaung Estate	91,42,350	..	91,42,350	24 Princess Street	2,65,953	..	2,65,953
32 East Agripada	50,59,050	..	50,59,050	25 Gamdevi	1,29,407	..	1,29,407
33 Bhatwadi	3,28,433	..	3,28,433	34 Lamington Road	4,61,024	..	4,61,024
36 Lamington Road	2,91,191	..	2,91,191	35 Sandhurst Road West	1,46,104	..	1,46,104
37 Sydenham Road	1,40,51,180	..	1,40,51,180	39 Sandhurst Road East	7,58,893	..	7,58,893
41 Undria Street	5,72,800	..	5,72,800	40 Bhatwadi	8,28,411	..	8,28,411
43 Parel Road Central	38,97,348	..	38,97,348	44 Maharbaudi	2,71,434	..	2,71,434
47 Parel Road North	52,96,220	..	52,96,220	45 Palton Road	5,71,492	..	5,71,492
49 Nepean Sea Road—Reclamation	3,053	..	3,053	46 Naigaum	5,69,142	..	5,69,142
50 Mazagaon Street	40,68,206	..	40,68,206	48 Mahim	4,53,032	..	4,53,032
52 Worli Street	2,81,18,471	..	2,81,18,471	55 Chinchgunder Road	4,32,656	..	4,32,656
53 Foras Road	36,82,045	..	36,82,045	55A Mazagaon	4,53,560	..	4,53,560
54 Kolbharwadi	21,79,254	..	21,79,254	63 King's Circle (Matunga)	4,82,185	..	4,82,185
55 Bellas Road	17,02,028	..	17,02,028	67 Naigaum (for Armed Police and Recruits)	24,42,031	..	24,42,031
56 Dharavi Street	1,88,35,036	..	1,88,35,036	70 Arthur Road	1,58,357	..	1,58,357
57 Sewri-Wadala	5,50,97,235	..	5,50,97,235		91,84,617	..	91,84,617
58 Worli-Extension	1,71,69,755	..	1,71,69,755	<b>Mill Company's Chawl Schemes</b>			
59 Sewri-Kaliwada	6,91,392	..	6,91,392	<b>Scheme No.</b>			
60 Naigaum Street	76,18,685	..	76,18,685	42 Spring Mills	5,18,990	..	5,18,990
61 Fergusson Road	15,68,030	..	15,68,030	51 Century Mills	1,29,980	..	1,29,980
62 Love Lane	16,18,731	..	16,18,731	65 David Mills	2,96,852	..	2,96,852
66 Mahalaxmi	4,86,705	..	4,86,705		9,45,822	..	9,45,822
69 Widening of Byculla Bridge	7,20,290	..	7,20,290	<b>Carried forward</b>	<b>41,04,49,576</b>	<b>20,71,907</b>	<b>41,25,20,483</b>
71 Chaupati Street	24,085	..	24,085				
Chaupati Reclamation	1,889	..	1,889				
East Chaupati Estate	4,380	..	4,380				
<b>Lump sum Provision for granting loans to erect buildings on Imp. Scheme lands as provided under Section 354W of the Municipal Act.</b>	<b>15,040</b>	<b>..</b>	<b>15,040</b>				
72 Tripartite Road	2,26,684	..	2,26,684				
73 Palton Road	10,37,510	..	10,37,510				
74 Sion Over bridge	92,457	..	92,457				
<b>Lump Sum Provision for Acquisition in all Schemes</b>	<b>6,136</b>	<b>..</b>	<b>6,136</b>				
<b>Lump Sum provision for Housing Accommodation for poorer classes including revision for acquisition</b>	<b>11,50,85,421</b>	<b>8,91,907</b>	<b>11,59,77,328</b>				
Housing of squatters on land near Mankhurd Railway Station	8,38,300	..	8,38,300				
Housing of squatters on lands near Jogeshwari	7,30,846	..	7,30,846				
76 Lohar Chawl Gully	4,53,671	..	4,53,671				
77 Housing Accommodation—	459	..	459				
For Fishermen at Mahim Causeway	Cr 44,351	..	Cr 44,351				
Housing of Squatters Acquisition	5,29,401	..	6,29,401				
Housing of Squatters at Vikroli	151	..	151				
Construction of Dormitories	6,92,736	..	6,92,736				
Acquisition of land at Govandi	26,60,199	..	26,60,199				
<b>Carried forward</b>	<b>37,70,26,494</b>	<b>8,91,907</b>	<b>37,79,18,401</b>				

## Appendix No. 43—(Concl.)

Particulars	Total Capital Expenditure upto 31st March 1986	Expenditure during 1986-87	Total Capital Expenditure upto 31st March 1987	Particulars	Total Capital Expenditure upto 31st March 1986	Expenditure during 1986-87	Total Capital Expenditure upto 31st March 1987
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Brought over	41,04,48,576	20,71,907	41,25,20,483	Brought over	41,09,11,887	20,71,907	41,29,83,794
Slum Clearance.				Brought over	7,56,460		7,56,460
Preliminary Expenses	22,481	...	22,481	Refund to preliminary expenses to Government ..	38,019	..	38,019
Transit Camps for providing alternative housing accommodation to facilitate Slum Clearance—				Preliminary expenses in connection with the Improvements of slum areas ..	68,816	..	68,816
(i) Construction of tenements, etc. 244	2,58,843	..	2,58,843	Provision of a lift in the Improvement Trust Building at Napier Road near Queens Status ..	12,267	..	12,267
(ii) Construction of tenements etc. 210	1,81,987	..	1,81,987		8,75,562	..	8,75,562
	4,63,311	..	4,63,311	Discount on Loans ..	14,53,359	..	14,53,359
Miscellaneous,				Expenses in connection with the Loan of Rs. 10 lakhs. ..	12,227	..	12,227
Survey of the Island of Bombay	1,06,046	..	1,06,046	Expenses in connection with the repayment of Rs. 25 Lakhs Loan ..	19,504	..	19,504
Administrative Offices, etc. Building on Esplanade Road near Queen's Statue	3,21,562	..	3,21,562	Expenses in connection with the loan raised in 1957-58. ..	62,048	..	62,048
Engineer's Office at Matunga ..	1,38,468	..	1,38,468	Repayment of Rs. 40 lakhs loan of 1919. ..	26,83,469	..	26,83,469
Central Stores at the back of Froer Plastikcher School	15,656	..	15,656	Part payment of Rs. 25 Lakhs loan of 1926. ..	19,08,494	..	19,08,494
Storeyard at Agripads, etc.	83,801	..	83,801		61,39,101	..	61,39,101
Workshop for Motor Lorries at Agripada ..	90,368	..	90,368				
Tools and Plans ..	559	..	559				
	7,56,460	..	7,56,460				
Carried forward ..	41,09,11,887	20,71,907	41,29,83,794	Grand Total ..	41,79,26,550	20,71,907	41,99,98,45

\* This figure includes Rs. 10,06,000 being the share of cost of Management and Establishment chargeable to Capital Account.

## APPENDIX No. 44

## IMPROVEMENT SCHEMES—SLUM CLEARANCE—CITY.

Block account showing details of Capital Expenditure upto 31st March 1987

PARTICULARS	Total Capital expenditure upto 31st March 1986.	Expenditure during 1986-87	Total Capital expenditure upto 31st March 1987
	Rs.	Rs.	Rs.
<b>A—Works to be carried out from Municipal Fund.</b>			
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
Construction of 4 stored Building by replacing existing patra shed situated opposite Chawl No. 49-B at Garamkhada Market, Lalbaug.	83,446	2,54,059	3,37,605
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 their charges on the loan of Rs. 20 lakhs raised in 1957-58	45,160	...	45,160
Discount and their charges 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)	38,88,775	..	38,88,775
Construction of bldg. at Bhat Chawl compound at Worli.	8,80,084	1,960	8,82,044
<b>Total A—Works to be carried out from Municipal Fund</b>	<b>80,32,420</b>	<b>2,56,019</b>	<b>82,88,439</b>
<b>B.—Works to be carried out with the Government Aid—</b>			
Acquisition of land within, adjoining or surrounded by Clearance Areas for—rehousing or other development works.	54,73,593	...	54,73,593
Permanent Housing for Slum Population.	4,26,34,999	12,97,340	4,39,32,339
<b>Total B—Works to be carried out with the Government Aid</b>	<b>4,81,08,592</b>	<b>12,97,340</b>	<b>4,94,05,932</b>
<b>Grand Total</b>	<b>5,61,41,012</b>	<b>15,53,359</b>	<b>5,76,94,371</b>

\* Previous expenditure amounting to Rs. 4,63,311 upto 31st March 1966 is shown in Appendix No. 43.

## APPENDIX No. 45.

## IMPROVEMENT SCHEMES—SLUM CLEARANCE—SUBURBS.

Block account showing details of Capital Expenditure upto 31st March 1987.

PARTICULARS	Total Capital Expenditure upto 31st March 1986	Expenditure during 1986-87	Total Capital Expenditure upto 31st March 1987.
	Rs.	Rs.	Rs.
<b>Slum Clearance—Suburbs*</b>			
<b>A.—Works to be carried out from Municipal Fund.</b>			
Miscellaneous expenses including Preliminary Expenses (Staff and Contingencies).	1,76,24,422	...	1,76,24,422
<b>Total A.—Works to be carried out from Municipal Fund</b>	<b>1,76,24,422</b>	<b>...</b>	<b>1,76,24,422</b>
<b>B.—Works to be carried out with the Government Aid</b>			
(d) Chawls and S. P. Chawls.	2,78,20,519	..	2,78,20,519
<b>Total B.—Works to be carried out with the Government Aid.</b>	<b>2,78,20,519</b>	<b>..</b>	<b>2,78,20,519</b>
<b>Grand Total</b>	<b>4,54,44,941</b>	<b>..</b>	<b>4,54,44,941</b>

## APPENDIX No. 46

## IMPROVEMENT SCHEME ACCOUNT SLUM IMPROVEMENT

Block Account showing details of Capital Expenditure upto 31-3-1987.

Particulars	Total Capital Expenditure up to 31-3-1986	Expenditure during 1986-87	Total Capital Expenditure upto 31-3-87
	Rs	Rs	Rs
(1) Providing Civic Amenities .. .. .	12,77,85,793	2,11,29,550	14,89,15,343
(2) Providing Additional amenities .. .. .	9,97,21,165	33,34,376	10,30,55,541
(3) Civic amenities such as A.P./Block .. .. .	26,76,260	31,871	27,08,131
(4) Developing the sites and providing amenities to the hutment dwellers commencing in the way of Construction of Fly-over Bridge at Goregao, ..	2,61,760	3,55,554	6,17,314
(5) Demolition and Reconstruction of A.P./W. C. Blocks .. .. .	1,36,35,495	24,74,323	1,61,09,818
(6) Works of providing amenities in different Slums suggested by M.L. As. in Greater Bombay from the allotment of Rs. 10 lakhs per M. L. A. Constituency .. .. .	2,13,08,509	1,66,07,498	3,79,16,007
Total ..	26,53,88,982	4,39,33,172	30,93,22,154
* Programmewise breakup is as shown for C.A. (F. S. I.) below. ....			
Out of Programme for 1984-85 .. .. .	2,12,11,863	23,07,496	2,35,19,359
Out of Programme for 1985-86 .. .. .	96,646	1,42,63,435	1,43,60,081
Out of Programme for 1986-87 .. .. .	..	36,567	36,567
	2,13,08,509	1,66,07,498	3,79,16,007

## APPENDIX No. 52—(Consolidated)

Statement showing outstanding balances of Loans on 31st March 1987, pertaining to Budget 'B'.

Serial No.	Particulars of Loans	Rate of Interest per annum.	Outstanding Loan Balance on 31st March 1987.	Serial No.	Particulars of Loans	Rate of Interest per annum.	Outstanding Loan Balance on 31st March 1987
1	2	3	4	1	2	3	4
			Ra.				Ra.
	Improvement Scheme—			37	Programme No. 10		
	Loans Raised from Public—			38	Ra. 1,61,343 Loan, 1965-67	5 1/2%	1,19,433.47
				39	Ra. 2,108 Loan, 1967-68	5 1/2%	1,554.46
				40	Ra. 1,146 Loan, 1967-68	5 1/2%	846.74
					Ra. 58,984 Loan, 1968-69	5 1/2%	43,460.42
					Total Prog. 10		1,65,295.09
				41	Programme No. 11		
				42	Ra. 69,426 Loan, 1968-69	5 1/2%	51,160.10
				43	Ra. 75,936 Loan, 1969-70	5 1/2%	55,947.99
					Ra. 13,725 Loan, 1970-71	6 1/2%	10,392.98
					Total—Prog. 11		1,17,501.07
					Total—Govt. Loans		51,47,666.96
					Loans raised from the Public—		
1	Ra. 100 Lakhs Loan 1962-63	4 1/2%	1,00,00,000.00	44	Ra. 30 Lakhs Loan, 1964-65	4 1/2%	30,00,000.00
2	Ra. 50 Lakhs Loan, 1963-64	4 1/2%	50,00,000.00	45	Ra. 50 Lakhs Loan, 1966-67	6%	50,00,000.00
3	Ra. 100 Lakhs Loan, 1965-66	6%	1,00,00,000.00	46	Ra. 25 Lakhs Loan, 1971-72	6%	25,00,000.00
4	Ra. 50 Lakhs Loan, 1966-67	6%	50,00,000.00	47	Ra. 50 Lakhs Loan, 1972-73	6%	50,00,000.00
5	Ra. 50 Lakhs Loan, 1967-68	6%	50,00,000.00	48	Ra. 50 Lakhs Loan, 1973-74	6%	50,00,000.00
6	Ra. 75 Lakhs Loan, 1968-69	6%	75,00,000.00	49	Ra. 75 Lakhs Loan, 1975-76	6 1/2%	75,00,000.00
7	Ra. 250 Lakhs Loan 1976-77	6 1/2%	2,50,00,000.00	50	Ra. 100 Lakhs Loan, 1976-77	6 1/2%	1,00,00,000.00
8	Ra. 275 Lakhs Loan 1977-78	6 1/2%	2,75,00,000.00	51	Ra. 50 Lakhs Loan 1977-78	6 1/2%	50,00,000.00
	Total—Public Loans		9,50,00,000.00		Total—Public Loans		4,30,00,000.00
	Total—Improvement Scheme		9,50,00,000.00		Total—Slum Clearance (City)		4,81,47,666.96
	Slum Clearance—City—				Loans raised from the Govt.—		
	Loans raised from the Govt.				Programme No. 2		
	Programme No. 1			52	Ra. 307,000 Loan, 1959-60	4 1/2%	2,20,651.31
9	Ra. 9,50,997 Loan, 1957-58	4 1/2%	5,65,315.73	53	Ra. 5,84,000 Loan, 1960-61	4 1/2%	4,19,728.15
10	Ra. 6,12,000 Loan, 1958-59	4 1/2%	3,63,800.61	54	Ra. 3,54,375 Loan, 1962-63	5 1/2%	2,62,421.43
11	Ra. 2,73,000 Loan, 1959-60	4 1/2%	1,62,285.48	55	Ra. 1,67,625 Loan, 1963-64	5 1/2%	1,24,131.28
12	Ra. 1,85,000 Loan, 1960-61	4 1/2%	1,09,972.50	56	Ra. 2,43,364 Loan, 1964-65	5 1/2%	1,80,222.64
13	Ra. 5,04,000 Loan 1961-62	4 1/2%	2,78,200.39	57	Ra. 11,593 Loan, 1966-67	5 1/2%	8,550.51
14	Ra. 2,64,329 Loan, 1962-63	5 1/2%	1,63,805.33		Total—Prog. 2		12,15,705.32
15	Ra. 2,50,971 Loan, 1963-64	5 1/2%	1,55,409.77		Programme No. 3		
16	Ra. 47,250 Loan, 1964-65	5 1/2%	29,258.91	58	Ra. 1,62,000 Loan, 1960-61	4 1/2%	65,597.24
17	Ra. 2,20,355 Loan, 1964-65	5 1/2%	1,36,451.35	59	Ra. 9,72,000 Loan, 1961-62	4 1/2%	3,93,533.54
18	Ra. 50,504 Loan, 1965-66	5 1/2%	30,763.66	60	Ra. 1,00,182 Loan, 1962-63	5 1/2%	42,894.11
19	Ra. 73 Loan, 1965-66	5 1/2%	44.55	61	Ra. 7,818 Loan, 1963-64	5 1/2%	3,348.45
20	Ra. 568 Loan 1968-69	5 1/2%	346.15		Total—Prog. 3		5,05,435.34
	Total—Prog. 1		19,95,654.43		Programme No. 4		
	Programme No. 2			62	Ra. 4,65,300 Loan 1963-64	5 1/2%	3,44,578.96
21	Ra. 94,500 Loan, 1961-62	4 1/2%	67,910.69	63	Ra. 1,08,900 Loan 1964-65	5 1/2%	80,648.83
	Total—Prog. 2		67,910.69	64	Ra. 4,75,911 Loan 1964-65	5 1/2%	3,52,479.78
	Programme No. 3			65	Ra. 1,31,267 Loan 1965-66	5 1/2%	96,720.82
22	Ra. 9,00,000 Loan 1960-61	4 1/2%	3,64,452.59	66	Ra. 1,53,917 Loan 1965-66	5 1/2%	1,13,413.09
23	Ra. 62,037 Loan 1962-63	5 1/2%	26,562.06	67	Ra. 1,07,739 Loan 1965-66	5 1/2%	79,383.15
24	Ra. 9,963 Loan 1963-64	5 1/2%	4,276.29	68	Ra. 1,06,343 Loan 1965-66	5 1/2%	78,353.76
	Total—Prog. 3		3,95,280.94	69	Ra. 1,28,865 Loan 1966-67	5 1/2%	94,950.57
	Programme No. 4			70	Ra. 66,705 Loan 1967-68	5 1/2%	49,155.25
25	Ra. 3,69,600 Loan, 1963-64	5 1/2%	2,73,710.63	71	Ra. 12,159 Loan, 1967-68	5 1/2%	8,965.59
26	Ra. 1,84,800 Loan, 1964-65	5 1/2%	1,36,855.33	72	Ra. 22,388 Loan 1968-69	5 1/2%	16,503.34
	Total—Prog. 4		4,10,565.96	73	Ra. 3,519 Loan 1968-69	5 1/2%	2,596.28
	Programme No. 6				Total Prog. 4		13,17,639.43
27	Ra. 1,53,900 Loan, 1966-67	5 1/2%	93,764.43		Total Govt. Loan		30,38,830.09
28	Ra. 10,190 Loan, 1967-68	5 1/2%	6,207.09		Loans raised from the Public—		
29	Ra. 6,910 Loan, 1967-68	5 1/2%	4,208.97	74	Ra. 50 Lakhs Loan 1962-63	4 1/2%	50,00,000.00
30	Ra. 57,000 Loan, 1968-69	5 1/2%	34,720.77	75	Ra. 50 Lakhs Loan 1966-67	6%	50,00,000.00
	Total—Prog. 6		1,38,901.26	76	Ra. 50 Lakhs Loan 1967-68	6%	50,00,000.00
	Programme No. 9			77	Ra. 25 Lakhs Loan 1968-69	6%	25,00,000.00
31	Ra. 6,10,818 Loan, 1966-67	5 1/2%	4,59,068.12	78	Ra. 40 Lakhs Loan 1973-74	6%	40,00,000.00
32	Ra. 5,73,638 Loan, 1967-68	5 1/2%	4,22,918.45	79	Ra. 100 Lakhs Loan 1975-76	6 1/2%	1,00,00,000.00
33	Ra. 7,28,110 Loan, 1968-69	5 1/2%	5,36,432.69	80	Ra. 125 Lakhs Loan 1976-77	6 1/2%	1,25,00,000.00
34	Ra. 1,00,518 Loan, 1968-69	5 1/2%	74,072.20	81	Ra. 50 Lakhs Loan 1977-78	6 1/2%	50,00,000.00
35	Ra. 1,04,516 Loan, 1969-70	5 1/2%	77,008.92		Total—Public Loans		4,90,00,000.00
36	Ra. 3,91,298 Loan, 1970-71	6 1/2%	2,96,107.14		Total—Slum Clearance (Suba. & Ext. Subs.)		5,20,38,830.09
	Total—Prog. 9		18,56,557.52		Slum Improvement—		
					Loans raised from Public :-		
				82	Ra. 200 Lakhs Loan 1976-77	6 1/2%	2,00,00,000.00
					Total—Slum Improvement		2,00,00,000.00
					Grand Total—Budget 'B'		21,51,86,497.05

**APPENDIX No. 59**  
**EDUCATION FUND**

*Revenue Account for the year ended 31st March 1987.*

Particulars			Particulars	Total	
	Rs.	P.		Rs.	P.
To Revenue Expenditure	64,62,32,581.00		By Revenue Receipts	66,05,59,625.04	
To Revenue Surplus during the year 1986-87	1,43,27,044.04		By Revenue Deficit during the year 1986-87.	..	
<b>Total</b>	<b>66,05,59,625.04</b>		<b>Total</b>	<b>66,05,59,625.04</b>	
To Revenue Expenditure to be incurred in 1987-88 and provided for as Renewed Grants...	3,71,33,000.00		By Surplus Revenue Fund as at 1st April 1986	93,48,381.97	
To Revenue deficit during the year 1986-87	..		By Revenue Surplus during the year 1986-87.	1,43,27,044.04	
To Balance being Surplus Revenue Fund as at 31st March 1987	1,26,05,426.01		By Revenue Expenditure grant of previous years reserved for the year 1986-87.	2,69,63,000.00	
<b>Total</b>	<b>4,97,38,426.01</b>		<b>Total</b>	<b>4,97,38,426.01</b>	

A/c 8863 Edu.

## APPENDIX No. 62

## EDUCATION FUND

Revised Account Balance Sheet as at 31st March 1987.

Liabilities.		Assets		
	Rs.	P.	Rs.	P.
Due on Cheques Payable ...	25,11,471.82		Cash at Bank Rs. —99,22,413.36	
			Cash in Office Rs. 2,61,27,307.36	3,60,49,720.72
Due on Outstanding Charges on account of interest Accrued but Not Paid (Appendix—69) ...	45,06,486.12		Education Loan Interest Warrants Payable Account.	850.25
Unclaimed Dues & Deposits (Refundable) Account (Appendix—67-A) ...	3,62,464.71		Advances—Appendix No. 67	1,25,84,774.80
Deposits in Cash and Public Securities from Contractors and Private Parties (Appendix—68) ...	4,48,23,137.50		Deposits—	
			In Securities ... Rs. 25,000.00	
			In Office ...	25,000.00
Interest on Loans Payable A/c. (Appendix No. 65) ...			Amount held in Budget 'A' Div.—I ...	4,61,23,943.24
			Advance from Surplus monies for Capital Works	...
Endowment Fund (Appendix—72) ...	12,64,292.19		Investments—	
			Endowment Fund—	
			(Appendix—72)	
			In securities Rs. 4,76,750.00	
			In Fixed Deposit Rs. 7,87,300.00	
			In cash Rs. 242.19	12,64,292.19
Due on Outstanding Cheques for 1986-87 and previous year ...	3,71,33,000.00		Surplus Fund—	
			In Securities* Rs. 71,57,500.00	
Surplus Revenue Fund (Vide Appendix No. 59) ...	1,26,05,426.01		In Call Deposit ...	
			In Cash at Bank Rs. 197.15	71,57,697.15
<b>Total</b> ...	<b>10,32,06,278.35</b>		<b>Total</b> ...	<b>10,32,06,278.35</b>

\* Details of Securities held in Surplus Fund

	Face Value	Book Value
	Rs.	Rs.
7% Rs. 100 Lakhs B.M.D. Budget E Loan 1981-82	1,79,670.00	1,79,600.00
6 1/2% Rs. 50 Lakhs B.M.D. Budget E Loan 1976-77	50,00,000.00	50,00,000.00
6% Rs. 200 Lakhs B.M.D. Budget A Div. I Loan 1965-66	19,77,900.00	19,77,900.00
	<u>71,57,500.00</u>	<u>71,57,500.00</u>



## APPENDIX No. 63

## EDUCATION FUND

Capital Fund Balance Sheet as at 31st March 1987.

Liabilities			Assets		
	Rs.	P.		Rs.	P.
<b>Loans Outstanding—</b>			<b>Block Account—Appendix 64</b>		
Due to Public ...	34,15,50,000.00		<b>Loan Funds</b> ...	45,63,61,818.06	
Trust Fund ...		694.31	<b>Trust Fund</b> ...	2,08,755.42	
<b>Surplus—</b>			<b>Investment—</b>		
Sinking Fund ...	7,56,05,454.55		<b>Sinking Fund—Appendix 68</b>		
Contribution from Trust Fund ...	2,08,755.42		and 71		
Contribution from Government ...	10,00,000.00		In Securities Rs. 7,56,05,400.00		
Central Govt Assistance for Flood damage	1,28,500.00		In cash at Bank Rs. 54.55		7,56,05,454.55
Advance from Surplus Monies for meeting Capital Expenditure pending raising of Loans ...			<b>Trust Fund</b>		
<b>Loan Redemption Fund</b>			In Cash ...	694.31	
Rs. 12,19,50,000.00			<b>Loan Fund</b>		
<b>Less—</b>			In Securities Rs. 80,22,100.00*		
Assets written off Rs. 2,44,495.14	17,05,504.86		In cash at Bank Rs. 86.80		80,22,186.80
<b>Grand Total ...</b>	<b>54,01,98,909.14</b>		<b>Grand Total...</b>	<b>54,01,98,909.14</b>	

\* 6% Rs. 200 Lakhs B.M.D. Budget A Div. I Loan 1965-66.

## APPENDIX No. 64

Statement showing Capital Works Expenditure upto 31st March 1987.

## Education Fund.

Capital Account	Total Capital Works Expenditure upto 31st March 1986.	Capital Works Expenditure during 1986-87.	Total Capital Works Expenditure upto 31st March, 1987.
	Rs.	Rs.	Rs.
<b>Loan Funds.</b>			
City Section ...	14,60,06,859.23	1,42,35,904.76	16,02,42,763.99
Western Suburban Section ...	20,44,77,250.57*	79,92,996.09	21,24,70,246.66
Eastern Suburban Section ...	8,19,93,311.22	16,55,496.19	8,36,48,807.41
<b>Total-Loan Fund</b> ...	<b>43,24,77,421.02</b>	<b>2,38,84,397.04</b>	<b>45,63,61,818.06</b>
<b>Trust Fund</b> ...	<b>2,08,755.42</b>		<b>2,08,755.42</b>
<b>Grand Total</b> ...	<b>43,26,86,176.44</b>	<b>2,38,84,397.04</b>	<b>45,65,70,573.43</b>

Div.—I

\* This includes the Eastern Sub. Capital Expenditure in respect of Works Completed upto 31-3-1982.  
e 5325 Edu.

APPENDIX  
EDUCATION

*Statement showing outstanding Loans due by the Municipal Corporation the Interest out standing on 1st April 1986 and Office during that year and the balance outstanding on 31st March 1987.*

Particulars of Loans.	Rate of Interest percent. p.a.	Balance due on 1-4-1986	Amount raised in 1986-87	Total	Amount repaid in 1986-87
(1)	(2)	(3)	(4)	(5)	(6)
		Rs.	Rs.	Rs.	Rs.
<b>Loans from Public</b>					
(1) Rs. 55 Lakhs Loan (1976-77) ..	6½	55,00,000	..	55,00,000	55,00,000
(2) Rs. 220 Lakhs Loan (1977-78) ..	6½	2,20,00,000	..	2,20,00,000	..
(3) Rs. 253 Lakhs Loan (1978-79) ..	6½	2,53,00,000	..	2,53,00,000	..
(4) Rs. 275 Lakhs Loan (1979-80) ..	6½	2,75,00,000	..	2,75,00,000	..
(5) Rs. 55 Lakhs Loan (1980-81) ..	7	55,00,000	..	55,00,000	..
(6) Rs. 110 Lakhs Loan (1981-82) ..	7½	1,10,00,000	..	1,10,00,000	..
(7) Rs. 220 Lakhs Loan (1982-83) ..	7½	2,20,00,000	..	2,20,00,000	..
(8) Rs. 302.5 Lakhs Loan 1983-84 ..	8½	3,02,50,000	..	3,02,50,000	..
(9) Rs. 192.50 Lakhs Loan (1984-85) ..	9	1,92,50,000	..	1,92,50,000	..
(10) Rs. 110 Lakhs Loan (1985-86) ..	9½	1,10,00,000	..	1,10,00,000	..
(11) Rs. 220 Lakhs Loan (1986-87) ..	11	..	2,20,00,000	2,20,00,000	..
<b>Total Loans from Public</b>		17,93,00,000	2,20,00,000	20,13,00,000	55,00,000
<b>Loans from Internal Funds</b>					
(12) Rs. 10 Lakhs Loan (1961-62) ..	4½	10,00,000	..	10,00,000	10,00,000
(13) Rs. 25 Lakhs Loan (1962-63) ..	4½	25,00,000	..	25,00,000	..
(14) Rs. 12.5 Lakhs Loan (1963-64) ..	4½	12,50,000	..	12,50,000	..
(15) Rs. 25 Lakhs Loan (1966-67) ..	6	25,00,000	..	25,00,000	..
(16) Rs. 25 Lakhs Loan (1967-68) ..	6	25,00,000	..	25,00,000	..
(17) Rs. 20 Lakhs Loan (1968-69) ..	6	20,00,000	..	20,00,000	..
(18) Rs. 20 Lakhs Loan (1971-72) ..	6	20,00,000	..	20,00,000	..
(19) Rs. 100 Lakhs Loan (1972-73) ..	6	1,00,00,000	..	1,00,00,000	..
(20) Rs. 50 Lakhs Loan (1974-75) ..	6½	50,00,000	..	50,00,000	..
(21) Rs. 50 Lakhs Loan (1975-76) ..	6½	50,00,000	..	50,00,000	..
(22) Rs. 150 Lakhs Loan (1976-77) ..	6½	1,50,00,000	..	1,50,00,000	..
(23) Rs. 50 Lakhs Loan (1976-77) ..	6½	50,00,000	..	50,00,000	..
(24) Rs. 30 Lakhs Loan (1977-78) ..	7½	30,00,000	..	30,00,000	..
(25) Rs. 100 Lakhs Loan (1978-79) ..	6½	1,00,00,000	..	1,00,00,000	..
(26) Rs. 100 Lakhs Loan (1981-82) ..	7	1,00,00,000	..	1,00,00,000	..
(27) Rs. 500 Lakhs Loan (1985-86) ..	9½	5,00,00,000	..	5,00,00,000	..
(28) Rs. 200 Lakhs Loan (1986-87) ..	11	..	2,00,00,000	2,00,00,000	..
<b>Total Loans from Internal Funds</b>		12,67,50,000	2,00,00,000	14,67,50,000	10,00,000
<b>Grand Total :</b>		30,60,50,000	4,20,00,000	34,80,50,000	65,00,000

NO. 65

FUND

on the different Loans, the amount Payable for the year 1986-87, the amount paid by the State Bank of India.

Balance due on 31st March 1987	Interest outstanding on 1-4-1986	Interest payable in 1986-87	Total Interest due	Deduct Interest paid by the State Bank of India and in Office.	Interest Outstanding as on 31st March 1987
(7)	(8)	(9)	(10)	(11)	(12)
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
..	..	3,43,750.00	3,43,750.00	3,43,750.00	..
2,20,00,000	3,12,50	13,75,000.00	13,75,312.50	13,75,312.50	..
2,53,00,000	2,437.50	16,44,500.00	16,46,937.50	16,46,937.50	..
2,75,00,000	..	18,56,250.00	18,56,250.00	18,56,250.00	..
55,00,000	..	3,85,000.00	3,85,000.00	3,85,000.00	..
1,10,00,000	..	7,97,500.00	7,97,500.00	7,97,500.00	..
2,20,00,000	..	16,50,000.00	16,50,000.00	16,50,000.00	..
3,02,50,000	..	26,46,875.00	26,46,875.00	26,46,875.00	..
1,92,50,000	..	17,32,500.00	17,32,500.00	17,32,500.00	..
1,10,00,000	..	10,72,500.00	10,72,500.00	10,72,500.00	..
2,20,00,000	..	..	..	..	..
19,58,00,000	2,750.00	1,35,03,875.00	1,35,06,625.00	1,35,06,625.00	..
..	..	42,500.00	42,500.00	42,500.00	..
25,00,000	..	1,12,500.00	1,12,500.00	1,12,500.00	..
12,50,000	..	59,375.00	59,375.00	59,375.00	..
25,00,000	..	1,50,000.00	1,50,000.00	1,50,000.00	..
25,00,000	..	1,50,000.00	1,50,000.00	1,50,000.00	..
20,00,000	..	1,20,000.00	1,20,000.00	1,20,000.00	..
20,00,000	..	1,20,000.00	1,20,000.00	1,20,000.00	..
1,00,00,000	..	6,00,000.00	6,00,000.00	6,00,000.00	..
50,00,000	..	3,12,500.00	3,12,500.00	3,12,500.00	..
50,00,000	..	3,12,500.00	3,12,500.00	3,12,500.00	..
1,50,00,000	..	9,37,500.00	9,37,500.00	9,37,500.00	..
50,00,000	..	3,12,500.00	3,12,500.00	3,12,500.00	..
30,00,000	..	2,25,000.00	2,25,000.00	2,25,000.00	..
1,00,00,000	..	6,50,000.00	6,50,000.00	6,50,000.00	..
1,00,00,000	..	7,00,000.00	7,00,000.00	7,00,000.00	..
5,00,00,000	..	48,75,000.00	48,75,000.00	48,75,000.00	..
2,00,00,000	..	..	..	..	..
14,57,50,000	..	96,79,375.00	96,79,375.00	96,79,375.00	..
34,15,50,000	2,750.00	2,31,83,250.00	2,31,86,000.00	2,31,86,000.00	..

## APPENDIX No.—73

## EDUCATION FUND

Statement showing the amounts of Receipts and Expenditure respectively credited and debited to the Education Fund during the year 1986-87 and the balance at the credit of the Fund at the close of the year 1986-87 (i.e., 31st March 1987).

	Rs.	P.
<b>RECEIPTS—A.—REVENUE ACCOUNT</b>		
(1A) Education Cess ..	8,78,88,503	84
(2) Contribution towards Primary Education from Municipal Corporation under Section 126C(c) of the Bombay Municipal Corporation Act—		
(i) From Budget 'A' Div. I ..	3,57,80,160	00
(ii) From Budget 'A' Div. II ..	3,86,50,480	00
(iii) From Budget 'A' Div. III ..	1,35,89,110	00
(2A) Special Contribution from—		
(i) From Budget 'A' Division I ..	40,85,00,000	80
(3) Contribution from Government under Clause 2(e) of Schedule BBA of the Bombay Municipal Corporation Act ..	6,99,76,342	00
(4) Interest on Endowment and Investments ..	14,957	65
(5) Rent and other proceeds of properties ..	36,02,953	69
(6) Interest and Profits on Investments of Surplus, Loan and other balances ..	6,98,420	39
(7) Miscellaneous Receipts ..	18,58,697	47
<b>Total—Revenue Receipts ..</b>	<b>66,05,59,625</b>	<b>04</b>
<b>RECEIPTS—B.—CAPITAL ACCOUNT</b>		
(1) New Loans ..	4,20,00,000	00
(2) Trust Fund ..	...	
(3) Advance from Surplus Monies for meeting Capital work Expenditure pending raising of New Loans ..	Cr.1,00,93,416	16
(4) Central Govt. assistance for flood damage ..	...	
<b>Total—Capital Receipts ..</b>	<b>3,19,06,583</b>	<b>84</b>
<b>RECEIPTS—C.—SUSPENSE ACCOUNT</b>		
Advances to Municipal Officers—		
(a) Standing Advances for Contingent Expenditure ..	34,531	55
(b) Motor Car and Motor Cycles to Officers ..	19,615	00
(c) Dishonoured Cheque ..	4,688	00
(d) Loan scholarships to Municipal Teachers Under Training ..	1,139	31
Advances for meeting the cost of repairs to private buildings housing municipal schools under Section 489/499 recoverable from the landlords. ..	...	
Sundries—Miscellaneous Advances ..	84,07,708	64
<b>Total—Advances ..</b>	<b>84,67,682</b>	<b>50</b>
Paper and Cash Account—State Bank of India and other Local Banks including Paper Deposits in Office Custody—		
(1) Sinking Fund (Paper and Cash) Account ..	64,25,066	59
(2) Endowment Fund (Paper and Cash) Account ..	1,20,577	85
(3) Loan Fund (Paper and Cash) Account ..	...	
(4) Surplus Fund (Paper and Cash) Account ..	2,53,54,216	67
(5) Sundry Deposits Account ..	...	
<b>Total—Paper and Cash ..</b>	<b>3,18,99,861</b>	<b>11</b>
Deposit Account ..	1,57,46,919	51
Provident Fund ..	5,19,48,841	86
Pension Fund ..	47,69,946	84
Gratuity Fund ..	4,06,530	46
Cheques Payable ..	57,06,67,307	11
Endowment Fund Account ..	74,953	15
Sinking Fund Account—Education ..	1,73,55,670	71
Amount Transferred from Municipal General fund Budget A to Education Fund A/c... ..	67,69,34,611	86
Education Loan Interest Warrants Payable Account ..	1,35,46,361	24
Interest Accrued but not paid ..	3,47,208	34
Investment of Surplus Monies in Public Securities ..	...	
Loan Redemption Fund Account ..	65,00,000	00
Unclaimed Dues and Deposits (Refundable) Account ..	66,176	26
Advances from surplus monies for financing Capital Work Expenditure pending raising of New Loans ..	1,00,93,416	16
Interest on Loans Payable Account ..	...	
<b>Total—Deposit etc. ..</b>	<b>1,36,84,59,923</b>	<b>80</b>
<b>Total—Suspense Receipts ..</b>	<b>1,40,88,27,467</b>	<b>41</b>

## APPENDIX No. 70—(Contd.)

EXPENDITURE—A. REVENUE ACCOUNT		Rs.	P.
A.—General Supervision and Administration	..	1,59,66,872	52
B.—Municipal Primary Schools	..	50,91,98,821	61
C.—Private Primary Schools	..	2,28,77,044	32
D.—Medical Inspection of School Children	..	65,48,538	01
E.—Enforcement of Compulsion	..	...	
F.—Educational Activities	..	39,81,484	73
G.—Pension and Provident Fund	..	4,63,20,803	09
I.—New Works	..	1,13,432	04
J.—Debt Charges	..	3,71,12,204	67
K.—Training Facilities for Municipal Teachers	..	1,36,321	98
L.—Proportionate Cost of Collection of Education Cess	..	14,35,625	10
M.—Extra-Curricular Activities	..	6,09,765	33
O.—Proportionate Cost of C.E.'s Central Planning Staff	..	7,30,995	67
P.—Lumpsum provision for payment of arrears on account of Revision of grades	..	...	93
T.—Lumpsum provision for Deposit Linked Insurance Scheme	..	6,00,566	...
Total—Revenue Expenditure		64,62,32,581	00
EXPENDITURE—B.—CAPITAL ACCOUNT			
(1) Loan Funds—	..	2,38,84,397	04
(2) Trust Fund	..	...	
Total—Capital Expenditure		2,38,84,397	04
EXPENDITURE—C.—SUSPENSE ACCOUNT			
Advances to Municipal Officers—			
(a) Standing Advances for Contingent expenditure	..	24,948	00
(b) Motor Cars and Motor Cycles to Officers	..	32,000	00
Dishonoured Cheques	..	4,688	00
Loan Scholarship to Municipal Teachers under Training	..	...	
Advance for meeting the cost of repairs to private buildings housing Municipal Schools under Section 489/499 recoverable from the landlords.	..	...	
Sundries—Miscellaneous Advances	..	1,16,63,241	53
Total—Advances		1,17,24,877	53
Paper and Cash Account—State Bank of India and other Local Banks including paper Deposits in Office Custody—			
Sinking Fund (Paper and Cash) Account	..	1,72,01,591	27
Endowment Fund (Paper and Cash) Account	..	122,431	00
Loan Fund (Paper and Cash) Account	..	80,22,186	80
Surplus Fund (Paper and Cash) Account	..	2,04,24,950	61
Sundry Deposits Account	..	73,100	00
Total—Paper and Cash		4,58,44,259	68
Deposit Account	..	1,54,89,563	98
Provident Fund	..	5,19,41,841	86
Pension Fund	..	47,69,945	84
Gratuity Fund	..	4,05,530	45
Cheques Payable	..	57,30,0,870	04
Wages Deposit Account	..	...	
Amount transferred from Education Fund A/c to Municipal General Fund Budget A	..	67,55,17,719	88
Endowment Fund Account	..	...	
Sinking Fund Account Education	..	65,71,146	03
Education Loan Interest Warrants—Payable Account	..	1,35,43,923	74
Interest Accrued but not paid	..	1,10,2,8	33
Interest Receivable Account	..	...	
Investment of Surplus Monies in Public Securities	..	...	
Advances from Surplus Monies for financing Capital Works Expenditure pending raising of New Loans	..	65,00,000	00
Repayment of Loan Account	..	4,45,892	50
Unclaimed Dues and Deposits (Refundable) Account	..	2,750	04
Interest on Loans Payable A/c	..	...	
Total—Deposits etc.		1,35,23,15,393	66
Total—Suspense Expenditure		1,40,98,84,530	87

## APPENDIX No. 70—(Contd.)

## SUMMARY

Receipts		Account	Disbursements.	
Rs.	P.		Rs.	P.
1,47,58,247.65		Opening Balance on 1st April 1986—		
66,05,59,625.04		A.—Revenue Account ..	64,62,32,581.00	
3,19,06,583.84		B.—Capital Account ..	2,38,84,397.04	
1,40,88,27,467.41		C.—Suspense Account ..	1,40,98,84,530.87	
2,10,12,93,676.29		Closing Balance on 31st March 1987. ..	2,08,00,01,508.91	
			3,60,50,415.03	
2,11,60,51,923.94		Total ..	2,11,60,51,923.94	
£ Banks Reconciliation—			Rs.	P.
Balance as per Bank's Pass Book ..			86,654.21	
Add— Revenue sent to the Bank on 31st March 1987 but acknowledged on 1st April 1987. ..			1,24,27,386.00	
Total ..			1,25,14,040.21	
Less : Uncashed cheques. ..			25,90,932.54	
Balance as per Day Book (Col. No. 10) ..			—	99,23,107.67
			Rs.	P.
Balance in Office in Government Promissory Notes etc.				
Balance in Office in Cash ..			1,001.16	
Collection kept in office ..			2,61,26,306.20	2,61,27,307.36
Closing Balance as shown at above. ..				3,60,50,415.03

# REVENUE & ELECTION

## ASSESSMENT & COLLECTION DEPARTMENT (INCLUDING OCTROI BRANCH)

### High Lights —

#### I — Money spent on

(Rs. in lacs)

	City	Western Subs.	Eastern Subs.	Octroi	Total
(i) Establishment	222.77	100.32	84.31	223.75	631.15
(ii) Other Expenditure	24.52	13.19	4.16	8.09	49.96
(iii) Commission to collecting agencies	—	—	—	214.58	214.58

#### II—Results achieved—

Due to continuous collection drive, the recovery of Municipal Property taxes, together with wheel tax and Octroi was in excess to the tune of Rs. 33.59 Crores as compared with last year the details whereof are as under :—

(Rs. in Crores)

Property Taxes (including Wheel Tax)			Octroi			Total Excess
Collection made in 1985-86	Collection made in 1986-87.	Excess	Collection made in 1985-86.	Collection made in 1986-87	Excess	
149.30	163.53	14.23	211.41	230.77	19.36	83.59

The Property taxes & Octroi are the main stay of revenue of the Municipal Corporation and therefore this department has to achieve the target of collection by strenuous efforts throughout the year so that the Corporation can render civic services efficiently.

There was a marked improvement in the total tax collection including Government taxes during the year under report in as much as the department brought Rs. 184.30 Crores as against Rs. 169.54 Crores during the previous year.

The total demand of Municipal property taxes, including Water charges & Wheel tax was Rs. 277.97 Crores whereas the total outstanding which includes arrears of past & previous years was Rs. 114.44 Crores. These arrears include settled demand as well as unsettled demand. 45% of these arrears are generally recovered during the subsequent year and balance amount remains locked up on account of various reasons shown in the statement (Appendix No. 8).

The Rateable Value of Railway Properties upto 31st March 1977 has been finalised and finalization of the R. V. for the further period is under process. The quantum of taxes to be paid is, 42% of General Tax payable at normal rate. Railway authorities in the meantime paid Rs. 16.32 lacs during the year 1986-87.

The assessment of Bombay Port Trust properties for the quinquennium 1969-74 is in progress.

As regards the assessment of State & Central Government properties for the quinquennium 1979-84 Shri C. D. Vaidya Valuee who has been appointed to fix the Rateable Value of lands and buildings in charge of State and Central Governments in Greater Bombay has taken up the matter in hand the same is in progress.

**Building Repair Cess :—**

Repair Cess collected during the year 1986-87 was Rs. 9.48 Crs.

**Maharashtra Tax on Buildings with larger Residential Premises (Re-enacted) Act 1979 :—**

Under the aforesaid Act, the State Government has levied from 1st April 1974 retrospectively a tax on residential premises having floorage of more than 125 Sq. Mtrs., and the Reteable Value thereof being more than Rs. 1,500/-, at the rate of 10% of the Reteable Value per year. The work of levy and recovery of this tax is entrusted to Assessment & Collection Department. Maharashtra Tax on Buildings (with larger residential premises) Cell collected Rs. 74,63,000/- during the year 1986-87.

**Octroi :—**

In the year 1986-87, the rates of octroi continued to be same as in the year 1985-86.

The amount of octroi collection during the year 1986-87 was Rs. 230.77 Crores as against Rs. 211.41 Crores collected during the year 1985-86. This shows an increase of Rs. 19.36 Crs. in octroi collection in the year 1986-87 as compared with octroi collection in 1985-86.

Figures of Octroi collection, refunds etc., for 1984-85, 1985-86 & 1986-87 are as under :—

	(Figures. in Crs.)		1986-87	Increase or decrease over 1985-86
	1984-85	1985-86		
	Rs.	Rs.	Rs.	Rs.
1. Gross collection.	191.09	211.41	230.77	+ 19.36
2. Less Refund.	12.51	17.57	13.21	+ 4.36
3. Net Revenue.	178.58	193.84	217.56	+ 23.72
4. Fees for stamping.	0.002	0.001	0.0001	— 0.0009
5. Fees in respect of refund.	1.52	2.18	1.65	— 0.53
6. Departmental collection.	130.20	147.74	169.53	+ 21.79

75,060 claims for refund of Octroi on goods exported out of Bombay were received during the year 1986-87 as compared to 95,361 claims received in the year 1985-86.

**Election Branch :—**

From 1st September 1985 a very small Election branch comprising 1 Clerk & 1 Clerk-cum-Typist functions under the supervision of Dy. Assessor & Collector (City) in the office of the Assessor & Collector.

There was no occasion on which provisions of Bombay Municipal servants' Act, 1890 had to be brought into effect.

M. R. Prabhu,  
Assessor & Collector.



## APPENDIX I

Nature of Tax.	Rates of taxation (Percentage) of the R. V.	Remarks:
(1) General Tax (Including 1.50% Fire Tax).	25.50%	In the areas of City & suburbs.
(2) Water Tax.	9.00%	—"
(3) Water Benefit Tax.	6.00%	—"
(4) Sewerage Tax.	5.00%	—"
(5) Sewerage Benefit Tax.	4.00%	—"
(6) Education Cess.	0.50%	For R. V. between Re. 1/- to Rs. 74/-
	2.50%	For R. V. between Rs. 75/- to Rs. 299/-
	3.00%	For R. V. between Rs. 300/- to Rs. 4,999
	5.00%	For R. V. of Rs. 5,000/- & above.
(7) State Education Cess—		

OSlabs of annual letting value.	In respect of lands or buildings used or intended to be used for residential purpose.	In respect of lands or buildings used or intended to be used for non-residential purpose.
(i) On R. V. Re. 1/- to Rs. 74/-	Nil	Nil
(ii) Rs. 75/- or more but not more than Rs. 150/-	2.00%	4.00%
(iii) More than Rs. 150/- but less than Rs. 300/-	3.00%	6.00%
(iv) Rs. 300/- or more but less than Rs. 3000/-	4.00%	8.00%
(v) Rs. 3000/- or more but less than Rs. 6000/-	5.00%	10.00%
(vi) Rs. 6000/- or more.	6.00%	12.00%
(8) Water charges by meter measurement in case of properties metered.	The rates charged for supply of water by meter measurement ranged between Rs. 3.00 and Rs. 60.00 per 10,000 litres according to the user of property.	
(9) Sewerage charges in case of properties metered and sewered.	50% of the amount of water charges billed where properties are sewered.	
(10) Employment Guarantee Cess.	At 1/4th the rate of which State Education Cess is levied on non-residential portion of lands or buildings.	

## APPENDIX — II

## Statement showing the position of properties during the year 1986-87.

Properties	City	Western Subs.	Eastern Subs.	Total
(1) Properties as on 31-3-1987.	62,562	1,04,516	61,720	2,28,798
(2) Properties exempted from General Tax	3,901	1,421	718	6,040
(3) Properties newly assessed	249	1,339	655	2,243
(4) Properties enlarged	1,093	1,104	863	3,060
(5) Properties demolished	148	230	322	700

## APPENDIX - III

## Statement of Rateable Value as on 31-37. Rates of R. V. head etc.

	City	Western Subs.	Eastern Subs.	Total
(1) Rateable Value	Rs. 110,78,01,003	Rs. 96,94,84,873	Rs. 38,44,26,390	Rs. 246,17,12,266
(2) Population	32,85,040	28,58,152	21,00,443	82,43,635
(3) Rate per head of population	337.23%	339.22%	183.06%	298.61%
(4) No. of complaints against R. V.	1,085	2,600	1,163	4,848
(5) Percentage of Reduction in R. V.	18.90%	13.83%	15.07%	15.95%
(6) No of appeals received against R. V.	322	324	210	856
(7) No. of appeals pending against R. V.	289	243	179	711

## APPENDIX IV.

Statement showing comparative position of Demand, Collection and outstanding of Municipal Property Taxes (including Water charges, Sewerage charges, Water Tax, Water Benefit Tax, Sewerage Tax, Sewerage Benefit Tax and Wheel Tax).

(Amount in Crores)

Nature of Tax	Year	Total net demand Rs.	Collection Rs.	Percentage of collection to net demand.	Out-standings Rs.	Percentage of outstandings to net demand.
<b>Property Tax—</b>						
City.	1984-85	101.51	69.03	68.00%	32.48	32.00%
Subs. & Extd. Subs.	—"	113.54	74.25	65.39%	39.29	34.61%
City.	1985-86	104.06	70.87	68.10%	33.19	31.89%
Subs. & Extd. Subs.	—"	116.76	76.07	65.15%	40.69	34.85%
City.	1986-87	114.74	72.98	63.60%	41.76	36.40%
Western Subs.	—"	87.45	52.92	60.51%	34.53	39.49%
Eastern Subs.	—"	58.42	34.73	59.45%	23.69	40.55%
<b>Wheel Tax—</b>						
City.	1984-85	7.84	1.59	20.29%	6.25	79.71%
Subs. & Extd. Subs.	—"	5.19	0.71	13.69%	4.48	86.31%
City.	1985-86	9.07	1.57	17.31%	7.50	82.69%
Subs. & Extd. Subs.	—"	6.21	0.79	12.72%	5.42	87.27%
City.	1986-87	9.97	1.86	18.66%	8.11	81.34%
Western Subs.	—"	4.41	0.69	15.65%	3.72	84.35%
Eastern Subs.	—"	2.98	0.35	11.74%	2.63	88.25%

	City	Western Subs.	Eastern Subs.	Total
	Rs.	Rs.	Rs.	Rs.
<b>Miscellaneous Receipts 1986-87</b>				
(1) Notice Fee	2,18,873	3,31,293	1,81,111	7,31,277
(2) Warrant Cost	1,43,477	2,04,466	1,60,921	5,08,864
(3) Penalty	8,33,516	9,33,548	3,13,946	20,81,010
Amount of General Tax exempted.	70,08,091	68,67,522	1,03,65,061	2,42,40,674

## APPENDIX V.

## (1) Statement showing total demand, collection &amp; outstandings of Municipal Property Taxes during 1986-87.

(Municipal Property Taxes including Water Tax, Water Benefit Tax, Sewerage Tax, Sewerage Benefit Tax but excluding W. Charges and S. Charges).

(Amount in Lacs)

Period	Out-standing as on 1-4-86	Amount of bills issued during the year	Gross demand	Amount of bills recalled during the year	Net Demand	Less Unsettled demand.	Effective Demand	Collection during the year	Out-standing as on 31-3-87	Percentage of collection to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
<b>Div. I City</b>										
Up to and 1984-85	1630.37	120.13	1750.50	191.65	1558.85	—	—	222.63	1338.22	
1985-86	741.73	224.97	966.70	256.22	710.48	—	—	372.12	338.36	
1986-87	—	5301.68	5301.68	493.81	4807.85	—	—	3705.94	1101.91	
<b>Total :</b>	<b>2372.10</b>	<b>5646.76</b>	<b>8018.86</b>	<b>941.68</b>	<b>7077.18</b>	<b>—</b>	<b>—</b>	<b>4300.69</b>	<b>2776.49</b>	<b>60.77%</b>
<b>Div. II Western Subs.</b>										
Up to & 1984-85	1588.14	25.78	1613.92	39.42	1574.50	—	—	201.02	1373.48	
1985-86	822.95	258.82	1081.57	245.10	836.47	—	—	465.57	370.90	
1986-87	—	4415.59	4415.59	523.30	3892.29	—	—	3119.26	773.03	
<b>Total :</b>	<b>2411.09</b>	<b>4699.99</b>	<b>7111.08</b>	<b>807.82</b>	<b>6303.26</b>	<b>—</b>	<b>—</b>	<b>3785.85</b>	<b>2517.41</b>	<b>60.06%</b>
<b>Div. III Eastern Subs.</b>										
Up to and 1984-85	1071.96	7.44	1079.40	18.10	1061.30	—	—	106.42	954.88	
1985-86	393.44	115.40	508.84	121.31	387.53	—	—	212.74	174.79	
1986-87	—	1911.76	1911.76	318.77	1592.99	—	—	1282.58	410.41	
<b>Total :</b>	<b>1465.40</b>	<b>2034.60</b>	<b>3500.00</b>	<b>358.18</b>	<b>3141.82</b>	<b>—</b>	<b>—</b>	<b>1801.74</b>	<b>1540.08</b>	<b>50.98%</b>
<b>Grand Total :</b>	<b>6248.59</b>	<b>12381.35</b>	<b>18629.94</b>	<b>2107.68</b>	<b>16522.26</b>	<b>—</b>	<b>—</b>	<b>9688.28</b>	<b>6833.98</b>	<b>58.64%</b>

## (2) Water charges by Meter Measurement including Sewerage charges and Meter Rent.

(Amount in Lacs)

<b>Div. I City</b>										
Up to & 1984-85	871.49	46.95	918.44	50.26	868.18	—	—	129.47	738.71	
1985-86	558.18	73.65	631.81	39.74	592.07	—	—	386.18	205.89	
1986-87	—	3078.21	3078.21	141.66	2936.55	—	—	2481.67	454.88	
<b>Total :</b>	<b>1429.65</b>	<b>3198.81</b>	<b>4628.46</b>	<b>231.66</b>	<b>4396.80</b>	<b>—</b>	<b>—</b>	<b>2997.32</b>	<b>1399.48</b>	<b>68.17%</b>
<b>Div. II Western Subs.</b>										
Up to & 1984-85	575.34	28.27	603.61	19.24	584.37	—	—	93.54	490.83	
1985-86	378.11	80.57	458.68	40.04	418.64	—	—	248.67	167.97	
1986-87	—	1532.12	1532.12	91.15	1440.97	—	—	1163.63	277.34	
<b>Total :</b>	<b>951.45</b>	<b>1640.96</b>	<b>2592.41</b>	<b>150.43</b>	<b>2441.98</b>	<b>—</b>	<b>—</b>	<b>1505.84</b>	<b>936.14</b>	<b>61.66%</b>
<b>Div. III Eastern Subs.</b>										
Up to and 1984-85	397.33	16.72	414.05	16.49	397.56	—	—	55.38	342.18	
1985-86	261.57	103.03	384.60	25.33	359.27	—	—	159.31	199.96	
1986-87	—	2052.54	2052.54	108.49	1944.05	—	—	1656.92	287.13	
<b>Total :</b>	<b>678.90</b>	<b>2172.29</b>	<b>2851.19</b>	<b>150.31</b>	<b>2700.88</b>	<b>—</b>	<b>—</b>	<b>1871.61</b>	<b>829.27</b>	<b>69.30%</b>
<b>Grand Total :</b>	<b>3060.00</b>	<b>7012.06</b>	<b>10072.06</b>	<b>532.40</b>	<b>9539.66</b>	<b>—</b>	<b>—</b>	<b>6374.77</b>	<b>3184.89</b>	<b>68.82%</b>

## (3) Sewerage Charges.

(Amount in Lacs)

Period	Out-standing as on 1-4-86	Amount of bills issued during the year	Gross demand	Amount of bills recalled during the year	Net Demand	Less Unsettled demand.	Effective Demand	Collection during the year	Out-standings as on 31-3-87	Percentage of collection to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
<b>Div. I City</b>										
Upto & 1984-85	197.46	14.08	211.54	17.36	194.18	—	—	17.90	176.28	
1985-86	104.39	20.45	124.84	10.61	114.23	—	—	85.81	28.42	
1986-87	—	631.46	631.46	46.47	784.99	—	—	693.16	91.83	
<b>Total :</b>	<b>301.85</b>	<b>665.99</b>	<b>1167.84</b>	<b>74.44</b>	<b>1093.40</b>	<b>—</b>	<b>—</b>	<b>796.87</b>	<b>296.53</b>	<b>72.88%</b>
<b>Div. II Western Subs.</b>										
Upto & 1984-85	167.13	5.40	172.53	2.82	169.71	—	—	8.59	161.12	
1985-86	71.29	11.05	82.34	4.03	78.31	—	—	52.59	25.72	
1986-87	—	234.75	234.75	7.26	227.49	—	—	161.96	65.53	
<b>Total :</b>	<b>238.42</b>	<b>251.20</b>	<b>489.62</b>	<b>14.11</b>	<b>475.51</b>	<b>—</b>	<b>—</b>	<b>223.14</b>	<b>252.37</b>	<b>46.93%</b>
<b>Div. III Eastern Subs.</b>										
Upto and 1984-85	147.14	3.74	150.88	4.11	146.77	—	—	13.72	133.05	
1985-86	78.79	6.03	84.82	3.93	80.89	—	—	39.34	41.55	
1986-87	—	168.31	168.31	11.79	156.52	—	—	107.27	49.25	
<b>Total :</b>	<b>225.93</b>	<b>178.08</b>	<b>404.01</b>	<b>19.83</b>	<b>384.18</b>	<b>—</b>	<b>—</b>	<b>160.33</b>	<b>223.85</b>	<b>41.73%</b>
<b>Grand Total :</b>	<b>768.20</b>	<b>1295.27</b>	<b>2061.47</b>	<b>108.38</b>	<b>1953.09</b>	<b>—</b>	<b>—</b>	<b>1180.34</b>	<b>772.75</b>	<b>60.43%</b>

## (4) Wheel Tax

(Amount in Lacs)

<b>Div. I. City</b>										
Upto & 1984-85	601.51	6.69	608.20	28.60	579.60	—	—	37.38	542.22	
1985-86	149.17	4.57	153.74	5.47	148.27	—	—	31.80	116.47	
1986-87	—	276.16	276.16	6.69	269.47	—	—	116.86	152.61	
<b>Total :</b>	<b>750.68</b>	<b>287.42</b>	<b>1038.10</b>	<b>40.76</b>	<b>997.34</b>	<b>—</b>	<b>—</b>	<b>186.04</b>	<b>811.30</b>	<b>18.65%</b>
<b>Div. II Western Subs.</b>										
Upto & 1984-85	223.11	4.13	227.24	2.61	224.63	—	—	18.78	205.85	
1985-86	102.44	7.15	109.59	0.82	108.77	—	—	14.74	94.03	
1986-87	—	108.95	108.95	1.09	107.86	—	—	35.12	72.74	
<b>Total :</b>	<b>325.55</b>	<b>120.23</b>	<b>445.78</b>	<b>4.52</b>	<b>441.26</b>	<b>—</b>	<b>—</b>	<b>68.64</b>	<b>372.62</b>	<b>15.56%</b>
<b>Div. III Eastern Sub.</b>										
Upto & 1984-85	190.35	1.69	192.04	1.14	190.90	—	—	10.44	180.46	
1985-86	44.49	1.55	46.04	0.25	45.79	—	—	7.57	38.22	
1986-87	—	62.12	62.12	0.40	61.72	—	—	17.38	44.34	
<b>Total :</b>	<b>234.84</b>	<b>65.36</b>	<b>300.20</b>	<b>1.79</b>	<b>298.41</b>	<b>—</b>	<b>—</b>	<b>35.39</b>	<b>263.02</b>	<b>11.86%</b>
<b>Grand Total :</b>	<b>1311.07</b>	<b>473.01</b>	<b>1784.08</b>	<b>47.07</b>	<b>1737.01</b>	<b>—</b>	<b>—</b>	<b>290.07</b>	<b>1446.94</b>	<b>16.70%</b>

## (5) Water Tax

(Amount in Lacs)

Period	Out-standing as on 1-4-86	Amount of bills issued during the year	Gross demand	Amount of bills recalled during the year	Net Demand	Less Unsettled demand.	Effective Demand	Collection during the year	Out-standings as on 31-3-87	Percentage of collection to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
<b>Div. I. City</b>										
Upto & 1984-85	153.94	7.49	161.43	32.39	129.04	—	—	20.68	108.36	
1985-86	80.66	10.38	91.04	23.31	67.73	—	—	27.82	40.11	
1986-87	—	378.99	378.99	50.74	328.25	—	—	223.35	98.90	
<b>Total :</b>	<b>234.60</b>	<b>396.86</b>	<b>631.46</b>	<b>106.44</b>	<b>525.02</b>	<b>—</b>	<b>—</b>	<b>277.65</b>	<b>247.37</b>	<b>52.88%</b>
<b>Div. II Western Subs.</b>										
Upto & 1984-85	59.41	—	59.41	0.02	59.39	—	—	0.19	59.20	
1985-86	20.30	0.15	20.45	—	20.45	—	—	0.14	20.31	
1986-87	—	24.54	24.54	1.57	22.97	—	—	11.35	11.62	
<b>Total :</b>	<b>79.71</b>	<b>24.69</b>	<b>104.40</b>	<b>1.59</b>	<b>102.81</b>	<b>—</b>	<b>—</b>	<b>11.68</b>	<b>91.13</b>	<b>11.36%</b>
<b>Div. III Eastern Sub.</b>										
Upto & 1984-85	19.55	—	19.55	0.02	19.53	—	—	0.81	18.72	
1985-86	2.25	0.17	2.42	0.14	2.28	—	—	0.75	1.53	
1986-87	—	20.37	20.37	0.21	20.16	—	—	17.19	2.97	
<b>Total :</b>	<b>21.80</b>	<b>20.54</b>	<b>42.34</b>	<b>0.37</b>	<b>41.97</b>	<b>—</b>	<b>—</b>	<b>18.75</b>	<b>23.22</b>	<b>44.67%</b>
<b>Grand Total :</b>	<b>336.11</b>	<b>442.09</b>	<b>778.20</b>	<b>108.40</b>	<b>669.80</b>	<b>—</b>	<b>—</b>	<b>308.08</b>	<b>361.72</b>	<b>46.99%</b>

## (6) Water Benifit Tax

(Amount in Lacs)

<b>Div. I. City</b>										
Upto & 1984-85	200.04	18.23	218.27	22.16	196.11	—	—	34.05	162.06	
1985-86	92.09	31.55	123.64	34.23	89.41	—	—	50.12	39.29	
1986-87	—	728.27	728.27	71.76	656.51	—	—	513.85	140.66	
<b>Total :</b>	<b>292.13</b>	<b>778.05</b>	<b>1068.18</b>	<b>128.15</b>	<b>940.03</b>	<b>—</b>	<b>—</b>	<b>598.02</b>	<b>342.01</b>	<b>63.62%</b>
<b>Div. II Western Subs.</b>										
Upto & 1984-85	239.35	4.08	243.43	6.97	236.46	—	—	28.09	212.37	
1985-86	118.14	34.59	152.53	32.50	120.03	—	—	58.42	61.61	
1986-87	—	607.63	607.63	64.27	543.36	—	—	389.37	153.99	
<b>Total :</b>	<b>357.49</b>	<b>646.10</b>	<b>1003.59</b>	<b>101.74</b>	<b>901.85</b>	<b>—</b>	<b>—</b>	<b>473.88</b>	<b>427.97</b>	<b>52.56%</b>
<b>Div. III Eastern Sub.</b>										
Upto & 1984-85	113.65	1.25	114.90	2.15	112.75	—	—	13.59	99.16	
1985-86	51.01	18.20	67.21	18.49	48.72	—	—	28.56	22.22	
1986-87	—	260.53	260.53	30.88	229.65	—	—	178.43	51.24	
<b>Total :</b>	<b>164.66</b>	<b>279.98</b>	<b>442.64</b>	<b>49.52</b>	<b>393.12</b>	<b>—</b>	<b>—</b>	<b>220.58</b>	<b>172.62</b>	<b>56.10%</b>
<b>Grand Total :</b>	<b>814.28</b>	<b>1700.13</b>	<b>2514.41</b>	<b>279.33</b>	<b>2235.08</b>	<b>—</b>	<b>—</b>	<b>1292.48</b>	<b>942.60</b>	<b>57.82%</b>

## (7) Sewerage Tax

(Amount in Lacs)

Period	Out-standing as on 1-4-86	Amount of bills issued during the year	Gross demand	Amount of bills recalled during the year	Net Demand	Less- Unsettled demand.	Effective Demand	Collection during the year	Out-standings as on 31-3-87	Percentage of collection to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
<b>Div. I. City</b>										
Upto & 1984-85	157.88	4.85	162.73	19.57	143.16	—	—	19.38	123.78	
1985-86	65.02	5.95	70.97	13.21	57.76	—	—	20.86	36.90	
1986-87	—	265.52	265.52	28.37	237.15	—	—	163.74	73.41	
<b>Total :</b>	<b>222.90</b>	<b>276.32</b>	<b>499.22</b>	<b>61.15</b>	<b>438.07</b>	<b>—</b>	<b>—</b>	<b>203.98</b>	<b>234.09</b>	<b>46.56%</b>
<b>Div. II Western Subs.</b>										
Upto & 1984-85	131.66	1.11	132.77	5.92	126.85	—	—	13.40	113.45	
1985-86	93.91	24.15	118.06	24.93	93.13	—	—	36.06	57.07	
1986-87	—	353.45	353.45	45.40	308.05	—	—	192.86	115.19	
<b>Total :</b>	<b>225.57</b>	<b>378.71</b>	<b>604.28</b>	<b>76.25</b>	<b>528.03</b>	<b>—</b>	<b>—</b>	<b>242.32</b>	<b>285.71</b>	<b>45.89%</b>
<b>Div. III Eastern Sub.</b>										
Upto & 1984-85	127.87	0.32	128.19	1.72	126.47	—	—	8.73	117.74	
1985-86	41.56	11.63	53.19	13.21	39.98	—	—	19.91	20.07	
1986-87	—	168.79	168.79	23.70	145.09	—	—	106.51	38.58	
<b>Total :</b>	<b>169.43</b>	<b>180.74</b>	<b>350.17</b>	<b>38.63</b>	<b>311.54</b>	<b>—</b>	<b>—</b>	<b>135.15</b>	<b>176.39</b>	<b>43.38%</b>
<b>Grand Total :</b>	<b>617.90</b>	<b>835.77</b>	<b>1453.67</b>	<b>176.03</b>	<b>1277.64</b>	<b>—</b>	<b>—</b>	<b>581.45</b>	<b>696.19</b>	<b>45.50%</b>

## (8) Sewerage Benefit Tax

(Amount in Lacs)

<b>Div. I. City</b>										
Upto & 1984-85	123.01	13.30	136.31	17.33	118.98	—	—	22.95	96.03	
1985-86	71.32	22.97	94.29	22.40	71.89	—	—	33.88	38.01	
1986-87	—	486.24	486.24	49.10	437.14	—	—	343.12	94.02	
<b>Total :</b>		<b>522.51</b>	<b>716.84</b>	<b>88.83</b>	<b>628.01</b>	<b>—</b>	<b>—</b>	<b>399.95</b>	<b>228.06</b>	<b>63.69%</b>
<b>Div. II Western Subs.</b>										
Upto & 1984-85	154.57	6.01	160.58	4.34	156.24	—	—	21.84	134.40	
1985-86	93.58	25.53	119.11	21.94	97.17	—	—	36.61	60.56	
1986-87	—	404.62	404.62	42.76	361.86	—	—	258.44	103.42	
<b>Total :</b>	<b>248.15</b>	<b>436.16</b>	<b>684.31</b>	<b>69.04</b>	<b>615.27</b>	<b>—</b>	<b>—</b>	<b>316.89</b>	<b>298.38</b>	<b>51.50%</b>
<b>Div. III Eastern Sub.</b>										
Upto & 1984-85	69.19	0.82	70.01	1.40	68.61	—	—	8.62	59.99	
1985-86	36.39	11.30	47.69	12.09	35.60	—	—	18.98	16.62	
1986-87	—	173.50	173.50	20.95	152.55	—	—	118.78	33.77	
<b>Total :</b>	<b>105.58</b>	<b>185.62</b>	<b>291.20</b>	<b>34.44</b>	<b>256.76</b>	<b>—</b>	<b>—</b>	<b>146.38</b>	<b>110.38</b>	<b>57.01%</b>
<b>Grand Total :</b>	<b>548.06</b>	<b>1144.29</b>	<b>1692.35</b>	<b>192.31</b>	<b>1500.04</b>	<b>—</b>	<b>—</b>	<b>863.22</b>	<b>636.82</b>	<b>57.54%</b>

## APPENDIX — VI

Statement showing total demand, collection and outstanding of Government Taxes and cess during 1986-87

(1) State-Education Cess  
(Amount in Lacs)

Period	Out-standing as on 1-4-88	Amount of bills issued during the year	Gross demand	Amount of bills recalled during the year	Net Demand	Less Unsettled demand	Effective Demand	Collection during the year	Out-standings as on 31-3-87	Percentage of collection to net demand
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
<b>Div. I. City</b>										
Upto & 1984-85	362.85	33.83	396.68	41.97	354.71	—	—	46.54	308.17	
1985-86	158.59	84.86	223.44	69.08	154.36	—	—	86.44	87.92	
1986-87	—	1106.30	1106.30	147.89	958.41	—	—	730.88	227.53	
<b>Total :</b>	<b>521.44</b>	<b>1204.98</b>	<b>1726.42</b>	<b>258.94</b>	<b>1467.48</b>	<b>—</b>	<b>—</b>	<b>863.86</b>	<b>603.62</b>	<b>58.97%</b>
<b>Div. II Western Subs.</b>										
Upto & 1984-85	233.46	5.25	238.71	6.58	232.13	—	—	27.82	204.31	
1985-86	189.50	48.04	215.54	44.25	171.29	—	—	84.29	107.00	
1986-87	—	780.39	780.39	98.25	682.14	—	—	457.58	204.56	
<b>Total :</b>	<b>402.96</b>	<b>811.68</b>	<b>1214.84</b>	<b>149.08</b>	<b>1065.56</b>	<b>—</b>	<b>—</b>	<b>549.69</b>	<b>515.87</b>	<b>51.59%</b>
<b>Div. III Eastern Sub.</b>										
Upto & 1984-85	188.88	1.48	190.34	3.88	186.46	—	—	18.25	168.21	
1985-86	83.39	30.64	114.03	33.30	80.73	—	—	44.70	36.03	
1986-87	—	379.62	379.62	55.18	324.44	—	—	244.81	79.63	
<b>Total :</b>	<b>272.25</b>	<b>411.74</b>	<b>683.99</b>	<b>92.36</b>	<b>591.63</b>	<b>—</b>	<b>—</b>	<b>307.76</b>	<b>283.87</b>	<b>52.07%</b>
<b>Grand Total :</b>	<b>1196.65</b>	<b>2428.40</b>	<b>3625.05</b>	<b>500.38</b>	<b>3124.67</b>	<b>—</b>	<b>—</b>	<b>1721.31</b>	<b>1403.36</b>	<b>55.08%</b>

(2) Urban Immoveable Property Tax

(Amount in Lacs)

(Upto & 1962-63)										
City	0.17	—	0.17	—	0.17	—	—	—	0.17	
W. Subs.	1.20	—	1.20	—	1.20	—	—	0.01	1.19	
E. Sub.	1.07	—	1.07	—	1.07	—	—	—	1.07	
<b>Total :</b>	<b>2.44</b>	<b>—</b>	<b>2.44</b>	<b>—</b>	<b>2.44</b>	<b>—</b>	<b>—</b>	<b>0.01</b>	<b>2.43</b>	<b>0.41%</b>

## (3) Employment Guarantee Cess

(Amount in Lacs)

Period	Out-standing as on 1-4-86	Amount of bills issued during the year	Gross demand	Amount of bills recalled during the year	Net Demand	Less Unsettled demand.	Effective Demand	Collection during the year	Out-standings as on 31-3-87	Percentage of collection to net demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
<b>Div. I. City</b>										
Upto & 1984-85	173.55	10.69	184.24	12.20	172.04	—	—	18.20	153.84	
1985-86	31.90	18.25	48.15	17.44	30.71	—	—	17.43	13.28	
1986-87	—	228.24	228.24	29.54	198.70	—	—	140.53	58.17	
<b>Total :</b>	<b>205.45</b>	<b>255.18</b>	<b>480.63</b>	<b>59.18</b>	<b>401.45</b>	<b>—</b>	<b>—</b>	<b>176.16</b>	<b>225.29</b>	<b>43.88%</b>
<b>Div. II Western Subs.</b>										
Upto & 1984-85	59.11	0.92	60.03	0.88	59.15	—	—	6.82	52.33	
1985-86	36.77	5.59	42.36	5.52	36.84	—	—	7.13	29.71	
1986-87	—	96.53	96.53	14.30	82.23	—	—	50.01	32.22	
<b>Total :</b>	<b>95.88</b>	<b>103.04</b>	<b>198.92</b>	<b>20.70</b>	<b>178.22</b>	<b>—</b>	<b>—</b>	<b>63.96</b>	<b>114.26</b>	<b>35.89%</b>
<b>Div. III Eastern Sub.</b>										
Upto & 1984-85	40.57	0.24	40.81	0.87	39.94	—	—	2.98	36.96	
1985-86	15.58	6.05	21.63	6.89	14.74	—	—	8.84	5.90	
1986-87	—	64.66	64.66	11.52	53.14	—	—	38.86	14.28	
<b>Total :</b>	<b>56.15</b>	<b>70.95</b>	<b>127.10</b>	<b>19.28</b>	<b>107.82</b>	<b>—</b>	<b>—</b>	<b>50.68</b>	<b>57.14</b>	<b>47.00%</b>
<b>Grand Total :</b>	<b>357.48</b>	<b>429.17</b>	<b>786.65</b>	<b>99.16</b>	<b>687.49</b>	<b>—</b>	<b>—</b>	<b>290.80</b>	<b>396.69</b>	<b>42.29%</b>

## (4) Additional State Education Cess

(Amount in Lacs)

(Upto & 1973-74)										
City	0.34	—	0.34	—	0.34	—	—	0.09	0.25	
W. Sub.	4.40	—	4.40	—	4.40	—	—	0.40	4.00	
E. Sub.	2.56	—	2.56	—	2.56	—	—	0.07	2.49	
<b>Total :</b>	<b>7.30</b>	<b>—</b>	<b>7.30</b>	<b>—</b>	<b>7.30</b>	<b>—</b>	<b>—</b>	<b>0.56</b>	<b>6.74</b>	<b>7.87%</b>

## (2) Repairs and Reconstruction Cess

(Amount in Lacs)

<b>Past &amp; previous years</b> i.e. upto & 1985-86										
A	1403.21	115.29	1518.50	60.03	1458.47	—	1458.47	312.74	1145.73	
B	124.33	4.51	128.84	3.74	125.10	—	125.10	18.64	106.46	
C	177.55	5.19	182.74	4.66	178.08	—	178.08	24.14	153.94	
<b>Total :</b>	<b>1705.09</b>	<b>124.99</b>	<b>1830.08</b>	<b>68.43</b>	<b>1761.65</b>	<b>—</b>	<b>1761.65</b>	<b>355.52</b>	<b>1408.13</b>	<b>20.18%</b>
<b>Current Year 1986-87</b>										
A	—	1077.50	1077.50	82.81	994.69	—	994.69	498.95	495.74	
B	—	77.80	77.80	7.44	70.36	—	70.36	39.26	33.10	
C	—	109.52	109.52	7.09	102.43	—	102.43	56.51	45.92	
<b>Total :</b>	<b>—</b>	<b>1264.82</b>	<b>1264.82</b>	<b>97.34</b>	<b>1167.48</b>	<b>—</b>	<b>1167.48</b>	<b>592.72</b>	<b>574.76</b>	<b>50.77%</b>
<b>Grand Total :</b>	<b>1705.09</b>	<b>1389.81</b>	<b>3094.90</b>	<b>165.77</b>	<b>2929.13</b>	<b>—</b>	<b>2929.13</b>	<b>948.24</b>	<b>1980.89</b>	<b>32.37%</b>



**APPENDIX — VII**  
Bills issued during the year 1986-87

	CITY		WESTERN SUBS.		EASTERN SUBS.		GRAND TOTAL	
	Past and Pre-vious years.	Current year.	Past and pre-vious years.	Current year.	Past & pre-vious years.	Current year.	Past & pre-vious years.	Current year.
	No. of bills	No. of bills	No. of bills	No. of bills	No. of bills	No. of bills	No. of bills	No. of bills
(1) Property Taxes	2,575	1,22,781	5,916	1,97,403	14,149	1,21,951	22,640	4,42,135
(2) Water Charges by meter measurement including Meter hire.	4,015	86,981	9,378	1,83,640	8,221	80,820	21,614	3,51,441
(3) Wheel Tax	14,116	2,33,442	16,385	1,10,879	4,469	60,102	34,970	4,04,423

**APPENDIX — VIII**

Break-up of locked up-outstanding of Municipal Taxes and charges as on 31st March 1987.

(Rs. in Crores)

	City	W. Subs.	E. Subs.	Total
(1) Amount involved in Writ Petitions, appeals etc. (G.T., E.C./G Budget Taxes)	6.66	3.99	1.60	12.25
(2) Amount involved in Complaints against R. V.	2.47	1.61	0.52	4.60
(3) Amount involved in unauthorised structures, G.T., E. C./G Budget Taxes	0.69	8.78	7.33	16.80
(4) Taxes due from other departments pending adjustment.	0.68	0.30	0.27	1.25
(5) Property Taxes dues from Govt. B.P.T., Railways etc.	2.78	3.76	0.46	7.00
(6) Water charges being amount of monthly and quarterly issue and disputes regarding rates and consumption in respect thereof.	3.16	2.11	1.73	7.00
(7) Attachment cases under process	2.63	1.69	1.33	5.65
(8) Instalment Allowed.	0.10	0.12	0.05	0.27
(9) Property & Wheel Tax disputes	6.50	3.83	2.37	12.70
(10) Bills issued at the fag end of the year.	7.79	6.29	3.00	17.08
(11) Arrears of textile mills & N. T. C.	2.16	1.44	1.30	4.90
(12) Disputes of under consumption bills (water charges)	0.88	0.59	0.53	2.00
(13) Court Cases of water charges disputes	1.00	0.10	0.40	1.50
(14) Official Liquidator	0.98	0.02	—	1.00
(15) Recoverable as on 31st March 1987.	8.36	7.53	4.55	20.44
Total :	46.84	42.16	25.44	114.44

- (1) The matters are pending before the Court and recovery would be effected as and when appeals and petitions before the Court are disposed of.
- (2) Complaints are pending and the payments can be demanded after disposal of complaints against Rateable Value.
- (3) Since the numbering of hutment recovery has received set back and the arrears have mounted up, the position may improve only when question is finally settled and compensation recovered from hutment dwellers is made available.
- (4) Amount awaits adjustment.
- (5) Payment was not received from Govt. Deptts. The Railways have made 'on account' payment of Rs. 16.32 lacs during 1983-87. The question of assessment of Railway properties from 1st April 1977 is under process.
- (6) Water meters often go out of order and require repairs and testing. Dispute on account of high consumption, wrong rate require verification, sanction etc. at different levels.
- (7) Properties have been attached and steps have since been taken to expedite the sale of properties attached.
- (8) The recovery would be effected in due course.
- (9) Efforts are being made to settle the disputes so as to effect recovery.
- (10) Recovery is in progress.
- (11) Textile Mills and Mills under N. T. C. do not pay bills in time due to financial crisis. Many mills are declared as sick mills. Disconnection of water supply though possible as per rules, is not enforced so far as it would affect production and increase unemployment.
- (12) Provision of Rule 111(d)(i) of water charges rules are struck down by High Court.
- (13) Recovery can be effected on disposal of suits.
- (14) Recovery is possible subject to availability of funds with official liquidator.

## APPENDIX — IX

## (A) Cinema Theatres and Tax Collected.

	No. of Theatres Class I	No. of Theatres Class II	Total No. of Theatres	Collection during 1985-86	Collection during 1986-87
City.	67	1	68	18,66,389	17,20,608
Western Sub.	38	—	38	16,73,806	9,35,524
Eastern Sub.	24	—	24		5,44,131
<b>Total :</b>	<b>129</b>	<b>1</b>	<b>130</b>	<b>35,40,195</b>	<b>32,00,263</b>

## (B) Vehicles and Animals taxed under Public Conveyance Act.

(a) Hack Victories (2 Horses each).	184
(b) Labour Carts (with pair of bullocks).	257
(c) Hand Carts.	12,340

**Total :** 12,781

## Vehicles and Animals taxed during the year 1986-87.

Vehicles or Animals taxed during the year	No.	Vehicles or Animals taxed during the year	No.
(1) Motor Cycle Solo.	1,57,395	11) Taxis.	33,028
2) Motor cycle with side car.	3,845	12) Passenger Buses.	2,117
3) Trade Certificates.	36	13) Ambulance.	180
4) Motor Lorries.	26,732	14) Others.	—
5) Delivery Vans.	14,815	15) Four wheeled vehicles drawn by animals.	15
6) Trailors.	642	16) Two wheeled vehicles drawn by animals.	270
7) Tanker.	989	17) Hand Carts.	12,340
8) Crane.	589	18) Horses.	130
9) Motor Trucks.	342	19) Ponies.	2,748
10) Motor Cars.	1,87,651	20) Bullocks.	898
		21) Auto Rickshaw.	21,303
		<b>Total :</b>	<b>4,66,065</b>

## APPENDIX X

## Classification of properties according to Rateable Value.

Rateable Value	City No. of properties	Western Sub. No. of properties	Eastern Sub. No. of properties	Total
Below Rs. 200	9,864	24,085	13,734	47,683
Between Rs. 201/- to 300/-	3,992	7,256	4,892	16,140
Between Rs. 301/- to 400/-	3,708	6,148	4,028	13,884
Between Rs. 401/- to 500/-	2,833	4,682	2,912	10,427
Between Rs. 501/- to 750/-	3,843	8,067	5,968	17,878
Between Rs. 751/- to 1,000/-	2,629	5,391	3,749	11,769
Between Rs. 1,001/- to 1,500/-	4,148	7,735	4,870	16,753
Between Rs. 1,501/- to 2,000/-	3,160	4,612	3,182	10,954
Between Rs. 2,001/- to 5,000/-	9,819	12,987	7,691	30,497
Between Rs. 5,001/- to 10,000/-	6,985	5,996	3,570	16,551
Between Rs. 10,001/- to 20,000/-	5,044	6,642	3,012	14,698
Between Rs. 20,001/- to 30,000/-	1,735	3,447	1,426	6,608
Between Rs. 30,001/- to 40,000/-	905	2,074	830	3,809
Between Rs. 40,001/- to 50,000/-	660	1,294	470	2,424
Between Rs. 50,001/- to 1,00,000/-	1,500	2,653	878	5,031
Between Rs. 1,00,001/- to 1,50,000/-	598	678	254	1,530
Between Rs. 1,50,001/- to 2,00,000/-	333	293	92	718
Between Rs. 2,00,001/- to 2,50,000/-	179	166	61	406
Between Rs. 2,50,001/- to 3,00,000/-	143	102	30	275
Between Rs. 3,00,001/- & Above	484	208	71	763
Total	62,562	1,04,516	61,720	2,28,798

M. R. Prabhu  
A & C

## Education Department

Under Section 61(L) of the Bombay Municipal Corporation Act, it is incumbent on the Corporation to provide primary Education to the children of school going age between 6 to 11 years and this responsibility is being carried out by the Education Department of the Corporation right from 1907.

In addition to the primary Education, the Corporation also run a few Secondary schools since 1965 just to give a helping hand to the State Government.

The entire supervision and administration of Education Department was carried out by the Education Officer, Smt. Sudha Pandit, M. A., B.T., M. Ed., E.B.S.(U.S.A.) up to 31-1-87, Shri Pandurang D. Bhure (for leave period of Education Officer *i.e.*, from 19-5-1986 to 31-5-1986 and Dr. (Smt.) Satyaprabha V. Desai, B.A. (Hon.) B. T. M. A. (London) M.Ed., P.hd. (Bombay) from 1-2-1987 as the Head of the department with assistance of officers on academic side as well as the Administrative staff.

### School Premises

In order to meet the ever increasing Educational needs of all the children, the Corporation has planned a programme of construction of school buildings at various places. The position of the school premises is shown in the statement given below :—

	As on 31st March 1986		As on 31st March 1987	
	No. of schools premises	No. of schools conducted	No. of schools Premises	No. of schools conducted
(1) Municipal owned.	311	961	311	968
(2) Rented building.	347	330	345	328
(3) Rent free.	27	29	27	29
<b>Total</b>	<b>685</b>	<b>1320</b>	<b>683</b>	<b>1325</b>

The construction of additional class-rooms in the existing Building whenever possible has helped in reducing the congestion in the class rooms.

### Teachers

Every year, the Department has to recruit teachers due to increase in the number of students as also for those who are superannuated, retired, resigned and/or expired.

### Private Primary Schools

In addition to our own Municipal schools, the Department controls private primary schools by way of giving them recognition and grant-in-aid. The number of students in private primary schools is also increasing.

### Special Education

In addition to the normal school children the Corporation conduct special education classes especially for the mentally retarded children and to centres for the Deaf and the dumb are also run with assistance of B. Y. L. Nair Charitable Hospital and L. T. M. G. hospital. The position of the classes held and the pupils benefitted are given as below :—

Information as on 31-3-1987

Medium	No. of classes	No. of divisions	No. of teachers	No. of children	Average attendance
Marathi, Gujarati, Hindi, English.	15	34	34	532	397

### Information regarding Junior Colleges of Education

In addition to the primary schools, the department conducts two Junior Colleges of Education for Urdu Teaching one each for male and females at Mahim and Imamwada respectively.

	No. of students	1st year D. Ed.	2nd year D. Ed.	Teaching staff. Principal/one
1. Municipal Urdu teachers Junior College of Education, Mahim.	78	42	36	1) Head teacher 2) Full time Instructors— 4 3) Part time instructor for physical education—1. 4) Spl. Teachers—4.
2. Junior College of Education, Imamwada.	258	127	131	1 Principal 2 Full time Instructors—14. 3 Part time. Instructors for physical education — 1 4 Spl. teachers for teaching subject viz, sewing, drawing, Music, Marathi etc—4.

The different activities of the department organised through the different Section.

Name of Section	Activity	No. of Participants Beneficiaries.
1	2	3
1. Sr. Sup. Phy. Inst.	(1) Physical Train-Institute.  Drill Competitions Games —" Annual sports. Sports for mentally retarded children. Mass Drill. Wrestling competi.	279 teachers completed the training in 3 batches from June 1986 to March 1987. 12,335 students. 6,216 students. 95,773 students.  263 students. 1,30,000 students. 1,050 students.

Name of Section	Activity	No. of participants Beneficiaries.
1	2	3
	R. S. P. Units.	Total Units 70
		Pupils 3360
		Instructors 70
	A camp was conducted Training was given with the help of Police personnel.	Participants including Trs. 324
	Scout/Guide Activities.	Cub. Masters 142
		Cubs 2840
		Scout Masters 4124
		Scouts 2976
		Flock
		Leaders 111
		Bulbuls 2220
		Guide
		Captains 110
		Guides 2640
	Mansoon Hikes	72 Trs./Officers.
	Revision course	30 officers.
	Patrol Leader Trg. Comp.	1218 Scout/Guide teachers.
	Cub/Bulbul Excursion.	1476 —do—
	Patrol Hikes	1000 —do—
	Judes Trg. Camp.	129 Trs. & Officers Incharges.
	Social service Project.	1560 including students trs. & officers.
	Scout/Guide festival.	1508 —do—
	S/G Sports & Rallies	11652 —do—
	25th Presidents S/G Rally.	17 —do—
	Asia pacific Jambore at Hyderabad.	38 —do—
	State Jamboree at Akola.	105 —do—
Bal Bhavan Centres. (No. of Bal Bhavans : 47	Programmes : Organising different different games, handicrafts, drawing painting, folk songs, dramatic, elevation etc., and other programmes at all centres after school hours.	45 centres. 1780 participants.
Audio Visual Section.	Schools <sup>n</sup>	850
	No. of film shows	2537
	No. of students benefitted.	4,17,630
Teaching Aid centres.	Teaching Aid Centre prepared different Teaching Aids	1 centre — 300 Trs.
	Mobile Teaching Aid centres	1000
	Prepared different Teaching Aids	12 Centres — 247 participants
Teaching Aid Centre.	Printing Section of Teaching Aid Centre printed different books and different invitation cards for all the activities of the department for its programme etc., and different types of functions.	3,705 nos.
		5,00,000
Teachers Library.	Centres	3
	Members	11,880
	books.	79,713

## Language Development Project— (April 1986 to March 1987).

Activities of the language Development Project were carried out in the following broad areas.

1. Teacher Training.
2. Production of instructional material.
3. Research and Evaluation.

These around were covered in respect of five languages namely English, Marathi, Hindi, Gujarati and Urdu.

### Teacher Training

Teacher training is an important activity at the project centre during the year 1986-87. Training programmes, workshops orientation lectures and seminars were held both in the area of English language teaching and mother-tongue teaching.

#### Department of English

A third correspondence-cum-contact Course in English which is of 8 months duration was carried to a successful completion. 64 teachers appeared for the final examination of this course which was held in the month of June 1986. A function was held for the distribution of certificates to the successful teacher trainees who had passed the final examination certificate were distributed to 61 successful teacher trainees.

The fourth Correspondence-cum-Contact Course was conducted during the year 1986-87. 85 teachers teaching English in Municipal schools situated all over Bombay were enrolled for this course. The contact sessions were held throughout the year and the final examination for this course will be held in July 1987. During contact sessions, the teacher trainees were exposed to language laboratory experiences and a number of films, video films, slides and film-strips were shown to the teacher trainees.

During the year the teacher trainees in several Junior colleges of Education visited the Language Development Project and observed the working of Language Laboratory. About 250 teacher trainees from Tarabai Modak Adhyapan Vidyalaya and Ramabai Navrange Junior College of Education visited the Language Laboratory. 77 teacher trainees from Rambai Navrange Junior college of Education completed a five hour course in spoken English (prepared by the L.D.P.) on payment of Rs. 25/- teacher trainee.

A foundation course in English was held during vacations in May and October 1986. Nearly 175 teachers who had not offered English at the S. S. C. level were given basic training in English. They were tested at the end of the course and the results were sent to their respective wards.

About 160 students studying in Std. VIII in nearby Municipal Secondary School were called to the project centre, once a fortnight and given a spoken English course.

The dissemination centre in the city was strengthened. About 60 teachers teaching English in the city schools, met at the project centre every month and were exposed to various audiovisual experiences in English.

#### Mother-Tongue-Department

Orientation workshops were organised in Marathi, Hindi, Urdu and Gujarati to introduce the newly published text-book of Std. VII, published by Maharashtra State Bureau of text-books and renowned poets, prose-writers and critics in the respective languages were invited as resource persons. Poets like Shri Mangesh Padgaonkar, Shri Narayan Surve, Dr. Suresh Dalal, Shri Suren Thakkar and prose writers like Dr. Sarojini Vaidya, Shri Ghanshyam Desai, Shri Vinod Bodre etc. were invited as resource persons for these workshops.

A one-day workshop was organised on stage craft and Smt. Sudha Karnarkar and Shri Namdeo Lahute participated in the workshop. Meetings of teachers were held at different centres in the city for guidance on the text book of Std. VII in Hindi and on composition writing in Std. IV in Marathi. Wooden cutouts useful for the increase in the vocabulary of students of Std. I were distributed to 40 schools. A dissemination centre has been opened at Shindewadi school where teachers teaching Marathi meet every month. Demonstration lessons and guidance lectures are arranged at the centre by the Marathi Department. A course in functional Marathi for non-Marathi speakers is prepared and being tried out in various non-Marathi schools.

#### Material Production :

The following publications have been printed and distributed to the schools :—

- (1) Talika Sangrah

(A book of substitution tables in Marathi for Std. I).

- (2) (Research study on composition for Std. IV). शोध लेखनाचा
- (3) (A dialect study) कुंची किंवा एक अभ्यास
- (4) 150 Supplementary reading cards are prepared for Std. IV to VII with a view to create interest in reading.
- (5) A book of stories for supplementary reading for students of Std. I and II was prepared in Gujarati.
- (6) Teachers guides based on the text books of Std. IV were prepared in Hindi and Urdu.
- (7) A teachers guide for teachers of Std. VII and a booklet on compound word were prepared in Urdu.

Audio cassettes of poems in Std. IV were recorded and prepared in Marathi, Hindi, Gujarati and Urdu. Poems based on the Bal-Bharati of Std. V, VI and VII are recorded and prepared in Marathi and the daily prayers for Std. I and II are recorded and distributed in Marathi schools.

Two video cassettes on demonstration lessons in English were purchased from RELC, Singapore by the officers on deputation.

#### Research and Evaluation :

Two small action research projects on the following subjects were taken up and 4 schools were involved :

- I Improvement of Hand writing in 2 Marathi schools.
- II Writing of Composition in 2 Hindi schools.

The project of construction and listening, reading and speaking-tests for Stds. I, II, III and IV were taken up in Hindi and Marathi. The constructed tests were discussed in a 4-day workshop on evaluation and the final tests will be ready for printing, after modifications.

A 2-week workshop on the preparation of tasks for functional English was organised and two experts on communicative English were invited as resource persons.

#### Other activities.

Forty cassette-tape-recorders were purchased for use in schools and about twenty are distributed to language Superintendents and project schools.

A number books in different languages were purchased for the library and a number of books were donated to the L. D. P. Library by Orient Longman Press in Singapore.

#### Important Events at the L. D. P.

1. Shri S. S. Tinaikar, Municipal Commissioner, visited the L.D.P., visited the library, the audio-visual studio and the language laboratory and distributed certificates to the successful teacher-trainees of the Correspondence-cum-Contact Course in English. He also distributed the cassette recorders to Superintendents of various languages for use in their divisions.

2. Shri Ajit Warty, Addl. Municipal Commissioner (W) visited L.D.P. and took a meeting with C. A. and D. A. E. F. regarding certain proposals.

3. Dr. Tom Kissinger, representative Ford Foundation in India visited the L. D. P. and got acquainted with all the activities of the L. D. P.

4. Shri S. S. Tinaikar, Municipal Commissioner, Shri Ajit Warty Addl. Municipal Commissioner (W), Shri Sidhaye, H.O. and other officers met in the L. D. P. library and discussed the future activities of the L. D. P.

5. Smt. Sudha Pandit, E. O. and Smt. Laxmi Dhawan, A. O. (S) L. D. P. visited Regional English Language Centre at Singapore to attend a 2-week attachment programme.

6. Smt. Panna Adavaryu, Superintendent, L. D. P. attended a 2-week seminar at Jaipur organised by British Council Division, Madras.

7. Smt. Panna Adavaryu, Superintendent, L. D. P. participated in the seminar on "writing skills" and gave a lecture on "Innovations in the writing of students of primary schools".

8. Smt. Adavaryu, Supdt., L. D. P., acted as a resource person in the workshop organised for parents of Shishuvihar School at Dadar during their Golden Jubili Celebrations.

9. Shri R. W. Paranjape, Inspector Schools and Smt. Laxmi Dhawan, A. O. (S), L. D. P. participated in the annual conference of the World Education Fellowship.



### Administrative Report of Music Wing

Sr. No.	Educational & Other activities.	Music Activities	Singing song of 'Vande Mataran' in the several programme organised at Corporation level & employees of the Music Academy participated the same.
1.	Training classes for Music 466 ordinary trs. took part in VI sessions of Music, Dance & Dram.	1) Music Competitions of Muni. school children were organised. About 2890 pupils & 150 trs. from 443 schools were participated in it	1) 29-4-86 Inter-case marriage couples reception 2) 1-5-86 Maharashtra Day.
2.	Given Training to Spl. Music trs. in two batches. 44 Spl. Music trs. took advantage of it.	2) Work of arrange music competitions from 9-12-86 to 12-12-86.	3) 8-5-86 Seminar re; New Educational Policy. 4) 10-5-86 Shiv Jayanti.
3.	Arranged Seminar & Gathering programme for Music teachers About 350 Music Teachers participated in the said programme.	3) Balkotsava of Gun. Vikas Centres from 23-1-87. About 26 pupils participated in this Comptt.	5) 25-7-86 Reception of First 10 students of S. S. C. Exam. Celebration of Exm. Muni. Commissioner Shri B. G. Deshmukh by the Mayor. 6) 30-7-86 Seminar of Sister cities India Rasia.
4.	Arranged Tape Recording at Language development Project for Std. III & IV.	4) Participated in Inter-ward Drama Competitions and present of Drama on 12-3-87.	7) 7-8-86 Independence Day. 8) 8-8-86 Celebration of Dr. Parulekar, Dr. Aahuja. 9) 15-8-86 Trs. Day National Tra. Prizes. 10) 29-8-86 Programme of Devotional Songs. 11) 5-9-86 Prgramme of All India Marathi Sammelan.
5.	Arranged "Gun Vikas Music Centres" at 5 different centres.		12) 25-10-86 Civic Celebration of Shri Vasantdada Patil. 13) 25-10-86 Republican Day. 14) 13-11-86 Harit Cranti programme— 15) 26-1-87 Prize distribution function of the winner. 16) 18-3-87 Programme at Mayor's Residence.
6.	Given Training to 5 Music Trs. at every months end re. Music & Dance. About 225 Music Trs. took advantage of it.		
7.	Arranged a meeting of Spl. trs. & centres Incharge from 16-10-86 to 17-10-86. 29 Spl. Trs. took part in this meeting.		
8.	Arranged Lecture-cum-Demonstration of Shri Ram Kadam & Shri Vidyadhar Vyas on 30 & 31-1-87 Respectively. About 300 trs. were present at each demonstration.		

### Music Art Accademy. Administrative Report of Art Wing

#### Educational Activities.

- 1) Given Training in Art to 300 ordinary teachers attending 5 weeks Inservice Training Centre.
- 2) Given valuable guidance regarding Art Examination of high level to 25 art teachers.
- 3) Given valuable guidance to 30-35 art teachers regarding grade art examination.

#### Education & Other Activities

- 1) Given possible co-operation to art teachers for Child Art Competitions.
- 2) Given co-operation to "Sangeed Sabha" to arrange an Art Exhibition at Birla Kreedha Kendra.
- 3) Given training to Special art teachers regarding New Educational Project.
- 4) Given co-operation to arrange an art exhibition.
- 5) Prepared folders & certificates for students of Inservice Training Class.

#### Key school project

There is a key school centre almost in all the wards and senior officers are incharge of the centre. According to the test and aptitude of the pupils different courses are prescribed for the pupils and the training is being given by the expert teachers of language Music, instrument Music Drawing, Maths. Work done by the Research Unit during the year 1986-87.

**Research Projects undertaken—**

1. A comparative study of the reduction in the rate of drop-outs of children due to the efforts of schools social workers and the efforts of the Head teacher and his/her staff.
2. A study of the psychological disorders of Std. V Municipal school children.
3. Started an analytical study of the "Entry Books" filled in by the staff of the Municipal primary schools.

**Material prepared.**

1. Prepared a teachers guide to guide the Municipal school teachers in how to teach Std. II children through a new approach developed through NMESS (Nutrition, health, education and environmental study) project conducted through State Govt.
2. Prepared worksheets in Mathematics in 3 grades (A. B. C.) for the gifted children of the key schools.
3. Prepared practical activity cards in Science in grades (A. B. C) for the gifted children of the Key schools — with answer.

**Miscellaneous work**

1. Organised and put up on exhibition of charts in Marathi and of Models on "The new National Policy on Education" as a part of Balkotsav.

Arranged an exhibition of charts in English and of Models on "The New National Policy on Education" at 33rd World Education Fellowship International Conference at Gujarat Society Khar, Bombay.

2. Conducted a test in Mathematics for teachers who have passed S. S. C. without Mathematics as one of the subjects on about 375 Municipal Primary teachers.
3. Started preparation of a new teacher recruitment test in science and Mathematics.
4. Administered teacher recruitment test on about 1200 new recruits of Marathi, Hindi, Urdu, Tamil, Telugu and English languages.

Schools social Service Project including Non-formal education with a view to restrict the rate of drop outs in the Municipal Schools, the social centres were launched in the year 1980. The International year of the child.

During the year under report, the following are the highlights of the work done by social service centres. The total child population served is 72,270. In the area of drop out problem. Out of 2,804 cases 1,404 children were brought back the school successfully.

The total number of 1,374 Malnourished, poverty-stricken children and also those suffering from chronic diseases were given supplementary nutritious food through philanthropic organisations.

The children suffering from behaviour and psychological programme successfully handled were 295 children suffering from various types of Medical problems i.e., T. B. Scabies, E. N. T. etc. were 884 who benefited from social service centres.

through the various schemes like material Aid, sponsorship, Financial Assistance, loan, 1956 children belonging to poverty stricken families were helped prevented from dropping out of schools.

With the view of prevention of potential drop-outs and various child problems in relation to the family school system and slum community, the projects such as balwadi, study-centres, therapeutic group works, medical camps, leadership camps, competitions, vocational guidance and training programmes. Day camps, Recreation centres, Anand Malas etc. were conducted. The total beneficiaries were 48,563.

The importance of parent Role in sound all-round development of children is vital and to create this awareness and strengthen this role, various Educational meetings and programmes were held in which 4861 parents participated through various medias e.g. film shows, slide-shows, demonstrations, talks, discussions, visits exhibitions in the area of health & Hygiene, social problems, Alcoholism and Drug application family budgeting low cast nutrition, importance of education, non-formal adult education programme, and housing problems, the parents were educated.

With the view to bring back to the field of education, school-drop-outs as also the non-entrances, the Education Department started non-formal Education Centres for children within the age-ground of 9-14 years. Some of these centres impart only academic education whereas some include vocational training too.

Every year students appear for regular Annual Exams. and result have been very encouraging. During the year under report 207 benefitted through this programme. Out of 98 pupils have appeared for examination out of which 68 pupils have succeeded in this examination.

Thus this project has greatly benefited the education department towards fulfilling its goals.

#### School Health Service for the year 1986-87 (June to April 1987).

During the year, 2,93,095 children were examined in 1185 primary Municipal Schools, 27,742 children were examined in 47 secondary Municipal schools, 2,97,707 children were found defectives. Total defects noted among the children were 6,80,978. 5408 cases were treated at the Municipal General Dispensaries. 98,264 (New & Old) cases were treated at the school clinics.

7258 children were referred to the out patient department of Municipal General Hospital for experts opinion. 206 Toncils operations were performed at the school clinics, 490 children were supplied with spectacles, 22 children were supplied with special aid, such as calipers. 751 cases of leprosy and 533 of Tuberculosis were referred to the special clinics for investigation and treatment.

#### Major Defects Noticed were as under :—

Major defects	Percentage	Major defects	Percentage
Dental	55.15%	Lungs & Tuberculosis.	1.23%
Throat	10.10%	Spikan	0.001%
Nose	12.09%	Skin	5.56%
Eye (External Disease)	1.57%	Detormity of Bones	2.52%
Eye (vision)	1.36%	General dbility.	28.00%
Ear (Disases)	4.10%	Other diseases	6.60%
Lymphthatic	26.61%	Vitamin Deficiency	13.59%
Heart & circulation	0.29%		

Health Education was imparted to about 40.180 parents and Teachers, 14.50% domicliary visits and Revisits were paid. Health parade, Health Ministry and Health Trophy competitions were arranged in schools in A, E, D, F/S, F/N, H/E, H/W, K/E, M, N, S Wards with a view to inclulcate health habits among the children

#### Immunization work done as under :—

Diphtheria and tetanus	1st Dose	99,303
—do—	IInd dose	75,148
T.A.B.		2,27,687

The Medical examination in Municipal schools were also carried out by :

1. Child Welfare at J. J. Group of Hospitals.
2. Departmental of Prevéntive Social T. N. M. college.
3. L. T. M. G. College.
4. K. E. M. Hospital.
5. Mobile Health Unit, Parel.

### Elocution competitions

As per past a practice of last year, this year also spontaneous elocution competitions have been arranged for std. V to VII students and about 3375 students have participated in this competitions.

About 56 thousand students from various language schools participated in the elocution competition the details of the same are as follows :—

Language	No. of Schools	No. of Students
Marathi	571	45675
Urdu	221	6235
Gujarathi.	166	1015
Hindi	183	937
South Indian	147	25000
	1288	56362

### Drawing competitions :

This year also the drawing competitions have been arranged in all A.O.(S)'s in November 1986. About 19 thousand students of all language groups participated in this competition.

According to age all students divided in to 4 groups. 20 drawings were selected from the groups (*i.e.*, 5 drawings from each group).

### Scholarship

Performance report of scholarship examination of Municipal schools children is as below :—

No of pupils appeared in examination.		More than 60% marks in scholarship exam.		No. of pupils obtained scholarship.	
Primary	Secondary	Primary	Secondary	Primary	Secondary
2434	1640	91	165	3	1

### Seminar at Beat level

The performance Report of Teachers' and Head Teachers' Seminars held on 1986-87.

The educational seminars for the teachers and the Head Teachers are held annually for all language schools. The teachers' seminars are held beatwise by the Inspectors and the Head Teachers' Seminars by the Superintendents on language basis.

The objective are :

1. To improve the professional of the teacher.
2. To help the teachers to come together and have a free exchange of views on educational topics.
3. To make available the knowledge of experts in the field of education by inviting them as resource persons to the Teachers' Seminars.

The topics for this year's Teachers Seminars were mostly chosen from the current educational issues such as National educational policy, population education, value education etc.

The particulars of the seminars are given below :—

Sr. No.	Language	Total seminars	Total trs. participants	Total resource persons.
(1)	Marathi	23	6620	62
(2)	Gujarati	7	670	8
(3)	Urdu	6	1575	19
(4)	Hindi	7	725	13
(5)	South Indian Englsh Primary and Sindhi	5	745	11
(6)	Private Pri, sch.	3	500	3

### Balkotsav

As usual, during Balkotsav, cultural programme, Dramatic competitions and Folk Dance etc., were arranged. More than 11 thousand students and 2,020 teachers participated in this programmes which were enjoyed by 22,350 Parents. End of the programmes prizes also has given to 2,755 prize winners students and 38 prize winner teachers. The performance was very such appreciated.

### Secondary Education

The Municipal Corporation of Greater Mumbai has undertaken the activities of Secondary education since 1965.

Though it is not an obligatory duty of the Corporation has undertaken this activity has undertaken purely with a view to meet the needs of children from low income group and also to supplement the efforts of private schools.

No. of secondary schools	—	51
No. of classes	—	1661
No. of students	—	78263
Total no of teaching staff.	—	2500

### Different Activities

To improve the S. S. C. result additional study classes were conducted for all the students studying in Std. X, and special classes for the brighter students by inviting expert educationalist from outside the Corporation. Sets of question paers in various languages were prepared and circuclated to the schools for the benefit of S. S. C. Students.

Result of S. S. C. examination of Municipal Secondary schools.

Year	Total result i.e. the no. of students approved of passed.	Percentage of passing.	No. of students security more than 10% marks.
1986	9318/3540	38	209
1987	9235/3664	39.68	297

### School Social Service Project.

In 1979 the international year of the child, the Bombay Municipal Corporation decided to establish 17 Social Services Centres in the Municipal Schools with collaboration of Nirmala Niketan as Grant-in-aid project. This project served the children in some of the poorest and most deprived slums area in the Bombay City.

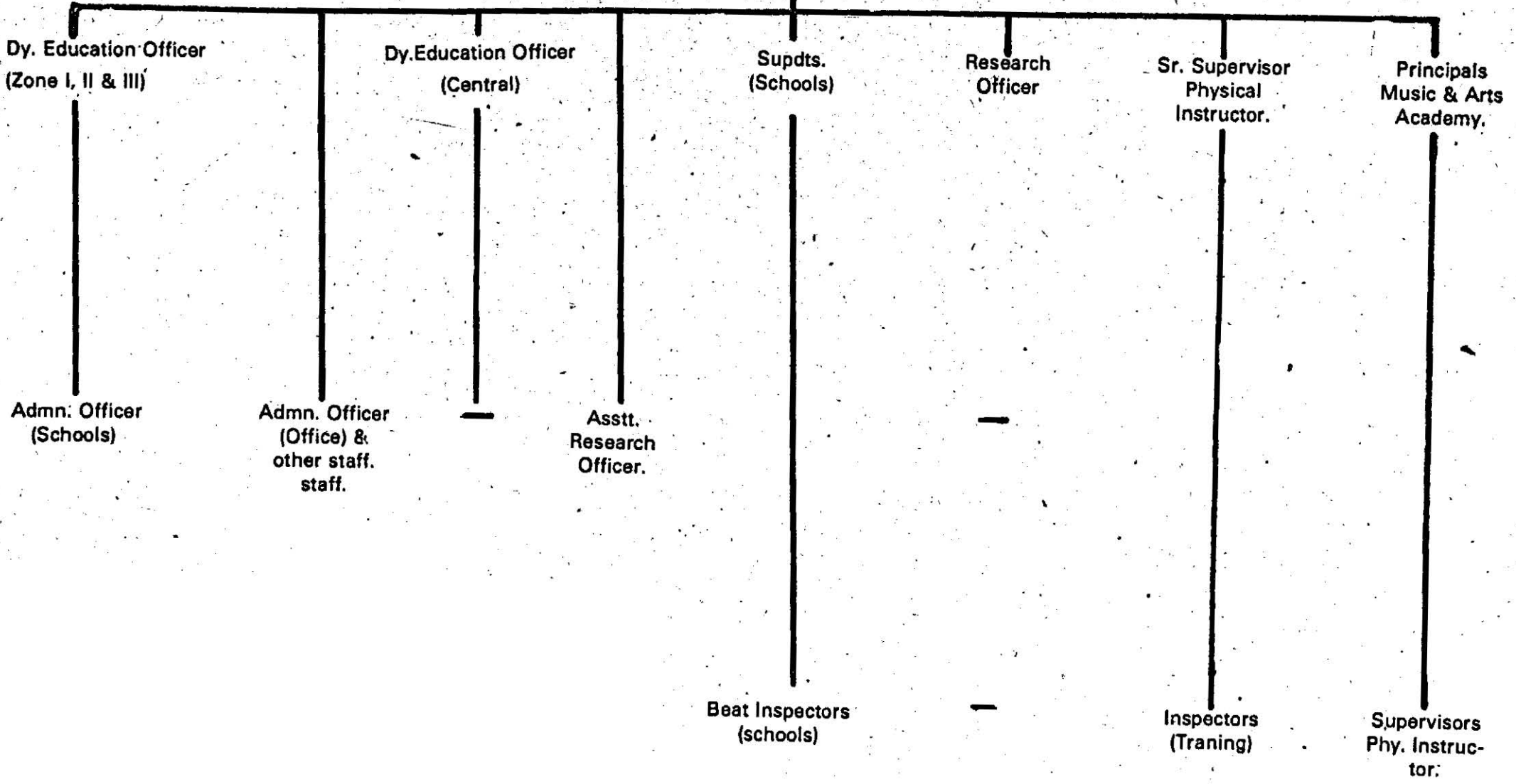
In February 1986 the project was merged in Bombay Municipal Corporation, Education Department.

The focus of activities in the school is (1) To bring back dropouts. (2) Enrollment of the compulsory age group children in Municipal school. (3) To create a school enviornment conclusive to the child's earning and growth and to prevent potential dropouts (4) To solve their individual and familiar problem.

Many activities are undertaken to develop the talents of the child and leadership training, all of which make the school an attractive place for the child, which helps to prevent potential dropouts. Nutritian programmes, Health exhibition, various competitions, Sports, Day-camp, Parents education, Science projects, Educational visits etc. have been conducted by the School Social Workers.

School Social Workers also works in the surrounding community which helps to bridge the gap between the slums community from where the child come to the school.

**Organizational Chart  
Education Officer**



A statement showing the no. of Municipal Schools, Pupils & Teachers as on 31st March 1987.

Sr. No.	Language	City				Suburbs				Ext. Suburbs			
		Schools	Classes	Pupils	Trs.	Schools	Classes	Pupils	Trs.	Schools	Classes	Pupils	Trs.
1.	Marathi	248	1	123655	3515	200	1	155209	3657	120	2	89328	2299
2.	Tamil	13	2	6161	156	14	1	5107	118	12	1	4541	117
3.	Telugu	19	1	7057	186	12	3	2860	63	8	4	2105	57
4.	Kannada	14	3	3198	106	23	2	5380	189	9	5	3057	109
5.	Malayalam	—	—	—	—	—	1	22	5	—	—	—	—
6.	Gujarati	60	—	12416	352	54	2	15291	440	47	2	18660	554
7.	Hindi	55	2	25770	592	76	2	44629	984	47	1	31257	678
8.	English	19	1	5583	157	12	—	3667	106	6	—	2332	51
9.	Urdu	102	3	39444	1019	85	3	57303	1326	25	2	12477	312
10.	Sindhi	—	—	—	—	1	—	39	6	1	—	63	6
Total		530	13	224284	6083	477	15	289507	6892	275	15	163798	4183

A statement showing the numbers of private primary schools and pupils as on 31st March 1987.

Sr. No.	Language	City				Suburbs				Ext. Suburbs			
		Recognised		Aided		Recognised		Aided		Recognised		Aided	
		School	Students	School	Students	School	Students	School	Students	School	Students	School	Students
1.	Marathi	25	14148	36	13066	25	10352	52	23550	78	3645	27	10153
2.	Gujarati	27	5477	24	5386	20	12302	19	13175	16	9952	26	16886
3.	Hindi	3	1160	10	5632	4	2005	12	4519	3	1682	9	3676
4.	English	142	61916	30	12292	160	66397	33	15036	75	30115	7	4532
5.	Urdu	3	1029	10	4770	6	1068	5	697	—	—	—	—
6.	Kannada	1	22	5	342	—	—	—	—	—	—	1	139
7.	Tamil	1	195	1	583	—	—	—	—	1	393	—	—
8.	Malayalam	—	—	1	423	—	—	—	—	1	150	—	—
Total		202	83947	117	42494	215	92124	121	56977	103	45937	70	35386

## List of Municipal Award Winning Teachers for 1986 — 1987.

Sr. No.	Name of Teacher	Designation	Name of the school
1	Smt. Phatak Prabhavati Manohar.	Head Teacher	Bhavani Shankar Rd., Vhoke Marathi school.
2	Shri Chaphekar Narkar Ramchandra.	—"	Powai Municipal Marathi U. P. School No. 1.
3	Smt. Karkhanees Pramod Trimbak.	—"	Chembur Mun. U.P. Prath. Sch. No. 1.
4	Smt. Chikodikar Meena Vasant.	—"	Kajupada Mun. Mar. School No. 2.
5	Shri Mohamed Zameer Khan . Mohammed S. Khan.	—"	Tagoor Nagar Mun. Urdu School No. 1.
6	Shri Shaikh Ahmed Mohammed Jafar Malde.	—"	Kher Nagar Mun. Urdu School.
7	Shri Tripathi Rajnani Satyadev.	—"	Jawahar Nagar Mun. Hindi school.
8	Shri Tiwari Rajnani Shyamcharan.	—"	Bajaj Rd. Mu. Hindi school.
9	Smt. Khandwala Suman Shirish.	—"	New Shanti Nagar Guj. U. P. school.
10	Smt. J. Pakiya Jyoti	—"	Kings's circle Mun. Tamil school.
11	Smt. Joshi Vidya Ganesh.	—"	Vile Parle (E) Mun. Machyanik sch.
12	Smt. Dabbe Usha Ramkrishna.	—"	Prabhadevi Mun. Machyanik school.
13	Smt. Purandare Prema Madhusudan.	—"	Prathana Samaj Rd. Mar. Sch., Parle.
14	Smt. Ganu Sarita Madhav.	—"	Savidayalaya Pratha. Mar. Sch. Borivli.
15	Smt. Dandekar Mandakini Madhukar	—"	Aryan Edu. So.'s Pratha. Sch. Girgaum.
16	Smt. R. Rajlaxmi.	—"	Pupils Welfare So.'s Eng. Sch., Shiv.
17	Smt. Sathe Usha Arvind.	—"	Bal Vikas Sangh Pratha. Mar. Sch.
18	Shri Mhatre Maruti Narayan.	—"	Amar Kaur Mar. Vidyalaya, Bhandup.
19	Smt. Dahke Anjali Ashok.	Dy. Head Tr.	Keshavrao Kadam Marg, Vhoke Mar. School.
20	Shri Acharya Surendranath Rangnath.	—"	Jadheru Mun. Mar. U. P. Sch. No. 1.
21	Shri Vanmali Nathuram Baburao.	—"	Gandhi Nagar Mun. Mar. School.
22	Smt. Chiplunkar Suman Keshav.	—"	Dharavi X Rd. Mun. Kannad school.
23	Shri Patil Magan Krushna.	Trained Tr.	Talchekar Wadi U. P. Mar. Sch. No. 1.
24	Shri Panshikar Manohar Keshav.	—"	Zakeria Bunder Mar. school.
25	Shri Joshi Shrichar Narayan.	—"	Mahim Mori Rd. Marathi Sch. No. 1.
26	Shri Chudhary Shantaram Ichharam.	Trained Tr.	Tagoor Mun. Mar. U. P. Sch. No. 2.
27	Shri Jadhav Raghunath Gopal.	—"	Panth Nagar Mun. Mar. U. P. Sch. No. 2.
28	Smt. Deodhar Pratibha Dinkar.	—"	Parel Bhoiwada X Rd. Mun. Mar. U. P. school.
29	Shri Mohammed Ishak Mohammed Madan Patel.	—"	Oshivara Mun. Urdu school.
30	Smt. Dharmashi Damayanti Khotshi.	—"	Ratanbai Mun. Guj. school.
31	Smt. Jog Memlata Gajanan	Music Tr.	Goshala Marg Mun. Mar. Sch. No. 2
32	Smt. Bharucha Hillaben Feroz.	Craft Tr.	Parel Poibawadi Mun. Guj. school.



## PUBLIC HEALTH

### HIGH LIGHTS

#### Expenditure :

(1) Maternity and Child Welfare Centres.	... Rs. 2,42,90,696
(2) Pre-School and School Health Services.	... Rs. 54,15,639
(3) Prevention and Control of Infectious Disease, etc.	... Rs. 5,36,51,338

#### INCOME

Issue of licences, certificates of Births, Deaths, etc.	... Rs. 81,98,382
Control of Food Adulteration.	
Samples under P. F. A. Act	... 1765
Adulterated.	... 39
Prosecutions.	... 15
Fines realised	... Nil

Food Establishments.	Eating Houses.	Bakeries.
Grade I	593	6
Grade II	923	8
Grade III	4012	487
Without Grade.	—Nil	Nil
<b>Total</b>	<b>5528</b>	<b>501</b>

### HYGIENE

#### Maternity and Child Welfare Services :

	Maternity Homes.	Maternity Wards.	Maternity & Child Welfare Centres.
	25	11	39
Deliveries conducted.	34,455	34,169	—
Cases treated at Clinics.	—	—	6,82,898

#### Family Welfare Centres.

I. U. C. D. insertions.	9,250
Vasectomy Operations.	3,106
Tubectomy Operations.	15,467
Condoms distributed free.	7,45,744
<b>Dispensaries.</b>	
149	<b>Mobile Dispensaries.</b>
	7 (Munl.)

#### Municipal Laboratory.

Total samples received.	Water samples.	Samples found unfit for potable purposes.
49,183	27,340	3,516

## Municipal Hospitals.

	Indoor	Outdoor
1) Eye Hospital, Kamathupura.		
i) New Cases.	2,127	26,631
ii) Total attendance.	19,698	56,783
2) 13 Municipal General Hospitals under Executive Health Officer.		
i) New cases.	1,51,092	12,22,104
ii) Total attendance.	7,21,594	42,70,255
3) Kasturba Hospital for Infectious Diseases.		
Total beds.	680	
Admissions.	18,306	

## Outside Activities.

The following Medical Institutions and Cemetery were newly opened.

- (1) Valnai Municipal General dispensary, Orlem, Malad (West).
- (2) Marol Municipal Maternity Home, Marol, Andheri (East).
- (3) Chitta Camp Municipal Maternity Home, Trombay.
- (4) Squatter Colony Municipal Maternity Home, Jogeshwari (East).
- (5) Kailashbhoomi Hindu Cemetery, Barve Nagar, Ghatkopar.

## STATISTICS FOR THE YEAR 1986

	City	Suburbs	Ext. Sub.	Gr. Bombay
1. Area of Greater Bombay (Municipal Corporation).	68.71	192.33	176.67	437.71
2. Density of Population as per Sq. Kms. (1981 Census)	47810	15983	10666	18833
3. Population Census of 1981.	3285040	3073981	1884384	8243405
4. Total Birth registered 1986.	72577	82419	57072	212078
5. Birth rate per 1000 population census 1981	22.09	26.81	30.28	25.72
Mid year estimated 1986.	18.46	22.41	25.32	21.64
6. Death registered in 1986.	32390	25454	14463	72307
7. Death rate per 1000 population census of 1981.	9.8	8.3	7.7	8.7
Mid year estimated 1986.	8.2	6.9	6.4	7.3
8. Total Deaths among infants (under 1 year).	4670	5025	2798	12493
9. Infant death rate per 1000 live births.	64.3	60.9	49.0	58.9
10. Maternal Deaths.	50	45	37	132
11. Maternal Death rate per 1000 live births.	0.7	0.5	0.6	0.6
12. Still births.	1920	2354	1965	6239
13. Plague, Cholera, Small Pox deaths.	—	—	—	—
14. Tuberculosis death.	3536	2081	1183	6800
Death Rate.	0.9	0.6	0.5	0.7
15. Acute Anterior Poliomyelitis Deaths.	75	58	42	175
Death Rate.	0.0	0.0	0.0	0.0
16. Diptheria Death.	7	6	1	14
Death rate.	0.0	0.0	0.0	0.0
17. Typhoid Deaths.	13	6	3	22
Death Rate.	0.0	0.0	0.0	0.0

## FOOD SANITATION AND PREVENTION OF FOOD ADULTERATION

Food sanitation comprises of Control and Supervision over the Food Premises, where articles of food are manufactured, stored and kept for sale. This control is exercised by imposing licence under the B.M.C. Act and the Maharashtra Prevention of Food Adulteration Rules, 1962. The Food Establishment are also controlled from the point of view of Prevention of Adulteration of food under the provision of the Prevention of Food Adulteration Act, 1954 and the Rules thereunder. In order to improve the standard of food, sanitation, eating houses and bakeries are classified as Grade I, II and III depending upon the compliance with the conditions of the licence and other measures taken to maintain cleanliness and sanitation in the various trade operations and in the trade premises.

There is also 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.

Details of Food articles destroyed being unfit for human consumption are as under :—

Solid articles of food including sweets (Kgs.)	Liquid food Lts.	Vegetables Kgs.	Fruits Doz.
1,82,633	1,77,400	31,082	50,855

### DESTRUCTION OF UNWHOLESOME FOOD :

Destruction of unwholesome food exposed for sale by hawkers and shopkeepers including those near Schools and markets is done under Section 415 to 417 of the Bombay Municipal Corporation Act, by special squads appointed for the purpose and by ward Inspectional staff to prevent food borne diseases such as Cholera, Typhoid, Infective Hepatitis, etc.

### REGISTRATION OF BIRTHS AND DEATHS :

The Registration of Births and Deaths Act, 1969, unified the system of registration throughout the country and made reporting and registration of births and deaths compulsory. This Act is implemented in the Greater Bombay from 1-1-1982 and has replaced the provisions of the Bombay Municipal Corporation Act. The Executive Health Officer is appointed as Registrar for Greater Bombay and all the Medical Officers of Health as Sub-Registrar for the respective Wards for the purpose of registration of births and deaths.

According to the Act the information of live births, still births and deaths is required to be given in prescribed forms to the Registrar within 14 days from the date of occurrence of the events. Newly born child can be registered free of charge within 12 months from the date of registration of birth and thereafter on payment of prescribed late fee and compounding charges.

The medical practitioners and Heads of the Medical Institutions are required to issue medical certificate of cause of death in form No. 8. These forms are supplied by the Medical Officers of Health in the respective Ward Offices.

The parents and guardians are advised to sign or put their thumb impression on the birth reports filled in at the Medical Institutions after verifying the correctness of the facts recorded in the said report so as to avoid any mistakes there in etc. Certificates of Birth and Death occurring in Greater Bombay is issued at the office of the Medical Officer of the ward concerned according to the residential address given in the birth or death report.

### Vital Statistics and Control of communicable diseases :

The statistics regarding Birth and Birth rate, Death and Death rate, infant mortality, infectious and communicable diseases immunization etc. are shown in the table at page 5 and 39.

### Anti — plague measure.

#### Rat Control Work :

Integrated rat control with the employment of combinations of different measures was planned and executed. Total number of rates caught and destroyed was 5,93,999. No rat was found plague infected.

Other anti-plague measures viz., fluea destruction, especially through cynogassing of rat holes and cleansing of areas was carried out.

**Cholera :** There was not case of Cholera. Preventive measures such as anti-cholera inoculations, disinfection of well water, destruction of over ripe and rotten fruits, were continued as routine measures. 1,38,170 person were inoculated against Cholera.

**Tuberculosis :** T. B. Control Unit continued its activities during the year. Majority of hidden cases have been brought on the register. During the year 21,842 T. B. cases were notified and deaths numbered 6800. Services of Health Visitors have been integrated with the services of Treatment Organisers working under Assistant Health Officer (T.B.) at F/South Municipal Ward Office, Parel, Bombay 400 012.

**E. C. G. Vaccination :** In view of the new policy for E. C. G. Vaccination in National T. B. Control Programme all the new born babies in Municipal and private maternity homes are being given Neo-natal B. C. G. vaccination. The drop-outs and the children upto the age of 2 years, who are born outside Bombay and living in Bombay are also being immunised with B. C. G. vaccination at the Maternity Homes or in the field.

As per the directives from the Directorate General of Health Services, B. C. G. vaccination in the Municipal Schools and revaccination is stopped.

Under the programme of B. C. G. Training, more nurses and Jr. Health Visitors are being trained in B. C. G. vaccination at the B. C. G. Training Centre, Rajawadi Hospital, Bombay.

**B. C. G. Camps :** To achieve more B. C. G. vaccination coverage among the children, more B. C. G. camps are being held in slums and such areas where there is no facility for B. C. G. vaccination nearby hutments.

#### **Sexuality Transmitted Diseases (V. D.) :**

At the Municipal Anti S. T. D. (V. D.) Clinic, S.T.D. Cases are treated confidentially with the latest methods of treatment after proper clinical diagnosis, confirmed by modern laboratory test carried out at the clinic's laboratory. Male and Female patients are examined and treated in separate wings of the clinic, maintained in absolute privacy and secrecy. In addition, a Medico-Social Department comprising of one Male Medico-Social Worker and one Female Medico-Social Worker and supplemented by Health Visitor (Auxiliary Nurse) render necessary medico-social service to the patients attending the clinic. This clinic is presently participating in AIDS screening programme.

S.T.D. Reference Laboratory situated at Kamathipura Maternity Home premises, undertakes Blood, V.D.R.L. and certification tests, Dark Ground, Illumination for Treponema Pallidum and extends facilities to patients referred by general medical practitioners and medical institutions free of charge.

#### **LEPROSY :**

Leprosy cases in Greater Bombay are treated at the out-patient clinics of the Acworth Leprosy Hospital and also at the 8 centres situated throughout Greater Bombay under the Greater Bombay Leprosy Control Scheme. The Corporation bears the expenditure of about 225 permanent beds out of 500 beds and 100 temporary beds at Acworth Leprosy Hospital. Due to repeal of Lepers Act 1898 from 26-1-1984, in Greater Bombay Corporation Area, the total expenditure of all the in-patients is provisionally being borne by Corporation. The Corporation also bears the cost of the out patients clinics at Acworth Leprosy Hospital and 50% cost of the recurring as well as capital expenditure of the Greater Bombay Leprosy Scheme. The Corporation had also sanctioned an *ad hoc* grant of Rs. Four lakhs to meet the expenditure of a new scheme of 'Detection & Control of the Leprosy cases in Greater Bombay' to intensify anti-leprosy work in Bombay.

**THE MOBILE HEALTH UNIT :** The Mobile Health Unit continued to perform its the following stipulated objectives during the year.

#### **(1) Comprehensive Health Care to the Municipal School Children.**

The Mobile Health Unit is working under the supervision of Assistant Health Officer (Epidemiologist) and undertaking Medical examination and immunization of school children and slums of Greater Bombay.

#### **(2) Control of communicable diseases.**

68,902 immunization procedures against various communicable diseases were performed both in the Municipal Schools and in the field (Table 12).

#### **(3) Health Drives and Family Planning Exhibition.**

In addition to the general health education performed and the mass immunization carried through its units, 252 health drives were carried out when 50,436 persons were immunized against measles, T. A. B., T. A. B. C., T. T., D. T. and Triple, including the administration of Polio vaccine and vit. A orally.

## VECTOR CONTROL.

Potential breeding places such as wells, cisterns, over head tanks, mill-tanks, storm water entrances and drains were checked periodically for detection and destruction of mosquitoes. Necessary anti-mosquito treatments were rendered to these situations and occurrence of mosquito breeding was destroyed as an anti-malaria measure.

**Mosquito Nuisance :** For controlling mosquitoes causing nuisance by breeding in large numbers, regular round of applications of insecticides were continued. Insecticidal fogging operations were also resorted to serve a dual purpose of anti-malaria and anti-mosquito operations.

**Precautions against yellow fever :** Campaigns against *Aedes Aegypti* the vector for Yellow Fever and dengue diseases was continued throughout the year. *Aedes Aegypti* breeding was detected on 331 occasions and stegemiya index was 0.006%.

**House Fly Control :** For abatement of fly nuisance and to check fly borne diseases regular anti-fly measures were continued through-out the year and were intensified during monsoon months.

**Entomological Survey :** Entomological Survey to assess and delimit the transmission of Filariasis by mosquitoes was continued during this year.

**MALARIA :** Under the National Malaria Eradication Programme, Malaria Surveillance Scheme is divided into two parts (1) Active Surveillance and (2) Passive Surveillance. The area occupied by the City proper is covered for Passive Surveillance, while that of the Suburbs is covered for both. In the city, blood smears are collected from the patients suffering from fever and attending the Municipal Dispensaries, Municipal and Government Hospitals and other Charitable Institutions and from those treated by private Medical Practitioner wherever possible.

In the case of Indigenous cases, Mass — Survey is carried out and if necessary. Mass treatment is arranged to control transmission.

**Filaria Control Programme :** Filaria night control clinic is functioning at Khar Danda Village at night for collecting blood smears and for giving treatment for positive cases.

Vector density rate and infectivity rate are monitored by collecting and dissecting mosquitoes at various parts of suburban wards.

Intensive larviciding and thermal fogging are carried out when there is increase in the density rate as well as when infective mosquitoes are detected to prevent filarial transmission.

## CEMETERIES.

There are in all 183 cemeteries in use in Greater Bombay, out of which 29 are Municipal. At the Municipal Cemeteries, amenities are provided by the Corporation and at the private cemeteries, by the private bodies.

## ELECTRIC CREMATORIUM.

There are 3 Electric Crematoria (1) Chandanwadi (2) Sion and (3) Oshivara, Andheri (West). They are opened round-the-clock for cremation. The charges for cremation are Rs. 125/- per adult dead body and Rs. 60/- per child dead body, below 12 years of age. The crematorium at Chandanwadi is at present under repairs.

Permission for removal of dead body outside Greater Bombay is issued at the office of Executive Health Officer during office hours and thereafter at the residence of zonal Dy. Executive Health Officer, Zonal Asstt. Health Officers and Medical Officers of Health of the wards. Permissions are also given by Heads of the all Municipal General Hospitals when dead body is to be removed by motor to places which can be reached within 24 hours after death.

## MUNICIPAL LABORATORY.

To safeguard public health, samples of various food stuffs and samples of water from different parts of Greater Bombay were examined at the Municipal Laboratory situated at 2nd floor, G/North Ward Office Building, Off Woolen Mill Lane, Dadar, Bombay 28. (Table No. 14).

The water sampling programme continued as usual and the sampling was done both in the morning and evening so as to collect samples from all the wards of the City.

The Municipal Analyst attended different courts in the City and Suburbs as Public Analyst in 4 cases and the other public analysts attended courts in 5 cases.

Apart from the examination of samples of water, food-stuffs collected by Sanitary Inspectors and Food Inspectors, samples collected by the Food and Drug Administration and the B. P. T. authorities and samples of stores articles from Controller of Stores and samples from different departments of the Corporation were examined.

### **Mahalaxmi Dhobighat.**

Dhobighat at Mahalaxmi is under the control of Public Health Department. In all 709 wash stones are provided to Dhobies for washing linen. Facilities such as water supply, electricity, land for drying clothes and sanitary accommodation have also been provided. The stones are given to Dhobies for washing clothes at a monthly rent of Rs. 60/-.

### **School Health Services.**

Children attending Primary and Secondary Municipal schools are examined at regular intervals by the Medical staff under Medical Officer (Schools). The rectification of defects and treatment of their ailments are arranged through school clinics at the six municipal General Hospitals and at Dental Clinics at the Nair Hospital Dental College and Dr. R. N. Cooper Hospital, Juhu, as also at the Municipal Dispensaries, etc. Special appliances such as calipers, hearing aid and spectacles, etc. if needed are given free of charge or at nominal cost to the students of Municipal schools. Milk is also given to the ailing school children at school clinics attached to the K. E. M. Hospital, Nair Hospital, Sion Hospital, Cooper Hospital, Juhu, Seth V. C. Gandhi and Seth M. A. Vora Municipal General Hospital, Rajawadi, Ghatkopar and Hariial Bhagwati Municipal General Hospital at Borivli.

Children suspected to be suffering from infectious diseases, such as Leprosy, Tuberculosis, etc. are referred to the special clinics for investigation and treatment.

Health Education Scheme is implemented in all the Municipal Schools by giving talks, showing slides, etc. on the various Health subjects.

### **Impounding of stray cattles**

As per provisions of Section 441 C to 441 G of the Bombay Municipal Corporation Act stray Cattles are seized and impounded in the Municipal Cattle Pound at Malad (West). The claimant of the animal is prosecuted in the Court and after the claimant is penalised by the court, the cattles are released on branding under orders from the Magistrate and on payment of pound fees etc. Unclaimed cattle and branded cattle if seized are not released and are sold to Bombay Humanitarian League on prescribed charges. The stray pigs are seized and sent to Deonar Abattoir for destruction as per provision of section 384 (2) of B. M. C. Act.

### **Maternity and Child Welfare**

The Maternity and Child Welfare Services were rendered through 25 Municipal Maternity Homes, 11 Mat. Wards attached to 11 Municipal General Hospitals and 39 Maternity and Child Welfare Centres. The scheduled strength of Maternity Beds was 1529. The number of deliveries conducted was 68624. The average stay of mothers in the maternity homes was 3 days. Domicillary care was rendered to impart health education and to carry out health propoganda amongst mothers. Institutional care included antenatal, post-natal, infant and pre-school age child care, follow up work and health education by propogands through posters, leaflets, group-talk, domonstrations and filmshuws, etc.

Milk was given free to the poor and neady 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.

Paediatric centres were conducted at 8 Maternity Homes with a view (i) 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 the hospital out-patients departments by referring cases for different medical care and (iii) to providing a teaching field and education experience in a urban centre to doctors, nurses and allied workers.

### **Family Welfare Planning.**

With a view to promote the small family norms, the instruction and guidance in spacing of births is given to married men and women and operation of male and female sterilization and loop insertions distribution of condoms and oral pills are done free of charge. Medical Termination of Pregnancy services are also available free of charge in all Municipal Maternity Homes, and General Hospitals.

These activities are conducted under the supervision of the special officer i/c Family Welfare, F/South Ward Offices, Dr. Ambedkar Road, Parel, Bombay- 400 012.

### Health Posts

With a view to render basic health and family welfare services to the urban poor at a place within walking distance from the slums and other residential areas where they live Bombay Municipal Corporation has located 56 Health posts in existing Family Welfare Centres.

About 30,00,000 population is to be covered through these posts. The health workers attached to these posts with the assistance of voluntary women health workers residing in the selected areas shall help in rendering preventive, promotive and curative services to this population which shall include Health Education, Immunization Family Planning, mother's and child's health care etc.

The entire scheme will be cent percent financed by Government of India.

### KASTURBA HOSPITAL FOR INFECTIOUS DISEASES

Dr. (Smt.) S. N. Marathe, M.B.B.S., D.P.H., worked as Medical Superintendent through out the year.

Admission and expenditure in Kasturba Hospital is as follows :—

Admission	:—18,306
Expenditure	:—2,03,30,420.82.

#### Pharmacy Department

The Pharmacy Department at this hospital is under expansion to raise the production of I. V. Fluids, from 600 bottles to 1000 bottles per day to meet the requirement of I. V. Fluids of all other Hospitals and Maternity Homes under Bombay Municipal Corporation.

#### Immunization Centre

492 persons were immunized against Diphtheria, 1926 against Enteric Fever, 1926 against Cholera, 690 against meningococcal meningitis and 189 against Serum Hepatitis.

#### Ward Laboratories

As required by the Bombay University, two ward laboratories have been started for a recognition to House posts for post graduate studies.

#### Intensive Care Unit

To render prompt medical treatment, cases in acute condition requiring very prompt and Intensive Care are admitted in Ward No. 11 of the Hospital. The total No. of patients admitted are 554 as against 568 during the previous year.

#### Paying Beds

The paying bed facility is provided to those desiring the same voluntarily.

#### Teaching

Instructions in Infectious Diseases were given to 82 students including under-graduates of Allopathic Ayurvedic and Homeopathic, Students Nurses, Nurses, Health Visitors, etc. from various institutions in Greater Bombay were also given instructions in Nursing Management of infectious Diseases.

A full-fledged Laboratory, X-Ray Department, Operation Theatre, Library and Medical Record Department worked satisfactorily.

### MEDICAL RELIEF

#### Municipal General Hospitals

The Public Health Department conducted thirteen General Hospitals in the Suburbs and Extended Suburbs. Details of the work done thereat are detailed in Table No. 13.

#### Dispensaries

New cases treated at the 149 dispensaries and 7 Mobile Dispensaries were 15,18,132 and the total attendance was 43,95,712.

### IMMUNIZATION

B. C. G. vaccination, Polio, Triple, Injections to the infants and children aged 3 months and above are given free at the Municipal Maternity Homes, General Hospitals and Dispensaries.

#### Measles

Measles vaccine is given in all the Municipal Maternity Homes, Hospitals and Dispensaries.

### **Maternity and Child Welfare Clinics**

2,21,132 new cases were treated at the 39 Maternity and Child Welfare Clinics and total attendance was 6,82,898 during the year 1986.

### **Municipal Eye Hospital, Kamathipura**

The total number of new cases and the total attendance at the out-patient department of this hospital was 26,631 and 56,783 as against 27,373 and 86,030 respectively during the previous year. The number of indoor patients amongst new cases and total attendance was 2127 and 19,698 respectively, as against 2,330 and 19,773 respectively during the previous year.

### **Ambulance and Hearse Services**

Municipal ambulance service is available at all Municipal General Hospitals in City and Suburbs. The Services are available round the clock at the major hospitals. In other cases, it is in two shifts from Morning to Evening. Ambulance services, are also available in Maternity Homes situated at Mahim, Deonar, Bhandup, Malad and Tagor Nagar, Vikhroli. Ambulance under the control of Fire Brigade is available for removal of case of Mat. Street accident (free) and non-infectious medical cases on payment within the limits of Greater Bombay.

Ambulance service at Sane Guruji Marg is available for removal of infectious disease cases free and hearse for removal of dead bodies on payment within Greater Bombay.

The services of hearse are also available on payment of prescribed charges at Juhu Hospital, Rajawadi Hospital, Borivli Hospital round the clock and at Maa Hospital, Chembur, and K. B. Bhabha Hospital, Bandra from morning to evening for removal of dead bodies in Greater Bombay.

### **Upgraded Dispensaries**

There has been considerable over crowding at the out-patient departments of the Municipal General Hospitals, making it difficult for the medical staff of the Hospitals to pay adequate attention to each patient. The over crowding in the O. P. Ds. is due to attendance of a large number of patients requiring dispensary treatment. With a view to relieving the general hospitals of the heavy load of patients, 64 Municipal General Dispensaries were upgraded.

### **Integrated Child Development Services Scheme**

In pursuance of the National Policy for Children, the Government of India have sanctioned the Integrated Child Development Scheme, integrating various services for the development of a child. The scheme is in operation in the slums of P and R Wards from September 1976 and has been extended to Dharavi Slums recently. The main aspect of the scheme is to deliver basic health services such as Immunizations, Health Check-up of Children upto the age of 6 years and expectants and nursing mothers, health education, referred services etc. The entire expenditure on the scheme is borne by the Government of India.

### **Voluntary Health Services Scheme**

This scheme has been introduced by Government of Maharashtra in 1982. The scheme is extended to student volunteers of 11th and 12th standard of science faculty with a view of giving them an opportunity for rendering their services in improving the health conditions of the people of Greater Bombay, to make people more health conscious and also to inculcate in the students, a habit of social service which also makes the students aware of the various health needs of the people. The students can participate in the scheme during vacation period every year. Each participant has to pay house to house visit for health survey. The overall performance of each students is consider by giving additional marks which helps him for admission to Government Medical, Ayurvedic etc. colleges. However the Government has discontinued from 1-4-1987 the scheme of giving additional marks though the scheme is otherwise continued.



### Expanded Programme on Immunization

Multi-purpose Worker's Scheme is prevalent in Greater Bombay and includes Expanded Programme of Immunization. Under the scheme every child in Greater Bombay is contacted and immunized for Diphtheria, Tetanus Whooping Cough, Tuberculosis within 1 to 1½ years from its birth.

'Expanded Programme of Immunization' is implemented in Brihan Mumbai. The aim of the scheme is to immunize the children below 3 years of age with 3 doses of Triple and Polio, 1st dose of B. C. G. and pregnant mothers with 2 doses of Tetanus Toxide. This will reduce the morbidity and mortality caused by disease like Diphtheria, Whooping Cough, Tetanus, T. B., Measles and Poliomyelitis in children and Tetanus in pregnant mothers. The immunization against Measles has already been included in the Programme. The immunization work under the programme is carried out in all Municipal Maternity Homes, Dispensaries and Hospitals and also in the slum areas for which special staff has been appointed under the Programme. E. P. I. diseases mentioned above. It is proposed to cover 90% of eligible population by the year 1990.

### Rabies

Anti-Rabic Treatment is given at 15 Municipal Hospitals, 1 Government Hospital and 15 Municipal Dispensaries, (list shown in the Annual Civic Health Bulletin) pet dogs are also immunized against rabies at nine dog immunization centre list of which is shown in the Annual Health Bulletin of the Public Health Department. The stray dogs are seized and destroyed by electrocution method if not retrieved within three days. Pet dogs are licensed by the dog licensing establishment of the Corporation.

### Control on Certain Trades and Cinema and Drama Theatres

Certain trades like hair dressing saloons, Pan shops, laundries, etc. are controlled from Public Health Point of view by imposing a licence under Section 394 of the Bombay Municipal Corporation Act.

Similarly Cinema Theatres, Drama Halls, etc. are inspected to control them from public health point of view under the prevention of "Maharashtra Cinema (Rules) Regulations, 1966 and Rules for licensing and controlling places for public amusement respectively.

### Health Education

The citizens are educated through health film, posters and others publicity media in matters of environmental sanitation, good habits for healthy living, immunization, etc. Special educational campaigns are arranged on various Health subject from time to time in slums.

### REGISTRATION OF NURSING HOMES

Nursing Homes require registration under the Bombay Nursing Home Registration Act 1949 and Rules thereunder. Certificate of Registration is issued on payment of the prescribed fees of Rs. 50/- (less than 10 beds) and Rs. 100/- (more than 10 beds) at the office of the Medical Officer of Health at each of the wards. Renewal of registration is done annually on payment of equal amount payable for the first registration.

### LICENSING OF NURSES ESTABLISHMENT

Nurses Establishment require licence under the provisions of the Bombay Nurses, Midwives and Health Visitors Act, 1954 and the Rules and Bye-Laws passed thereunder. The licence is issued on payment of prescribed fees of Rs. 100/- by the Medical Officer of Health of the ward and is renewable every year in April. Failure to take licence is punishable with fine which extends to Rs. 250/- for the first offence and for any subsequent offence with fine which may extend to Rs. 500/- or with simple imprisonment which may extend to six months or with both.

### INTERNATIONAL HEALTH CERTIFICATE

Inoculation against cholera, and T. A. B. is done and duly authenticated certificates in approved form are issued at certain Municipal Institutions on payment of Rs. 10/- each.

Every traveller must produce his passport at the time of immunization and authentication. The Medical Officer, may, however, inoculate a traveller in the absence of a passport and keep the certificate with him by giving him an undergoing that the certificate would be cancelled if he would not turn up within fifteen days of the inoculation.

Inoculations against yellow fever are given at the seamen's medical examination organisation, Nav Bhuvan, Nicol Road, Karwar Street, Bombay — 400 001 and at Sahar Air Port.

Table — 1

Notifiable Diseases.		Attacks.	Deaths.
1.	Plague.	—	—
2.	Cholera.	—	—
3.	Small Pox.	—	—
4.	Diphtheria.	38	14
5.	Enteric Fever.	192	22
6.	Infectious Hepatitis.	777	236
7.	Tuberculosis.	21842	6800
8.	Meningococcal Infection.	183	27
9.	Typhus.	—	—
10.	Puerperal Fever.	—	—
11.	Anterior Poliomyelitis.	999	175
12.	Influenza.	—	—
13.	Virus Encephalitis.	—	—
14.	Scarlet Fever.	—	—
15.	Yellow Fever.	—	—
16.	Relapsing Fever.	—	—
17.	Acute Spinal	—	—
18.	Leprosy.	3085	35
19.	Danque Fever.	—	—

Table 1 (Cont.)

	Immunization.	Total during 1986.
Diph. Tetanus.	1st dose.	87,330
	2nd dose.	38,952
	Booster dose	2,939
Triple.	1st dose	1,36,976
	2nd dose	1,01,064
	3rd dose	85,842
	Booster dose	73,477
Polio	1st dose	1,49,685
	2nd dose	1,21,851
	3rd dose	92,646
	Booster dose	83,619
T. A. B.	—	3,63,620
Cholera.	—	1,38,170
Small Pox	Primary	—
	Re-vaccination.	—
Tetanus Toxide.	1st dose	3,42,043
	2nd dose	91,112
	3rd dose	50,924
	Booster dose	25,700
B. C. G. Vaccination		1,09,916
Measles		20,000

121  
TABLE NO. 2.

**Deaths and Death Rates from Epidemic and Principal Causes (1986).**

Cause of death.	Average of Year 1981-85		1985		1986	
	Deaths	Death Rate	Deaths	Death Rate	Deaths	Death Rate
Small Pox.	—	—	—	—	—	—
Measles.	229	0.0	423	0.0	43	0.0
Plague.	—	—	—	—	—	—
Enteric Fever.	35	0.0	40	0.0	22	0.0
Influenza.	—	—	—	—	—	—
Cholera.	—	—	—	—	—	—
Malarial Fever.	—	—	—	—	—	—
Diphtheria.	14	0.0	15	0.0	14	0.0
<b>OTHER PRINCIPAL CAUSES.</b>						
Tuberculosis.	8334	0.9	8031	0.8	6800	0.7
Meningococcal Infection.	—	—	—	—	—	—
Diseases of Nervous system.	1022	0.1	1496	0.2	1421	0.1
Diseases of Respiratory system,	11163	1.2	10480	1.1	12080	1.2
Dysentry, Diarrhoeia & Enteritis	3384	0.4	3974	0.4	3183	0.3
Parperial State.	92	0.0	179	0.0	132	0.0
Congenital Debility & Early Infancy.	5627	0.6	4001	0.4	4433	0.4
Senility without mention of psychosis.	3580	0.4	2069	0.2	2158	0.2
Violence.	5580	0.6	5080	0.5	6052	0.6
Other causes.	32663	3.7	37371	3.9	35942	3.6
<b>Total :—</b>	<b>71723</b>	<b>8.0</b>	<b>73159</b>	<b>7.6</b>	<b>72307</b>	<b>7.3</b>

TABLE NO. 3.

## Deaths among infants from Principal causes by age period 1986.

Age Period	Small-pox	Measles	Malarial fever	Diarrhoea Dysentery Enteritis	Congenital malformation & disease at early infancy	Diseases of respiratory system	Polio- mylitis	Other causes	All cases	Percentage to the total of infant death
Upto 7 days.	—	2	—	45	3807	159	2	1487	5502	44.04
1 to 4 weeks.	—	—	—	141	419	48	1	954	1563	12.51
Total under 4 weeks.	—	2	—	186	4226	207	3	2441	7065	56.55
4 weeks to 6 months.	—	1	—	730	181	142	12	2431	3497	28.00
6 months to 12 months.	—	7	—	505	48	65	45	1283	1931	15.45
Total under 4 weeks to 12 months	—	8	—	1235	227	207	57	3694	5428	43.45
Grand Total :—	—	10	—	1421	4453	414	60	6135	12493	100.00

TABLE NO. 4.

## Infant Mortality from Principal Causes (1981 — 1986)

Cause of death	1981	1982	1983	1984	1985	1981 to 1985 (A)	1986 (B)	Difference between (A) & (B)
Polio-myelitis.	42	42	17	24	62	37	60	+ 23
Small pox.	—	—	—	—	—	—	—	—
Measles.	30	1	17	103	89	48	10	— 38
Malarial Fever.	—	—	—	—	—	—	—	—
Diarrhoea & Dysentry and Enteritis.	1639	1315	1449	1531	1735	1534	1421	— 113
Congenital malformation disease of early infancy.	6557	7155	5832	4588	4001	5627	4453	— 174
Disease of respiratory System.	2944	2893	3148	2777	2536	2860	2959	— 99
All Causes.	13449	12945	13558	13061	13282	13259	12493	— 766

**TABLE NO. 5**  
**Cases of Notifiable Diseases reported in 1986.**

Wards	Cholera	Small-pox	Plague	Enteric Fever	Diph- teria	Typh- us	Puen- peral Fever	Tuber- culosis	Relap- sing Fever	Influ- enza	Spinal Fever	Acute interior Polio- Myelitis	Scar- let Fever	Infec- tive Hepa- titis	Leprosy	Total
A	—	—	—	4	—	—	—	211	—	—	—	10	—	9	14	248
B	—	—	—	8	1	—	—	1048	—	—	—	6	—	27	5	1092
C	—	—	—	5	—	—	—	1287	—	—	—	1	—	15	23	1311
D	—	—	—	7	1	—	—	1586	—	—	—	19	—	40	63	1716
E	—	—	—	78	8	—	—	1401	—	—	—	32	—	138	224	1881
F/N	—	—	—	4	3	—	—	469	—	—	—	51	—	48	374	949
F/S	—	—	—	26	1	—	—	5710	—	—	—	27	—	44	349	6157
G/N	—	—	—	4	3	—	—	2121	—	—	—	44	—	42	160	2374
G/S	—	—	—	33	1	—	—	1143	—	—	—	47	—	70	157	1451
H/E	—	—	—	2	—	—	—	355	—	—	—	29	—	16	89	491
H/W	—	—	—	5	1	—	—	1400	—	—	—	27	—	34	34	1501
K/W	—	—	—	11	—	—	—	640	—	—	—	13	—	14	121	779
K/E	—	—	—	3	1	—	—	649	—	—	—	56	—	32	245	986
L	—	—	—	3	5	—	—	1108	—	—	—	43	—	25	124	1308
M	—	—	—	2	5	—	—	245	—	—	—	141	—	59	153	605
N	—	—	—	1	2	—	—	424	—	—	—	55	—	31	66	579
P/N	—	—	—	1	1	—	—	294	—	—	—	34	—	24	207	561
P/S	—	—	—	1	1	—	—	583	—	—	—	30	—	24	—	639
R	—	—	—	—	2	—	—	607	—	—	—	74	—	18	214	915
S	—	—	—	1	—	—	—	232	—	—	—	30	—	8	—	271
T	—	—	—	1	—	—	—	349	—	—	—	17	—	10	54	431
Imported cases	—	—	—	4	2	—	—	—	—	—	—	213	—	59	409	687
<b>Total</b>	—	—	—	<b>192</b>	<b>38</b>	—	—	<b>21842</b>	—	—	—	<b>999</b>	—	<b>777</b>	<b>3085</b>	<b>26933</b>

TABLE No. 6

NATIONAL MALARIA ERADICATION PROGRAMME

	No. of fever cases detected.	No. of persons given treatment.	No. of Blood Smears			Found + ves	Parasite Species				Persons treated		Epidemiological Classification					
			Collected.	Examined.	Broken.		V	F	M	Mixed	Compl- etely	Parti- ally.	Imp.	Ind.	Relapsed	Indige- nous	Not treat- ed	
(1) ACTIVE																		
CITY	3519	3519	3519	3519	—	7	7	—	—	—	3	—	3	1	—	—	—	3
SUB.	38009	38009	38009	38009	—	22	18	3	—	1	20	2	21	1	—	—	—	—
E. Sub.	31016	31016	31016	31016	—	16	13	3	—	—	12	2	12	2	—	—	—	2
	72544	72544	72544	72544	—	45	38	6	—	1	35	4	36	4	—	—	—	5
(2) PASSIVE																		
CITY	209336	209336	209336	209336	—	533	474	55	—	4	392	9	347	71	—	—	—	115
SUB.	97013	97013	97013	97013	—	159	130	29	—	—	94	4	115	12	—	—	—	32
E. SUB.	78330	78330	78330	78330	—	84	72	12	—	—	59	6	60	12	—	—	—	12
	384679	384679	384679	384679	—	776	676	96	—	4	545	19	522	95	—	—	—	159
(3) MASS																		
CITY	37355	37355	37355	37355	—	9	9	—	—	—	8	—	5	4	—	—	—	—
SUB.	21687	21687	21687	21687	—	—	—	—	—	—	—	—	—	—	—	—	—	—
E. SUB.	30071	30071	30071	30071	—	3	3	—	—	—	3	—	2	—	—	—	—	1
TOTAL :-	89113	89113	89113	89113	—	12	12	—	—	—	11	—	7	4	—	—	—	1

TABLE - 7

Ward-wise Malaria Positives cases with species and classification for the year 1986.

Ward	No. of + ve cases	Malaria Parasites					Classification			
		V	F	M	Mixed	Imp.	Indig- enous	Ultra- ced	Unclas- sified	
A	93	88	4	—	—	1	45	16	10	22
B	26	22	4	—	—	—	16	4	2	4
C	27	23	4	—	—	—	21	2	3	1
D	80	70	10	—	—	—	51	12	1	16
E	107	93	13	—	—	1	71	21	5	10
F	108	99	8	—	—	1	70	19	2	17
G	103	90	12	—	—	1	82	9	7	5
H	44	35	8	—	—	1	34	4	2	4
K	41	36	5	—	—	—	30	4	4	3
L	18	16	2	—	—	—	15	2	1	—
M	24	19	5	—	—	—	18	3	1	2
N	22	20	2	—	—	—	13	6	3	—
P	54	45	9	—	—	—	41	2	10	1
R	47	36	11	—	—	—	36	3	4	4
S	14	12	2	—	—	—	12	1	1	—
T	25	22	3	—	—	—	16	4	2	3
Total	833	726	102	—	—	5	571	112	58	92

TABLE NO. 8

Admissions deaths and average number of patients at Kasturba Hospital,  
Sane Guruji Marg, Bombay 400 011.

Months	Chicken Pox	Measles	Mumps	Anterior Polio myelitis	Infective Hepatitis	Influenza	Cholera	Diarrhoea & Vomiting due to Gastro enteritis	Plague	Diphtheria	Enteric Fever	C.S. Fever	Typhus Fever	Erysipelas	B. Dysentery	A. Dysentery	Whooping Cough	Other diseases	Total	Discharge	Death	Daily Average No. of patients
Jan.	196	97	27	51	58	—	—	226	—	1	8	7	—	—	—	—	12	663	1346	1292	54	349
Feb.	452	109	49	37	64	—	—	188	—	—	5	17	—	—	—	—	2	592	1515	1466	49	425
Mar.	570	154	66	30	62	—	—	254	—	1	5	26	—	—	—	—	10	676	1854	1779	75	452
Apr.	490	121	72	44	61	—	—	264	—	4	8	28	—	—	—	—	1	583	1676	1605	71	439
May	172	88	32	39	52	—	—	370	—	—	9	15	—	—	—	—	5	737	1526	1472	54	360
June	63	56	30	91	77	—	—	398	—	—	26	8	—	—	—	—	5	656	1410	1337	73	321
July	28	58	28	171	85	—	—	745	—	2	27	12	—	—	—	—	24	944	2124	2028	96	438
Aug.	16	37	11	170	75	—	—	421	—	5	20	10	—	—	—	—	9	850	1625	1543	82	406
Sep.	31	73	14	135	71	—	—	341	—	9	9	13	—	—	—	—	6	664	1366	1279	87	379
Oct.	51	59	17	107	55	—	—	331	—	4	28	12	—	—	—	—	4	656	1354	1289	65	333
Nov.	29	113	26	60	59	—	—	285	—	7	17	14	—	—	—	—	5	569	1184	1129	55	318
Dec.	165	173	24	64	57	—	—	302	—	5	30	21	—	—	—	1	2	482	1326	1283	43	311
Total :-	2263	1168	396	999	777	—	—	4125	—	38	192	183	—	—	—	1	92	8072	18306	17502	804	376

TABLE NO. 9

Admission from 1982 to 1985 at the Kasturba Hospital for Infectious Diseases.

Year	Chicken Pox	Measles	Mumps	C. S. Fever	Diphtheria	Influenza	Whooping Fever	Enteric Fever	B. Dysentery	A. Dysentery	Cholera	Plague	Typhus Fever	Diarrhoea & Vomiting due to Gastro-Enteritis	Anterior Poliomyelitis	Infective Hepatitis	Other diseases	Total	Death	Discharge	Daily average No. of patient
1983	2143	766	195	—	53	—	8	172	147	194	—	—	—	4031	714	806	8513	17742	552	17176	376
1984	2647	888	296	—	53	—	7	116	257	241	—	—	—	3448	643	816	8440	17852	519	17333	367
1985	2100	789	349	30	47	—	1	253	4	81	—	—	—	5337	833	658	10048	20528	718	19810	387
1983	2263	1168	396	183	38	—	—	192	1	92	—	—	—	4125	999	777	8072	18306	804	17502	376

(B + ve)



**T A B L E N O. 10**

**Average weekly cost per patient admitted at the Kasturba Hospital for Infectious Diseases.  
Sane Guruji Marg, Bombay 400 011.**

Particulars.	1982	1983	1984	1985
	Rs.	Rs.	Rs.	Rs.
Drug, Dressings & Disinfectants.	27.02	39.97	39.41	51.24
Diet.	55.51	63.70	62.16	48.09
Clothing.	0.84	26.32	14.77	6.86
Stores.	24.29	11.06	19.11	14.98
<b>Total</b>	<b>107.66</b>	<b>141.05</b>	<b>135.45</b>	<b>121.17</b>

**T A B L E N O. 11**

**Total cost per patient per day at the Kasturba Hospital for Infectious Diseases, Sane Guruji Marg,  
Bombay — 400 011. (Including establishment charges).**

Particulars.	Cost per Indoor patient.	Infectious Hepatitis Out patients Department.
	Rs.	Rs.
Diet	6.87	—
Stores and Linen	3.13	0.58
Drugs, Dressing & Disinfectants.	7.32	1.03
Lighting, Miscellaneous.	12.42	0.13
Repairs.	10.48	—
Establishment.	106.06	7.31
	<b>146.28</b>	<b>9.05</b>

**T A B L E — 12**

**Immunization done by Mobile Health Unit in 1986 (In field).**

Immuization.	In Field.	Total
(1) D. T. 1st dose.	...	...
D. T. 2nd dose.	866	866
Triple 1st dose.	2885	2885
Triple 2nd dose	2458	2458
Triple 3rd dose.	1657	1657
Triple Booster dose.	4728	4728
Polio 1st dose.	3241	3241
2nd dose.	2552	2552
3rd dose.	1965	1965
Booster dose.	4947	4947
T. A. B.	17	17
Cholera.	...	...
T. T. 1st dose.	4003	4003
2nd dose.	...	...
Measles.	3318	3318
	<b>32637</b>	<b>32637</b>
(2) Helath Drives.	252	
Total No. of patients.	50,800	
No. of patients days of treatment.	71,291	

**TABLE No. 13**

**Work done at the Municipal General Hospitals under the Executive Health Officer during the year 1986.**

Accommodations of Beds	Khurshedji B. Bhabha Hospital Bandra.	Vishnu Prasad Nandraj Desai Gen. Hospital Santacruz (E).	Dr. R. N. Cooper Hospi- tal, Juhu.	Khan Bhadrur H. K. Bhabha Hospi- tal, Kurla.	Diwalibai Mohan- lal Mehta (Maa) Hospital, Chembur	Seth V. C. Gandhi & M. A. Vora Gen. Hos- tal, Rajawadi, Ghatkopar.	Shri M. W. Desai Memorial Gen. Hosp. Malad (East).	Shri Harilal Bhag- wati Hospital, Borivali.	M. T. Agarwal Gen. Hospital Mulund (West).	Gen. Municipal Gen. Hospital Mulund (East).	Sant Muktabai General Hospital, Brava Nagar Ghatkopar.	Municipal Centen- ary Gen. Hospital, Govandi.	Municipal Centen- ary Gen. Hospital, Kandivali (West).													
Children Ward.	32	23	80	31	20	76	35	35	33	20	20	30	20													
General Male Ward.	32	45	195	70	28	42	36	62	40	30	20	20	35													
General Female Ward.	32	45	175	40	11	37	24	38	37	30	20	20	25													
Maternity Ward.	90	30	90	60	—	110	29	50	—	20	40	30	20													
Septic & Gynec. Ward.	—	40	—	—	12	60	23	25	18	10	—	—	—													
Others.	18	4	—	105	4	235	—	90	—	—	—	30	—													
<b>Total No. of Beds.</b>	<b>204</b>	<b>187</b>	<b>520</b>	<b>308</b>	<b>75</b>	<b>560</b>	<b>136</b>	<b>300</b>	<b>128</b>	<b>110</b>	<b>100</b>	<b>130</b>	<b>100</b>													
	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.	Annual Atten- dence.	Daily Aver- age.		
In-patients.	12,442	34	44,446	123	1,90,127	534	74,084	203	18,342	51	1,83,212	502	31,342	87	15,776	43	34,163	94	24,330	66	24,339	68	37,871	106	31,120	85
Surgical Operation	15,242	37	5,155	17	22,065	100	3,666	10	2,593	8	14,664	48	1,060	4	13,933	38	3,375	11	904	9	319	2	4,353	12	2,171	7
	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.	New Cases	Total Atten- dence.
Out-Patient Deptt.	1,59,265	5,81,972	95,848	2,22,787	1,81,541	4,97,568	1,28,664	4,84,484	77,576	3,24,306	45,197	7,78,248	52,018	1,55,273	1,31,524	2,28,848	53,818	2,34,821	44,318	1,16,802	237,970	1,29,59	90,339	2,91,690	44,026	2,22,875
In Patients remained on 31-12-85.		143		129		534		196		45		463	107		236		88		56		71		89		67	
Admitted in 1986.		12,442		10,586		30,481		12,496		3,644		27,458	7,470		15,776		4,680		4,843		6,640		7,975		6,591	
Total No. of Patients treated in 1986.		11,590		10,719		1,90,127		74,084		3,443		27,921	1,55,273		15,776		2,68,784		1,16,807		30,979		37,871		2,22,875	
Discharged cured.		11,590		10,326		26,661		11,929		3,443		7,836	7,000		14,140		4,308		4,052		...		7,635		6,486	
Otherwise.		122		—		200		—		136		18,232	64		543		149		575		...		125		105	
Died.		359		263		2,111		366		85		1,435	242		851		218		130		61		236		206	
In-patients remaining on 31-12-86.		162		130		491		201		42		418	84		246		93		56		52		82		111	
Daily Average (Out-patient).		1,827		745		527		1,327		1,091		472	431		637		767		375		300		800		743	
Expenditure	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.	Total cost.	Cost per pt.
	1,13,08,890	95.16	1,01,08,660	139.46	2,19,88,317	46.72	1,34,39,828	115.30	70,09,210	84.86	2,50,19,861	80.52	23,23,834	49.6	2,36,01,010	171.46	72,56,782	59.25	13,05,432	39.49	42,05,908	106	66,21,059	167.86	37,98,061	75.80

TABLE — 14

Examination of Food and water samples during the year 1986.

## I — Chemical Examination :—

(1) Food	
(i) Prevention of Food Adulteration Act.	4451
(ii) Other than the P. F. A. Act.	7562
(2) Water Samples.	8308
(3) Controller of stores.	310
(4) Hospitals.	62
(5) Miscellaneous.	384

Total :—	<u>21077</u>
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## II — Bacteriological Examination.

(1) Water.	
(i) from city, suburbs and extended suburbs.	25811
(ii) from B. P.T. Area.	581
(iii) Private.	988
(2) Disinfectants.	—
(3) Foods.	200
(4) Ice.	11
(5) Miscellaneous.	555

Total :—	<u>28106</u>
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TABLE NO. 15

Ward wise confinements in Institutions in Greater Bombay doing Maternity Work during 1986.

Ward	A	B	C	D	E	F/S	F/N	G/S	G/N	H/W	H/E	K/W	K/E	L	M/E	M/W	N	P/S	P/N	R/S	R/N	S	T	TOTAL
1. No. of Institution.	19	6	8	58	15	14	32	15	33	35	13	43	49	10	8	18	25	17	40	20	32	17	21	548
2. Total No. of beds.	2603	227	268	2169	3179	2719	1576	985	459	892	262	1547	1370	419	420	258	2961	256	737	946	731	400	982	26352
3. No. of Mat. Beds.	559	125	99	863	397	486	407	346	326	549	95	592	606	140	146	169	414	211	402	304	382	231	290	8139
4. Live Births.	8536	3130	1530	13531	10097	17334	14176	7989	4317	13072	6314	13897	13882	7863	6664	7432	18150	11146	10636	8945	9180	7909	9221	224951
5. Still Births.	171	56	38	304	306	479	340	143	68	232	117	390	234	150	122	149	524	288	205	158	224	213	248	5157
6. Total Confinements	8707	3186	1568	13833	10403	17813	14516	8116	4385	13302	6431	14287	14116	8010	6786	7581	18674	11410	10841	9103	9404	8122	9467	230061
	(-)			(2T)			(16T)			(2T)		(3T)							(24T)				(47T)	
7. Deaths among Mothers.	7	-	-	1	36	18	33	3	-	1	-	8	-	-	-	-	15	-	-	-	5	-	40	127
8. B. C. G. Vaccination.	6809	1249	889	1307	8915	9927	10545	4658	354	7455	5629	13305	2384	7409	2488	6073	11923	4560	8588	6249	9323	8752	6249	145040

**K. E. M. HOSPITAL & G. S. MEDICAL COLLEGE,  
PAREL, BOMBAY—400 012.**

<b>HOSPITAL :</b>	<b>Rs.</b>
<b>I</b>	
—Expenditure :	
A —On In-Patients.	7,29,80,436.00
—On-Out-Patients.	2,45,75,682.00
B —Average cost per :—	
(i) In-Patients per day.	127.70
(ii) In-Patient admission.	1,338.13
(iii) Out-Patient attendance.	19.76
(iv) Out-Patient admission.	87.81
<b>II</b>	
—Results :—	
A— 1. Schedule Beds Strength.	1,615
2. Daily Average —In-patients in Wards.	1,598
3. Admission including those brought over from the previous year 1985.	57,877
4. Patients discharged.	
(i) As cured.	43,030
(ii) Otherwise.	8,790
(iii) Expired.	4,529
(iv) Remained in the hospital on the last day of the year 1986.	1,528
5. Average stay of In-patients(In days).	10.02
B— 1. New Out-Patients attendance.	2,91,723
2. Daily average of New Out-Patients.	950
3. Out-Patients New & Old.	12,72,251
4. Daily average of Out-Patient attendance.	4,144
5. Casualty cases (Medico-legal).	18,409
C— Operations :	
1. Major.	17,775
2. Minor.	33,337
D— Confinements :	
1. Booked cases.	3,397
2. Emergency cases.	205
3. Normal.	2,964
4. Abnormal.	638
5. Neonatal & Maternal Deaths :	
(i) Maternal Deaths.	9
(ii) Neonatal Deaths.	86
(iii) Still Births.	130
(iv) Premature live Born Infants.	87
<b>III</b>	
— Specialised Treatments :	
1. Artificial Kidney Departments :	
(i) Peritoneal Dialysis.	282
(ii) Haemodialysis.	2,290
2. I. C. C. U. Ward :	
(i) Number of Admissions.	901
3. Open Heart Surgery.	604
4. Other Operations (Heart).	470
5. Neuro-surgery :	
Operations.	830
6. Sterilisations :	
Male.	265
Female.	1,145

IV	<b>Radiology :</b>	
	1. General Radiology.	93,917
	2. Vascular Radiology.	7,441
	3. Neuro-Surgery.	1,572
	4. Orthopaedic.	35,810
V	<b>— Blood Bank :</b>	
	1. Number of Blood samples collected from :—	
	(i) Voluntary Donors.	9,903
	(ii) Relative Donors.	7,301
	(iii) Indoor Voluntary Donors.	370
	(iv) Others Hospitals.	1,917
	2. Number of bottles supplied.	19,967
	3. Total Number of grouping & X—matching.	21,444
VI	<b>— School Clinic.</b>	
	1. School Children treated :	
	1. New.	2,481
	2. Old.	15,412
	2. Total expenditure on Clinic. (Rs.)	3,11,543
VII	<b>— Physio Therapy :</b>	
	(I) Attendance at the Centre :	
	(i) Out-patients.	6,285
	(ii) In-patients.	18,875.
	(II) Treatment given to :	
	(i) Out-patients.	78,546
	(ii) In-patients.	2,80,176
	(III) Students admitted during the year.	40
	(IV) Students in the school.	109
	(V) Students graduated during the year.	40
VIII	<b>Occupational Therapy :</b>	
	(a) Patients treated at the Centre.	2,18,165
	(b) Treatment given to—	
	(i) Students admitted in the School during the year.	40
	(ii) Number of students in the school.	138
	(iii) Students graduate during the year.	29
	<b>COLLEGE :</b>	
	(i) Total expenditure on Hostel.	Rs. 2,99,420.00
	(ii) Revenue from Tution Fees, Hostel Rent.	Rs. 6,90,857.50
	(iii) Revenue from Post-Graduate fees.	Rs. 2,42,505.00

**I—Students :**

	Male	Female	Total.
<b>Under-graduate Students :</b>			
Ist M. B. B. S.	95	104	199
Ist M. B. B. S. (Casual)	21	23	44
IInd M. B. B. S.	178	193	371
IIIrd M. B. B. S.	108	76	184
IIIrd M. B. B. S. (Casual).	40	09	49
Intern.	90	73	163
B. Sc. (O. T.).	6	103	109
B. Sc. (P. T.).	4	105	109
Pest-graduate students including Research.	472	220	692
<b>Grand Total</b>	<b>1014</b>	<b>906</b>	<b>1920</b>

**B—Occupation of parents or Guardians :**

(i) Service.	117
(ii) Medical Profession.	34
(iii) Legal Profession.	4
(iv) Misc. Occupation.	32
(v) Engineering.	12

The King Edward VII Memorial Hospital & Seth Gordhandas Sundardas Medical College are functioning since 1925-26. The Hospital is the largest civic medical institute in the city, fully modernised and well equipped with various departments. The G. S. M. College provides training facility in almost all the faculties of Medical and Surgery. Both the institutions are managed by the Dean with the assistance of Medical Personnel of high repute and numerous para-medical and other staff well trained in the line.

Dean — Dr. G. B. Parulakar, M. S., FACS, FAMS, FASC.

Asstt. Dean — Dr. (Smt.) S. R. Satoskar, M. B. B. S.

**LIBRARY :** This is the highest Medical library of the Municipal Corporation. This has open access system.

**A) The Library's statistical report for the year 1986 is as follows :—**

1) Total No. of books in the library	19,540
2) Total No. of Books added in the Library during the year 1986	716
3) Total Nos. of Books kept in the Library as a reference	165
4) Total No. of Books kept in the Library on the counter	215
5) Total Nos. donated books kept in the library.	25

**B) Journals :**

1) Total No. of journals subscribed in the library for the year 1986	325
2) Total Nos. of new journals added in the Library during the year 1986	3

<b>C</b> 1) Total No. of bound volumes added in the year 1986 :	300
2) No. of bound journals brought from other library on Inter Library Load.	55
3) No. of bound journals volumes	203
4) Total No. of Books/Journals issued to staff and Students at	71,423
5) Total Nos. of books and journals issued to outsiders to read at premises	10,000
6) Total Nos. of books added in the Dept. of Library.	119

**E Grant Utilised :**

For Journals —Rs.	5,20,600.48
For Books. —Rs.	38,211.50

**D Xeroxing :**

1) Total No. of Xerox Copies	26,608
2) Total Income to Municipal Treasury.	Rs. 13,304.

Every year Seth G. S.M. College Library received grant of Rs. 6,00,000/- Out of which Rs 5,20,600.48 is utilised for journals & Rs. 38,211.50 utilised on books.

This year one of our past student Dr. (Smt.) Lakshmi Baxi has donated us Rs. 10,000.00 to start Audic Visual Centre in memory of her late sister in the Liabrary.

## OCCUPATIONAL THERAPY TRAINING SCHOOL AND CENTRE :

Occupational Therapy Training School & Centre continued to progress satisfactorily inspite of severe problems of space, equipments & staff.

Attendance of patients at Centre.	16,299
Treatments given to the patients.	2,18,165
Students admitted for M. Sc. O. T.	5
Students passed M. Sc. O. T.	4
No. of students in the school.	138
No. of students admitted in the School.	40
No. of students graduated during the year.	29

Weaving, winding, printing, Carpentry, Tailoring work & other activities were given to the patients as a part of their physical & mental restoration programme. Some of the needy patients were also paid for the work as a part of their vocational Rehabilitation.

**Weaving Activities :** Weaving & Winding work were given to the patients. Patients produced handloom products like bed-sheets, towels, hankees, rig mats etc. This year the sale money amounted to Rs. 9,705/- was credited to the P. B. C. Fund of the K. E. M. Hospital.

**Printing Activities:—** During the year Rs. 2,80,370/- worth printing work was done & amount collected Rs. 1,68,460/- which was credited to P. B. C. Fund of the K. E. M. Hospital.

**Splints :** Total 1210 splints worth of Rs. 18,774.50/- were prepared and given to the patients and amount recovered for these were Rs. 17,782.50 which was credited to the P. B. C. Fund of K. E. M. Hospital.

## DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE.

Activities	Performance in 1986.	
1. Curative services	16,004 cases attended	
2. Immunisations	Tripple :	5,772
	D. P. V. :	7,470
	B. C. G. :	2,267
	Measles :	592
	T. T. :	1,736
3. Mother craft. Clinics (ANC)	Newrege :	1,532
	Old Pts. :	3,968
	Group Exercs. :	757
	Inferron INTS. :	5,180
	T. T. Inj. :	2,339
4. Husband craft clinics	Attended :	398
5. Under 5 clinics.	Attended :	6,686
6. Nutrition Rehab.	Children :	518
7. School Health Services.	Periodic Health check ups.	8,990
	Nutritional survey.	4,483
	Vit A supply.	9,345
	Dental check up	2,700
	Health Education.	1,999
	Dental Education.	2,389
	Demorming.	508
	Middayealy.	3,600 Children.
		200 days:
8. Tuberculosis control programmes.	Total Pts.	1,368
	New Pts.	217
	Dfaulters Visits.	381
	Contacts of Deaths in T.B.	63



Activities	Performance in 1986.	
9. Leprosy control programme.	Old cases.	1,138
	New cases.	40
	Total cases.	1,178
	D faulters.	210
10 Spabies control programme.	Total pts. dipped.	118
	Total family members.	581
11 Gynaec camp.	Total pts.	410
12 Ophthalmology camp.	Total pts.	431
13 Skin camps.	Total pts.	88
14 Dental camps.	Total pts.	2,700
	Dental Education.	2,389
15 Laboratory services.	Stools.	172
	Urine.	1,258
	Sputum.	522
	Slides malaria.	1,557
	Blood.	7,440
	Hb	1,540
	RH	1,540
	VDRL	1,540

	I	II	III	Booster I	Booster II
"F" South Immunisation Centre.					
Tripple Polio.	699	656	567	451.	269
Measles		368			
Health Education :		288			

Activities	Performance in 1986	
16 Rehabilitation of Physically Handicapped. Old		2,797
	New	31
17 Child to child programme.	Pilot project	47
	Total volunteers	85
18 Referral services &	(1) Tubal —	109 camps.
		81
Family planning camps.	Ligation.	43 mat. Home
		18 Wadia
	Total	170
	(1) IUCD	86
'F' South Lab. Services. :		
Bood		9,556
Urine		6,712
Stool		360
Sputum		133

**FAMILY WELFARE SERVICES AT NAIGAON :**

1) Family Welfare Programme :	Performances.
1) Tubectomy	50
2) Cu. T.	1
3) O. C.	10
4) Condomes	20
5) Eligible couples	608
6) Gynae. check up	300
7) F. P. talke in chawls	2
2) Under Fivel Clinics.	
1) Child beneficiaries	580
2) Health Education talks to mothers	580
3) Milk powder Dist.	60 children.
4) Biscuit Distribution	60
3) Under-graduates & Interns trained.	520
4) Handicapped persons survey & services programme.	
1) Population surveyed	3,360
2) Handicapped persons defected & served	410
3) Handicapped scholarships from Govt. start	10
4) Film shows	4
5) O. P. D. Services.	
Attendance of Pts.	228
6) Industrial Health.	
Population surveyed	1,588

**DEPARTMENT OF ANAESTHESIOLOGY :**

Department of Anaesthesiology continued to provide anaesthesia & resuscitation services as reflected in the number of operations carried out in various operation theatres. Department also managed these services at Dr. R. N. Cooper hospitals at Juhu & Municipal hospital at Malad and at Santacruz hospital.

In respiratory care ward clinically ill patients were treated. (202 patients).

Anaesthesia O. P. D. continued to works moothly. Facilities to do routine investigations like Hb, Urine were provided. Pain clinic and Acupuncture clinic was started.

The 35th Annual conference of Indian society of Anaesthesia held at Visakhapatnam was attended by 3 staff members, who presented papers & participated in continuing medical education programme & various symposium, 2 staff members delivered guest lectures at Karnataka state conference. One of the Professors attended the National Teacher Training course at Chandigarh.

Department has been actively helping in their blood collection drive.

Teaching programme continued throughout the year. New teaching method was started by two teachers. This method involved the student participation.

## DEPARTMENT OF BIOCHEMISTRY & NUTRITION :

This department is concerned with training the students for 1st M. B. B. S. M. Sc. (by research) and Ph. D. from this year we also give training to D. M. L. T. students. The report is as under :—

1st M. B. B. S.	Appeared	Passed	Percentages.
May—1986.	38	30	78.94%
November—1986.	211	173	81.99% Dist. 16
<b>M. Sc. Part—I.</b>			
May—1986.	12	10	Absent 2
October—1986.	1	1	100%
<b>M. Sc. Part—II</b>			
May—1986.	12	12	100%
		7 1st Class 5 11nd Class	
October	—	—	—

### M. Sc. by Research :

One Students were awarded M. Sc. degree and one students was awarded Ph. D. degree. Three students are working for their M. Sc. degree and Three students are working for their Ph. D. Degree.

### ARTIST SECTION :

1. Patients Photographs.	5,115
2. X-rays exposed.	3,809
3. Specimen etc. exposed.	1,465
4. Book copping etc.	12,865
5. Preparing of graphs, Charts, drawings etc.	3,811
6. Functions Photographs taken.	315
7. Nurses Photographs.	255
8. Slides prepared.	21,319
9. Prints prepared.	8,530

## MEDICAL RECORD DEPARTMENT.

The Scheduled bed strength during the year was 1,615. There was constant over crowding in the hospital, particularly in the children wards, and in the female surgical & Medical ward and Orthopaedic wards, even after strict scrutiny and restriction on routine admissions.

**Death Classified :** Out of 4,529 deaths 969 died within 24 hours of admission, 768 after 24 hours but within 72 hours of admission and 2,792 after 3 days or more from the date of admission. The figures are inclusive of 186 still births, Prematurity and Neonatal deaths. Deaths rate was 8.02 as against 8.28 during the last year.

**Confinement and Abortions :** The total number of confinements was 3,947 and that Abortion was 345 (including M. T. P. also).

**Medico –Legal Cases :** Resident Medical Officers attended the various courts for giving evidence in 464 Medico-Legal cases, as follows :—

**Labour Court :** 33, **Lower Court :** 292, **Session Court :** 55, **M. A. C. T. :** 65 **Juvelian Court :** 10, **Explanad Court :** 9.

115 P. M. Notes were filled in the Coroner's Court and 196 P. M. Notes were given to Police Stations.

**Medical Certificates :** Certificates were issued to different Institutions and persons during the year as under :

I) Undertreatment.	1,250
II) Opinion & Fitness.	9,982
III) Compensations.	162
IV) Insurance.	172
V) Injury.	174
IV) Injury to Police (Free).	...
VII) Municipal Staff.	4,687

Anti-Rabic Vaccination given during the year.

New	Old	Total	Deaths
6,797	18,820	25,617	12

### SOCIAL SERVICE DEPARTMENT :

The Social Service Department of K. E. M. Hospital was started in 1954. Now there are fifteen Social Workers.

The following are the notable activities of the Social Service Department, in addition to the routine activities.

- 1) Library for the patients is continued this year also in the Orth. Centre and in the Main Building with the help of the donations received.
- 2) The teaching programme for bed ridden children is continued this year also. Mr. A. P. Shah, M.S.W. is supervising the full time teacher since last ten years.
- 3) Free food to Indoor patients relatives, milk powder, old cloths to patient and their relatives given through Sanjivani and other charitable organisation.
- 4) Ration given once a month to poor patients and their families through Hindu Vishwa Parishad since the last ten years. Mrs. A. P. Shah has introduced this scheme to other hospitals.
- 5) Social workers arranged various entertainment programmes, film shows, Diwali and Christmas functions, Magic shows, handicraft sessions etc.
- 6) Group sessions are conducted with patients and their relatives in the wards and the O. P. D.s.
- 7) Diet demonstration arranged in Ward I and Ward XIV through Ministry of Agriculture and irrigation, Deptt. of food.
- 8) N. S. S. students were supervised by Mr. A. P. Shah.
- 9) Mrs. Keskar and Mrs. Goswami were awarded the Best Medical Social Workers award at the Diamond Jubilee Celebration.
- 10) Mr. Shah attended the seminar arranged by society for the Education of the crippled and a seminar at the All India Institute of Physical Medicine and Rehabilitation on, Recent development in the "Rehabilitation of the disabled". Other social workers also attended seminars and conferences.
- 11) Mrs. A. P. Shah arranged a permanent licence for a stall for a paraplegic patient.
- 12) Mrs. Goswami read a paper on "Sexuality" and the spinal cord injured' at the 4th National Conference on sexology at Ahmedabad. She gave a talk on the same subject, arranged by family planning Association of India and Secret.
- 13) Mrs. Goswami continues to be a member of the Paraplegic Foundation and has been elected managing committee member of council of International Programmes Fellowship in India in 1986.
- 14) Mrs. Goswami was deputed to the Rehabilitation International Conference at Bombay where she presented a joint paper on the "Role of Social Worker" intervention of family and community in the rehabilitation of the disabled.
- 15) Mrs. Goswami tillk the Orthopaedically handicapped patients on an excersion to the Nehru Planetarium.

16) Miss. B. K. Gandhi, M.S.W., attended the camp at Sarvane. The camp was organised by the preventive and social Medicine Department as envisaged under ROME SCHEME.

17) Miss. B. K. Gandhi, participated in the research project on the impact of Vasectomy on the Psycho socio and economic aspects of the patient and their family members.

The old patients came regularly to social workers for follow up for services like collecting drugs, case work, referral services to various social service organisation either for legal aid, employment, school admissions, to claim compensation etc.

The total number of new cases referred to the social service Department is 5,161.

1) Material aid (medicines, Milk, Powder, Appliances for heart surgery, Clothes, etc.).	:	2,650
2) Case work.	:	357
3) Discharging a patient from the hospital when there is a problem.	:	308
4) Rehabilitation.	:	471
5) Social Data.	:	385
6) Referral to other agencies.	:	258
7) Families of T. B. patients sent for screening.	:	150
8) Follow up.	:	582
<b>Total</b>	<b>:</b>	<b>5,161</b>

#### SETH DHURMAL BAJAJ ORTHOPAEDIC CENTRE AND RESEARCH INSTITUTE.

With the completion of the multistorey building, a new Orthopaedic Ward (No. 37) was started on the 3rd floor on 1st April 1986. Emergency Operation theatre was shifted in September 1986. to the ground floor and it is being furnished with air conditioners and recovery room to be restarted at the earliest. Routine Operation Theatre was restarted in the second week of May 1986 after approximately nine months of repair works and central airconditioner installation. The mobile Carm Image Intensifier received — a new last year is still not functioning and require major overhauling. Department will get A. O. set for fracture management soon.

Department continues to work in a six unit pattern. The O. P. D. working has improved with separation of morning (New cases) O. P. D. and afternoon (follow up) O. P. D. In addition two special weekly clinic under Dr. R. S. Dhir and (2) Osteoarthritis Clinic under Dr. M. N. Shahane have been started in the afternoon.

Intensive teaching and training of under-graduate and Post-graduate students were conducted. Both first and second students in M. S. Orthopaedic exam. May 1986 were from this institute. During 1986, Dept. also conducted one two-day Symposium (on 15 & 16th Nov.) on 'Late Reconstruction in Trauma' and another one day symposium (on 21st Sept.) on 'Kilbow Injuries' Dr. Robin Andrade (on 14th Oct.) from U. S. A. gave guest lecture on 'Cementless total joint replacement'. There had been intensive academic activities through-out the year. Many staff members took part in state level, national and International conferences, and presented scientific papers, took part in symposia and seminars and several of them were invited outside for guest lectures.

#### DEPARTMENT OF OBSTETRICS & GYNAECOLOGY.

##### Obstetric cases & Operations :

Total No. of Confinements.	:	3,947
Total No. of Deliveries.	:	3,602
Registered Cases.	:	3,397
Emergency Cases.	:	205
Normal Deliveries.	:	2,964
Abnormal Deliveries.	:	638
Premature Deliveries.	:	270
Breech.	:	54
Face.	:	17
Lower Segment Caesarian Section.	:	245
Forceps Deliveries.	:	109

Vaccum Extraction.	49
Twins.	36
Cord Presentation Prolpase.	1
Placenta Previa.	3
Abortion—S. P. 77 + M. T. P. 268.	345
<b>Mortality :</b>	
Maternal Deaths.	9
Neonatal Death in full term babies.	86
Neonatal Death in Premature babies.	87
<b>Still Births :</b>	
Full term.	116
Premature.	10
Foetal Malformations.	2
Vesicular mole.	2
<b>Maternal Abnormalities :</b>	
Pre-eclampsia.	17
Eclampsia.	2
Previous L.S.C.S.	18
Heart Disease.	6
BOH Pregnancy.	74
Triples.	2
Hypertension.	1
<b>Obstetrics Operations :</b>	
Total No. of Obstetrics Operations.	1491
M. T. P. with Lab. T. L.	146
M. T. P. T. L.	8
Abdominal T. L.	319
M. T. P.	89
Tighting of OS.	26
Hysterotomy.	2
Secondary suturing of wound.	24
Exchange transfusion.	36
Blunt Cureattage.	15
Cx biopsy.	20
Biopsy	14
Cervical Biopsy.	13
E. U. A.	21
Check curretage.	413
F. Curettage.	26
T. L.	8
Suction Evacuation.	10
T. L. Polypectomy.	13
I. U. C. D. Removal.	2
Hydro tubation.	6
Miscellaneous.	280
<b>GYNAECOLOGICAL CASES AND OPERATIONS.</b>	
Total No. of Gynasecological operations.	2579
Vaginal Hysterctomy.	291
Vaginal Hysterectomy with A. P. Repair.	194
Abdominal Hysterectomy.	120
Exploratory Laparotomy.	50
Fothergill's operation.	17
Vesico Vaginal Fistula repair.	9
Wertheim's operations.	6

Abdominal Cervicopexy.	11
Cervicopexy.	11
Tuboplasty.	15
Myomectomy.	13
Shirodkar vaginal repair.	13

**Laprosopy :**

D. & C.	466
D. & C. with Scopy	481
Diagnostic Sopy.	369
Lap. T. L.	143
Laprosopy.	25
D. & C. Lap. T. L.	31
Hysteroscopy.	44
Ex. Lap.	40
Loop Removal D. & C.	7
A. P. Repair.	14
Ovum Pick up.	14
Ovarian Cyste.	6
Tubal Recanalisation.	3
Miscellaneous.	56

**DR. N. A. PURANDARE RESEARCH CENTRE :**

Blood group Rh.	4786
V. D. R. L.	6054
Antibodies.	270
Hb. Estimation.	3720

**Biochemical :**

Blood sugar.	4090
Creatinine.	830
B. U. N.	3758
Liver Function test.	328
Fibrinogen.	56
Protein.	732
Uric Acid.	679
(Quality Control Programme of Vellor Participating from June 1981).	
17 Ketosteroides in Gynaec disorders.	52

**Special Studies :**

Semen Analysis.	1560
Barbodies in Endoerine patients.	38
24 hrs. Urine albumin.	18

**Amniotic Fluid Study for Fetal Maturity :**

(1) Nile Blue Test.	12
(2) Shake Test and F. S. I.	12
(3) Spectrophotimetry.	10
(4) Creatinine.	16
(5) Microbubble Test.	12
(6) Lecitin/Sphingomyelin ratio in amiotic F	16

**CYTOLOGY SECTION :**

No. of smears from Gynaec O. P. D. patients.	7,348
No. of smears from antenatal O. P. D. patients.	2,716
No. of smears from Family Planning Dept.	200
No. of smears from Miscellaneous.	259
Total No. of patients.	10,523
Total No. of Endometrial Aspiration smears.	76

Total No. of abnormal smears.	:	130
Mild Dysplasia.	:	19
Moderate Dysplasia.	:	12
Severe Dysplasia.	:	12
Carcinoma in Situ.	:	3
Suspicious.	:	22
Invasive squamous carcinoma.	:	60
Invasive adeno carcinoma.	:	2
Endometrial biopsy.	:	77

**Research Projects :**

Imunno peroxidase staining to defect herper antigen on abnormal amears and tissues.	:	60
Immuno fluorecence staining to defect herper antigen on abnormal smears.	:	28

**POST PARTUM PROGRAMME SECTION :**

Vesectomy.	:	265
Tubectomy.	:	1,145
I. U. C. D.	:	686
M. T. P.	:	958
Oral.	:	970 Pkot.
Condom.	:	39,000 pieces.

**ORAL CONTRACEPTIVE CENTRE :**

	Miud	Oral Pills	Cut	Multiload	Net. Inj.	L.P.
Total No. of new patients.	—	109	726	3	4	—
No. of cases continuing at the end of the year.	102	472	2736	470	1	237
No. of cases closed during the year.	23	217	372	26	92	19

**HIGH RISK PREGNANCY CLINIC :**

BOH — Old patients.	:	219
New patients.	:	68
Rh — Negative — New patients.	:	77
New patients.	:	28
Sterility.	:	20
P. N. I.	:	226
Pregnancy Test.	:	17

**MEDICAL TERMINATION OF PREGNANCY SECTION :**

Total M. T. P.	:	727
Socond trimester.	:	192
Menstrual regulation studies included in 1st trimester.	:	96
Out patients section ovaculation of 1st trimester M. T. P.	:	545
Intra amniotic saline.	:	5
Extra amniotic encredil.	:	123
Gynaec & obst. Infection patients.	:	68
Vaginal Hist.	:	42
U. T. I.	:	20



**RESEARCH SECTION :**

- 1) Lamical/Isap Test/PGE2 gel for preoperative dilatation cervix in 1st trimester M. T. P.
- 2) BHCG Vaccine for fertility control phase,1 study.
- 3) PGA1 in severe pre-sclampsia.
- 4) Perinatal infection study.
- 5) Triquiler and oral combination pills.
- 6) Monthly Net injection.
- 7) Sulprostone and eneredil for II trimester termination.
- 8) Ru 486 for Menstrual regulation.
- 9) Ultrasound growth parameter.
- 10) Ultrasonographic study on placenta.
- 11) Invitro fertilisation and embryo transfer.

**C. V. T. C. LABORATORY :**

The Gardio-Vascular & Thoracic Centre Laboratory has following section :

1. Clinical Pathology.
2. Clinical Biochemistry.
3. Histopathology.
4. Research Section.

The tests which have been a carri'd out in the laboratory during the year 1986 were as follows :—

**I) CLINICAL PATHOLOGY SECTION :**

	No. of Samples.	No. of Test.
(a) Complete Haemogram (haemoglobin, RBC, Total & differential count, PCV & ESR).	10,217	56,085
Material Parasites.	88	88
Lupus Erythematosus. (L.E. Chen cell)	101	101
(b) Routine analysis of Urine, Stool, Sputum & body fluid including microscopic examination.		
Urine.	4,540	13,620
Stool.	1,535	3,070
Sputum.	3,629	3,629
Pleural fluid.	175	175
<b>Total.</b>	<b>20,285</b>	<b>76,768</b>
<b>BIOCHEMICAL SECTION</b>	<b>+ 81,006</b>	<b>+ 14,060</b>
<b>Grant Total</b>	<b>1,01,291</b>	<b>2,19,828</b>

## II) BIOCHEMICAL SECTION :

(a) Liver Function Test.	5,675	28,375
Alkaline Phosphatase.	170	170
Acid Phosphatase.		
Prothrombin Time.	3,769	3,769
Clotting Time.	2,117	2,117
Blooding Time.	112	112
Serum Glutamic Oxalacetis. Transaminase.	8,522	8,522
Setum Glutamic Pyruvate. Transaminase.	8,522	8,522
(b) Carboyate metabosiam—		
Blood Sugar.	7,322	7,322
Urine Sugar. (Quantitative & Qualitative).	744	744
(c) Kiney Function Tests.		
Blood Urea Nitrogen.	9,708	9,708
Creatinins.	1,762	1,762
Uric Acid.	322	322
(d) Serum Electarolytes.	19,682	59,046
(Sodium. Potasium & Cholorides).		
Calcium (Ca).	99	99
P. O4.	67	67
Cholesterol.	3,058	3,058
Protein E. P. P.	247	247
V. M. A.	10	10
Total L. D. H.	219	219
L. D. H. isenzymes.	219	219
Total C. P. X.	159	159
Lipoprotein.	1,550	1,550
Triglycerides	2,873	2,873
H. D. L. Ch.	1,296	1,296
Complete lipid profile.	2,299	2,299
Antitrypsine.	2	2
R. A.	302	302
Misc.	10	10
<b>Total.</b>	<b>81,006</b>	<b>1,43060</b>

## IV) RESEARCH SECTION :

1. Cholesterol.	:	1,588
2. Study of Lipid Fractions.		
(a) H.D.L. Cholesterol.	:	755
(b) VLDL Cholesterol.	:	755
(e) LDL Cholesterolides.	:	755
3) Triglycerides.		
LDL Triglycerides.	:	20
VLDL Triglycerides.	:	90
HDL 2.	:	90
HDL 3.	:	90
4) Ns, K-ATPASE.		
5) Ca, Mg, ATPASE.		
6) Na +, K +, Electrolytes.	:	155
7) Total CPK.	:	717
8) CPK—iscenzymes.	:	217
9) LDH.	:	155
10) LDH-iscenzymes.	:	155
11) Serum Anylase.	:	65
12) Urinary Anylase.	:	65
13) Serum Creatinine.	:	217
14) Urine Creatinine.	:	217
15) Lipase.	:	127
16) BUN.	:	115
17) Autychelinstesase.	:	81
18) Haemogram.	:	81
19) Blood Sugar.	:	81
20) Total Proteins.	:	81
21) Albumin.	:	81
22) APO A	:	110
23) APO B	:	110
24) L, Autitrypsin.	:	210
25) Glutamyl Transpeplidase.	:	17
26) Alcohol.	:	219
<b>Total</b>		<b>8,704</b>

## III) HISTOPATHOLOGY SECTION :

1) Surgical slides prepared.	:	1,062
2) Cytology slides stained.	:	1,251
3) P. M. slides stained.	:	11,900
4) Special stains on P. M. & Surgical.	:	350

**IMMUNOLOGY SECTION :**

1. Immunoglobulin	No. of Samples.
Ig G	33
Ig A	31
Ig M	87
<b>Complement :</b>	
C3	150
C4	18
<b>Alfa Feto. Proteim :</b>	
(AFP)	14
<b>C. Reactive Protein :</b>	
(CRP)	12
Cryoglobulin.	9
T. Cell Function.	11
PWN Function.	11
Pneumococal Antigen.	2
	Detection
ASLO	2
CHSO	2
<hr/>	
<b>Total :</b>	<b>372</b>

**E. N. T. DEPARTMENT, SPEECH, THERAPY & AUDIOLOGY .**

Number of admission.	2,232
Number of New and Old patients, seen in OPD :	
New :	16,122
Old :	28,213
<b>Number of classification of Investigations :</b>	
1) Facial NET :	
2) E. N. G. :	— (Machine not working)
<b>3) Audiograms :</b>	
No. of New Audiogram.	3,117
No. of follow up.	1,243
No. of Impedance.	70 (Machine is not functioning since 18-1-1986).
<b>Speech cases :</b>	
New.	199
Bekesy.	Nil.
Glycerol.	342
Therapy sessions Nos.	3,045
Total No. of Operations.	2,449

**List of visits to the department : —**

— Dr. Abrilal Mukharjee, Prof. of  
ENT Medical College — Calcutta.

**TUMOUR CLINIC.**

During the year about 250 patients were seen in O. P. D. Similarly around 250 referred indoor cases were examined during this period. The Tumour clinic offers treatment planning and regular follow up for patients attending the hospital. The research on indigenous drugs for cancer is continued.

**DEPARTMENT OF MEDICINE :**

The Department of Medicine which forms a major department of the Seth G. S. Medical College look after the teaching needs of 200 under-graduate medical students, post-graduate students in internal medicine, paramedical personnel like students of physical, occupational therapy and students of nursing school. We have now well planned introductory lecture series consisting of about 20 lectures mainly highlighting the principles of history taking, physical examination and an approach to main medical problems while they are doing their junior clinical term. The main series of lectures are now delivered while they are doing their senior medical term after their second M. B. B. S. Examination. This series consists of 60 lectures with emphasis on general topics like infection, fluid electrolyte balance and chemotherapy. They also are divided subjectwise, nutritional disorders, cardiovascular diseases, kidney disorders, gastroenterology, neurology, haematology, rheumatology and endocrinology. The lectures are delivered by all the teaching members of the staff belonging to the Department of Medicine and other subspecialty departments and are spread over a period of 2½ months. The number of students attending the lectures are around 50 at a time and the same series is repeated 5 times a year. These 50 students to their clinical terms at the same time in 6 medical units consisting 3 full-time Units headed formerly by Dr. V. N. Acharya, Dr. F. D. Dastur and Dr. G. H. Tilve. (now by Dr. G. H. Tilve, Dr. K. P. Chawla and Dr. Philip Abraham) and 3 Honorary Professors headed by Dr. P. D. Anjaria, Dr. C. P. Dalvi and Dr. S. G. Dalvi. Besides Internal Medicine, Nephrology sub-speciality has separated out from the Department of Medicine at the end of year 1986, but other subspecialities continue to form part and parcel of Department of Medicine. They are: (1) Tetanus, (2) Arthritis and Immunology, and (3) Nuclear Medicine. New subspeciality Geriatrics has been introduced to Dept. of Medicine from February 1986.

During the year under write-up, laboratory has carried out a record number of 2,50,505 investigations. Besides this, it has established hormonal bioassays by RIA methods to include assays of PTH, Calcitonin, Angiotension I, Angiotension II, Aldosterone, Catecholamine.

The Nuclear medicine Laboratory under the supervision of Dr. G. H. Tilve has made fruit ful use of scanners and gamma camera and has offered valuable radioiodine studies. It has also undertaken several studies on organs like thyroid, brain, liver, kidney, hepatobiliary system and whole body scans, as part of their work output.

The Arthritis and Immunology Clinic continued to offer their good services to various patients. It saw 367 new patients and 1,623 old patients during the year under observation.

The tetanus unit had 254 admissions during the year which included 20 neonates. The overall mortality rate has shown a considerable lowering and stood at 27.01% during the year.

With increasing population of aged individuals, there is growing need of health services for them. As a small effort towards it, one special Geriatric outpatient is started by the Department from February 1986. The Clinic is headed by a full-time unit chief of Dr. K. P. Chawla. The Clinic runs once in a week afternoon time and is still in a neonatal stage. Patients with age 60 or above are looked after in this clinic with more personal attention to their medico-social needs. Average attendance is about 12 to 20 patients per clinic. Clinic at present offers health care, but soon other research aspect will be started for further better care.

**ARTIFICIAL KIDNEY DEPARTMENT :**

The Renal Clinic attached to the AKD department saw a total of 2247 patients during the year. Out of this, 475 were new patients and 1,772 were old patients. This figure of total number of patients seen is 15% more than the previous year 1985.

Total no. of indoor admissions between we. 34 and 34-A was 1,060. Most of these cases needed Intensive Care management. The average stay per patient was 25 days. Total no. of deaths were 144 patient.

No. of patients operated upon under  
A) Minor Operations — Kidney biopsied  
A. V. Shunts.

144  
17

B) Major operations involving dialysis :

Total no. of dialysis — 2,572, out of which 282 were peritoneal dialysis and 2,290 were hemodialysis.

**C) Very major Operations :**

Kidney transplants – 16 patients.

**No. of students under training in the year :**

**Post-graduate :**

M. D. Examination – 6

The Lab. technical staff attached to the department have shouldered the following workload in the year under consideration.

1) A total renal package consisting of following estimations viz. blood Urea Nitrogen (BUN) Sr. Cr., Total proteins, Alb., Glob, Serum Bilirubin, Serum electrolytes and serum bicarbonates were done on 9600 samples.

- 2) Serum Calcium and Phosphorus was estimated in 557 samples.
- 3) Glucose tolerance curve was estimated done on 57 samples.
- 4) Blood glucose on 118 samples.
- 5) Uric Acid was estimated on 206 samples and barbiturates were estimated on 18 samples.

The staff in the Applied Biology Laboratory have done the following work :

1) Urine culture and their sensitivity	:	3867	Samples.
(a) Mid-stream urine and catheter urine.	:	3778	Samples.
(b) Bladder puncture urine.	:	89	Samples.
2) Blood Cultures.	:	115	Samples.
3) Miscellaneous cultures.	:	907	Samples.
(a) Swab cultures.	:	371	
(b) Peritoneal fluid and ascitic fluid culture.	:	454	
(c) Catheter tip (urinary and V. S. P.D. catheter tip).	:	82	
4) Australia antigen/antibody detection.	:	111	Samples.
5) Immunoglobulin and Complement (C3 & C4 )	:	135	Samples.
6) Prothrombin time.	:	975	Samples.

**DEPARTMENT OF GASTROENTEROLOGY :**

(1) 'New patients in OPD.	:	1,703
(2) Total (Old + New)	:	3,707
(3) Patients admitted.	:	372
(4) Sigmbidoscopies.	:	152
(5) UGI Scopies.	:	2,180
(6) Sclerotherapy.	:	825
(7) Colonoscopies.	:	26
(8) ERCP	:	48
(9) Bromossulfalein test.	:	42
(10) Sigmoid swab.	:	125
(11) Augmented histamine test.	:	90
(12) Lactose tolerance test.	:	56
(13) Amylase.	:	150

**DEPARTMENT OF ENDOCRINOLOGY :****Teaching :**

**Under-graduate :** Dr. Bhandarkar and Dr. Shah participated in undergraduate teaching programme of the Department of medicine. They gave a course of lectures on Endocrinology every three months to the final year students doing 2nd medicine term.

**Post graduate :** A detailed ward round was taken by Dr. S. D. Bhandarkar every Wednesday, the other teaching activities were (a) a journal review club once a week : (b) a seminar once a week : (c) a group presentation and discussion of cases attending the puberty and growth clinic every Saturday.

**Patient Services :**

The department gave patient services as follows :—

	New patients.	Old Patients.
Diabetes Clinic.	778	12,553
Endocrinology clinic.	1,865	3,520
Puberty and Growth Clinic.	226	453
<b>Total :</b>	<b>2,869</b>	<b>16,526</b>

Admissions.	Male 90	Female 66	Total. 156
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**Laboratory Tests :—**

Blood sugar.	:	14,533
Total proteins.	:	843
Albumin.	:	843
BUN.	:	854
Creatinine.	:	1,000
Cholesterol.	:	955
Haemoglobin.	:	1,216
WBC.	:	1,186
ESR.	:	1,174
Urine routine.	:	1,275
Urine osmolality.	:	216
17 Ks.	:	151
17 KGS.	:	151
T4	:	799
T3	:	799
T. S. H.	:	288
Acid load test.	:	6
<b>Total :</b>		<b>26,289</b>

# CLINICAL BLOCHEMISTRY, DEPARTMENT OF MEDICINE & SURGERY.

(LAB—44)

This clinical research laboratory under Dr. A. V. Potnis, Professor of Clinical Biochemistry, is catering all services to all full-time medical units under under Dr. V. N. Charya, Dr. G. H. Tilve, Dr. K. P. Chawla, Dr. P. Abraham and part services to other units *vis.*, Dr. C. P. Dalvi, Dr. Sunil Dalvi, Dr. P. D. Anjaria. In addition to this full services to Geriatric OPD and Endocrinology are offered. Part services are also offered, Dr. S. K. Pandya, Dr. P. U. Şhah, Dr. D. R. Doongaji and Gyn. & Obst. Dept., Orthopaedic Deptt., are also very often covered on request. Following are the total number of investigations carried out from April 1986 to March 1987.

**(A) Biochemical (Routine) :—**

BUN.	40,067
Creatinine.	40,067
Albumine.	40,067
Globulin.	40,067
Total Bilirubin.	40,067
Direct Bilirubin.	40,067
SGOT.	9,745
SGPT.	9,745
Sugar.	16,919
Uric Acid.	329
Calcium.	2,086
Phosphorous.	2,086
Alk. Phosphatase.	2,247
Acid. Phosphatase.	52
Sodium.	48,914
Potassium.	48,914
Chloride.	48,914
Biocarbonates.	48,915
Creatine clearance.	365
D'Xylose.	146
Fecal Fat.	145
Osmolality.	42
Bl. Harbiturate.	209
Cholesterol.	798
Urine Chemistry.	990

**(B) Haematological Investigations :—**

CBC.	8,452
ESR.	989
Haemoglobin.	1,176

**(C) Routine Analysis :—**

Microscopic + Chemistry.	4,602
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**(D) Stool Examination & Sigmodoscop Swab. :—**

Stool.	1,016
Sigmodoscopic.	30

**(E) Special studies :—**

Fibrinogen.	69
Prothrombine time.	1,756
Bleeding time.	35
Clotting time.	35
Serum Amylase.	213
BSP.	391

Total

5,00,726



## Dr. J. C. PATEL DEPARTMENT OF HEMATOLOGY :

Department was inspected by Dr. K. K. Das from Trivandrum who was deputed by Medical Council of India. We were given to understand that he recommended the Department he permitted to enroll on PG student every year. We has replied to the questionnaire sent by MCI. However, there has been no reply from the MCI. Deptt. organized the 6th Intensive PG course in Hematology for a week. It was attended by about 50 student from all over the country. Dr. Mehta attended the 41st annual conference of Association of Physcian of India where he was the outgoing president. He was convenor of a plenary session and chaired several scientific sessions and presented papers. Dr. B. C. Mehta attended the 20th Congress of International Society of Hamatology at Sydney and presented a paper on 'Iron deficiency in beta thalassemia trait'. He also participated in a symposium on 'Teaching Hamatology' at Unversity of New Zealand, Auckland. De. Mehta was invited on faculty of CME Programme at the 27th Annual Conference of India Society of Hamatology and Blood Transfusion at Trivandrum where he also chaired a scientific session and presented a paper. Dr. Mehta was also on faculty of CME programme at the annual conference of Bombay Hematology Group, where he also chaired the session. Dr. Mehta was elected President of Indian Society of Hematology and Blood tranfusion *Vice* — President of India society for Clinical Pharmacology and Therapeutics. Department continues to be one of the centre in multicentric study in Leukemia and Hemophilia organized by I. C. M. R. Dr. Maomi Santos has joined the Department as a Lecturer.

No. of Admissions.	133 (75 male, 56 female, 2 children)
No. of patients attended in OPD	4,182
a) New .	1,125
b) Old	3,057
<b>Investigations :—</b>	
1) Complete Blood Count.	2,661
2) Erythrocyte Sediment Rate.	225
3) Bone marrow aspiration & Biopsied	294
4) L E Cell test.	440
5) Bone marrow iron stain.	251
7) Urine Haemosiderin.	98
7) Serum Iron.	563
8) TIBC.	563
9) Transferrin saturation.	563
10) Red Blood Cell Fragility.	356
11) Complete Red Cill Fragility.	36
12) Sucroselysis.	90
13) Sickling.	510
14) Foetal Hb.	504
15) Hb. electrophoresis.	678
16) Bleeding time.	325
17) Clotting time.	325
18) Cloreteration.	325
19) Prothrombin time.	385
20) Partial thromboplastin time.	412
21) Thrombin time.	386
22) Platelet count.	156
23) Thromboplastin Generation Test.	140
24) AHG Level.	290
25) FXIII.	385
26) FVIII antibody screening.	48
27) FVIII antibody quantitative.	9
28) PF 3 availability.	10
29) Platelet aggregation.	5
30) GVIII Related antigen.	2
31) Croglobulin.	4

32) Fibrinogen.	42
33) Euglobulin lysis time.	10
34) Blood Group.	35
35) Urine Routine.	150
36) Bilirubin.	305
37) SGOT.	324
38) SGPT.	324
39) Sr. Tot. protein.	432
40) Alkaline Phosphatase.	320
41) Protein EPP.	305
42) Australia Antigen.	324
43) VDRL.	40
44) VGT.	320
45) Acid Ham Test.	3
46) Sr. Ferritin.	609
Cytochemistry.	75
48) Antitetanus Antibody titre.	600
49) PP/Haem Ratic.	150
50) Screening test.	744
51) HbA2 by chromatography.	261
52) HTLV 3.	70

#### DEPARTMENT OF RADIOLOGY :

##### Cardiology OPD attendance :

Follow Up.	3,825
Indoor patients.	1,347
Savla ICU.	467

##### Investigations :—

##### Noninvasive Techniques :

1) Electrocardiography (combined Indoor & OPD).	8,300
2) Echocardiographic studies : (Echo machine out of order).	
3) Three channel recordings.	51
4) Maximal Exercise Stress testing :—	
a) Routine Treadmill Exercise.	260
b) Computerized 12 lead exercise test (CST).	169
5) 24 hours Ambulatory Monitoring.	150
6) Rehabilitation Programme —	
a) Occupational therapy (Indoor & OPD).	527
b) Physiotherapy (Indoor & OPD).	896
7) Cardiopulmonary Resuscitation.	200

##### Invasive Studies :—

8) Cardiac Catheterization & Angiography including Research (Paediatric & Adult).	235
9) His Bundle Electrocardiography.	10
10) Transvenous Bedside Pacing.	200
11) Permanent Pacemaker Implantations.	17
12) Electrophysiological Studies (Recognition in management of arrhythmias).	200
13) Bedside Haemodynamic Studies.	15

## DEPARTMENT OF CARDIOLOGY — UNIT — II (Dr. P. A. Kale).

Indoor patients.	Card New	OPD Patient Follow up	EGG Total
1,624	2,304	7,770	36,259

## Intensive cardiac Care Unit :—

Cases admitted Ward	32	ICCU	901
Pacing.	Temporary	Temporary	70
		Permanent	12
Pacemaker follow ups.			167
ECGs.	..	ICCU	2,100
		Ward 32	2,359
Treadmill Strees Test.	..		200
Computerized Treadmill stress.	..		244
Cardioversions.	..		70
Rehabilitation — Occupational	Therapy.		599
Physiotherapy.			943

## DEPARTMENT OF UROLOGY :—

During the year 1986, the Department maintained its progress in the fields of patients care, medical education and research. In addition, some new activities were started in the Department.

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We did carbon monoxide measurements in blood in the subjects indicated in the table and lung function tests.

## DEPARTMENT OF UROLOGY :—

During the year 1986, the Department maintained its progress in the fields of patients care, medical education and research. In addition, some new activities were started in the Department.

No. of Admissions.			1,253
O. P. D. Attendance :			
	New	Old	
1) Urology.	705	1128	1,833
2) Stone OPD	127	203	330
3) Infertility OPD	249	398	647

## Operations :

Major Operations.	340	
Minor Operations.	32	
Phaeochrocytoma.	2	440
Micro-Vas-Reanasto Mosis.	48	
Renal Transplantation	18	

## Percutaneous Nephrolithotomy.

## Endoscopic Surgery :

TURE	67	
TURB	13	200
VIU	92	
Other	28	

## Diagnostic Endoscopies.

1,803

**New Activities started in the Department in 1986 :**

- 1) A new Urinary Stone Clinic was started as an outpatient service by the Department to give special attention and treatment to patient by urinary stone disease.
- 2) A regular Percutaneous Renal Surgery Programme was started in April 1986 as a new Operative Therapy for patients suffering from Urinary Calculi. About 80 cases received this new, latest mode of treatment in the Department during the year 1986.
- 3) A new mode of investigation and treatment of Impotence involving the use of intra-cavernosal injection of Papaverine was commenced in the Department.

**Investigations carried out in Urology Lab. :**

Semen Analysis.	:	1,120
Urine Culture (OPD).	:	1,260
Urine Culture (Ward).	:	571
Haemogram.	:	517
Urine Routine.	:	190
Testicular Biopsy.	:	73
Renal Chemistry.	:	715
Blood Sugar.	:	324
Uric Acid.	:	111
CA/P/Alk. Phosphatase.	:	139
Acid Phosphatase.	:	6
SGOT/SGPT.	:	14
<b>Total</b>	<b>:</b>	<b>5,040</b>

**PLASTIC SURGERY DEPARTMENT :**

	<u>No of pts. attended</u>
1) Weekly out patient Clinic held every Thursday in the Afternoon.	978
2) Follow up Clinic conducted by the Honorary Staff Thrice a week.	2,407
3) Patients referred from the other departments to this department.	595
4) The feeding guidance clinic held every Sunday morning for cleft lip & palate patients.	303
5) Keloid Clinic for Kenacort Injections held every Thursday in the morning.	363
6) Patients referred from Casualty Department.	2,311
7) Indoor patients admitted in Ward - 16.	689
8) Patients treated in Burn Ward.	146
9) Operative procedures carried out in Plastic Surgery Theatre.	978
10) Emergency procedures carried out in the M. O. T.	1,534
11) Outdoor dressings carried out in the department.	2,600

**DEPARTMENT OF RESPIRATORY MEDICINE :**

The load of out-patient and inpatients departments showed an increase in the year 1986.

2563 new cases were registered in chest clinic and 15296 old cases were attended in addition for follow up.

837 patients were admitted for indoor treatment in the year 1986. The number of patients referred for intensive care was 227, 90 patients were put on respirator, 30 cases were operated for lung surgery in this unit and 172 biopsies were done in the year 1986. Allergy testing with skin test was done on 65 patients.

**Work load of Pulmonary Function Laboratory in 1986.**

Blood Gas.				PFT	
Ward Samples	Artery Puncture Study.	Catheter samples	COHb & MetHb study	OPD and indoor	Reserch patients.
7160	264	2701	180	1006	220

**Environmental Pollution Research Centre.**

The work started with selection of suitable areas for study on a longterm basis the effects of vehicle pollution and ambient air pollution. It was identified that Parel area had the highest SO<sub>2</sub> and particulate pollution in the city, Khar area away from main road was the lowest polluted area. For studying vehicle pollution after inspection of several traffic junctions, two junctions were thought to be most congested. a) Maheshwari Udyan particularly in evening and monsoon, b) Haji Ali - Peddar Road particularly in morning and evening in winter.

After identifying suitable residential clusters of bldgs. we did a census of these areas between Jan. & March '86 and July & September 1986. The following table gives the subjects covered :—

Area	Parel	Khar	Maheshwari Udyan	Peddar Road
Census subject.	2025	1100	2261	1464
No. of subjects studied.	349	388	383	474

We did carbon monoxide measurements in blood in the subjects indicated in the table and lung function tests.

Area	Parel	Khar	Maheshwari Udyan	Peddar Road
COHb.	308	334	328	354
Lung function test.	349	388	383	474

An additional tests for *i.e.*, X-ray were done in Parel - 106, Khar-75, Maheshwari Udyan - 60 and Peddar Road - 75 were done. Daily health diaries were maintained in Maheshwari Udyan - 186 and Peddar Road - 175. We have also done preliminary analyses of 2 areas and would have the results of all 4 areas by March - 87.

A total of 129 patients with chronic bronchitis have been studied regularly in the clinic for collaborative follow up.

**DEPARTMENT OF NEUROLOGY :**

This department runs Neurology and two Epilepsy clinics per week.

**Average attendance per week :**

Neurology O. P. D.	:	60	New cases.
		150	Follow up cases.
Epilepsy O. P. D.	:	40	New cases.
		200	Follow up cases.
No. of Indoor admissions.	:	403	
No. of E. E. G. S.	:	937	
No. of E. M. G. S. and Evoked Potential Studies.	:	211	
Neuroradiology	:		
Investigations :—Myelogram			
Carotid Angio & Vertebral Angio.			

**Important Events :**

Medical Council of India Inspection by Dr. Gouri Devi.

Visitors :— a) Dr. Lewis P. Rowland.

b) Dr. Simon Shorvon, Dr. Henriksen,  
Dr. Johannesswe and Prof. Dieter Schmidt.

Symposium on 'Drug therapy and Drug monitoring in Epilepsy'

**DEPARTMENT OF NEURO—SURGERY :**

Total no. of Out-patients.	:	5,552
Total No. of In-patients.	:	831
Total No. of Referral patients.	:	2,207
Total No. of Investigations.	:	1,572
Total No. of Operations.	:	830

**OUT—PATIENT SERVICES AT DR. R. N. COOPER HOSPITAL.**

During the year 1986 we saw 296 patients at this outpatient department in contrast to 266 the previous year. Of these 51 were transferred to our wards at the K. E. M. Hospital. We remain impressed by the excellent care afforded to patients with head injury by the surgical units at Dr. Cooper's Hospital.

**Visitors :**

Dr. Bindu T. Desai, Associate Professor of Neurology at Cook Country Hospital and Medical School spent several weeks with us. She continued her talks on **Science and History**.

**VISITS TO OTHER CENTRES :****1) Dr. Sunil K. Pandya—**

- a) Examiner for M. Ch. Neurosurgery, Madras Medical College. University of Madras, 19—20 March.
- b) Examiner for the M. C. h. Neurodurgery, Christian Medical College, Vellore, University of Madras, 21 March.
- c) Member, Selection Committee for Professor of Neurosurgery, Sanjay Gandhi Postgraduate Institute of Medicine, Lucknow, 28 March.
- d) Workshop on Development of Clinical Neurosciences in India. HIMHANS, Bangalore, 24-26 April.
- e) Advisor on Selection Committee for 3 posts of Neurosurgeons, U. P. S. C. New Delhi, 26 June.
- f) Examiner for M. Ch. Neurosurgery, NIMHANS, University of Bangalore, 18-19 August.
- g) Examiner for M. Ch. Neurosurgery, Madras Medical College. University of Madras, 20-21 November.

2) **Dr. Ranjit D. Nagpal.**

a) International Seminar on Cervical Spine, NIMHANS, Bangalore, 12-14 September.

Presented paper : Tuberculous atlantoaxial disease including dislocations. 13 September.

b) 36th Annual Conference of Neurological Society of India New Delhi. 12-15 December.

Presented paper : New technique for advancement of orbits in coronal synostosis. 14 December.

c) Examiner for M. Ch. Neurosurgery, University of Bombay October-November.

**Other Lectures, Talks :**

a) Lecture on history of anatomy to 1st M. B. B. S. class, Seth G. S. Medical College, 15 February.

b) Lecture on major epidemics in Bombay at Seminar on Bombay's Disasters : Bombay Local History Society, St. Xavier's College 9 August.

c) Lecture on medical writing at Workshop on medical Communication, Ambassador Hotel, 24 August.

**DEPARTMENT OF PAEDIATRICS.**

Indoor patients. : 3323

Indoor patients. : 3323

Male Child. : 1866

Female Child. : 1357

Outdoor patients : New :—9336 Old :—19,605

Newborns (Postnatal wards). Total live births. : 3,496

Total still births. : 120

Pernatal mortality for year 1986 : 78 per 1000

Neonatal mortality for year 1986 : 57 per 1000

**Speciality O. P. D. Attendance :**

Unit I : Genetic Clinic — 869

High Risk Infants OPD — New cases : 688

Old cases : 1714

Unit II : Pediatric chest clinic 295

Pediatric G. I. O. P. D. 71

Unit III : Rheumatic fever OPD 657

(New + Old) Nephrotic Syndrom 257

**Well baby clinic (All units) — Total Immunisation attendance :**

Unit I — 7916

Unit II — 3036

Unit III — 2627

**URRAN HEALTH PROGRAMME :**

Under this programme comprehensive care is provided to infants and under six skinics conducted or treatment of minor ailments, developmental assessment, Immunisation, nutrition advice, education, nutritional supplementation etc. at following centres.

1) Prabhadevi child Welfare centre : Unit II

2) Naigaum child Welfare centre : Unit III

In addition to comprehensive health care nutrition classes and milk distribution has been done regularly.

**School Health Clinic :**

Under this programme, children from Municipal Schools in 'F' and 'G' wards are transported to K. E. E. M. Hospital for regular check up investigations and treatment.

**Post-graduate Teaching Programme.**

- i) Clinics by senior staff members.
- ii) Journal club meeting, once a month.
- iii) Postgraduate seminar, unit wise, with oral & audio-visual participation by PGs on topics of academic and practical importance, once a month.
- iv) Death conference with dept. of Pathology once a month.
- v) Interhospital paediatric meeting once a month.

**UNDER—GRADUATE TEACHING PROGRAMME :**

The undergraduate teaching programme comprises 3 months clinical posting in the III M. B. B. S. year.

The term includes 50 lectures, about 60-70 bed side clinics, ward rounds, OPD attendance, emergency attendance with instructions, on emergency paediatric management through clinics by Registrar. Entire syllabus of paediatrics as recommended by the Medical Council of India and the Indian Academy of Paediatrics is covered. The students performance is evaluated in the last week of the term as follows :—

Theory : 100 marks.

Practicals including clinical cases and viva : 100 marks.

**PAEDIATRIC RESEARCH LABORATORY :**

869 cases have been seen in the Genetic clinic. Referrals from all municipal corporation hospitals, peripheral hospitals, govt., hospitals and hospitals over Maharashtra, Gujarat and Madhya Pradesh. The Laboratory and genetic division continues to be appreciated as an all India reference centre, with enquiries on genetic disabilities coming in from as far Rajasthan and West Bengal.

The laboratory has been ranked 33rd out of 343 Quality Control Lab., Vellore, for January—June—86.

New advances and techniques set up by Genetic clinic are as follows :—

i) Attempts to standardise 2-dimensional electrophoresis for detection of mucopolysaccharides in amniotic fluid, for prenatal diagnosis of mucopolysaccharidoses.

ii) Successful analysis of chromosomes from amniotic fluid for prenatal diagnosis of Down syndrome and other chromosomal disorders. Amniotic cell fibroblast culture has been practised and achieved with intermittent technical difficulties. Out of 7 amniotic fluids obtained, 4 have been cultured with clear chromosome pattern successfully.

iii) Chorion biopsy — the most recent tissue abroad for studies on prenatal diagnosis, have been taken up limited way by the laboratory. No culture have been successful, but direct karyotypes have been done successfully in 17 specimens to help standardise the procedure. This could be used for prenatal diagnosis of chromosomal disorders at an early stage.

iv) Chromosomes have been obtained successfully from 10 pregnancy at an early stage.

iv) Chromosomes have been obtained successfully from 10 pregnancy termination abortuses. This will aid later in doing chromosomes successfully from malformed abortuses and still births.

v) Ms. Shampa Datta and Ms. Sanjeevani Khurandal, J. S. Os. (Cytogenetics) attended workshop for recent advances in laboratory techniques for diagnosis of genetic disorders-AIIMS, New Delhi, January — February — 1986.



## NEONATOLOGY :

Unit.	Admission	Death	Triple			Polio				
			I	II	III	I	II	III	IV	V
Dr. N. B. Kumta. (Unit - I)	1197	80	1225	999	779	1519	1050	968	718	481
Dr. M. D. Shah. (Unit - II)	829	81	438	375	316	469	407	390	300	358
Dr. P. W. Kandoth. (Unit - III)	1347	35	478	310	520	359	294	294	205	170

## PRABHADEVI MATERNITY HOME (UNIT - II) :

	I	II	III	IV	V
Polio :	931	765	711	521	451
Triple :	931	765	711		
Booster-DPT :	295	143	97		
Booster-DT :	231	139	—		
Total No. of B. G. G.			2,292		
Clinic visits :					
New			448		
Old			574		
Home Visits :					
New			468		
Old			188		
Measles.			303		
Vit Ist.			328		
A-RC			991		
Sterilizations.			425		

## NAIGAUM MATERNITY CENTRE (UNIT - III)

	I	II	III
Polio & Triple	516	344	
Polio & Triple.	516	344	281
Booster.	119	36	
Measles.		175	
Home visits.		1650	
Total Clinic attendance.		2260	
Milk Distri.		1200	
Vit.—A.		1316	

## Dr. N. B. Kumta. (Unit - I)

O. P. D.	Total No. of Cases
Genetic Clinic.	: 869
BOH	: 2402

## Dr. M. D. Shah (Unit - II)

O. P. D.	Total No. of Cases.
G. I.	: 71
P. C. C.	: 295
School Clinic.	: 1367

## Dr. P. W. Kandoth (Unit - III)

O. P. D.	Total No. of Cases.
Well Baby Clinic.	: 2627
Rheumatic & Nephrology	: 914.

**DEPARTMENT OF DERMATOLOGY & VENERELOGY :**

Following statistic shows the patients treated during the year 1986, in the Leprosy Unit :

(a) New pateints registered at K. E. M. Hospital	470
(b) Repeated patients.	1809
(c) Referred from A. L. Hospital.	4
(d) Patients from Bombay residency.	1661
(e) Patients from Non-Bombay residency.	148

**Analysis of New patients :**

	Tuberculoid	Intermediate	Lepromatus.	Total
Male.	239	23	14	276
Female.	123	3	6	132
Children.	62	—	—	62
<b>Total :</b>	<b>424</b>	<b>26</b>	<b>20</b>	<b>470</b>

**Analysis of Old patients.**

Male.	1037	108	65	1210
Female.	486	35	19	540
Children	59	—	—	—
<b>Total :</b>	<b>1582</b>	<b>143</b>	<b>84</b>	<b>1809</b>

<b>Bacterial smear done :</b>	<b>Positive</b>	<b>Negative.</b>	<b>Total</b>
	85	341	516
<b>Sweat function test</b>		42	
Total attendance		8220	
Working days.		145	
Average per working days		57	

Following statistics shows the S. T. D. cases treated during the year 1986.

Syphilis.	198
Gonorrhoea.	177
G. I.	29
L. G. V.	38
N. S. U.	34
Chancroid & others.	700
<b>Total :</b>	<b>1176</b>

**Sexwise classification of new STD cases :**

Male	Female	Children	Total.
1111	062	03	1176

**Total S. T. D. (New & Old) treated during the year 1986.**

New Cases	Old Cases	Total
1176	2043	3219

Following figures shows Biopsy, smears, allergy patch teats done during the year 1986.

a) Urethral Smear (TS/PS/Vs/CS)	749
b) Urine Examination.	62
c) Blood (Hb, WBC) Exam.	17
d) Biopsy.	534
e) Allergy patch tests.	54

Following is the statement showing the out patients treated in this department for mycotic infections during the year 1986.

Total scrapping done.	1,634
Cultures done out of which.	
T. Corporis.	95
T. Cruris.	23
T. Barbae.	7
T. Capitis.	14
T. Pedis.	32
T. Axillaris.	3
T. Manum.	31
Onychomycosi.	35
Moniliasis.	77
Mycetoma.	20
Deep mycosis including CSF, Sputum, pus, Fluids, Gastric lavage, biopsies etc., fro culture.	205
Ophthalmic scrapings and cultures.	34
Samples for sterility test from Pharmacy dept.	74
Stains, routine media and special media are prepared in the laboratory.	

#### MOLECULAR BIOLOGY DEPARTMENT :

##### Routine work carried out in the Department :

(1) No. of samples precessed for Bacteriological Investigations.	842
(a) No. of samples which yielded significant bacteriol growth.	397
(b) Samples which did not show any significant growth.	445
(c) Samples which yielded significant mixed bacterial growth.	132 (15.67%)
(d) Samples which yielded growth of Gram + ve bacteria 43 (5.10%) & Gram - ve bacteria.	222 (26.36%)

Clinical Source	No. of samples tested.	Bacterial growth Significant.	No. growth.
Urine.	638	291	3.37
Pus or Wound swab.	89	64	25
Bile.	36	21	15
Peritoneal fluid.	25	14	11
Catheter tip.	20	2	18
Ascitic fluid.	12	—	12
Throat swab.	11	2	9
Pleural fluid.	3	—	3
Endotracheal swab.	4	1	3
Blood culture.	4	2	2
Total	842	397 (47.15%)	445 (52.85%)

The clinical samples are accepted from various units of out hospital, & are processed by standard bacteriological techniques of Stokes 1975, antibiotic sensitivity of the isolates is carried out by the method of Bauer, *et al* (1966). The antibiotics used are penicillin, streptomycin, chloramphenicol, gentamicin, tetracycline, mandelamine, cephaloridine, nalidixic acid, erythromycin carbenicillin, polymyxin etc.

Urine samples are also accepted for isolation of *Mycobacterium tuberculosis* from cases suspected of genitourinary tuberculosis. Three consecutive days full morning samples are accepted for mycobacteriological processing. Smears prepared from the centrifuged sample are stained by ZNCE staining & Fluorescent Staining & the results are compared.

About 82 samples obtained from various units of this hospital were processed for AFB during the last year.

#### Routine Work done Streptococcal Disease :

(1) Number of samples processed for ASLO titre estimation	967
(2) No. of throat swabs processed for A—Streptococcal isolation.	230
(3) No. of antibiotic sensitivity testing done on Phaemolytic streptococci.	45
(4) Grouping of P—haemolytic streptococci.	45
(5) No. of samples processed for isolation of group D-streptococci.	1,000
(6) No. of samples processed for isolation of group B—streptococci.	500

#### DEPARTMENT OF PSYCHIATRY :

The Department of Psychiatry managed by six Monoraries, 1 Reader, 1 Lecturer and nine residents offers outpatient and inpatient services. Various psychological tests are conducted by two clinical psychologists. Two psychiatric Social Worker help in collection of social data, counselling, social case work and family therapy, Electrophysiological investigations (EEG and Polygraph) are done whenever required. EEG facility is offered to other specialities.

The Department offers various psychiatric treatments like electroconvulsive therapy (ECT), Modified insulin therapy, carbon dioxide abreactive therapy, behaviour therapy, psychopharmaco-therapy individual and group psychotherapy, biofeedback and occupational therapy. Special clinics are conducted for the specific problems e.g. Lithium clinic, group psychotherapy for sexual problems of males, child guidance clinic and maintenance therapy of chronic schizophrenics.

Educational activities include the teaching of post-graduate, undergraduate and paramedical students. The department has its own library of books and scientific journals. Social workers, clinical psychologists and nurses under training are posted in the department for field work. Five out of eleven students obtained their M. D. degree and nine out of ten students passed their diploma in psychological medicine. Departmental staff also participated in symposia and seminar for mental health education of the general public and general practioners. They actively participated in the Annual Indian and West Zonal Conferences.

## Number of patients offered various services in 1986.

	No. of Pts.	No. of Sessions.
1. New patients seen in OPD.	9,134	—
2. follow-up OPD visits.	31,483	—
3. Indoor admissions.	2,063	—
4. Electroconvulsive therapy (ECT).	722	4,284
5. Modified Insulin therapy.	—	—
6. Carbon dioxide abreactive therapy.	—	—
7. Behaviour therapy.	64	540
8. Alcohol group therapy.	585	4,152
9. Child Guidance Clinic.	142	621
10. Sex education therapy.	624	1,998
11. Occupational therapy—OPD cases	451	2,841
Indoor cases.	1,941	15,418
12. Biofeed back therapy.	5	50
13. E. M. G. Tracings.	—	—
14. Electrocencephalograms (EEG)	528	—
15. Workload of clinical psychologist.		

## Psychological tests :

(a) Rorschach.	719
(b) M. M. P. I.	750
(c) Intelligence tests (IQ & SQ).	928
(d) TAT and CAT.	164
(e) B. G. and W.H.S.	449
(f) Miscellaneous (TAMS, HABS, HPRSD, HOQ, MRS).	143
16. Workload of Psychiatric Social Workers.	
(a) Collection of social date.	635
(b) Social case work—Short term—	340
Long term—	163
(c) Brief psychotherapy.	18
(d) Family therapy.	20
(e) Orientation to parents of mentally retarded children.	108
(f) Marital counselling.	54
(g) Referral to school for mentally retarded.	62
(h) Free drugs supplied to patients.	204
(i) Fund arrangement for poor patients requiring expensive investigations (e. g. C. T. scan etc.)	15

## Treatment Programme :

- (1) Drug Therapy.
- (2) Abreactive Therapies.
- (3) Electroconvulsive Therapy.
- (4) Psychotherapy (Individual and Group).
- (5) Behaviour Therapy Clinic.
- (6) Group Psychotherapy for sexual problems of males.
- (7) Child Guidance Clinic.
- (8) Occupational Therapy.
- (9) Lithium therapy clinic.
- (10) Biofeedback.
- (11) Deaddiction Programme.

## DEPARTMENT OF RADIOLOGY :

Procedures	General Radiology Section No. 10.	Vascular Radiology Section No. 53.	Radiology Section in Oc.
1. Angiogram, 4 vessel.	13	—	—
2. Angioplasty.	—	12	—
3. Aortogram.	—	263	—
4. Arteriogram—			
Cerebral.	533	—	—
Peripheral.	—	84	—
Spinal.	—	—	—
Visceral.	—	809	—
5. Arthrogram.	—	—	7
6. Biopy, percutaneous fluoroscopic. ultrasonographic.	—	18	—
	—	66	—
7. Bronchogram.	—	82	—
8. Cholangiogram, percutaneous, transhepatic.	—	8	—
9. Cholecystogram, oral.	178	—	—
10. Cisternogram, Myodil.	1	—	—
11. Cystogram, renal.—	5	—	—
12. Cystourethrogram, Micturating.	261	—	—
13. Drainage, abscess, percutaneous.	—	3	—
14. Drainage, biliary, transhepatic.	—	28	—
15. Embolisation, transarterial.	—	17	—
16. Enema, large bowel.	308	—	—
17. Esophagogram, barium.	502	—	—
18. Enema, Small bowel.	13	—	—
19. Gastrointestinal series, lower.	867	—	—
20. Gastrointestinal series, upper.	1098	—	—
21. Hysterosalphingogram.	146	—	—
22. Lymphangiogram.	—	35	—
23. Membranotomy, Venaoava.	—	3	—
24. Myelogram.	313	—	127
25. Nephrostomy, percutaneous.—	—	9	—
26. Plain radiographs.	88,085	—	35,676
27. Pneumoperitoneum.	—	6	—
28. Pyelogram, antegrade.	—	6	—
29. Pyelogram, retrograde.	40	—	—
30. Sialogram.	30	—	—
31. Splenoportogram.	—	54	—
32. Syringogram.	1	—	—
33. Tomogram.	94	—	—
34. Ultrasonograms.	—	6,550	—
35. Urethrogram, retrograde.	90	—	—
36. Urogram, excretory.	1326	—	—
37. Venacavogram.	—	26	—
38. Venogram Jugular.	4	—	—
39. Vebigran, orbital.	4	—	—
40. Venogram, peripheral.	—	76	—
41. Venogram, visceral.	—	10	—
Total :	93,917 :	7,441	35,810

**DEPARTMENT OF PATHOLOGY :**

The department of Pathology has three sub-sections.

- (1) Clinical Pathology.
- (2) Autopsy Section.
- (3) Surgical Pathology.

**Clinical Pathology :** There are two separate laboratories which carry out investigations in this section for out-patients and in-patients. The Biochemistry section for in-patients is open 24 hrs. investigations carried out in out-patients laboratory include Orthopaedic Centre.

Ty-pe of analysis.	No. of samples.	Total no. of investigations.
1. Haemograms.	37,895	1,48,203
2. Urine analysis.	23,865	78,109
3. Stoll analysis.	8,154	8,154
4. MP/MF smears.	77	77
5. BT/CT.	1,362	1,362
	71,353	2,95,905
<b>Investigations done in in-patients :</b>		
1. Haemograms.	12,189	60,945
2. Urine analysis.	12,362	27,976
3. Stool analysis.	4,718	7,631
4. Fluids + CSF.	2,923	2,923
5. Cytology (Including Aspiration).	1,773	1,773
	33,965	1,01,248

**CLINICAL BIOCHEMISTRY :**

Blood sugar.	29,059
Blood urea Nitrogen.	21,158
S. Creatinine.	2,769
S. Protein X 2.	13,355
S. Bilirubin.	7,736
SG OT/SG PT.	14,136
S. Calcium.	892
Phosphatase.	831
Alk. Phosphatase.	3,104
Acid Phosphatase.	164
S. Cholesterol.	673
S. Uric acid.	499
S. Amylase.	367
Fluid Proteins.	817
Urine Albumine.	191
Urine B. J. Protein.	177
C. S. F. Chlorides.	794
C. S. F. Sugar.	794
Prothrombine Time.	1,027
Electrolytes.	4,658
Gastric Analysis.	100

**Total :** 1,03,211

**EMERGENCY LABORATORY INVESTIGATIONS.**

Blood Sugar.	13,311
Blood Urea.	12,151
S. Electrolyte.	44,996
Amylase.	351
Bilirubine.	2,777
CSF Sugar.	3,402
Barbiturate level.	272
	<hr/>
	77,260
	<hr/>

**AUTOPSY :**

Total No. of autopsies performed.	2,965
Total No. of slides prepared.	11,303
Total No. of slides stained.	11,303
Total No. of Blocks prepared.	15,417
Special stain.	243

Total :

**SURGICAL HISTOLOGY :**

Total No. of specimens.	—
Total No. of slides prepared.	19,991
Total No. of slides stained.	3,043
Total No. of blocks prepared.	18,731

Total

**NEUROPATHOLOGY :**

	No. of Samples.	No. of Tests.
Blood urea nitrogen.	1,034	1,034
Creatine.	1,034	1,034
Liver Function test.	695	4,170
Calcium.	82	82
Phosphorus.	82	82
Alkaline Phosphatase.117	117	
Creatine Phospho Kinase.	294	294
Lactic Dehydrogenase.	62	62
Cholestérol.	48	48
Urinary CMV.	26	26
Urinary Bence Jones Proteins.	28	28
Urinary Porphyrins.	30	30
Urinary Myoglobins.	6	6
Prothrombin Time.	27	27
Haemograms.	1,036	4,104
C. S. F. Routines.	496	1,488
Protein EPP.	28	28
Lipid Profiles.	9	9

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 Total : 5,134 12,669
 

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**HISTOLOGY :**

	Total No: of cases	Blocks prepared	Slides prepared	Unstained slides.
Surgical Biopsies.	439	641	641 + Sp. stains.	2,125
Brain Specimen. from autopsy.	363	1,700	1,700 + Sp. stains.	—
External Biopsy. received.	14	17	17 + Sp. Stains.	—
Smears from biopsy tissue for urgent diagnosis.	8	—	24	—

**DEPARTMENT OF MICROBIOLOGY :****Workload of Baoteriology :**

1. No. of AFB samples.		1,684
2. Blood culture No.		1,005
No. of A. F. B.		589
3. C. S. F.		3,235
4. Pus.		6,439
	No. of	3,754
5. Sputums.		903
No. of ABS.		759
6. Stool.		482
No. of ABS.		195
7. No. of P.M. samples.		121
8. Unine.		3,542
No. of colonye counts ABS.		3,204
9. Swabs from various operation thereatre.		1,952
10. Sterility of ampoules.		125
11. Swabs processed for sterility checking from various wards.		90
12. Biochemical tests for identification of organisms.		7,200
	Total :	<u>42,869</u>

## Numbers of samples received in the anaerobic section 1986.

Samples	Number
1. Pus.	170
2. Wound Swab.	145
3. Throat, Nasal, I Tracheal Swabs	39
4. Sputum.	944
5. Tracheal Secretions.	161
6. Bronchial Secretions.	20
7. Pleural Fluid.	120
8. Empyema Fluid.	8
9. Cystic Fluid.	2
10. C. S. F.	28
11. Body Fluids (Ascitic, Abdominal & Drain).	74
12. Urine.	4
13. Blood culture.	10
14. Gas Gangrene.	82
15. Vaginal & Cervical swabs.	72
16. Perinatal Infection-Ear, Umbilical Swabs.	60
17. Foley's, CVP Drain & Urinary Cath Tips.	189
18. Stool.	300
19. Experiment—Ileal contents.	48
—Peritoneal Fluid.	60
—Blood culture.	—
—Pus.	66
20. I. U. C. D. Swabs.	40
21. Peritoneal Fluid.	37
22. O. T. Sterility study-swabs.	26
—Sedimentation plates.	30
23. Vaginal Hysterectomy.	41
24. Cervical Erosion.	52
25. Gynaecological Infections.	88
26. Water sample testing.	6
	<hr/>
TOTAL :	2,921
	<hr/>

## Workload of Serology section. 1986

1. Widal Test.	864
2. R. A. Test.	1,987
3. Paul Bannel Test.	80
4. C. S. F. VDRL.	447
5. Blood VDRL.	4,225
	(including Skin & food handlers Samples.)
	<hr/>
	7,603
	<hr/>

**Immunology Section :**

1) Immunoglobulin.	325
2) Alpha fetoproteins.	2
3) Urine CMV (cytomegalovirus)	40
4) Casonis.	30
5) C. I. E.	30
6) T Cells.	31
7) C3, CA.	14
8) Aspergillus, candida.	

Total : 507

**Dermatology & Venerology :**

Total scrapping done.	1,634
Cultures done out of which.	
T. Corporis.	95
T. Cruris.	23
T. Barbae.	7
T. Capitis.	14
T. Pedis.	32
T. Axillaris.	3
T. Manum.	31
Onychomycosi.	35
Moniliasis.	77
Mycetoma.	20
Deep mycosis including CSF, Sputum, pus, Fluids, Gastric lavage, biopsies etc., fro culture.	205
Samples for sterility test from Pharmacy dept.	74
Ophthalmic scrapings and cultures.	34
Stains, routine media and special media are prepared in the laboratory.	2,280

**Nurses :**

Nusing Establishment is having 1029 Scheduled and 123 Non-Scheduled posts, out of which 156 posts are vacant. Approximate expenses per Nurse per month is Rs. 1,300/-

Total No. of Gen. Nursing Students.	313
Total No. of Midwifery Students.	63

Total : 376

Total No. of Students in December 86 is 376 as against sanctioned 436 Students.

In the year Nurses were sent for different Examinations and their performance of Examinations was satisfactory.

Examination	Period	Appeared	Passed	Percentage
Gen. Nursing P-I	Jan. 1986.	24	17	68%
Gen. Nursing P-I	July—1986	107	80	74.76%
Gen. Nursing P-II	June 1986	68	61	89.8%
Gen. Nursing P-II	Dec. 1986	6	5	83.3%
Midwifery.	Jan. 1986	64	63	100%
Midwifery.	July 1986	33	26	79%

The corpus of the fund Rs. 61,000/- out of which 16,000/- is kept in Government Security and Rs. 45,000/- kept in Fix Deposit in the Bank, interest on the amount is utilised for providing activities to the Nurses such as Varsity Entertainment Programme, Prize Distributions, Sports, Picnics, Send Off Functions for retired members, Academic Prizes according to the wishes of the donors and also giving loans to the Nurses during their difficulties.

The teaching of Paediatric Short Term Courses of 3 months duration started from September 1981 and is continued still once a year. Two Staff Nurses Smt. Prasanna P. M., Smt. Shaila Chikorde are sent for B. Sc. Nursing to J. J. College of Nursing.

**The K. E. M. Hospital & Seth G. S. Medical College Employees' Co-Operative Credit Society Ltd.**

1. Members.	1,955
2. Share capital Reserve.	8,97,420
3. Dividend.	9%
4. Classification of Audit.	"A"

**FOOD HANDLERS SCHEME**

946 Persons directed for examination by H. O.'s Department from 1st January 1986 to 31st December 1986. Out of which only 424 persons attended for examination. 19 persons did not give their stool, blood, etc., for pathological examination and hence their reports are still pending. 384 fit and 21 unfit certificates were issued during the year under report.

**DISPENSARY DEPARTMENT :**

	O.P.D.	Indoor	Ordinary	Total
(1) K. E. M. Hospital Dispensary.	3,53,963	3,678	148	3,57,789
(2) C. V. T. C. Dispensary.	36,844	139	4	36,987
(3) Orth. Dispensary.	29,476	190	—	29,666
	4,20,283	4,007	152	4,24,442

**DEPARTMENT OF PHYSIOLOGY :**

**Academic Activities :**

**(a) Undergraduate Medical Students :**

During the year 1986-87, 200 students were admitted in August 1986 for the 1st M. B. B. S. Course. Regular Lectures and practicals were started from 21st August 1986. Continuous assessment of the students was done during both the academic terms of the year by conducting card tests, Terminal Examinations etc. According to the performance of the students in these tests, special attention was given to academically backward students. Seperate viva voce was arranged for them.

As far as possible, teaching in the subject of Physiology was integrated with that of Anatomy and Biochemistry.

(b) Since the students were admitted late in August 1986, extra lectures were arranged during Deewali vacation of 1986. Dr. Mrs. S. M. Kendurkar took fifteen lectures on Cardio Vascular system during Deewali vacation.

211 students appeared for 1st M. B. B. S. University Exam. held in October 1986.

172 Students passed.

Physiology result was 81.04%.

12 Students secured Distinction in the subject of Physiology in October 1986. Shri Sconawalla Zahir F. secured Gold Medal in Physiology at 1st M. B. B. S. University Exam.

39 Repeaters in 1st M. B. B. S. appeared for the examination.

29 Students passed.

Physiology result was 74.35%.

**Undergraduate Non-Medical Students :**

(a) 80 students were admitted for F. Y. B. Sc., Occupational Therapy & Physical Therapy in September 1986.

Regular lectures and practicals for these students were started in 4th September 1986. These students were trained properly and were assessed continuously by several tests. Question writings etc., O. T. & P. T. Results in April 1986 was 55.12%.

78 students appeared for exam. 43 students passed. O. T. & P. T. result in October 1986 was 73.91%.

23 Students appeared for exam. & 17 students passed.

(b) Seperate lectures for Nurses were arranged. 180 Nurses were divided in three batches for the lectures.

#### Post-graduate Students :

There are 5 postgraduate students who have registration in the department for M. D. Physiology.

Seperate programme for lectures, practicals and seminars in arranged for them.

Seperate lectures are arranged for 6 M. Sc. (Biophysics) students.

In the programme "Know Your Institution" which has been recently started by the Dean G. B. Parulkar, the Department of Physiology introduced themselves and information regarding the cuicular and extracurricular activities of the department was given at the meeting in MLT on 19th December 1987.

#### Extracurricular Activities :

1. Dr. S. J. Kashalikar wrote two books in Marathi 'Suryashodh & Bhowara'. Dr. S. J. Kashalikar was awarded ECFMG Scholarship from 1st August 1986 to attend the Advance training in Research and Teaching at University of South Carolina.

2. Shri Wandre S. B., Shri Chhatre S. Y., Dr. Deshpande D. V., Shri Jadhav Ravi participated in D. D. Daruwalla Challenge Sheild Cricket Tournament organised by Bombay Municipal Gymkhana.

Shri S. Y. Chhatre & Shri S. B. Wandre have participated actively during Annual Social and Ganpati Festival of Seth G. S. Medical College and K. E. M. Hospital:

#### DEPARTMENT OF ANATOMY :

##### Research work do ne during the year 1986 :

1. Death.	Dr. Lopa A. Mehta. Dr. M. L. Kothari.
2. Violence in Medical Science.	—DO.—
3. Principles of Neuroanatomy.	—DO.—
4. Biological Basis of Feminone superiority.	—DO.—
5. Priniciples of	—DO.—
6. Principles of Genetics.	—DO.—

Dr. M. B. Indurkar, Professor of Anatomy has participated in the following during the year 1986.

1. Paper presented in national conference of A. S. I. Aligarh 1986 "A study of the internal Ophincter of the bladder".
2. Chairman of the symposium "frontiers of Neurobiological Research" 1986.
3. Participant workshop in evaluation in Medical Education sponsored by U. G. C. & Bombay University, G rant Medical, College, Bombay-1986.

#### POOR BOX CHARITY FUND :

A sum of Rs. 42,15,800.57 was received by way of donation contribution from patients, part cost of spects sale of gift shop etc. In addition to cash donations, donations in kinds were also received. An amount of Rs. 32,53,500.16 was spent out of the Poor Box Charity Fund in the year as against Rs. 30,73,798.43 during the previous year. The amount was spent on costly drugs, blood transfusion, surgical appliance, travelling expenses, spects etc. for poor & deserving patients of the hospital.

DEAN

K. E. M. Hospital & Seth G. S. Medical College,  
Parel, Bombay-400 012.

## APPENDIX-I:

## Speciality wise and Unit distribution of Beds.

Department	Head of the Units.	Male	Female	Children	Un-classified.	Total
Medical.	Dr. V. N. Acharya/ Dr. K. P. Chawla.	20	12	—	—	32
	Dr. Philip Abaham.	20	10	—	—	30
	Dr. G. H. Tilve.	20	11	—	—	31
	Dr. S. G. Dalvi.	20	11	—	—	31
	Dr. C. P. Dalvi.	20	11	—	—	31
	Dr. P. D. Anjaria.	20	11	—	31	
	Tetanus.	Dr. Philip Abaham.	12	7	5	—
Haematology.	Dr. B. C. Mehta.	10	2	—	—	12
A. K. D.	Dr. (Smt.) V. N. Acharya.	12	4	2	—	18
Div. Of End.	Dr. S. D. Bhandarkar.	10	6	3	—	19
Gen. Surgery.	Dr. S. K. Mathur.	24	6	—	—	30
	Dr. R. D. Bapat.	24	6	—	—	30
	Dr. A. B. Samsi.	24	6	—	—	30
	Dr. C. V. Patel.	24	6	—	—	30
	Dr. S. G. Shenoy.	24	6	—	—	30
	Dr. S. D. Deodhar.	24	6	—	—	30
G. I. C. (Surg.)	Dr. S. K. Mathur.					
	Dr. R. D. Bapat.	8	2	2	—	12
	Dr. S. R. Naik.					
G. I. C. (Med.)	Dr. S. R. Naik.	13	5	—	—	18
Ophthalmic.	Dr. Y. K. Dastur.	18	9	3	—	30
	Dr. S. D. Adrinwalla.	18	9	3	—	30
Gynaec.	Dr. M. Y. Rawal.	—	10	—	—	10
	Dr. M. S. Bhattacharya.	—	10	—	—	10
	Dr. S. S. Seth.	—	10	—	—	10
	Dr. M. R. Narvekar.	—	10	—	—	10
	Dr. M. A. Deshmukh.	—	10	—	—	10
	Dr. I. N. Hinduja.	—	10	—	—	10
Obstretic.	Dr. M. Y. Rawal.	—	29	—	—	29
	Dr. M. S. Bhattacharya.	—	29	—	—	29
	Dr. S. S. Seth.	—	28	—	—	28
	Dr. M. R. Narvekar.	—	29	—	—	29
	Dr. M. A. Deshmukh.	—	29	—	—	29
	Dr. I. N. Hinduja.	—	28	—	—	28
Skin & Veneral. Isolation.	Dr. R. J. Fernandes.	16	10	6	—	32
		1	1	—	—	2
Orthopaedic.	Dr. L. N. Vora.	20	10	10	—	40
	Dr. A. V. Bavdekar.	20	10	10	—	40
	Dr. R. S. Dhir.	20	10	10	—	40
	Dr. S. K. Bhandare.	20	10	10	—	40
	Dr. M. N. Shahane.	20	10	10	—	40
	Dr. C. G. Pradhan.	20	10	10	—	40

Department	Head of the Units.	Male	Female	Children	Un-classified.	Total
Aural.	Dr. K. L. Shah.	8	6	10	6	30
	Dr. M. V. Ingale.	8	7	9	6	30
Psychiatric.	Dr. L. P. Shah.	18	8	4	—	30
	Dr. D. R. Doongaji.	18	8	4	—	30
Neuro-Surg.	Dr. S. K. Pandya.	18	10	8	—	36
Neurology.	Dr. P. U. Shah.	22	6	4	—	32
Paed. Med.	Dr. M. D. Shah.	—	—	30	2	32
	Dr. N. B. Kumta.	—	—	30	2	32
	Dr. P. W. Kandoth.	—	—	30	2	32
Paed. Surg.	Dr. R. K. Gandhi./ S. S. Deshmukh.	—	—	40	—	40
Plastic Surg. & Burns.	Dr. K. S. Goleria.	16	14	10	12	52
Thoracic Surg.	Dr. G. B. Parulkar.	18	11	3	—	32
Cardiology.	Dr. P. A. Kale.	16	5	4	—	25
	Dr. A. S. Vengsarkar.	16	5	4	—	25
Chest Clinic.	Dr. S. R. Kamat.	15	12	3	—	30
Urology.	Dr. D. S. Pardani.	16	9	5	—	30
Drug Trial.	CIBA.	—	—	—	10	10
	CIPLA.	—	—	—	10	10
	UNICHEM.	—	—	—	10	10
		709	561	285	60	1,615

## APPENDIX-I-A:

Statement showing the distribution of beds according to Wards, Services &amp; Heads.

Ward No.	Service	Name of the Head of the Service.	Unitwise allocation of beds.	Total Scheduled strength of Ward.
1	2	3	4	5
I	Paediatric.	Dr. M. D. Shah.	30	60
	Medical.	Dr. N. B. Kumta.	30	
II	Paediatric Med.	Dr. P. W. Kandoth.	30	60
	Paediatric Surg.	Dr. R. K. Gandhi./S. S. Deshmukh.	15	
		Dr. S. S. Dastur		
	Psychiatric.	Dr. D. R. Doongaji.	4	
	Psychiatric.	Dr. L. P. Shah.	4	
	Neurology.	Dr. P. U. Shah.	4	
	Div. of End & Met. Disorder.	Dr. S. D. Bhandarkar.	3	

Ward No.	Service	Name of the Head of the Service.	Unitwise allocation of beds.	Total Scheduled strength of Ward.
1	2	3	4	5
III	Gastroenterology.	Dr. S. K. Mathur.	2	49
	Aural.	Dr. K. L. Shah.	10	
	Aural.	Dr. M. V. Ingale.	9	
	Paed. Surgical.	Dr. R. K. Gandhi/S. S. D.	25	
	Urology.	Dr. D. S. Pardanani.	3	
IV	Medical.	Dr. (Smt.) V. N. Acharya.	12	50
	Medical.	Dr. (Smt.) K. P. Chawla.		
	Medical.	Dr. G. H. Tilve.	11	
	Medical.	Dr. P. D. Anjaria.	11	
	Div. of End. & Met. Disorders.	Dr. S. D. Bhandarkar.	6	
	Psychiatric.	Dr. L. P. Shah.	8	
	Gastroenterities.	Dr. S. R. Naik.	2	
IV-A	Medical.	Dr. F. D. Dastur.	10	50
	Medical.	Dr. S. G. Dalvi.	11	
	Medical.	Dr. C. P. Dalvi.	11	
	Psychiatric.	Dr. D. R. Doongaji.	8	
	Neurology.	Dr. P. U. Shah.	6	
	Haematology.	Dr. B. C. Mehta.	2	
	C. I. C.	Dr. S. R. Naik.	2	
V.	Surgical.	Dr. R. D. Bapat.	22	48
	Surgical.	Dr. C. V. Patel.	22	
	G. I. C.	Dr. R. D. Bapat/Dr. S. K. Mathur.	4	
VI.	Surgical.	Dr. A. B. Samsi.	20	48
	Surgical.	Dr. S. G. Shenoy.	20	
	Urology.	Dr. D. S. Pardanani.	8	
VII	Surgical.	Dr. S. K. Mathur.	19	54
	Surgical.	Dr. S. D. Deodhar.	19	
	Aural.	Dr. K. L. Shah.	8	
	Aural.	Dr. M. V. Ingale/	8	
		Dr. S. B. Ogale.		
VIII	Surgical.	Dr. S. K. Mathur.	6	54
	Surgical.	Dr. A. B. Samsi	6	
	Surgical.	Dr. R. D. Bapat.	6	
	Surgical.	Dr. C. V. Patel.	6	
	Surgical.	Dr. S. G. Shenoy.	6	
	Surgical.	Dr. S. D. Deodhar.	6	
	Aural.	Dr. K. L. Shah.	6	
	Aural.	Dr. M. V. Ingale/	7	
		Dr. S. B. Ogale.		
	Urology.	Dr. D. S. Pardanani.	5	
IX	Medical.	Dr. S. G. Dalvi.	20	50
	Medical.	Dr. P. D. Anjaria.	20	
	Haematology.	Dr. B. C. Mehta.	10	



Ward No.	Service	Name of the Head of the Service.	Unitwise allocation of beds.	Total Scheduled strength of Ward.
1	2	3	4	5
X.	Psychiatric.	Dr. L. P. Shah.	7	54
	Psychiatric.	Dr. D. R. Doongaji.	7	
	Neurosurgery.	Dr. S. K. Pandya.	18	
	Neurology.	Dr. P. U. Shah.	22	
XI.	Medical.	Dr. F. D. Dastur/ Dr. Philip Abraham.	20	50
	Medical.	Dr. C. P. Dalvi.	20	
	Div. of End. & Metb. Disorder.	Dr. S. B. Bhandarkar.	10	
XII.	Medical.	Dr. V. N. Acharya/ Dr. K. P. Chawla.	20	50
	Medical.	Dr. C. P. Dalvi.	20	
	G. I. C.	Dr. S. R. Naik.	10	
XIII &	Ophthalmic.	Dr. Y. K. Dastur.	30	60
XIII-A	Ophthalmic.	Dr. S. D. Adrianwalla.	30	
XIV.	Obstretic.	Dr. M. Y. Rawal.	29	178
XIV-A	—"	Dr. M. S. Bhattacharya.	29	
L.W.D.	—"	Dr. S. S. Sheth.	29	
W.—Wd.	—"	Dr. M. R. Narvekar.	29	
P.O.W.	—"	Dr. M. A. Deshmukh.	29	
P.P.S.	—"	Dr. I. N. Hinduja.	29	
	Prematurity :	Dr. M. D. Shah.	2	
	—"	Dr. N. B. Kumta.	2	
	—"	Dr. P. W. Kandoth.	2	
XV.	Gynaec.	Dr. M. Y. Rawal.	10	
	—"	Dr. M. S. Bhattacharya.	10	
	—"	Dr. S. S. Seth.	10	
	—"	Dr. M. R. Narvekar.	10	
	—"	Dr. M. A. Deshmukh.	10	
	—"	Dr. I. N. Hinduja.	10	
XVI/XVI-A.	Plastic Surg. & Burns.	Dr. K. S. Goleria.	52	52
XVII.	Isolation,	Dr. R. J. Fernandes.	2	38
XVIII.	Skin & Veneral. G. I. C.	Dr. S. R. Naik.	32 4	
XIX.	Psychiatric:	Dr. L. P. Shah.	11	22
	Psychiatric.	Dr. D. R. Doongaji.	11	
XX.	Surgical.	Dr. A. B. Samsi.	4	10
	—"	Dr. S. G. Shenoy.	4	
	—"	Dr. C. V. Patel.	2	
XXI.	Aural.	Dr. K. L. Shah.	6	12
	—"	Dr. S. B. Ogale/ Dr. M. V. Ingale.	6	
	—"			

Ward No.	Service	Name of the Head of the Service.	Unitwise allocation of beds.	Total Scheduled strength of Ward.
1	2	3	4	5
XXII.	Tetanus.	Dr. F. D. Dastur.	24	24
XXIII.	General Surgery.	Dr. R. D. Bapat.	2	
	Gastroenterology.	Dr. S. K. Mathur.	6	16
	Thoracic Surg.	Dr. G. B. Parulkar.	4	
	Thoracic Surg.	Dr. R. A. Magotra.	4	
XXIV.	Drug Trial.	C I B A	10	
	— " —	C I P L A	10	30
	— " —	U N I C H E M	10	
XXV.	Orthopaedic.	Dr. A. V. Bavdekar.	20	40
	— " —	Dr. S. K. Bhandare.	20	
XXVI.	Orthopaedic.	Dr. L. N. Vora,	6	
	— " —	Dr. C. G. Pradhan.	6	40
	— " —	Dr. A. V. Bavdekar.	7	
	— " —	Dr. M. N. Shahane.	7	
	— " —	Dr. R. S. Dhir.	7	
	— " —	Dr. S. K. Bhandare.	7	
XXVII.	Orthopaedic.	Dr. C. G. Pradhan.	20	40
	— " —	Dr. R. S. Dhir.	20	
XXVIII.	Orthopaedic.	Dr. L. N. Vora.	20	40
	— " —	Dr. M. N. Shahane.	20	
XXIX.	Orthopaedic.	Dr. C. G. Pradhan.	14	
	— " —	Dr. R. S. Dhir.	13	40
	— " —	Dr. S. K. Bhandare.	13	
XXX.	Orthopaedic.	Dr. L. N. Vora.	14	
	— " —	Dr. A. V. Bhavdekar.	13	40
	— " —	Dr. M. N. Shahane.	13	
XXXI.	Thoracic Surgery.	Dr. G. B. Parulkar.	28	56
	— " —	Dr. R. A. Magotra.	28	
XXXII.	Cardiology.	Dr. P. A. Kale.	25	55
	Chest Clinic.	Dr. S. R. Kamat.	30	
XXXIII.	Neuro-surgery.	Dr. S. K. Pandya.	18	18
XXXIV.	A. K. D.	Dr. (Smt.) V. N. Acharya.	18	18
XXXV.	Cardiology.	Dr. D. S. Vengasarkar.	25	25
L.I.C.	Urology.	Dr. D. S. Pardanani.	14	14
M.S.W.	Surgical.	Dr. S. K. Mathur.	5	10
	— " —	Dr. S. D. Deodhar.	5	
T O T A L :				4,615

## APPENDIX—II:

Statement of In-Patients, treated, discharged and deaths according to Department, Sex and Age.

Department	Sex	In the Hospital at the Mid-night of 31-12-1985.	Admitted During the year 1986.	Total Treated	Discharged		Died	In the Hospital at the mid-night of 31-12-86.
					Cured	Other wise.		
Medical.	Male	189	8727	8916	6392	835	1481	208
	Female	88	4802	4890	3578	575	609	128
	M/Ch.	4	111	115	61	21	32	1
	F/Ch.	—	83	83	34	21	25	3
Surgical.	Male	124	7538	7662	6651	439	432	140
	Female	57	2486	2543	1917	341	237	48
	M/Ch.	1	71	72	72	—	—	—
	F/Ch.	—	33	33	33	—	—	—
Ophthalmic.	Male.	20	1195	1215	1032	162	—	21
	Female.	19	804	823	733	64	—	26
	M/Ch.	—	72	72	43	29	—	—
	F/Ch.	—	41	41	28	13	—	—
Gynaec. Skin	Female.	68	2693	2761	2679	32	3	47
	Male.	14	290	304	167	127	1	5
	Female.	5	91	96	58	32	1	5
	M/Ch.	—	18	18	16	2	—	—
Aural.	Male.	8	954	962	715	135	2	10
	Female.	9	715	724	532	184	2	6
	M/Ch.	—	299	299	212	87	—	—
	F/Ch.	—	264	264	195	68	—	1
Orthopaedic.	Male.	161	2565	2726	1943	495	68	220
	Female.	62	965	1027	607	309	28	83
	M/Ch.	36	608	644	470	149	3	22
	F/Ch.	18	312	330	214	89	1	26
Psychiatric.	Male.	44	1553	1597	950	613	2	32
	Female.	8	434	442	261	163	2	14
	M/Ch.	4	25	29	20	9	—	—
	F/Ch.	2	6	8	2	6	—	—
Neuro-Surg.	Male.	36	308	344	208	79	39	18
	Female.	4	161	165	90	39	26	10
	M/Ch.	—	83	83	52	21	10	—
	F/Ch.	1	58	59	37	16	4	2
Neurology.	Male.	17	259	276	142	94	15	25
	Female.	4	83	87	34	41	3	9
	M/Ch.	—	37	37	20	14	—	3
	F/Ch.	—	16	16	9	6	1	—
Paed. Med.	M/Ch.	51	2093	2144	1287	449	356	52
	F/Ch.	31	1551	1582	874	385	289	34
Obstretic.	Female.	108	6614	6722	6599	—	16	107
	M/Ch.	—	—	—	—	—	101	—
	F/Ch.	—	—	—	—	—	85	—
Plastic Surg.	Male.	16	287	303	81	198	1	25
	Female.	8	216	224	74	101	40	9
	M/Ch.	2	106	108	46	58	1	3
	F/Ch.	2	66	68	26	31	—	1

		1	2	3	4	5	6	7	8	9
Thoracic Surgery.	Male.			33	579	612	247	280	66	19
	Female.			23	371	394	138	212	24	20
	M/Ch.			2	113	115	38	48	22	7
	F/Ch.			5	90	95	41	39	9	6
Paed. Surg.	M/Ch.			37	1493	1530	1049	379	85	17
	F/Ch.			15	645	660	447	154	48	11
G.I.C.	Male.			6	249	255	184	39	28	4
	Female.			2	116	118	95	14	7	2
	M/Ch.			—	4	4	—	—	—	—
	F/Ch.			—	3	93	2	—	—	—
Cardiology.	Male.			21	643	664	446	149	48	21
	Female.			7	364	371	201	129	29	12
	M/Ch.			3	149	152	93	44	8	7
	F/Ch.			2	98	100	62	28	7	3
Div. of Endo- crinology & Metb. disorder.	Male.			—	69	69	22	38	5	4
	Female.			6	49	55	18	27	7	3
	M/Ch.			—	2	2	2	—	—	—
	F/Ch.			—	2	2	2	—	—	—
Chest Clinic.	Male.			19	507	526	186	224	103	13
	Female.			8	264	272	105	109	52	6
	M/Ch.			—	29	29	19	—	10	—
	F/Ch.			—	19	19	12	—	7	—
Urology.	Male.			17	506	523	387	109	9	18
	Female.			2	86	88	56	24	4	4
	M/Ch.			1	16	17	16	—	1	—
	F/Ch.			—	4	4	4	—	—	—
Haematology.	Male.			8	75	83	28	34	19	2
	Female.			3	56	59	31	13	15	—
	M/Ch.			—	2	2	2	—	—	—
	F/Ch.			—	—	—	—	—	—	—
Pharmacology.	Male.			5	123	128	63	63	—	2
	Female.			1	6	7	7	—	—	—
	M/Ch.			—	—	—	—	—	—	—
Total :	Male.			738	26427	27165	19844	4213	2319	789
	Female.			492	21376	21868	17813	2411	1105	539
	M/Ch.			142	5331	5472	3421	1310	629	112
	F/Ch.			76	3296	3372	1952	856	476	88
Grand Total :			1447	56430	57877	43030	8790	4529	1528	

## APPENDIX — III.

Statement of Out-patients New O. P. D. & Casualty according to the Departments, Sex during the year 1986.

Department	Casualty cases					New O. P. D. Cases				
	Male	Female	F/Ch.	F/Ch.	Total	Male	Female	M/Ch.	F/Ch.	Total
Medical.	2824	1224	25	26	4099	20705	13475	1	1	34182
Surgical.	6798	1450	18	5	8271	16836	6776	16	4	23432
Ophthalmic.	362	37	16	3	418	9552	5506	1046	741	16845
Gynaec.	—	58	—	—	58	—	10653	—	—	10653
Dental.	13	2	1	16	3883	3132	659	510	485	8184
Skin.	23	3	2	—	28	10107	3962	2314	1617	18000
Aural.	264	51	10	9	334	7630	5014	1942	1536	16122
Ortho.	2102	408	81	52	2643	19500	8716	2594	1518	32328
Psychiatric.	61	3	—	—	64	5128	1597	277	162	7164
Neuro-Surg.	11	1	4	—	16	1155	593	284	199	2231
Neurology.	4	—	—	—	4	1360	653	218	128	2359
Paed. Med.	—	—	266	188	454	—	—	5310	4026	9336
Obstetric.	—	51	—	—	51	—	4174	—	—	4174
Diabetic.	1	—	—	—	1	494	323	16	3	836
Plastic Surg.	705	127	39	17	888	288	209	114	98	707
Thoracic.Surg.	1	—	3	1	5	1381	999	373	244	2997
Paed. Surg.	—	—	625	420	1045	—	—	604	313	917
G.I.C.	—	—	—	—	—	506	249	6	6	767
Cardiology.	—	1	—	—	1	2333	1410	430	294	4467
Endocrinology.	—	—	—	—	—	471	1370	50	48	1939
Chest Clinic.	6	—	1	1	8	1637	784	96	46	2563
Epilepsy.	2	—	—	—	2	700	354	236	149	1439
Urology.	—	—	—	—	—	552	123	26	4	705
Arth. Clinic.	—	—	—	—	—	160	196	—	—	367
Sports Clinic.	—	—	—	—	—	540	56	3	1	600
Haematology.	—	—	—	—	—	5	2	—	—	7
Casualty.	—	—	—	—	—	48320	17222	9384	5404	80330
Dog-Bite.	2	1	—	—	3	3953	1099	1302	458	6792
Sexology.	—	—	—	—	—	438	96	—	—	534
Urinary Stone.	—	—	—	—	—	94	26	6	1	127
Paed. Rheumatology.	—	—	—	—	—	—	—	8	12	20
Paed. Nephrology	—	—	—	—	—	—	—	19	7	26
Sterility	—	—	—	—	—	239	10	—	—	249
Geriatric.	—	—	—	—	—	22	13	—	—	35
Accupuncture.	—	—	—	—	—	18	7	—	—	25
P. & G.	—	—	—	—	—	75	88	26	15	204
Renal Cl.	—	—	—	—	—	16	14	7	4	41
<b>TOTAL :</b>	<b>13179</b>	<b>3417</b>	<b>1091</b>	<b>722</b>	<b>18409</b>	<b>157885</b>	<b>88901</b>	<b>27378</b>	<b>17559</b>	<b>291723</b>

## APPENDIX—IV.

Details of average Cost per In-patient and per Out-patients.

Particular.	1985—86		1986—87	
	In-patient	Out-patient	In-patient	Out-patient
I—Establishment.	77.24	29.05	86.36	32.82
II—Contingencies.	2.09	6.00	1.08	9.35
III—Equipment.	1.97	00.76	2.80	1.14
IV—Drug & Medicin�.	17.07	17.23	21.24	19.52
V—Diets.	6.15	—	5.56	—
VI—Stores.	1.61	13.17	2.54	14.88
VII—Repairs & Maint.	6.92	6.72	8.12	10.10
Total :	113.05	72.93	127.70	87.81

APPENDIX—V  
RESULTS OF EXAMINATIONS :

Name of the Examinations.	April/May—1986.		Oct./Nov—1986.	
	Appeared	Passed	Appeared	Passed.
Ist M.B.B.S.	43	27	212	167
IInd M. B. B. S.	154	133	30	19
IIIrd M. B. B. S.	59	30	171	125
D. A.	11	11	7	7
D. V. D.	2	2	4	3
D.P.H. (Part-I).	03	02	3	1
D.P.H. (Part-II).	1	—	3	02
D.P.M. (Part-I).	4	3	07	05
D.P.M. (Part-II).	3	1	8	8
D.M.R.D. (Part-I).	03	03	5	05
D.M.R.D. (Part-II).	03	02	6	5
M. Sc. (Part-I) Biochem.	12	10	1	1
M. Sc. (Part-II) Chem.	12	12	—	—
M. Sc. (P. T.).	—	—	—	—
Degree Exam. May '86.	04	03	—	—
Physical Therapy In Orthopaedic.	02	01	—	—
Applied "Neuroanatomy & Neurophysiology Relevant to Physical Therapy .	01	01	—	—
M. Sc. (Occupational Therapy).	—	—	—	—
Degree Exam. In May '86.	06	05	—	—
a) Occupational Therapy in Orthopaedics conditions.	01	—	—	—
b) Occupational Therapy in Neurological conditions.	04	04	—	—
c) Rehabilitation of Hand.	01	01	—	—

Name of the Examination	April/June		Nov. 1986.	
	Appeared	Passed	Appeared	Passed
<b>D. M. L. T.</b>				
Advanced chemical pathology Techniques.	04	04	—	—
M. Sc. (Research) (Theory) Biochem.	01	01	—	—
<b>D. M. L. T.</b>	10	7	—	—
a) Advanced Bacteriological Techniques.	1	1	—	—
b) Advanced Chemical Pathology Techniques.	7	4	—	—
c) Advanced Haematology & Blood Transfusion Techniques.	2	2	—	—
<b>B. Sc./P.T.</b>				
Ist Year.	42	27	14	13
IInd Year.	30	25	13	11
IIIrd Year.	11	5	30	30
<b>B. Sc. — O. T.</b>				
Ist Year	14	13	21	19
IInd Year.	30	19	19	15
IIIrd Year.	30	30	26	23
M. D. I. — Medicine & Therapeutics.	16	12	18	11
M. D. II—Obst. & Gyn.	15	3	37	21
M. D. IV—Paediatrics.	1	—	18	3
M. D. IV—Paediatrics.	13	5	—	—
M. D. T. B. & Chest Disease.	5	3	—	—
M. D. VI—Skin Disease.	3	2	17	7
M. D.—VII—Anaesthesia.	8	6	—	—
M. D. IX—Radio Diagnosis.	2	2	—	—
M. D. XI—Preventive & Social Medicine.	1	—	16	10
M. D. XII—Psychological Medicine.	5	1	—	—
M. D. XVI—Pathology.	2	2	—	—
M. D. XV Microbiology.	2	—	—	—
M. D. XIV—Pathology.	1	—	—	—
D. M. — Neurology.	1	1	1	—
D. M. Cardiology.	2	1	3	3
D. M. — Endocrinology.	1	1	—	—
D. M. S. — General Surgery.	16	8	21	8
M. S. — II Orthopaedic.	15	6	18	7
M. S. — III Oto-Rhino-Laryngogy.	4	3	5	5
M. S. IV—Ophthalmology.	2	2	4	1
M. Ch. — Neuro-surgery.	1	1	—	—
M. Ch. — Thoracic surgery.	2	2	2	2
M. Ch. IV—Paed. Surgery.	2	-1	2	1
M. Ch. — V—Urology.	2	2	2	2
M. Ch. Plastic Surgery.	—	—	1	—
M. S. — Human Anatomy.	—	—	—	—

## APPENDIX — VI

## RESEARCH

## DEPARTMENT OF ENT :

1. Xth Temporal Bone Microsurgery course. — November, 1986.
2. IVth Workshop on Vidian Nerve Cautery. — November, 1986.
3. IVth Workshop on Nerotology. — November, 1986.

**Dr. M. V. Ingale —**

Continuing as Secretary of A. O. I.

— Participated in 1st National workshop on Cochlear implants.

**Dr. M. V. Kirtane —**

— Participated in 1st National workshop on Cochlear implants.

— Contralateral ear in acoustic neuroma—J. L. O.

— Our experience with butterfly chart.—J.L.O.

— Vestibular effects of lignocaine —J. L. O.

— Vertebrobasilar insufficiency of causing vertigo—Journal of Post-graduate Medicine.

— Editor of Book on Vertigo in Cardio Vascular diseases.

**Dr. Prabodh P. Karnik —**

— Optic nerve decompression a new diminsion to transethmoidal surgery in—I. J. O.

— Invited for faculty for refresher course of G. P. associaties.

## DEPARTMENT OF UROLOGY :

- i) Evaluation of surgical complications in renal transplantation.
- ii) Doppler evaluation of subclinical and clinical varicocele.
- iii) Doppler Evaluation of Vasculogenic Impotence.
- iv) Plethysmographic studies in cases of vascular Impotence. (KGRS project).
- v) Biochemical investigations in renal calculous disease. (KGRS project).
- vi) Ultrasonographic studies of the disease of the prostate and the urinary bladder.
- vii) Flow-Cytometry studies of semen in case of male infertility. (collaboration with BARC).
- viii) Clinical evaluation of different types of urethroplasty in cases of stricture urethra.
- ix) Evaluation of Norfloxacin (Noroxin) in cases of acute urinary tract infection.
- x) Evaluation of Ensamycin (sisomycin) in cases of acute urinary tract infections.
- xi) Biochemical investigations including estimation zinc, fructose, acid phosphotase and GPC in semen in cases of male infertility. (KGRS).
- xii) Evaluation of the incidence of bacteraemia in cases of endoscopic investigation in Urology.
- xiii) Study of pathophysiology of varicocele in a new animal model in dogs.

## GUEST LECTURES?SEMINARS/SYMPOSIUM/WORK SHOP ORGANIZED THE DEPARTMENT IN 1986.

- 1) Operative Workshop on "Extrophy of the Urinary Bladder" by Dr. G. V. Datar on 22-1-1986.
- 2) Guest Lecture by Dr. Vallabh Patel of West Germany on 27-1-1986. "New Type of Pyelopplasty for Treatment of Hydronephrosis"
- 3) Workshop on "Buochemistry and Management of Renal Calculi" by Dr. George Alan Rose, Chemical Pathologist, St. Paul's Hospital, London, on 6-10-1986.

## WORKSHOPS ATTENDED BY MEMBERS OF THE DEPARTMENT.

- 1) Workshop on PCNL conducted by Dr. Arthur Smith and Dr. Gopal Badlani from L. I. J. Hospital, N. Y., on 4-5 January 1986 in Bombay.
- 2) Workshop on Paediatric Urology conducted by Dr. Syder and Dr. Patil from U. S. A. on 8-9 February 1986 in Bombay.



**PAPERS PRESENTED AND CONFERENCES ATTENDED BY MEMBERS OF THE DEPARTMENT IN 1986.**

- 1) Pheochromocytoma-Clinical and Operative Experience of 17 cases.  
— Staff Society Meeting of G. S. M. Medical College & K. E. M. Hospital, Bombay. 12 April, 1986.
- 2) Diabetic Impotence.  
— Bombay Medical Congress, Bombay. January, 1986.
- 3) Application of DNA Flowcytometry and cell sorting.  
— International Conference on Histological Basis of Medicine & Technological Advances. January, 1986.
- 4) Clinical Study of Diabetic Erectile Dysfunction.  
— IV Annual Conference of the Bombay Urological Society, Alibag. April-1986.
- 5) The Role of Bulbosacral EMG and Reflex in Diagnosis of Urological Disorders.  
Alibag April 1986.
- 6) Lymphocele in Renal Transplantation.  
— IV Annual Conference of the Bombay Urological Society Alibag. April 1986.
- 7) Life - threatening Haematuria An Unusual Presentation of Chyluria.  
— IV Annual Conference of the Bombay Urological Society, Alibag April, 1986.
- 8) Evaluation of Human Testicular Biopsy by Flow Cytometry.  
— XI Annual Conference of Environmental Mutagen and Carcinome. February, 1986.
- 9) No-invasive Investigation of Vasculogenic Impotence the role of Doppler and Impedance Plethysmography.  
— Plenary Poster Presentation at XX Annual Conference of the Urological Society of India, Vijaywada. 25-28 September 1986.
- 10) Influence of Surgically Induced Varicocele on Testicular Histology, Temperature, Venous Pressure and Hormonal Milieu in Adult Dogs.  
— CKP Award—winning Paper at the XX Annual Conference of the U. S. I. Vijaywada. 25-28 September 1986.
- 11) An Indigenously designed tilting Board for Percutaneous Renal Surgery.  
— XX Annual Conference of the U. S. I., Vijawada. 25-28 September 1986.
- 12) Results of balloon angioplasty and surgery in renovascular hypertension.  
— 46 Annual Conference of A. S. I. at Agra. 27-30 December 1988.

**DEPARTMENT OF MOLECULAR BIOLOGY**

**Research work done—**

- 1) Incidence of urinary tract infections in diabetic patients.
- 2) Study of Viral encephalities in children in Bombay.
- 3) Virulence factors in opportunistic Gram negative Pathogens.
- 4) Circulating Immune Complex studies in patients suffering from group A-Streptococcal infections.

**DEPARTMENT OF PAEDIATRICS.**

**Dr. B. A. BHARUCHA**

**Conference/Workshops/Lectures.**

- 1) XXIII Annual Conference of the Indian Academy of Pediatrics — New Delhi, 1986, First Author of Paper read on "Neurodegenerative Diseases—A Clinical — Biochemical Study of 72 cases over 2 years. Second Author of paper read on 'Efficacy of Short course chemotherapy regimens in the treatment of pulmonary tuberculosis in children'.
- 2) First National symposium on Pediatric Endocrinology — B. J. Wadia Hospital, January 10-12, 1986. Sponsored by Head of Department to attend the symposium. Sponsored by Head of Department to attend the symposium. Sponsorship accepted by convener of symposium.
- 3) Workshop on 'Advanced Techniques in Biochemical and Cytogenetic Laboratory Procedures in Diagnosis of Genetic Disorders'. Paediatric Research Laboratory, K. E. M. Hospital, February, 1986. Designation: **Chief Organiser of Programme**. Conducted for 4 days by Brian Fowler, Chief Biochemist, WILLINK BIOCHEMICAL GENETICS INSTITUTE, Manchester, U. K. participants were laboratory staff from K. E. M. Hospital, Wadia and J. J. Hospitals.

**DR. P. W. KANDOTH :****Conference attended :**

- a) National academy of medical sciences—Silver Jubilee Conf. Feb. 1986, Bombay.
- b) VII International conference on Ped. Nephrology 7-11 Sept. 1986. Tokyo Japan.
- c) 1st National Conf. on Ped. Endocrinology in Jan. 1986.
- d) Conf. on Perinatology in Feb. 1986.

**DR. K. R. LAHIRI:****Conferences/Workshops/Seminars attended :**

- 1) 1st National symposium — Pediatric Endocrinology (Wadia Children Bombay) 10-12th Jan. 1986.
- 2) 7th Regional Paed. Conference (Pune) held at Lonavla 27th-28th Sept. 1986.
- 3) XXIII National conference — LAP N. Delhi 14th-16th Nov. 1986 3 papers : 2-Read, 1-poster presentationa.
- 4) National Nephrology update AIIMS 17th — 18th Nov. 1986.
- 5) Paediatrics Update, Bombay 20-21st December 1986.

**DEPARTMENT OF PSYCHIATRY :****Awards. Honours. Distinctions. Events :**

- 1) Dr. Chand Nair secured 1st Bank in M. D. Exam. of Bombay University held in April 1986.
- 2) Dr. Manoj Bhatawdekar secured 1st rank in M. D. Exam. of Bombay University held in Oct. 1986.
- 3) Dr. Naresh Gandhi secured 1st rank in DPM I Exam. of Bombay University held in Oct. 1986.
- 4) Dr. L. P. Shah elected as *Vice*—President of Indian Psych. Society.
- 5) Dr. Manoj Bhatawdekar was selected as Best Resident for the year 1986:
- 6) Dr. Shubha Thatte appointed Ph. D. (Clinical Psychology) and M. Patil, Guide, Bombay University since Aug. 1986.

**Papers read :—**

- 1) Psychosocial stress and social support confounding variables. Papers presented at Bombay Psychiatric Society's seminar on Community Psychiatry held in Dec. 1986. Dr. Shubha Thatte.
- 2) Paranoid and non-paranoid schizophrenia and premorbid Adjustment. Paper presented at 38th national conference of Indian Psychiatric Society held at Jaipur in Jan. 1986.—Dr. Shubha Thatte.

**Additional activities :—**

- 1) Workshop in psychotherapy was organised by Dr. (Mrs.) Shubha Thatte for psychiatrists and clinical psychologists during 13th September 1986 to 14th January 1987. (Total 64 hours).

**DR. L. P. SHAH'S UNIT :****Papers read :—**

- 1) Multicentric double blind clinical trial of Alprazolam in generalised anxiety disorder. Dr. L. P. Shah, Dr. Rajesh Parikh, Dr. Mahaveer Vakharia, Dr. Kaustubh Muzumdar and Shehnaz Elavia.
- 2) Multicentric double blind clinical trial of Alprazolam in major depression. Dr. L. P. Shah, etal. Read at 38th annual conference of I. P. S.
- 3) Study of prognostic factor in depression. Read at 38th annual conference of I. P. S. Dr. L. P. Shah.
- 4) Experiences of a community based school mental health programme. Read at the International conference of psychiatry. Dr. L. P. Shah.
- 5) Clinician view on 'Industrial psychiatry is everyones business' Read at Plenary session of the 1st annual conference of industrial psychiatry—Dr. L. P. Shah.
- 6) Experiences of organising the deaddiction programme in a general teaching hospital. Read at the International Psychiatric Conference—Dr. L. P. Shah.
- 7) Predictors of treatment out-come in depression. Dr. L. P. Shah, Dr. M. L. Bhatawdekar, Dr. P. R. Naik and Dr. P. D. Lakdawala. Read at 38th annual conference of I. P. S.
- 8) Controlled clinical trial Dothiepin Vs Trimipramine in major depression. Dr. L. P. Shah, P. D. Lakdawala, Dr. R. R. Naik, Dr. M. L. Bhatawdekar.

**DEPARTMENT OF PATHOLOGY :****INTERNATIONAL CONFERENCES :—**

- (A) 1) Dr. S. G. Kinare attended International conference of Pathologists at Vienna & Participated in teaching Session of Geographic Pathology.
- 2) Dr. S. Y. Sane attended International conference of Pathologists at Vienna and presented a paper on Toxo-Plasmosis.
- 3) Dr. Sita Naik International conferences and visited various HLA laboratories.
- 4) Dr. B. V. Mittal went for specialised training in renal Pathology at the Department of Histopathology, City Hospital, Nottingham, U. K. for a period of 3 months under Prof. R. E. Cotton and visited other Hospitals in USA and attended a Seminar on Endocrine pathology at London.

**(B) MAHARASHTRA CHAPTER CONFERENCE OF 8TH LAPM & 4TH LAMM AT NASIK IN SEPTEMBER, 1986.**

14th Staff members attended the above conference and the following papers were presented. (Underlined person presented a papers).

- 1) Dr. I. M. Vora Participated/Presented a slide on PSC with U. C. and secondary cinhosis, at teaching slide seminar.
- 2) Mucin Histochemistry of Benign and Malignant Lesions of the GIT. Amita Joshi Varsha Vadera, I. M. Vora, Asha Shency.
- 3) Solitary Ulcer of the Rectum :—Report of 5 cases I. M. Vora, P. C. Khubchandani F. P. Candes, S. T. Plumber, A. N. Supe.
- 4) Zollinger Ellisen Syndrome :—A case report Chachlani N. A. F. P. Candes, I. M. Vora.
- 5) Role of circulating immune complexes and polymorphonuclear lancocyte receptors in the defective PMN functions in Rheumatic fever.
- 6) Fine needle aspiration cytology of lymphnod. A. A. Pandit, Dr. F. P. Candes, Dr. Sangeeta Savkar.

**(C) 25th Annual conference of LAPM at Bangalore—28-30 December 1986.**

- 1) Dr. S. G. Kinare, delivered an oration as president of IAPM.
  - 2) Dr. I. M. Vora participated in the teaching slide seminar on Inflammatory bowel diseases. Discussed 7 interesting cases.
  - 3) Mucin histochemistry of the beign and maligant lesions of the GIT.  
Dr. I. M. Vora, Amita Joshi, Varsha Vadera.
  - 4) Solitary Ulcer of the rectum — Report of 5 cases. Dr. I. M. Vora, P. C. Khubchandani, F. P. Candes, A. N. Supe.
  - 5) Myoeptithelial hamartoma of the stomach. A case report F. P. Candes, I. M. Vora, Deepak Shah, S. G. Shenoy (Poster session).
  - 6) Transposition of Great Vessels :— Am Autopsy study — J. Deshoande & S. G. Kinare.
  - 7) Aortic Valve disease in Rheumatic Heart Disease —A. Shiveraman & S. G. Kinare.
  - 8) Detection of ASV—2 antigen by immunological methods. A. A. Pandit, Pushpa Khilnani, G. G. Bhave.
  - 9) Primary Lymphoma of the meninges (poster session).
- (D) Dr. S. Y. Sane attended V National congress of perinatology in symposium on perinatal infection —January 1986 Bombay.

**WORKSHOP :—**

- 1) Dr. A. P. Desai participated in the "Workshop on Development of the clinical Neuroscience" held at Nimhans, Bangalore in April 1986. Read a perper on "Point and mode of entry for postgraduate course in Neuropathology".

- 2) Workshop on Diagnostic Electron Microscopy conducted by F. N. Ghadially at Jaslok Hospital, Bombay, December 1986.  
Following members attended.  
Dr. R. B. Deshpande, Dr. S. Y. Sane, Dr. Shaila Khubchandaani, Dr. K. S. Mayekar.
- 3) Dr. R. B. Deshpande attended workshop on surgical pathology at Apollo Hospital, Madras, Jnauary 6-7, 1986.

#### PAPERS PRESENTED AT TEACHING PATHOLOGISTS MEETING IN FEBRUARY 1986.

- 1) Immunohistochemical and Ultrastructural study of Brain tumours.—Dr. A. P. Desai.
- 2) Dr. B. V. Mittal paper presented Immunofluorescence studies in Vesiculoluslesions and collagen diseases. Bharati Mittal, Pushpa Gupte, Rajni Joshi, R. J. Fernandes.
- (F) Dr. A. P. Desai conducted a slide seminar on Neuromuscular disorders at the Annual Meeting of Association of Pathologists and Microbiologists at Ahmedabad in December 1986.
- (G) Dr. R. B. Deshpande took part in continuing Medical Education in J. N. Medical College, Belgaum. Conducted a slide seminar, June, 1986.
- 1) Dr. V. N. Acharya attended the 111rd Asian Pacific Congress of Nephrology which was held at Singapore in October 1986. She read a paper on "Snake Venom Renal Failure clinic-pathological observation as seen in Tropical Western India".
- 2) Dr. Alan Almeida & Dr. Umesh Khanna attended the Annual Conference of India Society of Nephrology held at Medurai and the following papers were read by them :
  - i) Further observation in Augmentin and its relation to increasing plasmid-mediated resistance of urinary pathogens.
  - ii) Rifampicin Nephrotoxicity — a clinical and pathological profile.
  - iii) Renal Cortical Necrosis — a study of 61 cases.
  - iv) Radionuclide evaluation of renal allograft function. Dr. Alan Almeida was awarded a fellowship for short training by the Academy of Medical Sciences and he spend 3 week at CMC Hospital Vellore studying problems of renal transplantation.
- 3) Dr. Umesh Khanna and Dr. Mahendra R. Merchant attended a workshop on Transplantation histopathology on clinical renal transplant, at CMC Hospital, Vellore.

The Unit is continuing to carry out active research work in the following fields :—

- a) Cell mediated immunity and its relation to humoral immunity and in recent urinary tract infection.
- b) Study of bacterial resistance of urinary pathogens.
- c) Study of non excretory functions of the kidney before and after transplantation under a grant obtained from B. A. R. C.

The following papers were published by the members of the Staff in the year under observation :

- 1) Hemolytic Uraemic Syndrome—a study of prognostic factors as seen on the Indian scene. Jr. of postgraduate Medicine Vol. 32, pg. 428, 1986.
- 2) Renal lesions following viper bite—a study of 14 years, Indian Journal of Medicine Research. Vol. 83, pg. 642-651, June, 1986.
- 3) Rifampicin induced Acute Renal Failure, JAPI, Vol. 34, Pg. 159-160.
- 4) Psychiatric morbidity among patients attending Medical outpatient department. Indian Journal of Psychiatry, Vo. 28, pg. 139-144, April 1986.
- 5) Acute Renal Failure a complication of new multi drug regimen for treatment of Leprosy. Int. Jr. of Leprosy, Vol. 54, pg. 380, September, 1986.
- 6) Merical Survey of Methy Isothiocyanide Gas affected population of Bhopal. Jr. of Postgraduate Medicine, October 1986.
- 7) Sequential study of Thiocyanide levels in Bhopal water following Methyl Isothiocyanide gas leakage. Jr. of Postgraduate Medicine, October 1986.

**DEPARTMENT OF PHARMACOLOGY****Dr. S. M. Karandikar****Meeting and Conference attended.**

- 1) Member of the meeting for Pharmacology, Directorate of Languages, Government of Maharashtra, entrusted the work of preparing Marathi scientific words for English terms.
- 2) Was invited to talk on Management information systems and computer applications in hospitals at Hindustan Antibiotics Training Centre.
- 3) Was invited to be speaker on drug information services for general practitioners at Nasik, under the aegis of Indian Medical Association, Nasik Branch.
- 4) Organised the late Dr. A. S. Paranjpe Memorial programme on indigenous drugs.
- 5) Continue to be member of biomedical Engg. Group of IIT, Pawai, Bombay.
- 6) Attended the Regional Conference of Pharmacologists of Maharashtra, Lonawala.
- 7) Presented Department's information and future plans in the programme "Know your Institute" at the Staff Society Presentation at the Institute.
- 8) Attended the programme on Liver Cirrhosis as part of Basel Liverweek at Basel, Switzerland and presented a paper on "Hepatoprotective agents".
- 9) Visited the University of Freiburg, Germany, Bremen, Germany, Max-planck Institute, West Berlin, University of Rennes, France, for developing collaborative work in years to come.
- 10) Attended International Conference on Early detection of senile dementia at Paris, France.
- 11) Was invited as Speaker in the Indo-US workshop on 'newer pharmaceutical technologies and bioequivalence' at Delhi.
- 12) Invited as Speaker at the Indo-Soviet Workshop on plant products at the Regional Research Laboratory, Hyderabad.
- 13) Was invited to be a member of Dr. Jussawala Committee for preparing guidelines for use of cytotoxic drugs in hospitals.

**Dr. (Mrs.) K. C. Gupta.**

- 1) Attended and participated in the I. C. M. R. meeting of experts and investigators, 'Clinical and experimental evaluation of traditional remedies for viral hepatitis'.
- 2) Attended and presented a paper at the XVIIIth Annual conference of Indian Pharmacological society held at JIPMER, in January 1986. Co-suthor of paper entitled 'Evaluation of indomethacin, ibuprofen and curcumin in UV irradiation induced erythema'-paper presented at XVIIIth Ann. Conf. of IPS held at Pandicherry.
- 3) Attended XIIth Annual Conference of Pharmacologists of Maharashtra held at Lonawala in August 1986 and co-chaired a session.

**Dr. (Mrs.) S. S. Nayampalli.**

- 1) Attended the Annual Conference of Indian Pharmacological Society held at Pandicherry in January 1986 and presented a paper entitled "Common black papper as an anticonvulsant and study of its mechanism of action.
- 2) Presented a paper entitled "Anticonvulsent action of common black pepper, in animals" at the 404th Staff Society meeting of K. E. M. Hospital & Seth G. S. Medical College.
- 3) Participated at the symposium of National Conference of Clinical Pharmacology at Bombay.
- 4) Participated in seminar on 'Epilepsy today' held at Hotel Ambassador, Bombay.
- 5) Invited to speak at the symposium on 'Memory and learning' at the All India Coneference 1986 in Bombay.
- 6) Delivered to learning on 'Neurobiology of memory and its correlation to learning' at Annual Conference of Biological Psychiatrists of India' at J. J. Hospital, Bombay.
- 7) Presented a paper entitled 'Phytochemical and Pharmacological studies of various extracts of Tinospora cordifolia in animals' at XIIth Regional Conference of Pharmacologists of Maharashtra held at Lonawala.

**Dr. A. B. Varde :—**

- 1) Attended the XIIth Annual Conference of Pharmacologists of Maharashtra held at Lonawala in 1986 and was co-author of paper 'Antiulcer activity of alcoholic extract of Acorus calamus on experimentally induced gastric ulceration in rats'.
- 2) Invited to deliver a talk on 'Integration of modern medicines with Ayurvedic and Homopathic system of medication a multi-disciplinary perspective at XIIth Annual conference of Pharmacologists of Maharashtra.
- 3) Member of organising committee of XIIth Annual Conference of Pharmacologists of Maharashtra, held at Lonawala.

**Dr. (Mrs.) N. A. Kshirsagar.**

- 1) Attended and presented a paper entitled 'Effect of iron deficiency anaemia (IDA) and treatment with total dose iron injection or oral iron on drug absorption and metabolism at 3rd World Conference of Clinical Pharmacology and Therapeutics, Stockholm.
- 3) Biological variables in bioavailability studies-paper presented at Indo-US Pharmaceutical workshop held at New Delhi.
- 4) Invited to present paper entitled 'Principles of Clinical Pharmacology and therapeutics drug monitoring, at Symposium on Clinical Pharmacology at Aurangabad.
- 5) Invited to present a paper on 'Therapeutic monitoring of anti-epileptic Drugs' at symposium on Drug Therapy and drug monitoring in epilepsy' held at Bombay.
- 6) Invited to present a paper on 'Effect of IDA' and its treatment in Pharmacokinetics of drugs' at International Seminar on Clinical Pharmacology in developing countries, Lucknow.
- 7) Attended the satellite symposium on 'Immunopharmacology' held at Oslo, Norway.
- 8) Co-author for paper 'SIO for experimental pharmacology practicals for medical students, presented at XII the Conference of Pharmacologists of Maharashtra.
- 9) Co-author for paper 'Problems in analysis of non-linear Pharmacokinetic data' presented at XIIth conference of Pharmacologists of Maharashtra.
- 10) Received Travel Grant from UGC for attending 3rd World Conference on Clinical Pharmacology & Therapeutics, Stockholm.

**Dr. (Mrs.) S. A. Dahanukar.**

- 1) Attended International Conference on : Traditional Medicine, held at Madras, January 1986 and presented a paper 'Plant products as biological response modulators'.
- 2) Attended International Symposium on 'Immunological adjuvants modulators of non-specific resistance to microbial infections' held at Columbia, Maryland, USA and presented a paper entitled T. Cordifolia and W. Somnifera.
- 3) Attended IIIrd World Conference on 'Clinical Pharmacology and Therapeutics' held at Stockholm, Sweden.
- 4) Attended International symposium on immunopharmacology held at Norway and presented a paper 'Indian Medicinal Plants as Immuno-modulators'.
- 5) Participated in the XIIth Annual Conference of Pharmacologists of Maharashtra and Co-author of Paper 'Quantitation of macrophage microbicidal activity in vitro technique.
- 6) Invited to talk on 'Ayurvedic aspects of Rheumatoid arthritis' in Seminar on 'Integrated medicine' organised by Rashtriya Arogy Sanghatana & Seth G. S. Medical College.
- 7) Invited to give a lecture for Ph. D. and M. D. students of Tilak Ayurvedic Mahavidyalaya.
- 8) Invited to participated in a workshop on 'Ayurvedic Research project and contribution of modern scientific methods' organised by University of Poona.
- 9) Invited to give a lecture on 'Scientific and technological assessment of indigenous drugs at the two day conference on Clinical Pharmacology of Indian Society for Clinical Pharmacology & Therapeutics held in Bombay.
- 10) Co-author for the paper Hepatoprotective effect of Tinospora Cordifolia mediation through macrophages presented at Based Liver Week.

**Dr. S. S. Ainapure.**

- 1) Attended XIIth Annual Conference of the Pharmacologists of Maharashtra at Lonawala and was co-author of paper 'Effect of alcoholic extract of acorus, calamus on experimentally induced gastric ulcer in rates'
- 2) Invited to deliver a talk on 'Drugs and perception an insight into the mechanism of action' at the Silver Jubilee Conference of the India Occupation Therapists Assn., held at Bombay.
- 3) Invited to attend a meeting of experts on traditional remedies for diabetes malitus held at New Delhi, In December 1986.
- 4) Co-author of paper entitled 'Diabetogenic agents and renal function tests', presented at XIIth Annual Conference of the Indian Pharmacological Society Held at Srinagar.
- 5) Co-author of paper entitled 'Effects of chronic administration of Aspirin and propranolol on experimental heperlipidaemia presented at XIIth Conference of IPS, Srinagar.
- 6) Organised the 1st symposium in memory of Prof. A. S. Paranjpe in March 1986.

**Dr. B. D. Samant.**

- 1) Attended the Silver Jubilee Conference of 'Nationa Academy of Medical Sciences' held at Bombay.
- 2) Attended the XIIth Conference of Pharmacologists of Maharashtra and was co-author of paper 'Phytochemical and Pharmacological studies of various extracts of T. Cordifolia in animals.'
- 3) Attended Workshop on B Planning and Management of Hospital and Nursing Homes' held at Bombay.
- 4) Attended the VIIth Annual Conference on 'Cost reduction in hospital and health care' at Bombay and presented an invited paper 'Paucity of financial help for service supporting activities.
- 5) Co-author of paper entitled 'Neurobiological aspects of memory' presented at conferences organised by All India Conference of Occupational Therapists held at Bombay.

**Dr. (Mrs.) S. S. Dalvi.**

- 1) Attended the XIIth Annual Conference of Pharmacologists of Maharashtra held at Lonawala.

**Dr. (Mrs.) N. A. Manjrekar :**

- 1) Attended the XIIth Annual Conference of Pharmacologists of Maharashtra held at Lonawala and presented a paper 'Bioavailability of Rifampicin'.
- 2) Participated in W. H. C. sponsored workshop on 'Student evaluation in medical education' at Government Medical College, Aurangabad, conducted by NTTC, PGI.

**DR. P. M. NADKARNI :**

- 1) Attended the Annual Conference of 'Indian Society of Nuclear Medicine' at Bangalore and presented a paper entitled 'Study of Intra Inter observer Variation in estimation of left ventricular ejection fraction by MUCA Technique'.
- 2) attended the XIIth Annual Conference of Pharmacologists of Maharashtra and presented a paper ant tied 'Problems in the analysis of non-liner pharmacokinetic data'.

**DR. SUNIL CHAUDHARY :**

- 1) Attended XIIth Annual Conference of Pharmacologists of Maharashtra and presented a paper entitled 'Alcoholic extract of acoruscalamus in experimentally induced ulcer.
- 2) Attended Silver Jubilee Conference of Occupational Therapists of India and presented the paper 'indigenous drugs and memory' held at Bombay.
- 3) Attended symposium on Thyroid Disorders arranged by thane Surgical Association.

**Dr. (Miss) N. N. Rege.**

- 1) Attended International Conference on 'Traditional Medicine' and was co-author of paper 'Plant products as biological response modifiers'.
- 2) Attended XIIth Conference of Pharmacologists of Maharashtra and presented a paper entitled 'S. I.O., for experimental Pharmacology practicals for medical students'.
- 3) Attended an International Symposium on Liver diseases 'Cirrhosis' at Basel Liver Week and presented a paper 'Hepatoprotective effect of T. Cordifolia mediation through macrophages'.

- 4) Co-author for paper entitled 'Immunomodulating effects of AR, TC & WS Part II, at the International Symposium on 'Immunological Adjuvants & Modulators of Non-specific Resistance to Microbial Infections', at Columbia, Maryland.
- 5) Co-author of paper entitled 'Indian Medicinal Plants as Immunomodulators' paper presented at Satellite Symposium of CPT World Congress Oslo, August, 1986.
- 6) Co-author of paper presented at Basel-Liver Week Antihepatotoxic effects of *Tinospora Cordifolia*.
- 7) Coauthor of paper entitled 'Quantitation of Macrophase microbicidal activity-an in vitro technique' presented at XIIth Conference of Pharmacologists of Maharashtra, Lonawala.

**Dr. (Mrs.) U. M. Thatte :**

- 1) Presented a paper entitled : Immunomodulating effects of AR, TC & WS oarts I & II' at the International symposium on 'Immunological Adjuvants and Mudulators of Nonspecific "Resistance, to Microbial Infections' at Columbia, Maryland.
- 2) Paper entitled 'Evaluation of Indomethacin, Ibuprofen and curcumin in u.v. irradiation induced erytheme' paper presented at XVIIIth Annual Conference of I. P. S., Pandicherry.
- 3) Co-author of paper entitled 'Plants as Biological response modulators' paper presented at International Conference on Traditional Medicine.
- 4) Attended International Conference on 'Biological Basis of Medicine and Technological advances', Bombay.
- 5) Co-author of paper entitled 'Effect of ASA on PAT in healthy volunteers' as XIIth Conference of Pharmacologists of Maharashtra at Lonawala.
- 6) Co-author of paper entitled 'Paucity of financial help for service supporting activity' presented at VIIth Annual Conference of Indian Society of Health Administration.
- 7) Co-author of paper entitled 'Indian Medicinal plants as immunomodulators' paper presented at Satellite Symposium of CPT world Congress Oslo, August, 1986.

**APPENDIX — VII  
PUBLICATIONS :**

**DEPARTMENT OF OBSTETRICS & GYNAECOLOGY :**

- 1) Article on Guidelines for a Medical Diagnostic centre in the Book-Social & Family Welfare in Industry. Published by Bombay Chamber of Commerce, 1986.
- 2) Article on Emergencies on Obst. & Gynaec in Book. Emergencies the challange in General Practice. Published by General Practitioners Assoc. Bombay, February 1986.
- 3) Article on Prostaglandin as Menstrual inducing agents in the book procedings of Jr. Symposium by ICMR on Post-coital, once a month and menses inducing agents in the control of female fertility, January 1986.
- 4) Co-authier Randomised comperision of different PG analogues and laminaria tent for Pre-operative Dilatation Journal Contraception 34 : 237-252, 1986.
- 5) Oxytocinase in High Risk pregnancy. Indian Journal of Obst. & Gynaec June 1986 Vol. 36 No. 3, Page 494.
- 6) Hypertension of pregnancy due to aotoarterilis and management of labour PGAI infusion (A case report Journal of Obst. & Gynaec of India, October 1986, No. 5, Vol. 36. Page 936.
- 7) Chorio Carcinoma with metastasis in vaginal vulva and ischiorectal fossa (A case report) Journal of Obst. & Gynaec of India, February 1986, Vol. 36, No. 1, Page 1986.
- 8) Early puerperal laparoscopic sterilisation a new technique. Journal post-graduate medicine, June 1986.
- 9) Spontaneous Evolution (A case Report). The Journal of Obst. & Gynaec Vol. XXVI No. 3, June 1986.
- 10) Complications of Laparoscopic Sterilisation in Rural Camps. The Journal of Obst. & Gynaec of India, Vol. XXXVI, No. 4, August 1986.



- 11) Interuterine Device and Extrauterine pregnancy. (Report of 2 cases). The Journal of Obst. & Gynaec. of India, Vol. XXXVI No. 4, August 1986.
- 12) Bilateral Tubal Diverticula with an Ectopic Gestation (A case Report). The Journal of Obst. & Gynaec. India, Vol. XXVI, No. August 1986.
- 13) Uterine Inversion Following Second trimester abortion (A case Report). The Journal of Obst. & Gynaec. of India, Vol. XXXVI, No. 4, August 1986.
- 14) Lithopedion Formation Following incomplete abortion (A case Report). The Journal of Obst. & Gynaec. of India, Vol. XXXVI, No. 4, August 1986.
- 15) Spontaneous Gangrene of the tube and ovary (A case Report). The Journal of Obst. & Gynaec. of India, Vol. XXXVI, No. August 1986.
- 16) Cryptomenorrhoea : A New cause. The Journal of Obst. & Gynaec. of India. Vol. XXXVI, No. 4, August 1986.

#### **SETH DHURMAL BAJAJ ORTHOPAEDIC CENTRE AND RESEARCH INSTITUTE :**

- a) Dr. Dhir R. S., & Bhojraj S. Y. :  
By pass plate an indigenous external fixator-accepted for publication in Indian Journal of Surgery 1986.
- b) Dr. Patel B. R. :  
Pseudarthrosis in results — Accepted for publication for publication in Indian Journal of Orthopaedics 1986.

#### **New facilities created and achievements :—**

- a) Image Intensifier received — but not yet made functioning..
- b) Airconditioning and renovation of Routine Operation theatre.
- c) Continuous Passive Motion Machine introduced for the treatment of joint pathology.
- d) Spine clinic started since August 1986 to improve spine care in term of prevention and therapy.

#### **Other achievement of the Department :**

- a) Dr. Tillu A. B. and Dr. Chaudhary M. M., both from Seth G. S. M. College stood first and second respectively in M. S. (Orth.) Examination (May 1986) — from Bombay University.
- b) A workshop on 'Cementless Total Hip Prosthesis' at Bombay Hospital — December 1986 :  
— attended by Dr. R. S. Dhir, Dr. L. N. Vora,  
Dr. A. V. Bavadekar, Dr. M. N. Shahane, Dr. S. K. Bhandare,  
Dr. C. G. Pradhan, Dr. M. L. Saraf.
- c) Workshop on reconstructive surgery of painful joint disorders at Pune — August 1986.  
— Attended by Dr. A. V. Bavadekar, Dr. M. L. Saraf,  
Dr. K. R. Manelkar.
- d) International Seminar on 'Disorders of Cervical Spine' at Bangalore — September 1986.  
— Attended by Dr. S. Y. Bhojraj.
- e) Workshop on External fixation in complicated band injury at Bombay — December 1986.  
— Attended by Dr. S. K. Bhandare and Dr. K. R. Manelkar.

#### **DEPARTMENT OF BIOCHEMISTRY & NUTRITION :**

- 1) Study of creatine kinase isoenzymes and pyruvate kinase in the detection of Duchenne muscular dystrophy carriers.  
— A. M. Vartak and K. G. Tanksale.  
Ind. J. Clin. Biochem 1,98-105, 1986.
- 2) Superoxide dismutase, alpha galactosidase and plasminogen activator activity in normal and Duchenne dystrophic muscle.  
— A. M. Varadkar, K. G. Tanksale and A. D. Desai.  
Ind. J. Clin. Biochem 2,5-8 1987.

**DEPARTMENT OF UROLOGY :**

- 1) Pardanani D. S. Co-Editor, Proceedings of the 7th WORLD CONGRESS OF SEXOLOGY held in New Delhi, November 5-8, 1985. Published for Indian Association of Sex Educators, Counsellors and Therapists, Bombay, March 1986.
- 2) Rupin Shah, D. S. Pardanani, B. G. Parulkar, S. P. Purohit and Prakash Kothari. Investigations in Male Sexual Dysfunction. Proceedings of the 7th WORLD CONGRESS OF SEXOLOGY, March 1986. pp. 67-69.
- 3) Parulkar B. G., Chandha M., Pardanani D. S., Shah R. S. Purohit S. P., Kothari P. N. and Bhandarkar S. D. Evaluation of sexual Dysfunction in Diabetic Males. Proceedings of the 7th WORLD CONGRESS OF SEXOLOGY, March 1986. pp. 109-115.
- 4) Parulkar B. G., Pardanani D. S., Purohit S., Shah R. S. Review of Management of organic erectile dysfunction. Journal of Federation of Medical Guilds. October 1986.
- 5) R. S. Shah, S. R. Shah, A. B. Shah S. P. Purohit. M. K. Sobti, B. G. Parulkar and D. S. Parulkar and D. S. Parulkar and D. S. Pardanani. Intravenous indomethacin and baralgin in the treatment of acute ureteric colic. Indian Journal of Surgery 48 : 350, September 1986.

**DEPARTMENT OF PLASTIC SURGERY :**

Dr. S. J. Joshi and K. S. Goleria and Dr. S. R. Tambwekar participated in Symposium on 'Late

- 1) Dr. S. J. Joshi and Dr. K. S. Goleria and Dr. S. R. Tambwekar participated in Symposium on 'Late Reconstructions in Traumatology' at the Seth Dhurmal Bajaj Orthopaedic Centre and Research Institute, K. E. M. Hospital and
  - Dr. K. S. Goleria presented a paper on 'Management of Pressure sores in Paraplegia'.
  - Dr. S. R. Tambwekar presented a paper on 'Microvascular surgery and muscle pedicle bone grafting'.
- 2) Dr. S. R. Tambwekar carried out 'Arm Transplant' successfully on 6-12-1986 in case of bilateral amputation of upper limbs.
- 3) Dr. S. R. Tambwekar attended the Annual Conference of Association of Surgeons of India at Agra Agra 26-30 December 1986 and he was on the Executive committee at the above conference.

**DEPARTMENT OF PAEDIATRICS :**

**Dr. N. B. Kumta :**

- 1) 'Menkes Steely Hair Disease' — Indian Pediatrics, 23(1), 1986, pp. 64-67.
- 2) 'An Overview of Congenital Malformation of the Respiratory Tract' — Indian Journal of Chest Diseases and Allied Sciences 28 : pp. 6-10, 1986.
- 3) 'Prevention of Mental Handicap in Developing Countries' — Current topic : Archives of Diseases in Childhood; 1986, 61 : pp. 411-412. Report of ten recommendations of Bombay Workshop : Acknowledgement given for participation and local organisation.

**Dr. S. P. Irani :**

- 1) A survey of Bhopal Children Affected by Methyl Isocyanate Gas in J. of Post-Graduate Medicine 32(4) 1985-198, 1986.
- 2) Neonatal Infection in J. Of Perinatology (under publication).

**Dr. B. A. Bharucha.**

- 1) 'Menkes Steely Hair Disease' — Indian Pediatrics, 23(1) 1986, pp. 64-67 (2nd Author).
- 2) 'An Overview of Congenital Malformations of the Respiratory Tract' — Indian Journal of Chest Diseases and Allied Sciences, 28 : pp. 6-10, 1986 (2nd Author).
- 3) 'Prevention of Mental Handicap in Developing Countries' — Current topic : Archives of Diseases in Childhood : 1986, 61 : pp 411-412. Report of ten recommendations of Bombay workshop : Acknowledgement given for participation and local organisation.

**Dr. T. Y. Kagalwala :**

- 1) 'Menkes Steely hair disease : Indian Pediatr. (1986) : 23 : 64-67 (Co-author).
- 2) Cavernous Hemangioma of the liver and spleen. Indian Pediatr. (accepted for publication) 1st author) (Ref : 86/291).
- 3) Wilson's disease : A study of 12 cases. Indian J. Gastroenterol. (Accepted for publication) (2nd author) (Ref : 1J6 37/86).

- 4) The Eye in genetic disorders. Indian J. Ophthalmol. (Received for publication) (co-author) (Ref. 1jo 1378).
- 5) MURCS Association. Indian Pediatr. (Accepted for publication) (co-author) (Ref : 86/327).
- 6) Farber's lipogranulomatosis. Indian Pediatr. (Received for publication) (3rd author).
- 7) Chondro-ectodermal dysplasia (Ellis-van creveld syndrome). A study of five cases Indian Pediatr. (Accepted for publication) (1st Author) (Ref : 87/26).
- 8) Glanzmann's Thrombasthenia — A case report. Ind. Pediatr. (Received for publication) (3rd author).
- 9) Multiple Intrauterine/foetal/neonatal infections. Indian Pediatr. (Received for publication).

**Dr. P. W. Kandoth :**

- 1) Polymyositis associated with overlap syndrome case report. J. Post-Grad. Med. 1986(32)(1) 39-41.
- 2) Long term follow up of Nephrotic syndrome in childhood. VII International congress of Pediatric Nephrology Tokyo. September 1986.
- 3) CRP in neonatal infections.
- 4) Lipid profile in nephrotic syndrome.
- 5) VII International Congress of Pediatric Nephrology. Tokyo, September 1986.

**Dr. M. K. Joshi :**

- 1) Resistant tuberculosis case report S. H. Abhyankar, S. Naik, M. K. Joshi, Ind. Ped. Vol. 73 pg. 730-734, 1986.
- 2) Polymyositis associated with overlap. Syndrome case report. J. of Post-graduate medicine. R. M. Joshi, M. D. Mohire, J. R. Kamat, M. K. Joshi, P. W. Kandoth. J. of Post-graduate Medicine 1986 37(1) 39-41.

**Dr. J. R. Kamat :**

**Publications — National.**

- 1) Polymyositis associated with overlap syndrome. Case report J. Post Grad. Med. 1986 (32)(1) 39-41.

**Papers Read :**

International Conference of Pediatric Nephrology.

- (1) Long term follow up of Nephrotic syndrome in childhood. VII International congress of Nephrology. Tokyo September 1986.

**Dr. K. R. Lahiri :**

**Publications : National :**

- 1) Aorto — arteritis in childhood. Ind. Ht. Jr. Vol. 38, No. 6 183-187, May-June 1986.
- 2) An autopsy study of congenital heart diseases in childhood. sent to Ind. Ht. Jr. 1986.
- 3) Problems faced by Parents/relatives after hospitalisation sent to the Medicine and Surgery Jr.

**Papers read : International conference :**

- 1) Long term follow up of Nephrotic syndrome in childhood. VII International congress of paediatric Nephrology, Tokyo, September 1986.

**National : Indian Academy of Paediatrics. N. Delhi. 1986.**

- 1) Aorto-arteritis in childhood - poster presentation.
- 2) CRP in neonatal infections.
- 3) Lipid profile in nephrotic syndrome.

**DEPARTMENT OF PSYCHIATRY :**

- 1) Meprobamate in Schizophrenia — An open study. Jr. of Post-grad. medicine. Dr. D. R. Doongaji, Dr. A. Desai, Dr. R. S. Satoskar. In IPI text book of medicine. Ed. (IV), 1986.

- 2) Classification of Psychiatric disorders. Dr. A. S. Seth and Dr. A. Desai.
- 3) Psychotherapy. — Dr. A. Desai.
- 4) Psychophysiological disorders — Dr. Desai.
- 5) Physical treatment in Psychiatry — Dr. Ashit Sheth and Dr. B. Shah.
- 6) Facitious Disorders adjustment disorders and disorders of impulse control. — Dr. D. R. Doongaji and Dr. Amit Desai.
- 7) Traditional concepts of Mental Disorder — A Preliminary report, published in Social Sciences in Med. — Dr. Weiss, Dr. D. R. Doongaji, Dr. A. B. Desai.

#### Dr. L. P. Shah's Unit :

- 1) Dose effects of Antidepressant Medication in different populations. — W. H. O. collaborative study (1986) Jr. Aff. dis. suppl. 2, 1-67.
- 2) Value of the general health questionnaire in detecting psychiatric morbidity in a general hospital out patient population. — Dr. P. V. Pradhan, Dr. P. D. Lakdawala et al. Indian Journal of Psychiatry, October 1985, 27(4), pp. 393-296.

#### DEPARTMENT OF PATHOLOGY :

- 1) A note on the normal measurements of the heart-Indian Heart J. 38 : 215 - 18 1986 Dr. S. G. Kinare.
- 2) Thromboangitis obliterans. Indian practioner. January 1986 P. 27-32 Dr. S. G. Kinare.
- 3) Renal allograft rejection — Indian J. Pathology. Thicribiol 29. 167-178 : 1986. Dr. S. G. Kinare.
- 4) Fungal and parasitic infections of CNS. Chapter in A.P.I. Text Book of Medicine, 1986. Dr. A. P. Desai.
- 5) Pathological diagnosis — Submucous lipoma of small intestine — I. M. Vora & S. R. Khubchandani. Jr. of Applied Medicine 1986, 12 : 765. — Dr. I. M. Vora.
- 6) Noncaseating granulomatous inflammatory lesions of exherimental tuberculosis in Gogs and Guinea pigs. — Dr. R. D. Bapat, Dr. H. M. Nazareth, Dr. L. A. Desa, Dr. P. Maniar, Dr. R. C. Mistry, Dr. I. M. Vora, Dr. N. N. Rege, Ind. J. Gastroenterol, 1986 : 5 : 87-89. Dr. I. M. Vora.
- 7) Effects of experimental nonclosure of peritoneum on development of suture line, adhesins and wound strength in dogs. — Dr. B. G. Parulkar, Dr. A. N. Supe, Dr. S. K. Mathur, Dr. I. M. Vora, Dr. Indian Jr. of Gastroenterol, 1986, 5 : 251-253 — Dr. I. M. Vora.
- 8) Evaluation of 3% phenol as a sclerosant an experimental study. In D. K. Bhargave. Ed. Endoscopic sclerotherapy for oesophageal varices. Published by Digestive diseases. foundation — New Delhi 1986. pg. 103-105. — Dr. S. K. Mathur, Dr. A. N. Supe, Dt. S. R. Naik, Dr. B. G. Parulakr, Dr. I. M. Vora, Dr. R. A. Bhalerao.
- 9) Use of Indigenous knitted nylon mesh to repair large abdominal defects — An Experimental study — Dr. B. G. Parulkar, Dr. A. N. Supe, Dr. S. K. Mathur, Dr. I. M. Vora, Dr. A. B. Samsi. J. of 1986. Post-grad., Med. 1986 Vol. 32/4.
- 10) Primary sclerosing cholangitis associated with chronic idopathic Ulcerative colitis — a case report. — Dr. S. Parikh, Dr. K. Singh, Dr. A. K. Malik, Dr. S. Kataria, Dr. I. M. Vora, Dr. S. R. Naik, Ind. J. Gastroenterol. 1986, 5 : 205-207.
- 11) 'Fine needle aspiration cytology of thyroid' A. A. Pandit, S. G. Kinare, Indian Journal of Cancer, 23, 54-58 March — 1986.
- 12) 'The value of vaginal cytology in prediction of labour with special reference to Eosinophilic and Kango-pyknotic indices'. Ajita Pandit, Alka Kalgutkar. Jr. of Postgraduate Medicine, 32(4), 210-213, 1986.
- 13) 'Multilocular, predominatly cystic renal cell carcinoma — An Gnusal gross appearance — a case report'. R. B. Deshpande, Ajita Pandit, I. M. Vora, A. N. Dalvi, R. Ravi, H. T. Nail, S. G. Shenoy. Jr. of Postgraduate Medicine, 32(4) 259-240, 1986.
- 14) 'Renal Lesions following viper bilts — a study of 14 years, B. V. Mittal, S. G. Kinare, V. N. Acharya, Ind. Jr. Med. Res. 1983, 642-651 1986.

- 15) Acute renal failure — A complication of new multidrug regime for treatment of leprocy. Dadhia N. M., Almeida A. F., Khanna U. B., Mittal B. V., Acharya V. N. International Journal of Leprosy. Vol. 54, 380-382, 1986.
- 16) Malignant hypertension — Clinicopathological study of 88 patients — V. N., J. Ass. Phy. Ind. 34, 563-565. 1986 B. V. Mittal.
- 17) HLA and gastrointestinal disorders. Sita Naik, Ind. Jr. Gastroenterol, 5 : 7, 1986 (Invited review).
- 18) Neurological complications of the acute haemorrhagic conjunctivitis, J. S. Chopra, I. M. S. Sengal. J. of Neurological science, 73 : 177, 1986.
- 19) Lymphocytotoxic antibodies (LCTA's) in Idiopathic Ulcerative colities. Sita Naik S. R. Naik, P. N. Rao, S. K. Mehta, S. Sehgal. Ind. Jr. Gastroenterol 5 : 219, 1986.
- 20) Resistant Tuberculosis. S. H. Abyankar, S. Naik, M. K. Joshi, Indian Pediatrics 23 : 730, 1986.

#### DEPARTMENT OF PHARMACOLOGY :

- 1) Drug interaction between guanfacine and nonsteroidal anti-inflammatory drugs. Pharmacology, 33(5), 292-300, 1986. U. M. Thatte, K. C. Gupta, R. S. Satoskar.
- 2) Salivary antipyrine half life during injectable progestagen contraception Clin. Pharmacokinetics 11, 171-175, 1986. J. V. Joshi, K. C. Gupta, K. T. Hazari, J. Gokral, S. Puhujani & R. S. Satoskar.
- 3) Non-caseating granulomatous inflammatory lesions of experimental tuberculosis in dogs & guinea pig. Ind. Jr. of Gastroenterology 1987-89, Vol. 5, No. 2, 1986. R. D. Bapat, H. M. Nazareth, L. A. Desa, R. C. Mistry, P. Maniar, I. M. Vora, N. N. Rege.
- 4) Phagocytic and chemotactic function of human polymorphonuclear cells during tetanus infection. Jr. of Postgrad. Medicine, 32, 1970-76. 1986. U. Chavan, S. M. Karandikar, F. D. Dastur, Veena Avataramani.
- 5) Serum levels of a new compact formulation of Cotrimoxazole, Ind. Practitioner, 39, 383-388, 1986. S. A. Dahanukar, N. K. Desai, N. N. Rege, S. M. Karandikar.
- 6) Ayurveda and contemporary scientific thought — U. M. Thatté, S. A. Dahanukar, TIPS (1986) 7 : 247-51.
- 7) Protective effect of *Asparagus racemosus* against induced abdominal sepsis. Indian Drugs (1986) 24, 125-128, S. A. Dahanukar, U. M. Khatte, N. Pai, P. B. More, S. M. Karandikar.
- 8) Antibacterial levels in peritoneal fluids in rats. Ind. Jr. of Surgery (December 1986).
- 9) Effect of standard breakfast and lunch on sulphadimidine bioavailability, N. A. Med. Rgs. 83, 618-622 (1986).
- 10) Effect of Iron deficiency anaemia and its treatment on Pharmacokinetics of drugs. N. A. Kshirsagar. Proceedings of International. Seminar on clinical pharmacology in developing countries vol. I, 64-71, 1986.
- 11) Effect of iron deficient anaemia and its treatment on drug Pharmacokinetics, N. A. Kshirsagar, Therapeutics 2, 33-34, 1986.
- 12) Effect of deficient anaemia and its treatment on drug Pharmacokinetics. N. A. Kshirsagar, P. M. Nadkarni, U. M. Joshi, G. M. Sankolli. R. S. Satoskar. Accepted for publication Ind. Jr. Pharma.
- 13) Interaction between clonidine and enphenamic acid (Animal Study) Arch. of international pharmacodyn 280, 106-116, 1986.
- 14) Review article 'Interaction between antihypertensive agents and NSAIDs, Indian Heart Jr. 3, 326-328, 1985, N. A. Kshirsagar, S. S. Dalvi, U. M. Thatte.
- 15) Role of cholinergic mechanism in the hypoglycaemic action of B. Pertussis vaccine. Japanese, Jr. of Exptl. Med. 56(4), 147-149, 1986. S. S. Ainapure, H. L. Dhar.
- 16) Antiallergic properties of *T. Cordifolia* in animal models. S. S. Nayampalli, S. S. Ainapure, N. K. Desai, Paper accepted for publication in the Ind. Jr. of Pharmac.
- 17) Antiviral therapy. U. M. Thatte, Indian practitioner, March 1986.
- 18) Anthelmintic therapy. U. M. Thatte, Indian Practitioner, April 1986, 39 : 363-370.
- 19) Topical therapy. U. M. Thatte, Update, 1986.
- 20) Antipyrine clearance in oral contraceptive users, K. T. Hasari, J. V. Joshi, K. C. Gupta, J. S. Gokral, S. Puhujani, R. S. Satoskar, Therapeutics & Drugs; 2, 27-28, 1986.

## APPENDIX — VIII

**SETH DHURMAL BAJAJ ORTHOPAEDIC CENTRE AND RESEARCH INSTITUTE :**

**Scientific Syposia, Workshops, Conferences, CME programmes Seminars, organised by the Department :**

- a) Injuries of the Elbow : 21st September 1986.
- b) Late Reconstructions in Orthopaedics — 15th & 16th November 1986.
- c) Clinical meeting under the auspices of Bombay orth. society on 30th November 1986.
- d) Operative sessions for Johnson & Johnson Fellows. (awarded by Indian Orthopaedic Association) : 3-12-1986.

**Participation in International Scientific Meeting and visits of staff members for receiving special training :**

**(A) Dr. L. N. Vora, Hon. Professor :**

- a) Annual conference of American Academy of Orth. Surgeon at New Orleans January 1986.
- b) Course on 'Surgical Treatment of O. A. hip and knee' by Maurice Muller Foundation at Berne, Switzerland — January 1986.
- c) Second European Congress of Knee surgery and Arthroscopy at Berne, Swithaerland — September 1986.
- d) Sir Harry Platt Centenary Meeting at Manchester, England, September 1986.

**(B) Dr. M. N. Shahane, Hon. Professor :**

Visited Japan, Thailand, Hongkobj and Singapore as visiting Professor. Attended Scientific meeting organised by the National Associations of host countries.  
Took training in Cementless Total Hip replacement.

**(C) Dr. A. V. Bavadekar, Hon. Professor :**

- a) Participated in International Meeting on 'Bone Tumours' at Vienna — August 1986.
- b) Participated in Meeting on 'Osteosarcoma'

**(D) Dr. B. R. Patel, Hon. Assoc. Professor :**

— Attended Americal Acadamy of Orthopaedic Surgeons' Conference — New Orleans, U. S. A. — January 1986.  
— Attended C. M. E. Course.

**Scientific papers presented at National & International Meeting :**

- a) Dr. R. S. Dhir, Professor & Head.  
At Annual meeting of MSOA, Akola — 1986.  
— National History of Prolapse Intervertebral disc.  
— By pass plate as an indegenous external fixator.  
— Peripheral Nerve Injury and epineural repair.  
(Talk in C. M. E. Programme).
- b) Dr. B. R. Patel, Hon. Assoc. Professor : At MSOA Annual meeting at Akola, September, 1986.  
— Total Hip joint replacement post. approach without detaching trochanter.  
— Arthrolysis in acute hot dislocated elbow.

**(C) Dr. Kiron Manelkar, Lecturer—**at Annual Conference of MSOA at Akola in February 1986 :

- Primary internal fixation in compound fractures.
- A. M. pinning for intracapsular fracture of neck femur.

**DEPARTMENT OF OBST. & GYNAEC**

**CONFERENCE, WORKSHOP, SEMINAR ATTEND :**

**Dr. Usha Krishna :** (1) National Co-ordinator for Int. Conference on Biological Basis of Medicine & Tecchnologic Advances January 7-9. 1986.

(2) **Convener** — Simposium in Reproductive Biology Human Reproduction, in Int. Conf. on Biological Basis of Medicine & Tech. Advances, Seth G. S. M. College on 8-1-1986.

- (3) Co-Chairperson — V National Congresson Perinatology 7-9th February 1986.
  - (4) Convener — Perinatology Workshop at G. S. M. College, 6th February 1986.
  - (5) Speaker — Prostaglandin Passaries in M. T. P. In Workshop on M. T. P. organised by FOGSI, 6th April 1986.
  - (6) Speaker — Cytology of Enfolliative Cytology (Gyn. & Obst) Nanavati Hospital, organised by Bombay Ob. Gyn. Soc. on 12-9-1986.
  - Speaker — Foctal Acid base monitoring amnioscopy Recent advances and urture in EFHRM, Training prog. in Elec. Foetal heart rare monitoring at N. Wadia Hos. organised by FOGSI on 9th Oct. 1986.
  - (8) Panel Member — Brain storming & Pane Discussion Foetal heart rate monitoring at N. Wadia Hospital 11th October 1986.
  - (9) Speaker — Place of Depot Injectable Preparations a study of Norethister one in Symposium on Steroidal contraception at K. E. M. Hospital Sem. Hall on 5th November 1986 at the 17th Annual Meeting of the Endocrinæ Society of India.
  - (10) Evaluation of Antinflammatory and Chemotherapeutic agents in Gy. & Obst. in ICMR sponsored Tr. Prog. in Clinical Pharmacology at K. E. M. Hosp. on 11-12-1986.
  - (11) May 1986, attended the Int. Congress Endoscopy at Floramce Chaired a Session on Laparoscopy Sterilization. Presented a paper on Female sterilization.
  - (12) October 1986 attended at International Conference on Fertility and sterility Spoke on Ectopic Pregnancy Net. Inj. and IUCD.
- Dr. K. A. Adarkar : (1) attended XIV Annual Conference of Bombay Obstertrics & Gynaecological Society on 7th June 1986 and presented a paper entitled "Hormone Assay in Menopause".
- (2) Vth National Congress of Perinatology 9th February 1986, Read a paper entitled "Perinatal Outcome in high risk pregnancy".
- (3) XIV annual Conference of India association of Physical and Medicine Rehabilitation at Pune on 28th February 1986, Read a paper on "Role of Obsterician & Gynaecological in the management of female Rheumatoid".

Won ALIMCO PRIZE for best paper, participated in the C. M. E. and gave a talk on "Rhemmatoid female".

#### DEPARTMENT OF UROLOGY :

Workshop on "Extrophy Renal Calculi" was organised by Dr. Datar and "Biochemistry and Management of Renal Calculi" by Dr. George Alan Rose from London and guest lecture on "Hydronephrosis" by Dr. Patel from West Germany. Members of the Department attended 2 workshops on "Percutaneous Renal Surgery" by dr. Arthur Smith and Dr. Gopal Badlani from U. S. A. and "Paediatric Urology" by Dr. Snyder and Dr. Patil from U. S. A. Dr. Pardanani, Head of the Depaartment, Visited a number of prestigious Urological Centres in U. S. A. to learn latest techniques in Percutaneous Renal Surgery, E. S. W. L., M. R. I., Ultrasonography etc., During the year some new academic activities were started in the Department including commencement of a new "Urinary Stone Outpatient Clinic", a regular Percutaneous Renal Surgery Programme and a new therapeutic investigation consisting of intra-cavernosal injection of papaverine in case of Impotence.

#### Visit to Medical Centres Abroad :

Dr. D. S. Pardanani, Head of the department, visited a number of prestigious medical centres in U. S. A. like Boston, Indianapolish, Chicago and New York to see advanced Urological work in the field of Endourology, M. R. I., Ultrasonography WSWL etc., He visited the annual Exposition of the Federation of American Hospital Association in Toronte, Canada. Dr. Pardanani also visited Centres in Paris to see a new ESWL machine working on Ultrasonography (EDAP). He presented a paper on "Use of Dextranomer in the Treatment of Infected wounds" at Uppsala in Sweden.

#### New Activities started in the Department in 1986.

- (1) A new Urinary Stone Clinic was started as an outpatient service by the Department to give special attendion and treatment to patient by urinary stone disease.
- (2) A regular Percutaneous Renal Surgery Programme was stated in April 1986 as a new Operative Therapy for patients suffering from Urinary Calculi. About 80 cases received this new latest mode of treatment in the Department during the year. 1986.
- (3) A new mode of investigation and treatment of Impotence involving the use of intra-cavernosal injection of Papaverine was commecnced in the department.

**DEPARTMENT OF PAEDIATRICS.****NEONATOLOGY :**

The Department of Pediatrics & Neonatology was visited by this eminent neonatologist on 8th September 1986.

Dr. Cooke had clinical case discussions with staff and residents of Neonatal intensive care units and delivered 2 lectures on "Birth Asphyxia and Intraventricular hemorrhage" and "Ultrasonography in Neonatology".

**Dr. N. B. KUMTA — ACADEMIC PARTICIPATION :**

- 1) Invited guest speaker — INTERNATIONAL WORKSHOP ON LABORATORY METHODS IN HUMAN GENETICS — NEW DELHI.  
27th January to 5th February 1986.  
A) On a clinical approach to the diagnosis of Neurodegenerative disorder.  
Clinical approach to the diagnosis of Mucopolysaccharidosis. — AS FACULTY MEMBER.
- 2) PARTICIPATED AS DELEGATE — or the section of the workshop on Biochemical methods in Human Genetics — International workshop.
- 3) WRITE UP ON LABORATORY DIAGNOSIS OF GALACTOSEMIA for International workshop.
- 4) Programme Director of WHO AIDSED clinical demonstration centre on oral rehydration therapy management of Acute Diarrhoeal Diseases at Kasturba Hospital for Infectious Disease 1986.
- 5) Organised 4 day workshop on practical methods in Biochemical genetics at K. E. M. Hospital — sponsored by British Deputy High Commission, British Council — Dr. I. B. Sardharwala, Dr. Brian Fowler.
- 6) Representative of the board of management of Bai Jerbai Wadia Hospital for children 1985-86.
- 7) Guest speaker on Genetic counselling for Hearing Impaired One day workshop for parents of deaf children organised by Goodwill Service Group — A Association for Hearing Impaired 16th February 1986.
- 8) Participated in 1st National Symposium on Pediatric Endocrinology 10-12th January, 1986 — Invited speaker on 'Genetic Basis of Endocrine Disorders' organised by British High Commission, British Council Division and B. J. Wadia Hospital for Children, Institute of Child Health and Research Centre.
- 9) National symposium on updated in Streptococcal Infection and their swquelaes — Future perspectives prevention and control of strptococcal infections and their swquilaes' — 28th February 1986.
- 10) 'Prenatal Diagnosis and Genetic Counselling in Pregnancy' PG lecture series organised by Bombay Branch of India Academy of Pediatrics — 24th August 1986.
- 11) Invited speaker and panel member at seminar on 'Hypertension the silent Killer' — Organised by National Council on Hypertension, Indian 21st September' 1986.
- 12) Keynote address on 'Role of mother in care of diseased or disabled child' — in National workshop on "Meaningful participation of Indian mother in child health and care" sponsored by Indian Academy of Pediatrics, October 18 & 19 - 1986.
- 13) Examiner for practicals — MNAMS (Pediatrics) 1986 of the National Board of examination at Calcutta, 11-12-12 November, 1986.
- 14) Member of Academic Committee of the National Institute for the mentally handicapped. Ministry Welfare, Government of India. Secunderbad. 2 meetings in 1986. Invited by Dr. G. K. Menon, Director.
- 15) ICMR multicentric project on "short term chemotherapy of primary pulmonary complex in children".  
Documentation criteria of primary pulmonary tuberculosis started in 1983 continued.



**DE. S. F. IRANI :—ACADEMIC PARTICIPATION.**

- 1) Organised a one month course in Neonatal Nursing in collaboration with the British Council at K. E. M. Hospital in January 1986.
- 2) Convenor of the Seminar on Neonatal nursing of K. E. M. Hospital 3rd February 1986.
- 3) Organising secretary of the Vth National Congress of Perinatology February 7-9th 1986 at Oberoi Towers, Bombay.
- 4) Attended the conference of National Academy of Medical Science, February 1986.
- 5) Read a paper on neonatal Infection in the Vth Perinatology congress 1986.
- 6) Invited to speak on "Low Weight babies" and "factors in Reducing perinatal mortality" at the workshop in Surat, organised by West Zone Perinatology, October 1986.
- 7) Invited to attend the WHO meeting at Geneva, December 1986 Discussed on importance of follow up of Low Birth Weight babies and detect factors leading to mental retardation in them.
- 8) Working on the project on "Low birth Weight" sponsored by CAMHDD.
- 9) Research project on Birth Asphyxia" funded by Research Society, K. E. M. Hospital.

**DR. B. A. NHARUCHA — ACADEMIC PARTICIPATION :**

- 1) 'Continuing Medical Education Programme — conducted by Bombay Branch of Indian Medical Association, February 18, 1986. Invited to deliver a lecture on Mental Retardation to general practitioners.
- 2) Lecture series for postgraduates in Pediatrics — Organised by Bombay Branch of Indian Academy of Pediatrics, B. J. Wadia Hospital.

**DEPARTMENT OF CARDIOVASCULAR & THORACIC SURGERY.****Scientific Papers Presented At The Conferences during the year 1986-87. (April to March).**

Thirty years of Open Heart Surgery, Dr. B. S. Jirge.  
Memorial Oration, Belgaum, 12th April, 1986.

Thirty years of Open Heart Surgery, — Clinical experience from 1956-1985, Silver Jubilee Conference of N. A. M. S. (India), Bombay, 14-16 April, 1986.

Hospital Management for Superspeciality — Guest Speech. Bombay Management Association, Bombay, 17-4-1986.

My encounters with heart experience of 3 decades — Kenyatta Medical Centre, Nairobi, Kenya.

Surgical treatment of mitral stenosis — Review of 7500 patients treated surgically — Agakhan Hospital, Nairobi, Kenya.

Paucity of financial help for service supporting activities : workshop on hospital administration, Bombay.

Surgical management of mitral restenosis and mitral reestenosis. Jt. Annual conf. of CSI & ACTSI, Srinagar Kashmir, 16-18th Oct. 1986.

Open Heart Surgery in Dextrocardia with associated anomalies. Jt. Annual conf. of CSI & ACTSI, Srinagar, 16-18th October 1986.

Microbiological study during open heart surgery. Jt. annual Conf. of CST & ACTSI, Srinagar, 16-18th October, 1986.

Pulmonary function before and after connective surgery for intracardiac left to right shunts. Jt. Annual conf. of CSI and ACTSI, Srinagar, 16-18th October, 1986.

Ultra structural study of myocardium in patients undergoing cardio pulmonary bypass. Jt. Annual conf. of CSI and ACTSI, Srinagar, 16-18th October 1986.

Studies on erythrocyte Natransport mechanism in patients undergoing CPS. Jt. Annual conf. of CSI and ACTSI, Srinagar, 16-18th October 1986.

Beside technique of estimating prothrombin time. Jt. Annual conf. of CSI & ACTSI, Srinagar, 16-18th October 1986.

Pulmonary stenosis with supersystemic RV pressure — surgical consideration Jt. Annual Conf. of CSI & ACTSI, Srinagar, 16-18th October 1986.

Open Heart surgery in patients with poor pulmonary function. Jt. Annual conf. of CSI & ACTSI, Srinagar Kashmir, 16-18th October 1986.

Long Term results of valve replacement. Jt. Annual conf, of CSI & ACTSI, Srinagar, 16-18th October 1986.

Surgical Anatomy of Mitral apparatus in rheumatic mitral stenoista Jt. Annual conf. of OSI & ACTSI, Srinagar, 16-18th October 1986.

Surgical management of sub-embular Ventricular Aneurysms. International conf. of Thoracic & Cardiovascular surgery, Beijing China, 28th October 1986.

Myocardial protection using Asanguineous and Sanguineous cardioplegia-Experience with over 4000 clinical cases. International Conf. on Thoracic & Cardiovascular surgery, Beijing, China, 28th October 1986.

Experience with low profile Bioprosthetic valve for Replacement of cardiac valves. International Conf. of Thoracic & Cardiovascular surgery, Beijing, China, 28th October 1986.

Open Mitral valvotomy — Surgical Techniques and follow-up in 1500 consecutive cases treated surgically. International Conf. of Thoracic and Cardiovascular Surgery. Beijing, China, 28th October 1986.

Oxygen consumption during Extracorporeal circulation at Normothermia, Hypothermia and Profund Hypothermia. International Conf. on Thoracic & Cardiovascular surgery. Beijing, China, 28th October 1986.

Management of Severe Infection — Seminar, Taj Mahal Hotel. December 21st, 1986, Bombay.

Co-Author — Text Book on Medical Therapeutics by Dr. G. S. Sainani et al, January 1986.

Better Medical Communication — Scientific Medical Writing Chairman of workshop, KEM Hospital, Bombay, 17th January 1987.

Art of treatment of coronary artery disease — 2nd International conf. of Surgery in the Tropics, 25th February 1987.

Surgically Management of Mitral stenosis-Experience of nearly 8000 surgically treated patients. "Col. Sangham Lal Memorial Oration delivered at NAMS, New Delhi, 8th August 1987.

Atherosclerosis — clinical Biochemical aspects : Indian for Atherosclerosis Research, 25th September 1987, Bombay. (GSMC).

"Surgery in high patients — Cardiovascular & Thoracic surgery : Gujarat State Chapter Association of Surgeons of India, September 1987.

Online impedance plethysmography for the diagnosis of deep vein thrombosis. Progress in Angiology (Edizioni Minerva Medica) June 1986.

Noninvasive assessment of distal arterial runoff using impedance Plathysmography. Progress in Angiology (Edizioni Minerva Medica) June 1986.

Assessment of pulmonary hypertension in patients with mitral stenosis using vector impedance cardiography. Progress in Angiology (Edizioni Minerva Medical) June, 1986.

Modified Technique of Aortic Root Widening for Narrow Aortic Root. Indian Heart Journal, Vol. 38, No. 3 May June 1986.

A Technique of Right Ventricular outflow Tract Patching with Autogenous Pericardium. The Annals of Thoracic Surgery Vol. 42, No. 1, July 1986.

Surgical Management of Sub-Annular Ventricular Aneurysms. Abstracted Volume of International Conf. of Thoracic and Cardiovascular Surgery. October 28th, China.

Oxygen consumption during Extracorporeal circulation at Nortothermia, Hypothermia and Profund Hypothermia, Conf. Volume, Int. Conf. of Thoracic and Cardiovascular surgery, October 28th, 1986.

Myocardial Protection using Asanhuineous and Sanguinaeous Cardioplegia Experience with over 4000 clinical cases. Conf. Volume of International Conf. of Thoracic and Cardiovascular surgery. October 28th, 1986, China.

Open mitral valvotomy-Surgical techniques and follow up in 1500 consecutive cases treated surgically. Conf. Volume. International Conf. of Thoracic & Cardiovascular surgery. October 28th, 1986, China.

Experience with low profile bioprosthetic valve for replacement of Cardiac valves. Conf. Volume, International Conference on Thoracic & Cardiovascular surgery, October 28th, 1986, China.

Surgical management of mitral restenosis and mitral re-restenosis. Abstract issue, Ind. Heart Journal, Vol. 38, No. 4, July August 1986.

Open heart surgery in Dextracardia with associated anomalies. Abstract Issue, Ind. Heart Journal. Vol. 38, No. 4, July August 1986.

Microbiological study during open heart surgery. Abstract issue, Ind. Heart Journal, Vol. 38, No. 4, July August 1986.

Pulmonary function before and after connective surgery for intracardiac left to right shunts. Abstract Issue, Ind. Heart Journal, Vol. 38, No. 4, July August 1986.

Ultra structural study of myocardium in patients undergoing cardio pulmonary bypass. Abstract issue. Ind. Heart. Journal Vol. 38, No. 4, July August 1986.

Studies on erythrocyte Na transport mechanism in patients undergoing CPS. Abstract issue. Ind. Heart Journal. Vol. 38, No. 4, July August 1986.

Besides technique of estimating prothrombin time. Abstract issue. Ind. Heart Journal, Vol. 38, No. 4, July August 1986.

Pulmonary stenosis with suprasystemic RV pressure. surgical consideration. Abstract issue. Ind. Heart Journal. Vol. 38, No. 4, July August 1986.

Open heart surgery in patients with poor pulmonary function. Abstract issue. Indian heart journal. Vol. 38, No. 4, July August 1986.

Long Term results of valve replacement. Abstract issue. Indian heart journal. Vol., 38, No. 4, July August 1986.

Surgical Anatomy of mitral apparatus in rheumatic mitral stenosis. Abstract issue. Indian Heart Journal. Vol. 38, No. 4, July August 1986.

Anomalous Origin of Left Pulmonary artery from Ascending Aorta. Indian Heart Journal, Vol. No. 5, September October 1986.

Effect of resectional lung surgery on Pulmonary function tests. Indian Journal of Surgery, Vol. 48, No. 12, December 1986.

Two dimensional echocardiographic Assessment of Mitral Valve Area and its correlation with surgical findings. Indian Heart Journal in press.

A double blind randomized phase III clinical trials of Buprenorphine and Pethidine in the Treatment of Post-operative Pain : Journal of Post-graduate Medicine, 33 : 18-23, 1987.

Penology of fallot with Total Anomalous venous drainage. A case report, Journal of Postgraduate Medicine 33 : 45-47, 1987.

Oxygen consumption and Acid Base changes during Cardiopulmonary bypass : Proceedings of the World Conference on Open Heart Surgery Shetty K. R., Parulkar G. B., Tata MC Graw Hill Publishing company Ltd., New Delhi 1987. Page 287-291.

Open Mitral Valvotomy — An experience of 1202 cases : Proceedings of the World Conference on Open Heart Surgery Shetty K. R., Parulkar G. B., Tata MC Graw Hill Publishing Co. Ltd., New Delhi, 1987, Page 388-393.

Experience with low profile Bioprosthetic valve for replacement of cardiac valves : Proceedings of the World Conference on Open Heart Surgery, Shetty K. R., Parulkar G. B. Tata MC Graw Hill Publishing company Ltd., New Delhi, 1987, Page 611-613.

Emergency valve replacement Indication and results : Proceedings of the World Conference on Open Heart Surgery, Shetty K. R., Parulkar G. B., Tata M. C. Graw Hill Publishing Co. Ltd., New Delhi, 1987 Page 798-799.

Left ventricular Aneurysms of unknown etiology : Proceedings of the World Conference on Open Heart Surgery, Shetty K. R. Delhi, 1987 Page 798-799.

Left Ventricular Aneurysms of unknown etiology : Proceedings of the World Conference on Open heart Surgery, Shetty K. R., Parulkar G. B., Tata MC Graw Hill Publishing company Ltd., New Delhi, 1987, Page 858-864.

**Surgical Management of left atrial Myxoma : Proceedings of the World Conference on Open Heart Surgery, Shetty K. R., Parulakr G. B., Tata MC Graw Hill Publishing Co. Ltd., New Delhi, 1987.**

**Study in the changes in Coagulation profile occuring during and after open Heart Operation : Proceedings of the Conference on Open Heart Surgery, Shetty K. R., Parulkar G. B., Tata MC Graw Hill Publishing company Ltd., New Delhi, 1987.**

**Modified technique of aortic root widening for narrow aortic root. Indian Heart Journal, 1986, Vol. 38, No. 3, Pg. No. 202.**

**Two diamensional Echocardiographic assessment of Mitral valve Area and its Correlation with surgical findings. Indian Heart Journal Vol. 38, No. 6, 1986. (Nov.-Dec. 1986).**

**August 17, 1986. Invited to delivered a lecture on "Recent Advances in Immunisation". Part I of leature deliyered at Wadia Hospital, Part ii & III at MLT & Seminar Hall. Subject : NEWER VACCINES.**

#### **Dr. M. D. SHAH — ACADEMIC PARTICIPATION :**

- 1) Was invited by Solapur branch of IMA on 26th January 1986 for a lecture on office management of bronchial asthma in children.
- 2) Attended interanational paediatric conference at Honolulu and was invited to aprticipate in a symposium on Acute respiratory failure in infants and children. Subject of talk management of acute respiratory failure in developing countries.
- 3) No. 1986 — IAP conference — Delhi. Paper presented on TB bronchiectasis in children.

#### **DR. M. K. JAIN :**

- 1) Wirriten chapter 16 : Pancreatic function in malnutrition and chapter 4 : Jejunal microflora in the book "Chronic diarrhoea and malnutrition".
- 2) Attended the following conferences :  
Perinatology conference, endocrinology workshop and workshop on malnutritiona. (Nair).

#### **Clinical Meeting at K. E. M. Hospital : Case presentations in 1986.**

- 1) January 1986 — Trichobezoar.
- 2) February 1986 — RTA.
- 3) March 1986 — Purpura fulminans following chickenpox.
- 4) March 1986 — Purpura fulminans following chickenpox.
- 4) July 1986 — Multiple intrauterine infections.
- 5) September 1986 — Intervenous DSA a new diagnostic technique.
- 6) October 1986 — Glanzmann's Thrombasthenia.
- 7) November 1986 — Wilsons an interesting case.
- 8) December 1986 — PUO with pleural effusion.

#### **Dr. J. R. Kamat**

##### **National Conference :**

- 1) Lipid profile in nephrotic syndrome.
- 2) CRP in neonatal infections.

**Conferences attended :**

- 1) XXIII National conference — LAP, N. Delhi. 14th — 16th November 1986.
- 2) National Nephrology update AIIMS 17th — 18th November 1986.
- 3) Paediatrics update Bombay 20 — 21st December 1986.

**A P P E N D I X — I X****DEPARTMENT OF BIOCHEMISTRY & NUTRITION****Research Projects :**

- 1) Biochemical studies in Diabetes Mellitus and effect of treatment of certain medicinal plants.
- 2) Salt consumption pattern in different parts of India.
- 3) Analysis of CSF proteins by isoelectric focussing in various neurological disorders.
- 4) Biochemical studies of biogenic amines in mental retardation.
- 5) The minimum effective dose of tetanus immunoglobulin (TIG).
- 6) Circadian rhythm of certain hormones in normals and post operative cases.
- 7) Dietary fat immunological response.
- 8) Protein profile in tetanus.
- 9) Ontogeny of brain peptides in rats and humans.
- 10) Biochemical studies in experimental inflammatory condition.
- 11) Influence of certain dietary factors on cholesterol metabolism.

**DEPARTMENT OF PSYCHIATRY;****Research Projects in Dr. D. R. Doongaji's Unit :**

- 1) Cross-cultural study of relationship between tropical disease and mental disorder.
- 2) Study of immunoglobulins in mental disorders.
- 3) An open clinical study of Sulpiride in acute schizophrenia.
- 4) Penfluridol Vs Fluphenazine Decanoate : A double - blind controlled clinical study in chronic schizophrenia.
- 5) Centibutindole Vs Trifluoperazine. A double - blind controlled clinical study in acute schizophrenic patients.
- 6) A neuropsychiatric study of organic brain disorders.
- 7) Liaison Psychiatry : Psychiatric referrals in a gen. hospital.
- 8) Phenomenology of substance abuse, study of withdrawal (Alcohol) and Opiates).

**DEPARTMENT OF PATHOLOGY :****Research work being carried out by Dr. A. P. Desai :**

- 1) Working on Immunohistochemical study of human glioma neoplasm.
- 2) Ultrastructural study of pituitary adenoma.

**Research work being carried out by Dr. I. M. Vora :****Collaborative study with clinicians :—**

- 1) Experimental work on pathology of tuberculosis in Dog & Guinea pig models.
- 2) Type of wound-healing in experimental dogs with and without inclusion of the peritoneum while suturing.
- 3) An experimental work on use of indigenous knitted nylon mesh to repair large abdominal defects.
- 4) Evaluation of 3% phenol as a Sclerosant-experimental work on dog-veins.
- 5) Histochemical study of different lesions of gastrointestinal tract.

**Research work being carried out by DR. S. Y. Sane.**

- 1) Cytology and cytochemistry of pediatric tumors.
- 2) Immunohistochemical diagnosis of Toxoplasmosis in tissues.
- 3) Study of Langerhans cell disorders.

**Research work by Dr. A. A. Pandit.**

- 1) Detection of chlamydia trachomatis by immunofluorescent technique.

**DEPARTMENT OF PHARMACOLOGY :****Research projects Undertaken :**

- 1) Experimental evaluation of traditional remedies used for viral hepatitis.
- 2) Comparative bio-availability of Inderal and Ciplar.
- 3) Phase I study of cholera vaccine.
- 4) Phase I and pharmacokinetics study of Fansimef.
- 5) Centropazine — Phase II study.
- 6) Long-term study of gugulipid - a hypolipidemic agent.
- 7) Neuropharmacological and neuropathological study of MJCP 816 in animals.
- 8) Tolerability study of cough syrup containing plant products in normal volunteers.
- 9) Efficacy testing of cough syrup containing plant products in patients.
- 10) Sulfadoxine 'half-life' in normal healthy volunteers.
- 11) Drug metabolism and drug interaction study of sulfadoxine and chloroquine.
- 12) Effect of different doses of aspirin on platelet aggregation.
- 13) Effect of aspirin on platelet aggregation in normal volunteers and patients suffering from iron deficiency anemia (IDA).

- 14) Experimental studies on diabetes mellitus — Evaluation of hypoglycemic activity of—
  - (1) *Pterocarpus marsupium*.
  - (2) *Suzygium cumini*.
  - (3) *Tinospora cordifolia*.
- 15) Effect of indomethacin on blood flow and peripheral resistance in iron deficiency anaemia.
- 16) Comparison of conventional and slow release Nifedipine in hypertensive patients.
- 17) Evaluation of hypoglycaemic activity of 'Phaki' a powder containing mixture of indigenous plants.
- 18) Anti-inflammatory activity of *Acorus calamus*, *ocimum sanctum* and *Ocimum basilicum*.
- 19) Anti-ulcer activity of coconut oil and alcoholic extract of *acorus calamus* in rats.
- 20) NSAID and antihypertensive agents interaction in hypertensive patients.
- 21) Studies on nonulcer dyspepsia.
- 22) Effect of different blocking agents on acid secretion in normal volunteers.
- 23) Bioavailability studies :
  - (a) Erythromycin.
  - (b) Theophylline.
  - (c) Sulfa-trimethoprim.
  - (d) Amoxicillin.
  - (e) Ampicillin.
- 24) Effects of noxious agents and protective drugs on gastric mucosa.
- 25) Study of cytoprotective effects of some plants.
- 26) Study of the efficacy of *Tinospora cordifolia* against liver damage, induced by galactosamine.
- 27) Study of Immunomodulating effects of some Indian medicinal plants.
- 28) Study of effect of chymotrypsin and selected indigenous plants on peritoneal adhesions.
- 29) Establishment of rapid screening models in mice for immunomodulating plants.
- 30) Study of effect of Nifedipine and magnesium sulfate on platelet aggregation.
- 31) Study of clinical efficacy of *piper longum* in children.
- 32) Study of acute oral tolerability of misoprostol in adult human volunteers.
- 33) Study of the efficacy of I. M. formulation of lorazepam in healthy human subjects.
- 34) Study of PMN & Macrophage functions in patients with infections.
- 35) Antipruritic test to estimate metabolic capacity of the liver in patients with chronic capacity of the liver in patients with chronic obstructive jaundice.

#### Research Projects on C. D. R. I. compounds.

- 1) Phase I trial to study the safety of cholera vaccine and to determine antibody titres.
- 2) Phase I and kinetic study of a combination of Mefloquine (250 mg.), Pyrimethamine (25 mg.) and sulfadoxine (500 mg.).
- 3) Effect of liquid antacid, milk and placebo on symptoms acid output, endoscopy, histology in non-ulcer dyspepsia.
- 4) Effect of posture on urinary volume, electrolyte content and creatinine clearance in hypoalbuminemic fluid retaining states.

## APPENDIX - X :

List of Operations performed in the Cardio Vascular and Thoracic Operation Theatre :—

1) Cerebral Bypass Graft	13
2) CABG with AVR	2
3) Arch Aneurysm	6
4) Triple Valve Replacement	1
5) Total Correction of TOP	47
6) Repair of TAPVC	1
7) Repair of L. V. Aneurysm	1
8) TVR for Ebstein's anomaly	1
9) Repair of complex cong. heart	2
10) O. M. V.	158
11) OMC + OTV	4
12) OMV + AVR	22
13) OMV for ReMS	15
14) MVR	110
15) MVR + OTV	2
16) MVR + AVR	22
17) MVR for ReMS	9
18) MM. V. Reconstruction	2
19) AVR	30
20) Pulm. Valvotomy.	6
21) Closure of ASD	98
22) Closure of ASD + Pulm Valvotomy	6
23) Closure of ASD + VSD	1
24) Closure of VSD	29
25) Closure of ASD + Pulm. Valvotomy	8
26) VSD Closure + AVR	1
27) Repair of Puncture Sinus of Valsalva	3
28) Repair of RSOV with AVR	1
29) Closure of VSD and PDA	1
30) Closure of ASD with OMV	1
31) Closure of ASD with MVR	1
Total open hearts	604
1) Renal artery by pass grafting	1
2) Abdominal aortic aneurysm	1
3) Arterio-femoral by pass	5
4) Arterio-venous fistula construction	42
5) Femoral embolectomy	52
6) Aorto-aortic by pass	4
7) Femoro-popliteal by pass	10
8) Repair of axillary artery aneurysm	1
9) Patch aortoplasty for coarct	6
Total vascular operations	132
1) Closed Mitral Valvotomy	180
2) Division/Ligation of PDA	45
3) Pulmonary plication	5
4) Pericardectomy	13
5) Pericardial drainage	3
6) B T Shunt	28
7) Pacemaker implant	7
Total closed hearts	281
1) Cervical sympathectomy	4
2) Lumber sympathectomy	1
3) Excision of Mediastinal Mass	6
Total Miscellaneous	11
1) Open lung biopsy	9
2) Thymectomy	1
3) Pneumonectomy	9
4) Lobectomy	27
Total lung operations	46
Total :	



## APPENDIX - XI

Sr. No.	Description of Activity.	Unit of O.P.D.	Measurement Indoor.	Actual 1985-86 patients.	Budget Estimates 1986-87 Patients.	Revised Budget Estimates 1986-87 Patients.	Budget Estimates 1987-88 Patients.
1	2	3	4	5	6	7	8
1.	Medical.	44	116	47,706	50,000	48,171	53,000
2.	Surgical.	32	79	33,117	35,000	33,483	36,000
3.	Obst. & Gynase.	30	47	22,334	26,000	24,497	30,000
4.	Paediatric Med. & Surg.	19	34	16,256	17,5000	16,367	19,000
5.	Premature Baby Ward	—	1	341	500	448	550
6.	Radiology.		350	1,06,578	1,25,000	1,09,525	1,26,000
7.	Path & Boct.		360	1,09,823	1,15,000	1,10,824	1,16,500
8.	Casualty.		213	77,474	86,000	83,429	87,500
9.	E. N. T.	7	56	19,270	21,000	18,737	22,000
10.	Orthopaedic.	13	101	33,020	36,000	36,716	38,400
11.	Ophthalmic.	8	55	18,924	19,000	17,553	20,500
12.	Skin Enterology.	1	91	18,528	20,000	18,744	21,500
13.	Gastre Enterology.	4	8	1,112	1,500	1,168	1,600
14.	Neurology	5	22	2,688	3,000	2,774	3,500
15.	Urology.	12	21	1,677	1,800	1,586	1,900
16.	Blood Bank (Denors)	—	68	20,737	25,000	21,840	26,500
17.	Speech Department.						
18.	Psychiatric.	1	21	8,506	10,000	9,441	11,500
19.	Biochemistry Deptt.	—	315	95,386	1,10,000	96,586	1,15,000
20.	Pharmacy Deptt. (OPD & .		1230	3,75,199	3,90,000	3,78,430	3,95,000
21.	Dental Clinic.	—	27	8,240	12,000	8,187	12,500
22.	Neure Surgery.	2	8	3,019	4,000	2,767	4,500
23.	Plastic Surgery.	11	12	1,171	2,000	1,387	2,300
24.	Thoracic Surg.	5	16	4,186	4,500	3,722	4,600
25.	Cardiology.	6	19	4,881	6,500	5,671	7,500
26.	Asthema.						
27.	Disbetic.						
28.	Haemattology.	3	—	254	500	142	500
29.	Div. of End. & Metb Disorder.	1	10	2,567	3,000	3,060	4,500
30.	A. K. B.						
31.	Dispensary.	—	—	1	500	—	—
32.	Epilepsy Clinic.	—	27	1,361	2,000	1,812	3,000
33.	Chest Clinic.	8	23	3,064	3,500	2,895	3,900
34.	Arthritis Clinic.	—	9	433	600	388	650
35.	Vasoular Clinic.						
36.	Immunisation centre.	—	14	2,195	3,000	2,278	3,500
37.	Observation of T. B. Cases.						
38.	Audilogy Department.						
39.	Occupational Therapy.	—	84	25,607	30,000	26,845	31,000
40.	Physio Therapy.	—	63	19,066	20,000	19,430	21,500
41.	Sports Clinic.	—	12	599	650	638	750
42.	Drug Trial.	1	—	166	400	149	450
43.	Deg Rite.	—	24	7,226	10,000	6,142	10,500
44.	Sexology.	—	9	466	600	475	650

## Statement showing the operations performed in this hospital during the year 1986.

Sr. No.	Name of the Theatre	Total No. of Operations	
		Major.	Minor.
1.	J. M. T.	1542	1437
2.	E. M. O. T.	765	4633
3.	Minor Surgery.	129	12686
4.	Plastic Surgery.	651	424
5.	E. N. T.	1475	830
6.	Neure Surgery.	759	270
7.	Ophthalmic.	1931	840
8.	O. B. O. T.	1964	1589
9.	Gynaec.	921	129
10.	Urology.	620	3214
11.	A. K. D.	2247	647
12.	R. O. C. O. T.	1177	796
13.	E. O. C. O. T.	1353	2908
14.	C. V. T. C.	1003	82
15.	Paed. O. T.	1238	2852

## Statement showing the names of O. P. D.s conducted at this hospital the year 1986.

Sr. No.	Name of the O. P. D.	Sr. No.	Name of the O. P. D.
1.	Medical.	33.	Tumour Clinic.
2.	Surgical.	34.	Sexual Medicine.
3.	Ophthalmic.	35.	Anti-Rabic Clinic.
4.	Gynaec.	36.	Hemophilia.
5.	Obst.	37.	Leukemia.
6.	Dental.	38.	Thalasemia.
7.	Skin.	39.	Cardio-vascular & Thoracic Surgery.
8.	Aural.	40.	Cardio-vascular Follow-up O. P. D.
9.	Orthopaedic. (New Patients).	41.	Cardiology.
10.	Orthopaedic (Old Patients).	42.	Congenital Heart Disease.
11.	Psychiatric.	43.	Tuberculosis & Respiratory Disease Clinic.
12.	Neuro Surgery.	44.	Pneumoconiosis Clinic.
13.	Neurology.	45.	Sports Clinic.
14.	Epilepsy.	46.	Arthritis Clinic.
15.	Paed. Medical.	47.	Anaesthesia.
16.	Paed. Chest Clinic.	48.	Pain Clinic.
17.	Paed. G.-I. Clinic.	49.	Accupunture Clinic.
18.	Paed. Rheumatology.	50.	Fire Bridge Clinic.
19.	Paed. Nephrology.	51.	School Clinic.
20.	Genetic Clinic.	52.	Hansen's Clinic. (Leprosy Clinic).
21.	Paed. Surgery.	53.	Deaddiction Clinic.
22.	Diabetic Clinic.	54.	Anorectal Clinic.
23.	Endocrinology.	55.	S. T. D. Clinic.
24.	Well Baby Clinic.	56.	SID'S Clinic.
25.	Plastic Surgery.	57.	Spine Clinic.
26.	Renal Clinic (Nephrology).	58.	Paed. Urology Clinic.
27.	Geriatric Clinic.	59.	Arthrology Clinic.
28.	G. I. C.	60.	Integrated Medicine. Clinic.
29.	Urology Clinic.	61.	Neonotology Clinic.
30.	Andrology Clinic.	62.	Renal Transplant Clinic.
31.	Urinary Stone Clinic.	63.	Renal Diabetic.
32.	Puberty & Growth Clinic.		

# BAI YAMUNABAI L. NAIR CHARITABLE HOSPITAL AND TOPIWALA NATIONAL MEDICAL COLLEGE.

**HIGH LIGHT :****Hospitals :—**

1. Total expenditure including liabilities.	Rs. 6,32,47,110.00
2. Donations received.	Rs. 3,84,743.20
3. Amount collected from boxes.	Rs. 37,028.20

**Indoor Patients :—**

Beds ...870.	In-patients	37357
Daily average number of patients.		914.05
Highest number of admission on a single day.		174
Highest number of Inpatients on a single day.		1048
Number of patients discharged during the year including 909 brought from the previous year.		35461
Cured.		18253
Otherwise.		17208
Average stay of patient.		8.93 days
Average cost per in-patient.		Rs. 85.53
Average cost per out-patient.		Rs. 19.20

**Deaths :-**

Within 24 hours of admission.	609
After 24 hours but within 72 hours of admission.	273
Exceeding 3 days.	1110
<b>Total</b>	1992

**Operations :-**

Indoor patients.	15442
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**Autopsies :-**

Post mortem done.	994
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**Deliveries :-**

1. Confinements.	3237
2. Deliveries.	2648
3. Maternal deaths.	8
4. Medical Termination of pregnancy.	672
5. Sterilization (Female).	447
6. Sterilization (Male).	31
7. Baby deaths : Full term.	35
Premature.	87
8. Baby still births : Full term.	20
Premature.	24

**Out Patient Department :-**

1. O. P. D. New Attendance.	1,88,835
2. O. P. D. Old Attendance.	7,62,619
3. Daily average O. P. D. new attendance.	615.10
4. Casualty attendance.	20,082
5. Daily O. P. D. attendance (Old + New).	9,51,454.00
6. Highest No. of attendance on a single day.	3,409

**Court Cases Attended by R. M. Os. :-**

1. Presidency Magistrate's Court.	632
2. Sessions Court.	151
3. Motor Accident Tribunal.	97

**Paying Bed Scheme :-**

The paying bed scheme has started functioning from 18th July 1977 in the side section of Ward 17 for female patients and Ward 20 and 21 for male patients. 295 patients had taken the advantage of the paying beds during the year 1986.

**Intensive Paediatric Care Unit :-**

An Intensive Paediatric Care Unit started functioning from 1st August 1977 in a special and separate section of the Paediatric Ward. The Intensive Paediatric Care Unit admit actually ill children in need of continuous observation. It is equipped with all the monitoring and resuscitative equipment.

A Registrar and a Staff Nurse are posted for round the clock duty. Mortality rate has been declining after the commissioning of the specialised unit. During the year 1986, 221 children were admitted in the unit.

**Medical Acute Care Unit :-**

The department of Medicine established a separate Medical Acute Care Unit with 12 beds which started functioning from March 1978 onwards. These beds are housed in a single ward with pooled in equipment which include Respirators, E. C. G. Machine, X-ray unit etc. All the critically sick patients are isolated in this section and observed under the supervision of trained staff. Medical and Nursing, Round the clock service is provided with post-graduate qualified doctors in attendance. 815 patients were treated in this section.

**B. Y. L. NAIR CHARITABLE HOSPITAL  
AND  
TOPIWALA NATIONAL MEDICAL COLLEGE.  
BOMBAY — 400 008.**

**Administrative Staff :-****Dean :**

D. Pragna M. Pai, M. D., D. Ch.

**Assistant Dean :**

Dr. P. G. Hiranandani, M. B. B. S., M.R. S. H. (Eng.), F.I.C.A., (U.S.A.).

**Sr. Assistant Medical Officer :**

Dr. N. Dixit, M. D.

**SCOPE OF ACTIVITIES :**

The hospital has been progressively expanding to include various new specialities. Apart from the well established department of General Medicine, General Surgery, Obstetrics and Gynaecology, Psychiatry, Paediatrics, Anaesthesiology, E. N. T., Orthopaedic, Radiology, Tuberculosis, Ophthalmology, Dermatology and Venereology, there are also the Specialised departments of Cardiology, Cardio-Thoracic Surgery, Neuro-surgery, Plastic Surgery, Genito-Urinary Surgery, Nephrology, Gastroenterology (Medical & Surgical), Haematology, Endocrinology, Rheumatology and Collagen Disease, Neo-natology, Paediatric Surgery, Head and Neck Surgery and the department of Neurosciences which is approved by W. H. O. for research and training in stroke and tropical diseases. Besides this, special out-patient clinics are being conducted in the hospital, namely Thyroid, Renal, Diabetes, Premature and New Born Care, Hypertension, Asthma, Abortion, High Risk Pregnancy, Sterility, Glaucoma and Squints, Anaesthesia Assessment and A School Clinic.

Special units for hospitalised patients have been developed like Intensive Care Units (Medical and Surgical for Cardiac Patients) and Medical Acute Care Unit. Also there is Intensive Paediatric Care Unit (I. P. C. U.). There is a special family Planning Centre, and a most modern Speech Therapy and Audiology Clinic and department which is also a training school affiliated to the University of Bombay and probably the only one of its kind in India. There are also well established departments of Pharmacy, Physiotherapy, Occupational Therapy, Social Service and Medical Records.

The hospital has an immunization centre and growth and development clinic established by the Department of Preventive and Social Medicine. This department also carries out several Health educational programme in the community and have developed several audio-visuals and sound slide shows on various aspects of health which are regularly screened in the slums of the city.

The hospital has an eye bank and full equipped Blood Bank which functions on voluntary donations of blood by relatives of patients and members of the public.

#### **ANATOMY DEPARTMENT :**

The activities include (1) introduction of new pattern of dissection programme for undergraduate study. (2) Research in Histochemistry projects with the help of Dr. E. J. DeSouza, Professor Emeritus. (3) Setting up a laboratory for work in "Clinical Genetics" which is under processing.

#### **DEPARTMENT OF MICROBIOLOGY :**

**Developmental Activities :—** The department has been making efforts to initiate a full-scale Immunology Laboratory and the preparations are still under way.

**Hot news :—** A news display covering current topics of interest in Microbiology and allied fields has been introduced, both for the benefit of undergraduate as well as for Post Graduate students. It has been and to be exceedingly popular. The displays consists of a type — written text, eye catching pictures, illustrations, charts and sometimes even culture plates and biochemical tests.

#### **ENDOCRINOLOGY DEPARTMENT :**

An animal house has been set up for breeding rats and mice that are used for biological testing and suppliers to other departments for research and experimental studies.

The department has received a Grant of Rs. 2,00,000/- from the I. C. M. R. for a collaborative study on Phase I Clinical trials with B—HCG vaccine and tis conjugates in 1986.

#### **DEPARTMENT OF ANAESTHESIOLOGY :**

The Department of Anaesthesiology is providing anaesthesia services to all Surgical Specialities, Obstetric & Gynaecology, Ophthalmology, Psychiatry, Radiology, Cardiology, Medical Acute Care, Paediatric Acute Care, Surgical Intensive Care, Preoperative /assessment; Pain Clinic and Anaesthesia service to the Nair Dental College. The Department also provides pulmonary function tests to Surgical Cases. The recovery ward has an admission rate of 24 cases a day approximately.

Dr. V. M. Divekar, Prof. and Head of the Department attended the 7th Asian Australian Congress of Anaesthesiologists at Hongkong, in September 1986. She was invited as Chairman for the session on Biochemical Aspects. Presented a paper on 'Serum cholinesterase in Infective hepatitis' and Satellite symposium in Beijing China on "Anaesthesia in Temporomandibular Ankylosis".

The department is running a Pain Clinic, Pulmonary Function Laboratory, Laboratory attached to the theatre, Ventilator and machine testing laboratory. There is provision for drug evaluation pharmacokinetics.

#### **DEPARTMENT OF CARDIOLOGY :**

A major achievement is the introduction of 'Balloon dilatation techniques' for treating patients with Valvar Pulmonary Stenosis, Valvar Aortic Stenosis, Coarctation of Aorta and renal artery stenosis. Around 25 patients have been treated by this nonoperative techniques and the preliminary results are very encouraging.

Under the auspices of Nair Golden Jubilee Research foundation, first 'Dr. L. H. Hiranandani' oration was delivered by Professor Kanu Chatterjee, Chief, Cardiovascular division, H. C. Moffitt Hospital, Cardiovascular research institute, University of California, California, U. S. A. on "Vasodilator therapy in congestive cardiac failure" on February 2, 1987.

#### **E. N. T. DEPARTMENT :**

Under the auspices of Nair Golden Jubilee Research Foundation, Department of E. N. T. and Head and Neck Surgery arranged and organised a number of courses, and seminars during the year 1986—like clinical approach in 'Giddiness', Awareness of speech and hearing disorders', 'Microsurgery of ear course', cosmetic surgery of nose.

Dr. A. G. Pusalkar, Prof. and Head was invited by the University of Tubingen, West Germany to participate in the International conference on "Recent advances in Otolaryngology" held from 21-1-1987 to 24-1-1987. He was one and only member invited from Asia for the said conference. Dr. Pusalkar presented the paper on "Our concept of management of Carcinoma of alveolous."

Recently this department has purchased Zeiss Operating Microscope 6 S3B SDFC with ceiling mount for microvascular reconstructive procedures in Head and Neck Surgery and Otoneurosurgery.

#### **DEPARTMENT OF PLASTIC SURGERY :**

Dr. Kalpesh Gajiwala of department — awarded "Best paper Prize for Residents" at XXI National Conference.

Dr. S. M. Mahaluxmivala, Prof. & Head of Dept. was invited to deliver "Sir Harold Gilles Memorial Oration" at XXI National Conference by Association of Plastic Surgeons of India.

Dr. Narendra Pandya appointed Honorary Surgeon to President of India.

Microvascular Surgery both experimental and research projects and clinical application started in the Unit.

#### **DEPARTMENT OF PSYCHIATRY :**

The paper 'Group Psychotherapy in parents of M. R. Children' won 1st prize in competition held by Bombay Psychiatric Society.

Three papers were read in Annual West Zone Conference held at Ratnagiri. One of the papers won presidential award for best paper.

#### **DEPARTMENT OF OPHTHALMOLOGY :**

Mobile Ophthalmic van revived and inaugurated on 7th April 1986 under the auspices of W. H. O. day celebration of T. N. M. C. & B. Y. L. Nair Hospital.

Laser machine was inaugurated on 15th August 1986.

Dr. A. R. Patel, Hon. Asstt. Ophthalmologist was on study tour to U. S. A. in May and June 1986 and attended a number of seminars in various hospitals.

#### **OCCUPATIONAL THERAPY DEPARTMENT :**

Occupational Therapy Department of this college and hospital is under expansion where several sections like Day Care Unit cum Sheltered Workshop, Splinting Section, Printing Unit have been functioning and expanding alongwith regular treatment of Occupational Therapy in various fields of Medicine to the benefits of Indoor and Outdoor patients of this institution.

Department of Occupational Therapy of this Institution is recognised for postgraduates course in the subject by University of Bombay therefore postgraduate students have been registered under the guidance of Shri A. S. Khullodkar who is Head of the Occupational Therapy Department as recognised postgraduate teacher by University of Bombay.

#### **PHYSIOTHERAPY DEPARTMENT :**

Physiotherapy Department is an important section of the hospital as Physiotherapy helps in rehabilitation of the patient.

Recently this department have started electro diagnostic section and Respiratory Volume Tests.

#### **DEPARTMENT OF PREVENTIVE & SOCIAL MEDICINE :**

The department organised 3 immunisation camps involving the undergraduate medical students for the slum communities at M. P. Mill Compound, Tulsi Wadi and Cheeta Camp. Students were involved in motivating the people for immunisation as well as in administering the vaccines.

The department organised 2 diagnostic camps at Nagpada and Tardeo alongwith the Public Health Department of Bombay Municipal Corporation.

Members of the staff participated in the MPWS training programme organised by the Public Health Department.

In collaboration with PRIDE India, the department participated in the training programme of Bal Sevikas at Mahad.

Department participated in the 'Bombay fights disability programme organised by IMPACT, Public Health Department and Bombay University.

Staff members participated in training programme for N. S. S. Students at University Club House on 'Immunisation'.

World Health Day was celebrated on 7th April 1986 by organising a Health Exhibition at Cheeta Camp Urban Health Centre.

**DEPARTMENT OF RESPIRATORY DISEASES :**

This department has been selected by The Tuberculosis Association of India from all over India for carrying out study on effectiveness of B. C. G. Vaccination using case control method. Also other study like cervical lymphadenitis, including lymph node culture study, Short-term Chemotherapy trial involving the use of RIF + INH + PZA in sterilisation phase and INH + Thincetazone in the continuation phase, Fate of refusal for surgery for pulmonary tuberculosis and Prevelence of diabetes among pulmonary tuberculosis patients, is carried out.

**RADIOLOGY DEPARTMENT :**

'Ultrasonographic study of Placenta' — an ICMR project is in progress in collaboration with Obst. & Gynaec. Department Dr. A. G. Naik, Prof. & Head of Radiology being the Chief investigator.

Till the end of 1986, Dr. G. R. Jankharia, Hon. Radiologist was the Chairman of Indian College of Radiology — on All India body and he was actively involved in teaching programme of Radiology.

**GYNAEC. & OBST. DEPARTMENT :**

Dr. (Mrs.) R. N. Merchant, Hon. Gynaecologist visited Nanjing, China in response to an invitation sponsorship from Hiangsu Planning Institute to familiarise from with her own invention — Merchant's Cooper Coil, an IUD — June 1986.

Dr. (Mrs.) R. N. Merchant visited and participated in discussions on innovations as regards MCC at Research Triangle Park, North Carolina, USA in response to an invitation from Family Health International (FHI), USA, July 1986.

Out reach activities started from 1st February 1987 at Deonar and Chita Camp for motivation for Family Planning, Film show and Health Talk.

**EXPANSION PROGRAMME :**

Due to repair of the Annexe Building the following wards are shifted to the Hospitals as indicated :—

Orthopaedic Male and Female Ward	:	Kasturba Hospital.
Gynaec. and Obst. Wards.	:	Kamathipura Maternity Home. Now renamed as Extension, B. Y. L. Nair Hospital, Gynaec. and Obst. Department, Kamathipura.
Skin and Ophthalmic Wards.	:	Dr. Bhajekar Hospital.
T. B. Ward.	:	T. B. Hospital, Sewri.

The new hospital complex of Ground + 2 floors will accommodate all the regular and Specialised Out Patients Departments and clinics, Registration, Dispensary and Casualty.

I.C.C.U. alongwith Cardiac Cath. Unit, Minor Operation Theatre with Observation Ward, will also be shifted to this new complex.

X-ray Units which will cater to the O. P. D. requirements will also be made available.

Pharmacy Department and Blood Bank will also be shifted.

The places thus vacated will be suitably utilised.

## CHARGING OF FEES TO O. P. D. AND INDOOR PATIENTS AT THE MUNICIPAL HOSPITAL :

The Standing Committee under item No. 1733 of 2-3-1982 has approved M.C.'s proposal for levy of a taken fee for O. P. D. and Indoor patients attending Municipal General Hospitals. As per C. A.'s circular No. UA/RG/95 of 2-3-1982 this scheme has been implemented from 1-4-1982. The staff at the Registration Counter received Rs. 2/- per O. P. D. case papers from the patients coming for treatment in O. P. D. O. P. D. case paper would be valid for 15 days only. After 15 days the patient has to pay Rs. 2/- for renewing the case paper.

As regards Indoor patients an admission fee of Rs. 5/- is to be collected at the time of admitting the patient. Each paper is valid for 10 days only. If however the doctor attending on the patient, advises that the patient is required to be kept in the hospital beyond 10 days and the Dean, Assistant Dean or A. M. O. of the hospital on considering the advise prescribed such a stay beyond 10 days the same old form will be continued beyond 10 days and no additional fees would be levied. In the absence of such certificate from the doctor attending on the patient, a fee of Rs. 5/- per day of stay in the hospital beyond 10 days is levied and recovered.

A charge of Rs. 400/- is made for C. T. Scans for inpatients referred from Municipal Hospital. Outpatients from the Municipal Hospitals and patients referred from elsewhere are charged Rs. 750/- for the scan preference being given to patients from the Municipal hospitals. Free scans are carried out on employees of the Bombay Municipal Corporation only and not their immediate dependent.

An amount of Rs. 300/- is charged for 2-D Echo investigations.

### PAYING SCHEME :

The charges of Rs. 12/- per patient per day for paying beds (Side Room) have been increased to Rs. 30/- per patient per day. Similarly, charges of Rs. 6/- per patient per day in paying wards at Sion and other hospitals have been increased to Rs. 15/- per patient per day. Besides, these patients are also being charged at Rs. 60/- for minor operation and Rs. 120/- for major operation. They are also liable to pay Rs. 10/- per X-ray investigation and Rs. 10/- for Pathological/Bacteriological BMR test and for E. C. G. OR Encephalogram. These fees are to be paid in the offices of the hospitals as at present.

The Municipal employees and their nearest dependent family members are to be given treatment free of above levies for case paper etc. The Municipal Employees, however, will have to produce his identity card or a proof from the head of the department about his employment in municipal service.

### 1. DEPARTMENT OF MEDICINE :

The Medicine Department has 3 full time and 3 part time part-time units which participate in U. G. and P. G. training/teaching programme. There are 2 full time and 3 Hon. Prof. of Medicine, one post of F. T. Professor being vacant. There are 5 F. T. Readers, 2 Hon. Asso. Professors and 3 Hon. Asstt. Professors of Medicine. There are thirteen lecturers, 3 for general medicine, 5 for M.A.C.U. and five for specialities attached to the Medicine Department. The members of the staff also participate in the teaching of Dental, O. T., P. T., Nursing and Speech therapy students.

The patient care includes one Out-patient Department per unit with one emergency admission day and inpatient services. The specialities associated with Medicine Department are Rheumatology, Diabetes, Asthma, Hypertension, Haematology and Nephrology. In addition, Dr. D. V. Deshpande is associated with thyroid clinic and attached to Kasturba Hospital for infectious diseases. The specialities run their own Out-patient Department services alongwith inpatient facilities.

Medical Acute Care Unit is a special area created in Medicine Department where all seriously ill but potentially salvageable patients are admitted. The unit is managed by a senior member of staff (Prof. Asso., Prof. or Asstt. Prof.), 2 lecturers, 2 Registrars and 2 house physicians. The cycles for this are on a monthly basis. On an average 60-70 cases are treated per month.

The department has an attached laboratory headed by Sr. Biochemist, Dr. D. S. Salgaonkar. The laboratory is well equipped. It caters to the speciality investigations in the field of Rheumatology, Immunology, Diabetes, Nephrology, Hypertension and Asthma. There are plans to increase areas of activity.

The U. G. teaching programme consists of 80 well selected subjects 70 tutorial topics, alongwith table-work and ward clinics, Regular ward examinations are held. The results of U. G. at final M. B. B. S. are good.

P. G. training consists of regular P. G. bed-side clinics, lectures, guest lectures, seminars, clinical meeting and C. P. O. Out students have been performing very well at the university examinations. The members of the staff are active members of API and various speciality associations. Some are associated with the Journals published by the association, Most have contributed to text-books of medicine or have written books for students. Members are also actively participating in the conferences both national, international and also attend conferences in outside countries.



**2. DEPARTMENT OF SURGERY :**

Department of Surgery consists of 3 full time and 3 part time units.

**ZINACEF IN MANAGEMENT AND PROPHYLAXIS OF SURGICAL INFECTION :**

A study was done in this context. Zincef is a third generation cephalosporine, using this relatively new drug. It was proved that, Zinecef is definitely of value in the prevention of and management of Surgical infection. Total No. of cases studied — 20.

There were no significant and adverse effects to the use of the drug.

**BANDING OF PILES :**

A study is being conducted in this context comparing the time of surgery, duration of post-operative stay in the hospital and efficacy, compared with haemorrhoidectomy. (Still under study).

**VAGATOMY AND PYLORIC DILATATION :**

In the surgical management of duodenal ulcer. (Project under study).

**3. DEPARTMENT OF GYNAEC AND OBSTETRIC :**

Department of Gynaec and Obstetric consists of 3 units, one full-time and two units under H Professor and Asstt. Professor. Each unit functions twice a week.

**4. DEPARTMENT OF PEDIATRICS :**

The Department of Paediatrics continued to work with one full-time unit and one part-time unit

**I. Indoor Services :**

Ward	No. of patients	Deaths
Paediatric	2593	372
I. P. C. U.	221	135
Neonatal	3132	156
Transferred babies.	164	

**II. O. P. D. Services :**

O. P. D.	No. of New patients	No. of old pts.
Paediatric	18830	—
Special Care	800	
Newborn	1366	2813
Recreation Therapy Centre	991	—
School Clinic		
— Secondary	199	590
— Primary	2437	12940
Child Guidance Clinic	467	542

**III. Peripheral Hospitals :**

Name	Clinic Attendance	Home Visits	Immunization			
			DPT	BCG	Measles	Vit. A
Victoria Ped. Centre.	427	308	600	1622	20	110
Mahim Mat. Home.	243	240	210	—	83	321
Immamwada Mat. Home.						
Kasturba Hospital			: Dr. (Mrs.) P. M. Pai, Professor & Head Department of Paediatrics continue to visit twice a week.			

**IV. Teaching Activities :**

Undergraduate students	: 18 lecturers per term and clinical posting in the ward.
Postgraduate Teaching	: Clinics, weekly death conference, Monthly seminar, Intercollegiate Meeting for M. D. (Ped.).
Nursing Students	: Series of 30 lecturers once a year.
B.Sc. (A. S. T.)	: Series of 40 lecturers per year.

Students Social Workers, M. A. Students (applied Psychology) have attended training sessions at child guidance clinic.

**V. Other Activities :**

Dr. (Mrs.) P. M. Pai, Professor & Head, Department of Paediatrics has selected by M. P. S. C. for the post of Dean, Municipal Medical Colleges and took charge of this hospital from 21-2-1986.

This department has been organised a Seminar on 'Current concepts in Prevention of Malnutrition — 1986' on 9-12-1986. All the staff members of the department participated in the seminar. Dr. (Mrs.) J. Khanna, Professor was the Convenor.

**5. DEPARTMENT OF ANAESTHESIOLOGY :**

The department runs the anaesthesia services at the following institutions viz. B. Y. L. Nair Hospital, Bhajekar Hospital, Kasturba, Kamathipura Hospital, E. N. T. Hospital (Fort), Bandra Bhabha Hospital, Rajawadi Hospital and Nair Dental Hospital.

1. The number of anaesthetics administered in the year 1986 at B. Y. L. Nair Hospital is as follows:—

Cardiac Surgery	279
Neurosurgery	220
General Surgery	2123
E. N. T.	1405
Gynaec (Kamathipura Hospital).	2290
Orthopaedic (Kasturba Hospital).	1619
Ophthalmic	64
Radiology	226
Cardiac Cath.	523
E. C. T.	7643
Emergency	793
Recovery	2622
Plastic Surgery	173
Anaesthesia Assesment Clinic.	582

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20562

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2. Anaesthesia outpatient department (No. 35) for assesment of patients for surgery.
3. Pain clinic for chronic pain and an acupuncture clinic is to be formally started.
4. Acute Respiratory Care consultancy services to Medical, Paediatric and Surgical Departments.
5. Laboratory for Pulmonary Function Tests and Blood gas Analysis and Blood glucose estimations perioperatively.

**6. DEPARTMENT OF GASTROENTEROLOGY :**

The O. P. D. Functions twice a week. During the year 606 out-patients and 406 Indoor patients have been attended. 2791 patients were asked to attend for regular follow up.

**Routine Investigations :-**

C. B. C.	604	E. S. R.	604
Urine.	470	Stool.	644

**Biochemistry Investigations :-**

Liver Function Test.	204	Serum Bilirubin.	204
S. G. O. T./S. G. P. T.	204	Serum Electrolytes.	178
Serum Amylase + Ascitic Fluid Amylase.	15	Serum Uric Acid.	4
Serum Cholesterol.	22	Serum Calcium/Phosphorus.	25
Serum Creatinine.	70	Acid Phosphatase.	2
P. T./P. I.	96	Blood Sugar.	129
B. U. N.	135	Alkaline Phosphatase.	204

**Special Investigations :**

Schilling Test.	40	Australia Antigen.	273
Faecal Test.	40	D-Xylose excretion.	38
S. Protein Electrophoresis.	100	Augmented Histamine Test.	79

**Endoscopies :**

Sigmoidoscopy.	379	Oesophago—Gastro—Duodenoscopy.	178
Periteneoscopy.	96	Colonoscopy.	31
E. R. C. P.	113		

**7. DEPARTMENT OF NEUROLOGY :**

The O. P. D. functions twice a week on Tuesday and Thursday.

**Patients Workload :**

Neurology O. P. D. patients.	...	1031
Neurology Indoor patients.	...	318
Neurology references.	...	271
C. T. References.	...	120

**Lab. Procedures :**

Visual evoked potentials.	...	30
Somato Sensory evoked potential.	...	5
E. M. G.	...	110

**Neuro-Radiology :**

No. of 4 vessel angiograms.	...	14
No. of Aorgrams.	...	5
Carotid Angiograms.	...	18
Myelograms.	...	30
Tomograms.	...	18

The following eminent Scientists visited the department of Neurology and Neuroscience Centre :

1. Prof. Jim Toole : In September 1986, delivered lecture on 'Heart-brain Correlation' at T. N. Medical College and inspected activities at National Centre for Neurosciences.
2. Prof. L. Rowland : On 17th November, 1986, held a post graduate teaching session on 'Spinal Muscular Atrophy' and inspected activities at National Centre for Neurosciences.
3. Prof. Maynard Cohen, Prof. of Neuroscience, Rush University USA and Dr. Frank Yatsu, Prof. of Neurology, University of Texas. : On 10-12-1986, delivered a guest lecture on 'What is new in Cerebro Vascular Disorders' and visited the Neuroscience Centre.

**NEUROSCIENCE DEPARTMENT**

Investigations carried out in Neuroscience Lab. from 1-1-1986 to 31-12-1986 :—

	Name of Investigation.	No.
1.	C. K.	91
2.	L. D. H.	85
3.	Cholesterol.	106
4.	H. D. L. Cholestrol.	106
5.	Triglycerides.	106
6.	P. H.	22
7.	PO	22
8.	PCO	22
9.	HCO	22

Standarisation of phenobarbital on HpTLC.

**DEPARTMENT OF NEUROSURGERY**

Th O. P. D. functions twice a week Tuesday and Thursday.

**O. P. D. Attendance :**

New	599
Old	2263
Indoor Admission	377
Total Operations	286
E. E. G. Test	790
Echoencephalography	5
R. F. Thermocoagulation	43
Carotid Angiography	53
Myelography	41
Myodil Ventriculography	Nil
Conray ventriculography	Nil

**CARDIOVASCULAR AND THORACIC SURGERY**

In the calendar year 1986 the department of Cardio Vascular and Thoracic Surgery has made considerable progress and has been involved in manifold activities. This presentation highlights both academic and clinical aspects of our activities.

**Operative Work :**

It is worthwhile mentioning that in the period when the operation theatre was made available to us, hardly any working day has gone without doing an open heart operation. This reflects on a high cost-effective utility ratio.

The following is the breakup of operative work done by the Department.

Open heart Operations	209
Closed heart Operations	61
Vascular Operations	32
Major thoracic operations	21
Minor thoracic operations	87

**Results :**

28 out of these 410 patients expired giving a mortality figure of about 7%.

**Detailed Analysis of Operations :**

Sr. No.	Operation	No. operated.
1.	Closed Mitral Valvotomy.	32
2.	Patent Ductus Arteriosus.	9
3.	Co-Arctation of Aorta.	2
4.	Pericardiectomy.	7
5.	Epicardial pacemaker.	2
6.	Endocardial Pacemaker.	2
7.	B. T. Shunt.	4
8.	Nephrectomy.	1
9.	Cervical Sympathectomy.	1
10.	Major thoracic operations.	21
11.	Minor thoracic operations.	87
12.	Vascular Operations.	32
13.	Open Mitral Commisurotomy.	42
14.	Mitral Valve Repair.	20
15.	Mitral Valve Replacement.	29
16.	Aortic Valve Replacement.	9
17.	Double Valve Surgery.	19
18.	Triple Valve Surgery.	2
19.	C. A. B. G.	3
20.	Aneurysms of Aortic Arch.	2
21.	V. S. D. Closure.	4
22.	A. S. D. Closure.	23
23.	Tetralogy of Fallot.	8
24.	Infundibular Resection.	2
25.	Pulmonary Stenosis.	3
26.	A. V. Canal.	3
27.	Coarct + A. V. R.	2
28.	T. A. P. V. C.	2
29.	Ruptured Sinus of Valsalva.	1
30.	V. S. D. + A. R.	3
31.	D. C. R. V.	1
32.	Extrocardia + T. O. F.	1
33.	Gerbode's Defect.	3
34.	Isolated T. S.	1
<b>Emergency Surgery :</b>		
1.	Closed Mitral Commisurotomy.	6
2.	B. T. Shunt.	2
3.	C. A. B. G.	1
4.	M. V. Redo (Paravalv. leak).	1
5.	Double Valve Replacement.	5
6.	Declotting of B. S. Valve.	1
<b>Paediatric patients undergoing surgery :</b>		
1.	C. M. C.	11
2.	T. O. F.	6
3.	B. T. Shunt.	4
4.	Lung Resection.	2
5.	P. D. A.	6
6.	T. A. P. V. C.	2
7.	Minor Procedures.	16

**Rare Operations :**

We have performed the following unusual operations which are of great academic significance.

1. Bilateral mixed TAPVC.
2. Double chambered Rt. Ventricle.
3. Ruptured Sinus of Valsalva.
4. V. S. D. with Aortic Incompetence.
5. Coarctation of aorta with AVR.
6. Dextrocardia with T. O. F.
7. Gerbode's defect.
8. Congenital Tricuspid Stenosis.

**Blood less open heart :**

We have performed 15 open heart operations without the use of Banked Blood or its constituents. This minimises the hazards of blood transfusion to the patients. At the same time it reduces load on the blood bank.

**Outdoor Patient Department :**

The Outdoor Patient Department of the Cardio Vascular and Thoracic Surgery was reorganised and shifted to reomier premises in O. P. D. No. 8.

**Emergency Laboratory :**

Under the direction of the Dean and in co-operation with the Pathology Department and emergency laboratory has been set up to make available blood gases and serum electrolyte reports round the clock.

**Academic Achievements :**

1. Monday meeting : Every Mondy at 9.00 a.m. a Cardiac Cath. meeting is held jointly with the Department of Cardiology.
2. Saturday meeting : Every Saturday the department organises a clinical meeting where all cases operated during the week are academically asessed and discussed. This meeting is attended by Anaesthetists, Cardiologists and Cardiac Pathologists.
3. Monthly meeting : An interhospital monthly meeting was held on 8th March 1986 which all Cardiology and Cardiac Surgery Departments of teaching hospitals in Bombay attended. The meet was commended by all for its academic excellance and good organisation.
4. Guest Lecture : A guest lecture was arranged by the department at which Dr. Eric Hauf from the Clinique de Genoliers, spoke on coronary artery Enderarterectomy. His presentation was lucid and his slides excellent.

**Training of Perfusionist :**

The department staff and registrars have taken personal interest in the training of Mr. Karambale, technician, in the intricate technique of running Cardio-pulmonary bypass. In as short time he has already completed over 100 cardio-pulmonary bypass runs.

**Felicitatation and Recognition :**

Dr. J. N. Karbhasè our Unit Chief and Dr. J. M. Desai, Hon. Prof. of Cardio Vascular and Thoracic Surgery were falicitated by the Governor of Maharashtra for "Outstanding contribution to human welfare".

Administration Report Job No. 6308 File 'Q'-C-2 S. A. Kadir., Our Lecturer Dr. S. M. Doshi had the distinction of being awarded honorary registrarship at St. Thomas' Hospital, London.

Dr. B. R. Kalke, Professor Emeritus and advisor to the Department has brought glory to the institute by his inclusion among "5000 great personalities of the World". This particular personalities volume recognises thousands of men and women whose exemplary deeds are worthy of public regonition on an international level. Dr. B. R. Kalke's work on 'fiirst rigid bileaflet prosthesis' with Dr. Lillehei and the 'First use of oxygenated stroma free Hamoglobin in man' has been commended.

## DEPARTMENT OF CARDIOLOGY

## Data on admissions/O. P. D. attendance :

Indoor admissions	892 cases.
I. C. C. U. admissions	272 cases.
New O. P. D. cases	1417 cases*.

\* This number does not include nearly equal number of cases examined by us referred from otherwards of Nair and its allied hospitals. The number also excludes follow-up cases examined in the O. P. D.

## Data on investigations/therapeutics procedures :

## 1. Cardiac Catherisation :

The Cardiac Catherisation Laboratory of this institution has already established an excellent reputation and 660 cases (adult and paediatric) underwent this investigation during the year 1986. Coronary Angiography has become a safe and routine procedure and the same was performed in 192 cases. Intracoronary thrombolytic therapy was used for treating heart attacks (acute myocardial infarction) in 6 cases.

Balloon dilatation techniques were started in September 1986 and we have acquired maximum experience in such procedures amongst the teaching and nonteaching institutions of Bombay. Sixteen cases were treated by these techniques and the details are as follows :—

Pulmonary Valvar stenosis	11 cases.
Coarctation of aorta	1 cases.
Tricuspid stenosis	2 cases.
Renal artery stenosis	1 case.
Balloon atrial septostomy	1 case.

Other investigation/procedures which were done are as follows :—

- |  |                 |
|--|-----------------|
| 2. Stress testing  | 251 patients.   |
| 3. Vectorcardigrams  | 25 patients.    |
| 4. Electrocardigrams   | 14140 patients. |
| 5. Echocardiography — The echocardiography machine has been out of order after June 1985 floods and full echocardiogram recordings have not been possible. |                 |
| 6. Permanent Pacing  | 5 cases.        |
| 7. Temporary Pacing in ICCU.   | 30 cases.       |

## PLASTIC SURGERY :

Plastic Surgery O. P. D. was conducted every Wednesday and Friday and a total of 652 New cases were seen. In addition about 125 cases were seen every week for follow-up treatment, and full documentation and records of all these cases were made and updated. A total of 545 cases were admitted for surgery of which about 292 were elective and rest were emergency cases mainly involving the hand and face. A large number of emergency cases were also treated in Casualty.

Clinical meetings of the Bombay Plastic Surgeons groups were held under the auspices of the Department of Plastic Surgery. Clinics for undergraduates were arranged by the Department of Plastic Surgery.

## HYPERTENSION CLINIC :

The Hypertension Clinic was started long back and is regularised in the year 1985. The clinic is held on every Tuesday at 11.00 a.m. onwards. The clinic is at present headed by Dr. S. L. Soneji, Dr. P. J. Mehta and two lecturers from the Department of Medicine (Dr. S. A. Kamath and Dr. J. N. Desai) also attend the clinic.

In the year 1986, 100 new patients have been enrolled in the clinic. During the clinic nearly 20-25 follow-up cases are seen.

The main interest of the clinic is to study the action of various anti-hypertensive drugs on the blood biochemistry, their effect on human physiology and the efficacy with which they achieve blood pressure control.

Currently, studies on the 'Effects of Nifedepine on the control of moderate and severe hypertension, blood lipid profile and pulmonary functions' are going on. Dr. P. J. Mehta has presented the paper on this in the Joint Annual Conference of Association of Physicians of India held in February, 1987.

It is planned to conduct similar studies with Captópril and Atenolol.

**ARTIFICIAL KIDNEY DIVISION :**

The activities undertaken by the Artificial Kidney Division are summarised as follows for the year 1986 :—

Sr. No.	Procedures.	No. of cases.
1.	Haemodialysis	893
2.	New patients in A. K. D.	98
3.	Kidney Biopsy	66
4.	Peritoneal dialysis procedures	68
5.	New renal patients in O.P.D., Indoor and reference	392
6.	<b>Drug Trial :</b> No mustered for Nephrotic Syndrome Augmentin for urinary tract infection.	6
7.	Kidney transplant	1

**ASTHMA AND OBSTRUCTIVE AIRWAY DISEASES CLINIC :**

The clinic has been started in January 1976, and is now headed by Dr. (Mrs.) A. J. Pai Dhungat, Reader in Medicine.

The Asthma and obstructive Airway Diseases Clinic is held in R. No. 106 every Monday morning. About 150 new cases attended the clinic during the year 1986 (average 3 per week) while about 50-60 cases came for follow-up every week.

**Investigations :—**

- Pulmonary function tests :—**These are carried out in the Pulmonary function laboratory attached to the clinic. (This laboratory also attends to the patients referred from the entire hospital). The pulmonary functions are studied : (a) before and after bronchodilator aerosol, (b) after exercise testing. Several studies were carried out with the help of pulmonary functions.
- Allergy testing :—**Asthmatics having a history of allergy are tested by skin testing, about 50 cases were studied in the last 1 year and 30 were advised desensitization with beneficial results in most of the cases.
- Immunoglobulins :—**IgG and IgE were estimated by radial immuno diffusion and radioimmunoassay (RTA) respectively in 37 subjects. An excellent correlation was observed between the degree of bronchospasm and IgG RIA was performed with the help of Pharmacology Department.
- Allergic mediators :—**Histamine and serotonic were estimated in 45 subjects.

**Project Carried Out :—**

A study of metabolic changes in exercise induced asthma was carried out by N. G. J. R. F. funds and was completed with excellent results in February, 1986. Various metabolic parameters like glucose, lactic acid, free fatty acid, electrolytes and calcium were estimated in 40 subjects, participating in the study. Serial pulmonary functions were carried out in relation to exercise on 3 occasions (postlunch, fasting and postglucose) in each subject. Increase platelet activity was suspected as the mechanism of EIA.

A study of immunoglobulins and allergic mediators in bronchial asthma was carried out in 37 subjects. A correlation was attempted between these parameters and the degree of bronchospasm. Increased blood coagulability (possibly due to platelet hyperactivity) with release of serotonin was observed during severe bronchospasm.

**DIABETES CLINIC :**

The Diabetes Clinic was started in 1971. At present it is headed by Dr. K. D. Nihalani, Professor of Medicine.

So far, 4,737 patients are registered upto 31st December 1986. Diabetes O. P. D. is conducted twice a week on Mondays and Thursdays in the morning for new patients and in the afternoon for old cases. 10-15 new cases are seen during every O. P. D. for new patients and nearly 100 patients/cases are seen in every follow-up O. P. D.

A separate O. P. D. for Diabetics with T. B. is conducted every Wednesday morning.



All patients undergoing surgery are attended by this clinic and managed during and after surgery. Diabetes clinic has been regularly conducting the diabetic camps for teaching lay public and also doing free blood sugar.

### MEDICINE RESEARCH LABORATORY :

#### 1. Biochemical Tests :

Urea Nitrogen	4257	Creatining	4580
Uric Acid	2271	Glucose	10318
Sodium	9276	Potassium	9276
Chloride	9276	Total Proteins	11091
Albumin	7211	Globulin	7211
Electrophoresis Proteins	3880	Calcium	2336
Phosphorus	2336	Alkaline Phosphatase	1098
Acid Phosphatase	12	S. G. O. T.	1391
S. G. P. T.	1391	Bilirubin	1544
Chloesterol	2510	Amylase	42
Barbiturate	58	Triglycerides	1255.
Apo-lipoproteins	110	HDL Cholesterol	110
LDL Cholesterol	110	VLDL Cholesterol	—
VLDL Triglyceride	110	HDL Triglyceride	110
LDL Triglyceride	110	Glycosulated Hb	110
Histamin	20	serotonin	20
Lactic Acid	22	Free Fatty acids	120
L D. H.	68	C. P. K.	20
C. C. T.	—	C. S. F. Electrophoresis	2
Blood recalcification time	20	Osmolarity	70
Ammonia	50	Glutamin	50

#### 2. Urine :

Urine proteins	576	Bence Jones protein	27
Specific gravity	138	V. M. A.	22
P. H.	20	Amino Acid	5

#### 3. Immunological tests :—

R. A. Tests	1961	A. N. A.	337
Immunoglobulin	1374	C. R. P.	75
Complements	52	Crypproteins	354
Immune Complex	200	A. S. C.	25
T. cells & B. cells	24		

#### 4. Cytological :—

Hemoglobin	8932	Total W. B. C.	8932
Differential WBC	8932	E. S. R.	2362

**AUDIOLOGY AND SPEECH THERAPY SCHOOL :**

**Clinical :** 4,312 patients were seen.

**Academic :** 10 students were admitted in F.Y.B. Sc. (A.S.T.).

Results of B. Sc. (A.S.T.) students is as follows :—

Class	No. of students appeared for Exam.	No. of students succeed.	Results.
F. Y. B. Sc.	9	8	90%
S. .Y. B.Sc.	9	9	100%
T. Y. B.Sc.	6	6	100%

**Educational :**

Mrs. G. B. Gore, Assistant Professor in Speech Pathology was deputed by the Institution, to undergo a 4 weeks training from 5th March till 5th April 1986 in the operation of Brainstem Evoked Response System that was installed in the E. N. T. Department in January 1986. The training was imparted to her at Denmark and Germany by Dantect, Denmark.

Dr. Vaidyanathan, Assistant Professor in Linguistics and Mrs. Sriram, Part-time Lecturer in Speech Pathology undertook a project to standardize the 'Language development milestones in Young Children : of check list'. This project attempts to standardize the test developed by the former with 90 children in the age range of 9 months to 36 months, from the Cheetah Camp.

Audiology and Speech Therapy School with the financial support provided by the Nair Golden Jubilee Research Foundation organised a Three Day exhibition on 'Creating Awareness of Speech and Hearing Disorders' among Medical and Paramedical professionals on 4th, 5th and 7th October, 1986. The exhibition was inaugurated by Shri Karandiakar, D. M. C. (P) of Brihanmumbai Mahanagarpliaka.

The highlights of the exhibition was that all the exhibits were prepared by the staff and students of the school with little assistance from the professional artists.

Miss Kavrie, Full-time Lecturer in Speech Therapy Cum Teacher for the Deaf has gone on Study Leave to do her Masters in Audiology and Speech Pathology at the University of Cincinnati, U. S. A. Miss Kavrie, has been waived from paying her tuition fees on the basis of her teaching experience.

Nair Golden Jubilee Research fondation sanctioned Rs. 3,000/- to Dr. Vaidyanathan, Mrs. Gore and Mrs. Sangekar for their research study in developing and standarising a test material in Marathi to assess the language development in Primary School Children.

**Classes for Deaf :**

**Academic :** Total No. of students in 4 schools for Deaf 70 Nos.

Total No. of Deaf children integreted in the normal schools in various standards in the primary Hindi and Marathi School 20 Nos.

First batch of four Marathi Medium integrated students passed the IVth Std. exam. in normal school. One of the student Kamlakar Rane joined I. T. I.

**Extra Curricular Activities :**

Students took part in various games and competitions organised by the other institution for the deaf and Lions and Rotary Club. Ten stundents won the prizes. All students celebrated various festivals like Ganpati, Gokulashtami, Rakhi and Diwali and Moharam.

The schools had arranged for children Annual Sports, Educational Trip to places around Bombay and competition like Drawing, Craft and Handwriting.

## ENDOCRINOLOGY DEPARTMENT :

## O. P. D. Days :—

Monday and Fridays morning 11.00 a.m. to 1.00 p.m. No. 19. Patients requiring attention and clinical testing on other days are seen in the department between 10.00 to 12.00 noon every days.

Total No. of patients seen	1950
New (Male — 244 + Female — 350)	594
Old	1356

## Total No. of patients sample collected :

Urine	83	Blood	741	Semen	354
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## Total No. of Laboratory tests during the year :

## Urine :

1. Creatinine	17
2. Urinary 17 Keto Steroids	17
3. Urinary 17 Ketogenic Steroids	17
4. Urinary Pregnanediol	15
5. Urinary Pregnanetriol	15
6. Urinary Estrone	51
7. Urinary Pregnancy Test	44
8. Urinary Routine Test	77

## Blood :

1. Radioimmunoassay for FSH	382
2. Radioimmunoassay for LH	252
3. Radioimmunoassay for Prolactin	516
4. Radioimmunoassay for Testosterone	628
5. Radioimmunoassay for GH	124
6. Radioimmunoassay for TSH	306
7. Radioimmunoassay for T <sup>3</sup>	306
8. Radioimmunoassay for T <sup>4</sup>	306
9. Radioimmunoassay for Progesterone.	202
10. Radioimmunoassay for ACTH	120
11. Radioimmunoassay Blood Sugar	95
12. Sex Chromatin : Oral	69

: Blood

69

## Semen Analysis :

Supra Vital staining 354

## Gytology :

Vaginal Smear 47

## Immunological Tests :

1. Sperm Antibody Tests	25
2. Immunoglobuline and compliment estimations	250

## Animal House Performance :

1. Maintenance and Breeding of Rodent Colony.	
2. Use of rats and mice for Biccassays Rats.	150
3. Animals supplied to other departments Rats.	375

**PREVENTIVE AND SOCIAL MEDICINE :****Services :—**

In the community — Comprehensive health care to slum communities.

**In the department :—**

Under five clinic was conducted for Municipal Sweeper community of Arthur Road once a week.

**B. C. G. Vaccinations :**

B. C. G. Vaccination was carried out. 1490 neonates and 2715 paediatric patients including the school clinic patients were vaccinated.

**In the Community :**

Comprehensive Health Care to the communities. Comprehensive health care services were provided to two communities.

1. Shivaji Nagar Deonar Through Urban Health Centre.
2. Shahaji Nagar Cheetah Camp

Following is the report of activities carried out in the two communities for the year 1986 :—

	Shivaji Nagar	Shahaji Nagar
1. Total No. of patients treated	51,404	47,563
2. Total No. of children treated at under five clinic	3,458	2,067
3. Antenatal mothers registered	236	136
		(ANC Cases). 75 (Gynaec.)
4. Dental check up.	515	544
5. Skin cases.	504	550
6. Immunisation	—	Leprosyloz.
Polio	6,378	1,976
Triple	5,690	1,891
D. T.	261	90
B. C. G.	1,902	871
Measles	138	67
T. Toxoid.	2,167	2,108

**School Health Services :**

Medical inspection of school children belonging to standard 1st and VIth at Cheetah Camp School was continued, 2619 children were examined and 962 children of 1st standard were given polio.

**Nutrition Programme for Municipal School Children :**

Supplementary nutrition programme for primary children at Baiganwadi and Cheetah Camp Municipal Schools were continued during the year 1986. On an average 2,000 children from Baiganwadi Municipal School and 1,650 children from Cheetah Camp Municipal School were given nutrition supplements under this programme.

**Balkalyan Kendra :**

964 patients were examined and treated in the year 1986. 57 children were given polio vaccine, 90 were given D. T. Vaccine, 52 were given Tetanustoxoid.

**ROME PROGRAMME :**

Rome programme is integrated the activities at Urban Health Centre at Shivaji Nagar.

Every Wednesday, the vehicle from Malad Garage is brought at Shivaji Nagar and utilized for immunisation programme in the community.

## Under five clinics :—

Community	Groups	No. under observation	Total No. of visits	Average visits infants or child
Cheetah Camp	Infants	503	1025	2
	Children	625	662	1
Deonar	Infants	298	1045	3.5
	Children	1340	2752	2.05
Arthur Road	Infants	20	60	3.00
	Children	30	90	3.00

**Social Services :****Community Visits**

Cheetah Camp	...	1120
Deonar	...	1277
Arthur Road	...	550

**Collateral Contacts :**

Cheetah Camp	...	41
Deonar	...	52
Arthur Road	...	30

**Deonar Community :—**

1. Nutritional aid to children	1320
2. Economic aid in terms of cash and kind	3217
3. Clothes	51
4. Referral and fellow in hospital	720
5. Case work	195
6. Group work activation session for women for health education.	59
7. Balwadies are being run in the community under our guidance.	3
8. Abalwadi is being conducted with the help of community out reach programme.	1
9. Income generation scheme for the patients.	15
10. Sewing classes for adolescent girls	30
11. Employment and rehabilitation	82
12. Catholic relief service programmes in continued for beneficiaries.	100
13. Milk programme started for children.	35
14. Youth group activities session	43

**Arthur Road Community :—**

1. Nutritional aid to patients	980
2. Case work	65
3. School fees.	430
4. Health education meetings	12
5. Employment given	37
6. Rehabilitation for physically handicapped, deaf, blind Poliomyelitis cases, Marital discord & family disputes alcoholism etc.	70
7. Economic aid in cash and kind	40000
8. Material aid as ration, clothes appliances etc.	375

**Cheetah Camp :—**

1. Nutritional aid to adults and families	928
2. Economic help in term of cash and kind	3912
3. Clothes school fees, book etc.	222
4. Referral and follow up in hospital	335
5. Case work	195
6. Health education talks to mother	105
7. Sewing classess for adolescent girls	45
8. Film show on health education	15
9. Sponsorship programmes for children	35
10. Vidnyan Yatra programme arranged	2
11. Employment and rehabilitation	51
12. Catholic relief services programmes	100
13. Milk programme for children	41
14. Youth group meetings	35
15. Vocational training started for the youth from this year. M. S. W. has organised a exhibition on it and the training classes are going on.	

**Special activities of the Department :—**

1. WHO day celebration. To celebration WHO day, the Department organised a health exhibition on 7th April which was inagurated by Mr. Sharad Acharya at Urban Health Centre which was followed by inaguration of Mobile Ophthalmic Van. Role play by interns was also performed.

2. In the months of January, February, March an immunization drives were organised in the M. P. Mill Compound, Tardeo and Cheetah Camp with involvement of undergraduate medical students.

3. Department coordinated and organised the Diagnostic Camp in Nagpada and Tardeo along with Public Health Department of the Bombay Municipal Corporation.

4. Staff members participated in M. P. W. training programme of Public Health Department for 3 weeks.

5. Department staff members were involved in training of 'Bal Sevika' at Mahad incoordination with pride — a voluntary organisation.

6. Department Staff members participated in organising the Health exhibition as a part of workshop on outreach services organised by Public Health Department.

7. Participation of Department staff members in universal immunisation drive organised by IMPACT, Public Health Department, Bombay University etc.

8. Staff members participated in training workshop for N. S. S. students at University Club House on 'Immunisation'.

**THYROID CLINIC :**

Thyroid Clinic is conducted on Monday and follow up on Thursday. The attendance in Thyroid Clinic is as under :—

New Patients	...	637
Follow-up patients.	...	263

**Semen Clinic :**

370 patients attended during the year.

**SCHOOL CLINIC :**

The clinic worked in three services viz., Paediatric, Ophthalmic and Aural from Monday to Friday. Attendance of school children was as follows :—

Paediatric	...	1866	10038	—	11904
Ophthalmic	...	216	406	76	622
Aural	...	118	309	50	427
Grand Total	...	2200	10749	126	12949

## DEPARTMENT OF OPHTHALMOLOGY (EYE BANK) :

## Eye Bank Activities :—

No. of eye enucleated	...	6
No. of Keratoplasty done	...	15
No. of donors registered	...	11

## Special Clinics :—

## 1. Glaucoma Clinic : Thursday, at 2.00 p.m. to 5.00 p.m.

New cases	...	67
Follow-up cases	...	110
Operations done	...	37 cases.
Medical therapy given	...	40 cases.

## 2. Squint Clinic :—Tuesday, at 2.00 p.m. to 5.00 p.m.

New patients	...	57
Old patients	...	12
		69
Total	...	69

Out of 57 new cases 22 were surgically corrected and rest given orthoptic exercises.

## Van Programme :

## Mobile Ophthalmic van activities :—

1. Revived and inaugurated on 7th April 1986 under the auspicious of W. H. O. day celebration of T. N. M. C. & B. Y. L. Nair Hospital.
2. Camps organised at Ghatkopar, treated 156 patients.
3. Total No. of patients treated including camp at Ghatkopar — 2500.
4. Air conditioning of van done.

Laser machine inaugurated on 15th August 1986 on the eve of Independence day celebration of T. N. M. C. & B. Y. L. Nair Hospital.

Dr. A. R. Patel was on study tour to U. S. A. in May and June 1986 and attended seminars of the following hospitals :—

1. Herman Eye Centre Husten Texas.
2. New York Eye and Ear infarmary — New York.
3. Glaucoma and oculoplastic Clinic — Stanford University, Medical Centre, Stanford California 94305.
4. Manhattan Eye, Ear and Throat Hospital and Cornell University Medical Centre, New York Hospital, New York.
5. Department of Ophthalmology University of Washigton.
6. Rules Stein Eye Institute Los Angeles, California.

**DEPARTMENT OF DERMATOLOGY & VENEREOLOGY :**

The department functions all the days except Sundays from 8.00 a.m. onwards.

<b>1. Attendance at O. P. D. :</b>		
<b>A. Infections</b>	<b>New</b>	<b>Old</b>
a. Skin infections	31,652	25,680
b. V. D. Cases	20,321	8,894
c. Total infections	51,973	34,574
d. Non-infections	19,733	16,903
e. Ratio of Infection — Non-infections 2 : 1		
f. Maximum attendance of one day	536	
g. Total attendance	71,726	51,477
<b>2. Inpatients :</b>		
<b>3. Investigations :</b>		
	<b>Total</b>	<b>Abnormal</b>
a. Biopsies	1,806	All
b. V. D. R. L.	5,906	4,976
c. Dark Ground illumination	4,632	2,058
d. Smear for Gonococci	5,120	5,060
e. Smear for Donovanosis	763	324
f. Smear for Chancroid	306	Nil
g. Smear for Leprosy	763	494
h. Scales for Fungus	9,640	8,532
i. Urine	560	327
j. Stool	320	124
k. Blood count	539	214
i. E. S. R.	587	319
4. Photographs	5,738	
<b>5. Therapy :</b>		
a. Superficial X-ray	Nil	
b. Electro Dessication	1,320	
c. Chemical Cautery	1,748	
d. Phodophyllin	1,479	
e. Intralesional Steroid	1,973	
6. Medical Education :	Lectures & Clinics.	
<b>7. Clinical meetings of I. A. D. V. &amp; L. :</b>		
1. Unusual presentation of a common disease (T.B.)		
2. Reiters Syndrome.		
3. Mycetoma due to Actinomyces Israeli.		
4. Cutaneous malignancies — Review of 3 cases.		
5. Dr. U. S. Khopkar (Registrar) of the Dept. secured Dr. A. C. Parikh Award for the best paper of the year.		
6. Dr. Hemen Shah (Ex. Registrar) of the Department secured best paper award for his paper on "Antophoresis in Hyperhidrosis" at All India Conference of I.A.D.V. & L.		

**DEPARTMENT OF PAEDIATRIC SURGERY :**

Dr. A. B. Mathure and Dr. Mohla with one Paediatric Surgical Registrar continue to work of Paediatric Surgery alongwith the General Surgical existing work of part-time Unit III. This department is helped by the P. T. Unit III staff all the time to cope up with the Paediatric Surgical work as we are on emergency duties. This department is having separate Paediatric Surgical O. P. D. on Wednesday and Saturday 11 a. m. to 1 p.m. The Wednesday O. P. D. is shared with us by our Tutor, who also has General Surgery and Paed. Surg. O. P. D.

The Paediatric Surgical Department's books are with us in the Ward neatly arranged and a book of Entry is well maintained. This year 2 volumes of Muster's Paediatric Surgery have been added. The journal of Paediatric Surgery comes to the Central Library.



Following are the operation done by Paediatric Surgery Unit :—

**Major Surgery :**

1. Bronchoscopy	13
2. Duhamals/Anorectal pullthrough	5
3. Ventriculo-peritoneal shunts	2
4. Appendectomy	4
5. Cleft palate repair.	1
6. Expl. Laprotomy with resection Anastomosis.	8
7. Total Colectomy with ileo-rectal pull thro	1
8. Herniotomy	20
9. Cutaneous Urethrostomy	3
10. Nephrectomy	1
11. Hypo Epispadius with ectopis vesica	3
12. Thoracotomy/Pneumonectomy (Thoracotomy for Neorate with cysts Hygrow).	3
13. Orchodopexy	13
14. Cystoscopy	6
15. Anoplasty	2
16. Thyrogiossal Cyst Excision	2
17. Ramsted's Operation	4
<b>Total :</b>	<b>89</b>

**Minor Surgery :**

1. Oesophageal dilation	
2. Lymph node biopsy	
3. Injection or Haemangiomas	
4. Incision and Drainage of Abscesses.	
5. Tumor excision.	
<b>Total</b>	<b>47</b>

**Special Lectures :**

Post Graduate Lectures	: Intestinal Neonatal Obstruction Diaphragmatic Hernias in Neonates.
M. D. (Gynaec.) Students	: At Wadia Maternity Hospital Surgical Emergencies in Neonates.
I.M.A. Main Branch	: Common Paediatric Surgical problems.
Malas G. P. Association	: Interesting slides on Common Children's Surgical problems.

Regular ward rounds and teaching of clinical medicines is done as usual to undergraduates. Interesting clinical cases have been presented at the surgical meeting and intercollegiate paediatric meetings.

Intresting Paediatric Surgical cases are presented at Intercollegiate Paediatric Monthly meetings and Inter departmental Surgical weekly meetings.

**DEPARTMENT OF PSYCHIATRY :**

There are two units in the Department of Psychiatry. A Part-time Unit headed by Dr. A. R. Patkar and a Full-time Unit headed by Dr. (Mrs.) H. S. Dhavale.

**O. P. D. Services :**

The Psychiatry O. P. D. is conducted on all working days of the week.

Total new cases (Annual)	4029		
Average daily new cases	12.7		
<b>Indoor Services :</b>			
Total admission : Male	869	Female ...	387
Total Bed Strength : Male	25	Female ...	17
Daily average admission	4		
Total Death : Male	3	Female ...	1
<b>Therapies :</b>			
Total No. of E. C. Ts.	6129		
Average daily E. C. Ts.	20		
Insulin Therapy.	71		
Cerebral stimulation	72		

Psychotherapy including behaviour and marital counselling and family therapy — Approx. 12/week.

Play therapy for children is conducted on every Thursday and average 4-5 children attend per session.

Group therapy for sex related disorders, alcoholisms, addition are carried out twice a week.

**Community Psychiatry :**

In the year 1986, our departments was actively involved in spreading the concept of mental health to the general population. One of the important activity revolved around the subject of 'Drug Abuse'. Apart from the exhibition held at Nair Hospital, all our staff members actively participated in Lectures, Demonstration and Seminars on Drug Abuse *i.e.*, mainly brown sugar, which were organised by various institutes, Municipal Councillors and member of Parliament, as part of the Drug awareness Programme. Audiovisual Qids were used at these programmes which were held at various places right from Colaba upto the peripheral and distant suburbs.

Information regarding other Psychological disorders were conveyed by talks on A. I. R., Mental Health Camps, Seminars, Newspaper articles, some of the activities covering areas in rural Maharashtra.

The School Mental Health Clinic is run by the Department of Psychiatry. The team of S. M. H. C. consists of Psychiatrist — 1 Lecturer, 1 Registrar, 1 Houseman, Social Workers — 2, Clinical Psychologists — 2.

In the year 1986 a total of 258 cases were seen in O. P. D. — Male — 154, Female — 104, Total — 258.

During the year 1986, 9 Municipal Schools were visited by S.M.H.C. team and 202 cases were detected in the schools.

**Teaching Programme :**

1. Lectures and Clinics (case discussion) for post-graduate students by senior Psychiatrists twice a week.
2. Journal Club on alternate Fridays.
3. Short topic discussion on alternate Fridays.
4. Lectures for undergraduate students of T. N. Medical College, fifteen day ward postings — Clinics, Case presentation demonstrations.
5. Lectures on Psychology for nurses of Nair Hospital.
6. Lectures for students of Speech and Audiology Department.
7. Lectures and Clinics for students of TATA Institute of Social Services.
8. Lectures and clinics for Nurses of S. N. D. T. College.

**Highlights :**

A drawing competition for Mentally Retarded Children was arranged in the foyer of the College Auditorium. Prizes were distributed by our Dean to the winners. All the participants received gifts and refreshments.

In view of the increasing abuse of drugs, an exhibition cum film show on "Drug Addiction" was arranged in the auditorium, which was inaugurated by the Dean of our institute. Staff and students of the institute attended in great numbers and they appreciated the excellent arrangements and exhibition posters. Queries were answered personally by the staff members at the venue.

**MEDICAL SOCIAL WORKER :**

Old cases carried over.	6132
New cases referred in 1986.	14521
Referred from other Institutions.	2230
Total No. of cases handed in 1986.	22883
1. No. of home visits, institutional visits and colateral contacts made.	4233
2. Case work services given and No. of cases referred for rehabilitation.	6264
3. No. of follow up letters and letters sent to donors, charitable and Welfare organisations.	8425
4. Material aid given :—	
a. Appliances as belts, callipers cruches etc.	3112
i. Wheel chairs.	251
ii. Glasses	1034
iii. Triwheelers	102
b. Costly and nonsheduled drugs.	12132
c. i. Food	12519
ii. Ration	1320
iii. Supplimentary nutritional aid.	5110
d. Clothes	4918
e. Library books given to patients.	934
f. School fees, uniforms textbooks for patients children and young school going patients.	2827
g. Travelling expenses.	1114
h. Employment for :	
1. Patients.	978
2. Patient's family members.	720
i. Accomodations	224
j. Institutionalization.	632
k. No. of cases rehabilitated.	3978

During this year approximately donations arranged in cash and kind.

Rs. 3,08,844 in the form of drugs.

Rs. 15,524 for the appliances.

Rs. 2,71,226 for the patients undergoing Cardiac Surgery.

Rs. 3,18,962 for the cancer patients in cash and kind.

As the hospital has started charging for the special investigations like C. T. Scan, 2-D Echo, E. E. G and X-rays the workload is increased.

Medical Social Worker's started giving their valuable services to X-ray Department for assesing their cases and they have raised their funds Rs. 3,09,915/-.

Following Welfare activities conducted by M. S. W. Department :—

1. Cleanliness drive arranged by M. S. W. Department for wards.
2. Educational and recreation films shows arranged for the Indoor patients.
3. 'Haldi-Kumkum' function arranged for the Indoor female patients.
4. Exhibitions cum sales was organised of the articles made by disables of Nair Hospital.

**Report of the Project of Rehabilitation of Alcoholics :—**

This project started on World Health Day (7th April 1983) from the point of view to rehabilitate alcoholics. There are many employees and patients who are alcoholics, suffering from various health complaints and problems with families as well as in work. We wish to understand their problems and motivate them to give up drinking. From this point of view this project has been started with the collaboration of Alcoholic Anonymous Group. A. A.'s meetings are arranged on every Saturday between 10.30 a.m. to 11.30 a.m. this is a group therapy. The employees and patients are attending meetings regularly, and taking benefit of this project. It has been observed that seventy four alcoholics have stopped drinking and are able to lead a normal life with their family members. Alongwith the alcoholics their family members are also involved in this project. All these families are taken for the individual and group therapy and then rehabilitation.

This was a great achievement and success. Some alcoholics who are fully motivated and recovered took initiative to start the independent A. A. Project in their own offices and factories.

No. of meetings.	54
Hospital employees.	150
I. P. D. patients.	193
Family members and A. A. Members.	650
No. of Alcoholics attended meetings.	1102
Recovery in the year	80
O. P. D. patients.	230

**Report of the work and training Centre for the Disables :—**

This project started in 1981 as it was the year of Handicapped. It was inaugurated by Hon. Municipal Commissioner Shri D. M. Sukthankar. The benefit is given to the disables who are undergoing treatment in B. Y. L. Nair Ch. Hospital. The main objective is Rehabilitation of these disables with the collaboration from various charitable organisation and private industries. Job training facilities are given in Tailoring, assembling, packing numbering our Hospital registers etc. The remuneration is paid for the same by industries and Hospital. This three-four years disables are completely rehabilitated and they are own. During this year 35 disables have taken advantage of this project. Free lunch facility is arranged through donation.

Two punching machines, 2 Max numbering machines, 3 sewing machines and one sewing with beeding attachment and rexin material is bought through the donation which is very much helpful for disables to earn their bread.

**OCCUPATIONAL THERAPY DEPARTMENT:**

The following are the figures for the year 1986 of work-load and the work analysis :—

1. Total No. of patients for the year 1986	12027
2. Total No. of patients attendance.	131022
3. New patients (O. P. D.).	4219
4. New patients (Indoor)	3362
5. Total No. of patients (O.P.D. + Indoor).	12027
6. Total No. of splints prepared.	950

**P. V. C. and D. C. U. Printing Unit :**

All these sections are working as usual the load of printing work is also increased then last year.

The work load in Work-shop of Day Care is also increased.

**Splint Section :**

Work of splint is considerably increased.

**Miscellaneous :**

Head of Occupational Therapy Department Shri A. S. Khullodkar was appointed as an Examiner for undergraduate as well as post graduate examinations held by University of Bombay as well as Nagpur.

Lectures for Occupational Therapy Students, Speech Therapy Medical students, Nurses were given a routine.

P. G. Students in Occupational Therapy and their desertations work was carried out, under guidance of Head O. T. Department.

New splints, adaptations and rehabilitation approaches were carried out in the interest of patients by the staff and students of this instituion as usual.

**PHYSIOTHERAPY DEPARTMENT :**

The following are the figures for the year 1986 of the workload and the work analysis :—

Total No. of patients treated.	13444
Total No. of attendance.	158584
New cases referred.	7889

**Miscellaneous :**

Head of Physiotherapy Department Mrs. S. S. Idgunji was appointed as an examiner for undergraduate as well as postgraduate examination in physiotherapy held by Bombay University and she was also appointed as examiner for M. Sc. Physiotherapy students.

Lectures for Medical, Speech therapy students as well as post graduate students in physiotherapy were given as a routine.

**Electromyography :**

Neurophysiological studies are done regularly. Somato sensory evoke potentials.

**Sports :**

Sport activities were conducted by this department.

**DEPARTMENT OF RESPIRATORY DISEASES :**

1. No. of patients attending our O. P. D. during 1986 :—

1. Chest.	2270
2. Tuberculosis New cases.	3860
3. Tuberculosis and chest old cases for follow up.	6512
2. No. of Indoor admissions during the year :—	418
3. Laboratory Work done :	
1. Sputum examination.	10495
2. Sputum culture and Antibiotic sensitivity test.	268
3. Urine examination Routine, BS, BP etc.	523
4. Stool examination and Occult blood.	272
5. Blood examination including CBS, ESR etc.	518
6. Fiber-Optic Bronchoscopy.	568
7. Pleuropulmonary Biopsy.	62
4. Pylmonary Functions Test :	652
5. Pre & Post exercise blood gas testing.	180
6. Screening :	
1. Routine Screening	438
2. Family Screening.	966
7. Antigen Skin Testing :	96

This department is one of the few centres selected by 'The Tuberculosis Association of India' from all over India for carrying out a study on the effectiveness of B. C. G. Vaccination using case control method.

Post graduate Lecture delivered by Dr. G. S. Perhar on "Management of Complications in treatment of Pulmonary Tuberculosis" for Western Chapter of American College of Chest Physician.

Delivered a post graduate lecture on "Newer Diagnostic Process in Respiratory Diseases" for Western Chapter of American College of Chest Physician by Dr. S. P. Shah.

Delivered a lectuer on "Lung Biopsy and Bronchoscopic Bróncho Alveolar Lavage" by Dr. N. P. Shah for Western Chapter of American College of Chest Physician.

At present we are carrying out the following research in our department :—

1. Study of Prevalence of Atypical Mycobacteria in the city of Bombay with strain typing. We have studied 107 patients and are being followed-up. This study is under publication.

2. We have completed about 568 bronchoscopy report of findings of these 568 bronchoscopy is under consideration for publication.

3. Project on comparision of Bacteriological pattern of sputum culture and secretions obtain though Fiber-Optic Bronchoscopy is under publication.

In future we are planning to expand our department with the use of Computerised Pulmonary Function Test, Blood gas analyser and by establishing Acute Respiratory Care unit.

### RHEUMATOLOGY CLINIC :

The Rheumatology Clinic was started in the year ———. Rheumatology OPD for new cases is held on Friday morning. On Saturday follow-up patients are seen, and at the same time drugs are dispensed. These apart SLE, PSS, DM/PM and othe collagen vascular diseases, record-line RA patients, SSA and special study patients are seen on different days for better follow-up. In 1986, 800 new cases were registered.

The laboratory services provide adequate support of routine and immunologic tests. Recently techniques for study of lymphocyte subsets are being established. The clinic has completed a study of HLA in rheumatoid arthritis, in collaboration with Jaslok Hospital. Collaborative studies on Ayurvedic drugs and accupuncture are going on. A special project to study the microbiological aspects of SSA is being conducted alongwith Mircobiology department, T. N. Medical College. The unit has been active in drug studies.

Members presented papers at national conference of Rheumatology. A course in reheumatology for General Practitioners was successfully completed. Research papers have been published in national journals. Two M. Sc. thesis in biochemistry were completed during the year based on rheumatology case material.

### 32. PHARMACY DEPARTMENT :

#### 1. Dispensary :

This year Dispensary has dispensed 420627 cases papers Out-door and 794 case papers at Indoor.

No. of stock items supplied to O. P. D. and Theatres is 14790.

Total quantity of stock prepared for Indoor and Out-door patients are given below :—

a. Quantity of stock solutions prepared in 1 lit.	...	18890.25	lits.
b. No. of packets made.	...	134795.00	pkts.
c. No. of powder wrapped.	...	35513.00	Nos.
d. No. of O. P. D. prescriptions dispensed where account is kept.	...	7363.00	Nos.
e. Prescriptions where special drug is issued and account is kept. (OPD—34).	...	101046.00	Nos.
f. Simple Syrup lit.	...	1072.606	lits.
g. Quantity of stock mixture prepared.	...	13940.000	lits.

#### 2. Central Sterile Supply Service :

Various types of Surgical in struments and other articles are processed systematically assembled in different types of trays/sets and sterilized. The şervice involved 10 types of sets and 42 types of trays with annual turnover of 50019 Nos.

The dressings drums/packs sterilized during the year are 18980.

### 3. Manufacturing of Pharmaceuticals :

1. Transfusion bottles 1 lit.	...	481	
2. Transfusion bottles 540 ml.	...	53992	
3. Vials/ampoules assorted.	...	21650	
4. Eye ointment packets.	...	975	pkts.
5. Ointment for external use.	...	575	kg.
6. Powders.	...	216	kg.
7. Lotion and liniments.	...	1166	lits.
8. Conc. castor oil liquid soap.	...	144	lits.
9. Soft soap.	...	9	kg.
10. Sterile vaseline gauze tray.	...	62	
11. Distilled water 10 lit. carboys.	...	473	
12. Distilled water 7 lit. flasks.	...	281	

### 4. Quality Control :

A total No. of 25 different kinds of products splitted up in 535 No. of Batches manufactured by Pharmacy Department were tested of the finished stage and during processing. For which 15466 No. of various kind of tests were performed, 50 No. batches were rejected.

A total No. of 407 different kinds of products splitted up in 2382 No. of batches purchased by Store from outside market were tested. For which 12347 No. of various kinds of tests were performed. 87 batches were rejected. The % of rejection being 0.35%.

All the sterilizers under Nair Hospital and its peripheral hospital such as Bhajekar Hospital, Kamathipura Hospital and Kasturba Hospital were tested for their effective working every fortnight by performing sterility tests live culture.

73 items were tested within one hour of its receipt and results given to the Store for urgent requirement and immediate treatment of the patients.

### 5. Glass Blowing Section :

Following articles are prepared by the Glass Blower in the year 1986 :—

S. No.	Name of the items.	Quantity.
1.	Murphy's Drips.	1310
2.	Needle Covers.	900
3.	Bleeding sets tube.	250
4.	Glass tubing for renal drainage set small.	1100
5.	Glass tubing for renal drainage set big.	1000
6.	Saline set tubes big.	550
7.	Saline set tubes small.	1350
8.	Thorasic drainge set small.	400
9.	Thorasic drainage set big.	800
10.	Oxygen Canulae.	100
11.	L. P. Sets rods.	650
12.	Test tubes for manufacturing section.	115
13.	'L' tubes for thorasic drainage set.	250
14.	'Y' connection.	98
15.	Long droppers for Physiology dept.	300

### Needle Sharpening :

Total 9256 hypodermic needles resharpened.

### 6. Maintenance Section :

This section looks after the maintenance and repair work of all the machineries of pharmacy and the minor repair of sterilizer of wards and theatres, Bhajekar Hospital, Kamathipura Hospital (G. O. T.) and Kasturba Hospital (O. T.).

This major and minor repairs done are numbering to 884 during this year which includes the replacement of heaters and other spare parts. Removals of steam and water leakage from the high speed sterilizer, Hot and cold water sterilizer. Table model instrument sterilizer and bowl sterilizer and other repair work.

### 7. Education :

Following students from various colleges undergone the practical training of 750 hours in pharmacy department in the year 1986.

1. K. M. Kundnani College of Pharmacy, Ulhasnagar.	4
2. College of Pharmacy, Ratnagiri.	2
3. Govt. college of Pharmacy, Karad.	1
4. College of Pharmacy Malagaon.	2
5. S. N. D. T. Women's college, Santacruz.	2

### 33. E. N. T. DEPARTMENT :

Department of E. N. T. consists of one Full-time under Dr. A. G. Pusalkar, Prof. & Head of E. N. T. and Head & Neck Surgery Department and also Head of Audiology & Speech Therapy School and one Part-time Unit under Dr. N. L. Hiranandani, Hon. E. N. T. Surgeon and Hon. Prof. of E. N. T. Each unit attending alternate day O. P. D. and Operation Theatre.

The following were the activities of the department of E. N. T. and Head & Neck Surgery during the year 1986 :—

#### O. P. D. Services :

The total No. of patients attended E. N. T. O. P. D. during the year 1986 were 13048. In addition old cases of the previous years requiring follow-up and treatment have been attended.

#### Operative Session :

Operations like Myringoplasty, Facial Nerve Palsy Mastoidectomy, Sac decompression, Ausiculoplasty, Myringotomy, Glossectomy, Ca cheek, Ca tonsil mandible, Ca Maxilla, V. N. S., S. M. R., Cald Wel Luc, Polypectomy etc. are performed. The total number of operations performed during the year 1986 were 1865.

#### Post Operative Clinic :

Every Wednesday and Thursday respectively by Unit I and Unit II.

#### E. N. G. Clinic :

Patients of vertigo, deafness and tinnitus have been referred from the Out-patient Department of E. N. T. Patients history and clinical examination is done. Following this they are referred from O. P. D. for Electronystagmography. These patients are further followed up on Wednesday and Friday at the E. N. G. Clinic conducted in L. C. V. R. Laboratory of E. N. T. Department. They are given treatment and further follow-up is done at periods of 2 weeks. Further investigations if necessary, for Radiography, Blood examination etc. are also advised, 198 new cases have been thus investigated and treated in the year 1986. The old cases have also been followed up as required.

#### BERA TEST :

This department have started the facility of Brainstem Evoked Response Audiometry from January 1986. This is a unique investigation and only this department amongst all the Municipal Corporation Hospitals having this facility. This facility help in diagnosis, the deafness even in New Born and helps in diagnosis of early acoustic neuromas. These tests were carried out by Prof. R. K. Jagdeesh and Smt. G. B. Gore, Asst. Prof. of A. S. T. Department. The total number of BERA done during the year 1986 were 313.

#### School Clinic :

Works for 6 days in a week.



**Peripheral Activities :****a. E. N. T. Hospital :—**

Dr. A. G. Pusalkar, Prof. and Head of the Department of E. N. T. and Head and Neck Surgery and Head of A. S. T. S. continues to visit E. N. T. Hospital on every Tuesday and Dr. N. L. Hiranandani, Hon. E. N. T. Surgeon and Hon. Prof. of E. N. T. continues to visit E. N. T. Hospital twice a week.

**b. Bombay Hospital :—**

Dr. N. L. Hiranandani, Hon. E. N. T. Surgeon and Hon. Prof. of E. N. T. continues to visit Bombay Hospital twice a week.

**Teaching Activities :****a. Undergraduate students :—**

Lecture series and clinical term.

**b. Post-graduate students :—**

The post-graduate teachers of department guide, prepare the post-graduate students in their thesis work for M. S. Examination in E. N. T. of University of Bombay. Regular clinics with case discussions are held and selected topics are discussed where Honorary, Full-time E. N. T. Professor, Reader, Lecturers and Post-graduate students participated.

**c. Speech Therapy Students :—**

Lectures in E. N. T. are held for the B.Sc. students of our college.

**d. Nursing Students :—**

Lectures in E. N. T. are held for teaching nursing students of our institute.

**Courses :**

Under the auspices of Nair Golden Jubilee Research Foundation Department of E. N. T. and Head & Neck Surgery arranged and organised the following courses, seminars during the year 1986.

1. Seminar on "Clinical Approach to Giddiness" along with exhibition by Speech therapist on Awareness of Speech and Hearing disorders on 4th October 1986 in the college auditorium.

2. "Microsurgery of the Ear Course" by Dr. Andre Sultan, France conducted in E. N. T. Department from 2nd to 7th November 1986. During the course Dr. Sultan demonstrated the surgical techniques on close circuit T. V., by video sessions and dissections of temporal bones. This course was attended by 40 participants from various parts of India and was extremely beneficial to them.

3. Course in "Cosmetic surgery of Nose" conducted by Dr. W. Gubisch, West Germany in E. N. T. Department from 15th December 1986 to 18th December 1986. The course was attended by senior E. N. T. specialities from Bombay and other cities. He demonstrated surgery for our post-graduate students. During the course, Dr. Gubisch gave the lectures on Basics of rhinology, Free septum grafting, Tip correction, Stenosis of the anterior nose, Nose augmentation.

**General :**

This department is very often having Indian and Foreign surgeons as visitors, observers and for academic courses, where exchange of knowledge regarding the latest advances in surgery takes place.

**34. DEPARTMENT OF ORTHOPAEDIC :**

O.P.D. Attendance.	...	15,558
Indoor admission.	...	2,272

**Special activities :—**

1. Reaction of bone to cement and joint replacement.
2. Pulsed electromagnetic bone induction. One of the lecturers has designed a P. E. N. induction device.
3. Clinical comparison of semi non invasive methods of bone induction.
4. PLIF for Lumbar degenerative disorder.
5. Tumor excision and reconstruction.
6. Acetabular fracture's and management.

**35. NURSING :**

The total No. of students admitted for General Nursing and Midwifery in the 1986 are 107 and 76.

The No. of students appeared for Midwifery are 80 and 78 passed.

The No. of students appeared for part II exam. are 30 and 28 passed.

The No. of students appeared for part I exam. are 75 and 64 passed.

The No. of students discontinued from training are 8.

The No. of students left the institution are 12.

The No. of students transferred to K. E. M. and Cooper Hospital for Midwifery training are 11.

The No. of students discontinued after training for want of post are 58.

The No. of staff nurses left the institution are 8.

Dr. A. L. Nair's award for 1986 following names were selected Smt. K. G. Joshi, Asstt. Matron, Smt. A. A. Deodhar, Sister-tutor, Smt. Rosamma Antony, Sister, Smt. Fulu S. Dharne Staff Nurse, Smt. Gracy Mathew Student Nurse, Molly Joseph, Maria Starlin, Smt. Geetanjali Chutke Student Nurse, Smt. Suvarna Lavand Student Nurse.

In the month of February sports were arranged for trained staff and Student Nurses on Haji Ali ground.

Variety entertainment and prize distributed in April.

In the month of July 1986 Fare well party was arranged for Mr. N. Z. Patel, Theater Superintendent.

In the month of August Mayor's award was given to Smt. Radha Shetty, Theatre Sister, Smt. Ranzeem Siddiquee Student Nurse.

**36. TOPIWALA NATIONAL MEDICAL COLLEGE :**

The College has been permanently filiated to the University of Bombay for teaching the course of students leading upto M. B. B. S. and post-graduate examinations.

The College has also been affiliated to the University of Bombay for teaching the courses of studies leading to B.Sc. (Audiology and Speech Therapy) degree examination.

532 undergraduate students (240 ladies) and 371 post-graduate students (150 ladies) were on the roll at the class of the year : —

Students on roll as on 1-8-1986 : —

Class.	Male	Female	Total.
III M. B. B. S. Casual.	17	4	21
III M. B. B. S. IIIrd term.	52	35	87
III M. B. B. S. IIInd term.	12	3	15
III M. B. B. S. Ist term.	45	42	87
II M. B. B. S. IIIrd term.	12	3	15
II M. B. B. S. IIInd term.	51	41	92
II M. B. B. S. Ist term.	8	3	11
I M. B. B. S. IIIrd term.	49	51	100
I M. B. B. S. IIInd term.	—	—	—
I M. B. B. S. Ist term.	43	57	100
I M. B. B. S. Casual.	3	1	4
Total.	292	240	532

Class.	Male	Female	Total.
M. D. (All Branches).	85	83	168
M. S., M. Ch. (All Branches).	89	13	102
University Diploma D. A., D.P.H., DVD, DPM., DMRD, D. F. M.	32	20	52
M.Sc. (Biochemistry) by papers.	4	11	15
M.Sc. by research Biochemistry.	2	1	3
Microbiology.	—	5	5
M.Sc. (Occupational Therapy).	1	6	7
M.Sc. (Physical Therapy).	—	4	4
D. M. L. T.	2	8	10
Ph. D.	3	1	4
D. M. (Gastro.).	1	—	1
<b>Total.</b>	<b>219</b>	<b>152</b>	<b>371</b>

**Notable awards during the year :—**

Name.	Subject.
<b>1. Miss Anju Radheshyam Gupta :</b>	
1. The Dowager Lady Shantabai Sitaram Patkar Gold Medal and Prize.	: Standing first in aggregate.
2. The Lady Reay Silver Medal and Prize.	: —do—
3. The Motiben Bapubai Dalvi Gold Medal and Prize.	: —do—
4. The Bai Hirabai Pestanji Hormasji Cama Gold Medal and Prize.	: Standing first in Obst. & Gynaecology.
5. The Dr. S. R. Moolgavkar Gold Medal.	: Standing first in Surgery.
6. The Pandit Bhagwandin Dube and Mrs. Ramdulhari Dube Scholarship.	: Standing first in aggregate.
7. The Manorama Vijayai Hazrat Scholarship.	: —do—
8. The Dr. Ganesh Madhav Kurulkar Prize.	: —do—
9. The late Smt. Indirabai Anand Telang Prize.	: —do—
10. The Bai Bachubai Ferozeshah Wakil Prize.	: Standing first in Obst. & Gynaecology.
11. The Dr. Shantabai Vora Prize.	: —do—
12. The Scholarship of the Medical women for India Fund.	: Standing first in aggregate.
13. The Dr. Govind Vishnu Juvekar Prize.	: Standing first in Medicine.
14. The Dr. Yeshwant Govind Apte Memorial Prize.	: Standing first in aggregate.
15. The Shri Gordhandas Shankarlal Bhalja, C.I.E., I. C. S. Prize.	: Standing first in Surgery.
16. The Balkrishna Sudamji Prize.	: Standing first in Obst. & Gynaecology.
<b>2. Shri Brian R. Torcato :</b>	
1. The J. G. Lisboa Gold Medal & Prize.	: Standing first in Surgery among male candidates and equal.
<b>3. Shri Shah Tushar Nathurdas :—</b>	
1. Dr. P. F. Soonawala Prize.	: Standing first in Medicine.
2. Dr. R. S. Poredi Gold Medal and Prize.	: —do—
3. Shri Kund Gordhandas Bhalja Prize.	: —do—
4. Dr. Keikushroo Sorabji Kanga Scholarship.	: —do—
5. Dr. Govind Vishnu Juvekar Prize.	: —do—

**37. TOPIWALA NATIONAL MEDICAL COLLEGE LIBRARY :**

The library of T. N. Medical College and B. Y. L. Nair Ch. Hospital is well maintained. This year Library Department has started new unit 'DR. A. V. BALIGA LENDING UNIT' in the month of July, 1986 for the undergraduate students.

Comparative statistical table of various activities at the library is as follows :—

**COLLECTION :**

	<u>1986—87.</u>	<u>1985—86.</u>
<b>A. Books :—</b>		
1. Total No. of books added in the collection of Central Library.	758	792
2. Purchase for Central Library from the Current year grant.	378	589
3. Received as gratis from various sources.	148	110
4. Kept in the library for reference only.	170	309
5. Text books purchase (as new edition published) for undergraduates.	30	88
6. Transferred to various departments for quick reference from separate grant for departments.	206	203
7. No. of books withdrawn from collection as became old edition.	28	90
<b>B. Periodicals :—</b>		
1. Subscribed.	289	242
2. Donated.	80	93
<b>C. Thesis :—</b>		
Added during.	102	97
<b>D. Bound Journals :—</b>		
Added during.	400	200
<b>ACTIVITIES :</b>	<u>1986—87</u>	<u>1985—86</u>
a. No. of books and periodicals issued on premises for reference in the library.	69,003	56,760
b. No. of books, periodicals, issued for home reading.	2,416	3,810
c. No. of thesis referred on premises in the library.	620	653
d. No. of books/periodicals loaned on interlibrary loan to the other libraries.	130	126
e. No. of books/periodicals borrowed on inter library loan.	25	28
f. Back issues of periodicals received from other libraries as gratis.	4	25
g. Back issues of periodicals donated to other libraries from our duplicate collection.	25	400
h. No. of reference used by outsiders.	931	1035
i. No. of reference queries attended by Library Staff/Librarian.	700	500

The library at the end of the year has 32,369 books, 16,479 Bound volumes of Periodicals, 1742 thesis and 1765 teaching slides and one audio cassette.

**38. DEPARTMENT OF HAEMATOLOGY :**

The O. P. D. functions twice a-week on Monday and Friday. 514 new cases were seen in the Haematology Department. The old cases seen during the previous year who required follow-up and treatment have been attending regularly as per appointments. Average No. of patients under treatment care and observations in the hospital were about 20.35 daily throughout the year.

Total No. of New Cases.           ...           514

Total No. of Cases.               ...           3544

The department is conducting anaemia detection and evaluation of anaemia in school girls — four hundred students were during the year 1986.

**39. DR. BHAJEKAR MUNICIPAL HOSPITAL :**

The skin and Ophthalmic Wards are shifted to Dr. Bhajekar Hospital from 1-4-1984 as the Annex Building of Nair Hospital where these wards were housed was to be repaired.

DR. (MRS.) P. M. PAI.

DEAN

B. Y. L. NAIR CH. HOSPITAL &  
T. N. MEDICAL COLLEGE,  
BOMBAY — 8.

## APPENDIX — I

## B. Y. L. NAIR CH. HOSPITAL, BOMBAY—8.

Distribution of beds :—

S. No.	Department.	Male	Female	Children	Total.
1.	Medical.	103	39	—	146
2.	Surgical.	97	35	—	132
3.	Gynaec.	—	39	—	39
4.	Obstetric.	—	54	—	54
5.	Premature.	—	—	6	6
6.	Ophthalmic.	24	12	—	36
	Cataract beds.	6	—	—	6
7.	Paediatric (Including ICU).	—	—	51	51
8.	Skin & V. D.	12	4	—	16
9.	E. N. T.	26	10	—	36
10.	Orthopaedic.	70	12	—	82
11.	Tuberculosis.	19	5	—	24
12.	Psychiatric.	23	23	—	46
13.	Cardiology.	8	3	—	11
14.	I. C. C. U.	6	—	—	6
15.	C. V. T. S.	7	4	—	11
16.	I. C. C. U.	4	—	—	4
17.	Neurology.	15	2	—	17
18.	Neurosurgery.	13	4	—	17
19.	Plastic Surgery.	11	5	—	16
20.	Gastroenterology.	22	3	—	25
21.	Gastro-enterology (S).	3	2	—	5
22.	Haematology.	6	4	—	10
23.	Paediatric Surgery.	—	—	2	2
24.	Renal (Medical).	7	2	—	9
25.	Renal (Surgical).	1	1	—	2
26.	Diabetic.	3	2	—	5
27.	Rheumatology.	3	2	—	5
28.	Genitourinary (S).	2	2	—	4
29.	M. A. C. U.	12	—	—	12
30.	Paying Wards.	10	10	—	20
31.	Isolation Wards.	5	—	—	5
32.	Observation Ward.	8	—	—	8
33.	Artificial Kidney Dept.	2	—	—	2
Total.		532	279	69	870

## APPENDIX—II.

The number of accident cases treated.

Sex.	Treated in Casualty Department.		Admitted through Casualty Department.		
	1985	1986	1985	1986	
Male.	13158	13159	2698	3155	
Female.	2779	2996	899	1016	
Children	Male.	2669	2640	498	609
	Female.	1178	1287	277	337
Total.	19784	20082	4372	5117	

## APPENDIX — III.

Statement showing the details of cost per day per in-patient and out-patient :—

Year.	Diet		Drugs Dressing etc.		Stores and Linen.		Heating Lighting & Repairs.		Establishment.		Total.	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
<b>Indoor :—</b>												
1986	6.41		22.92		6.65		7.25		42.30		85.53	
1985	6.08		22.07		6.00		6.80		39.03		79.98	
<b>Outpatient :—</b>												
1986	—		3.00		2.80		1.05		12.35		19.20	
1985	—		2.66		2.50		0.75		10.65		16.56	

## APPENDIX NO. IV.

Statement showing the Out-patients (New O. P. D., Casualty) in the B. Y. L. Nair Charitable Hospital during the year 1986. Classification according to the Department, Sex and Age.

Department.	O. P. D. New cases.				Total	Casualty Cases.				Total.
	Male	Female	M/ch.	F/ch.		Male	Female	M/ch.	F/ch.	
Medical.	27531	15053	—	—	42584	1123	586	—	—	1709
Surgical.	18162	5656	2516	1386	27720	8995	1705	1755	851	13306
Ophthalmic.	5695	2751	523	404	9373	164	18	13	5	200
Gynaec.	—	6052	—	—	6852	—	36	—	1	37
Skin.	11360	4201	2923	2163	20647	58	1	2	1	62
Aural.	5761	3518	1972	1541	12792	159	26	41	30	256
Orthopaedic.	7215	3715	1013	592	12535	1884	470	464	205	3023
Paediatric.	—	—	10390	8174	18564	—	—	157	109	266
Maternity.	—	4607	—	—	4607	—	4	—	—	4
T. B.	1250	428	—	—	1678	9	—	—	—	9
Cardiology (Med.)	710	355	188	163	1416	1	—	—	—	1
Gastroenterology.	269	125	15	9	418	—	—	—	—	—
Psychiatric.	2243	1049	153	89	3534	55	12	5	1	73
Rheumatic.	125	220	13	3	361	—	—	—	—	—
Neurosurgery.	396	182	67	42	687	28	4	6	2	40
Neurology.	389	203	65	28	685	7	1	—	—	8
Plastic Surgery.	165	97	50	51	363	258	32	57	30	377
G. E. S. S.	17	3	2	—	22	—	—	—	—	—
Renal Surgery.	200	113	11	4	328	2	3	—	—	5
G. U. S. S.	32	7	3	—	42	—	—	—	—	—
Thyroid (Surgery).	35	121	1	1	158	—	1	—	—	1
Anti Rabies.	1099	230	349	222	1900	411	97	139	51	698
New Born.	—	—	665	579	1244	—	—	—	—	—
Special Care.	—	—	35	38	63	—	—	—	—	—
Paediatric Surgery.	—	—	4	4	8	—	—	—	—	—
Diabetes.	91	67	1	—	159	1	—	—	—	1
Haematology.	50	79	33	14	176	—	—	—	—	—
Thoracic Surgery.	—	—	—	—	—	—	—	—	—	—
Asthma.	39	26	—	1	66	—	—	—	—	—
Hypertension.	—	1	—	—	1	—	—	—	—	—
Cardiology (Surgical).	231	138	41	35	445	4	—	1	1	6
Endocrinology.	35	71	5	14	125	—	—	—	—	—
Grant Total	83100	49068	21038	15547	168753	13159	2996	2640	1287	20082



## APPENDIX NO. V.

Summary of In-patient classified according to department and Sex :—

Department.	Sex.	In the hospital on mid-night of 31-12-85	Admitted during the year.	Total	Cured.	Discharged Otherwise.	Deaths.	Remaining in the hospital on mid-night of 31-12-86.
Medical.	Male.	134	4892	5026	2293	2013	608	112
	Female.	78	2529	2607	2031	224	284	68
	Total	212	7421	7633	4324	2237	892	180
Surgical.	Male.	109	6048	6157	3784	2021	238	114
	Female.	39	1799	1838	1203	467	126	42
	Male Child.	9	897	906	623	252	23	8
	Female Child.	6	423	429	375	35	17	2
	Total	163	9167	9330	5985	2775	404	166
Ophthalmic.	Male.	9	496	505	334	157	Nil	14
	Female.	1	295	296	227	59	Nil	10
	Male Child.	—	27	27	19	7	Nil	—
	Female Child.	1	30	31	27	4	Nil	—
Total	11	848	859	607	227	Nil	25	
Gynaec.	Female.	29	2096	2125	1827	272	1	25
	Female Child.	—	—	—	—	—	—	—
Total.	29	2096	2125	1827	272	1	25	
Skin & V. D.	Male.	2	121	123	93	21	—	9
	Female.	—	39	39	23	13	2	1
	Male Child.	—	5	4	1	—	—	—
	Female Child.	—	3	3	2	1	—	—
Total	2	168	170	122	36	2	10	
E. N. T.	Male.	18	1002	1020	924	45	24	27
	Female.	13	683	696	663	18	7	8
	Male Child.	2	310	312	265	44	1	2
	Female Child.	4	227	281	230	50	—	1
Total	37	2272	2309	2082	157	32	38	
Orthopaedic.	Male.	109	1402	1511	698	718	21	74
	Female.	32	429	461	179	245	11	26
	Male Child.	12	308	320	171	140	—	9
	Female Child.	3	133	136	84	49	1	2
Total	156	2272	2428	1132	1152	33	111	
Paediatric.	Male Child.	20	1496	1516	1073	208	218	19
	Female Child.	33	1097	1130	876	83	154	17
Total.	53	2593	2646	1949	289	372	36	
Maternity.	Female.	69	4716	4785	—	4724	8	53
	Total.	69	4716	4785	—	4724	8	53
T. B	Male.	3	321	324	—	313	8	3
	Female.	3	97	100	—	94	5	1
Total	6	418	424	—	407	13	4	
Cardiology.	Male.	9	415	424	—	403	13	8
	Female.	4	203	207	—	179	10	8
	Male Child.	—	165	165	—	157	6	2
	Female Child.	—	109	109	—	108	1	—
Total.	13	892	905	—	857	30	18	

Department.	Sex.	In the hospital on mid-night of 31-12-85	Admitted during the year.	Total	Cured.	Discharged Otherwise.	Deaths. 31-12-86.	Remaining in the hospital on mid-night of
Gastroenterology.	Male.	8	265	273	—	262	6	5
	Female.	3	135	138	—	129	4	5
	Male Child.	—	8	8	—	8	—	—
	Female Child.	—	6	6	—	6	—	—
	Total		11	414	425	—	405	10
Renal.	Male.	3	214	217	—	184	28	5
	Female.	—	139	139	—	125	12	2
	Male Child.	—	6	6	—	6	—	—
	Female Child.	—	2	2	—	2	—	—
	Total.		3	361	364	—	317	40
Cardiac Surgery.	Male.	6	185	191	—	161	20	10
	Female.	10	134	144	—	120	13	11
	Male Child.	2	40	42	—	33	7	2
	Female Child.	—	25	25	—	24	1	—
	Total.		18	284	402	—	338	41
Psychiatric.	Male.	22	888	910	128	782	2	18
	Female.	13	351	364	97	257	1	9
	Male Child.	—	8	8	—	8	—	—
	Female Child.	—	3	3	—	3	—	—
	Total.		35	1250	1285	225	1030	3
Rheumatic & Collagen Disease.	Male.	5	32	37	—	36	—	1
	Female.	—	24	24	—	24	—	—
	Male Child.	—	2	2	—	1	—	1
	Female Child.	—	3	3	—	3	—	—
	Total.		5	61	66	—	64	—
Neurology.	Male.	13	199	212	—	191	9	12
	Female.	6	75	81	—	72	3	6
	Male Child.	1	17	18	—	18	—	—
	Female Child.	—	11	11	—	11	—	—
	Total.		20	302	322	—	292	12
Neurosurgery.	Male.	25	271	296	—	209	70	17
	Female.	5	101	106	—	91	8	7
	Male Child.	3	64	67	—	58	7	4
	Female Child.	3	31	34	—	29	4	1
	Total		36	467	521	—	385	89
Thyroid Surgery.	Male.	—	5	5	—	5	—	—
	Female.	—	—	—	—	—	—	—
	Total.		—	5	5	—	5	—
Plastic Surgery.	Male.	18	283	301	—	288	1	12
	Female.	1	60	61	—	57	—	4
	Male Child.	1	87	88	—	86	—	2
	Female Child.	—	62	62	—	60	1	1
	Total		20	492	512	—	491	2
Gastroenterology Surgical Service.	Male.	3	92	95	—	91	—	4
	Female.	—	21	21	—	21	—	—
	Male Child.	—	4	4	—	4	—	—
	Total		3	117	120	—	116	—

Department.	Sex.	In the hospital on mid-night of 31-12-85	Admitted during the year.	Total	Cured.	Discharged Otherwise.	Deaths. 31-12-86.	Remaining in the hospital on mid-night of
Genito Urinary Surgical Service.	Male.	—	64	64	—	64	—	—
	Female.	—	6	6	—	6	—	—
	Male Child.	—	11	11	—	11	—	—
	Total	—	81	81	—	81	—	—
Diabetes.	Male.	7	116	123	—	113	2	8
	Female.	—	61	61	—	61	—	—
	Total	7	177	184	—	174	2	8
Haematology.	Male.	—	86	86	—	85	1	—
	Female.	—	70	70	—	70	—	—
	Male Child.	—	160	160	—	156	4	—
	Female Child.	—	49	49	—	48	1	—
	Total	—	365	365	—	359	6	—
Asthma.	Male.	—	9	9	—	9	—	—
	Female.	—	6	6	—	6	—	—
	Total	—	15	15	—	15	—	—
Paediatric Surgery.	Male Child.	—	—	—	—	—	—	—
	Female Child.	—	3	3	—	—	3	—
	Total.	—	3	3	—	—	3	—
Grand Total.		909	37357	38266	18253	17208	1992	813

## APPENDIX NO. VI.

## CENTRAL LABORATORIES :

Investigations carried out in the Central Clinical Laboratory during the year 1986 in B. Y. L. Nair Ch. Hospital i.e., from 1st January 1986 to 31st December 1986 :—

## Routine investigations in the Central Laboratory :—

Blood count and Hb.	18423	Urine.	12941
Stool.	6921	Occult Blood.	1386
E. S. R. Tests.	6321	Sputum.	1309
C. S. F. Routine.	1780	Pleural Fluid.	345
Acetic Fluid.	338	Blood Urea.	1110
Blood Sugar.	1816	Throat Swab.	142
Blood Malarial Parasites.	657	Blood Serum Billirubin.	90

Collection of Material (Blood) : Total 53578

## Collection of Material (Blood) :—

Blood Urea.	3061	Blood Sugar.	21008
Blood for P. P. Sugar.	1680	Blood for R. A. tests.	303
Blood Serum Cholesterol.	673	Blood Uric Acid.	188
Blood Serum Protein.	292	Blood Serum Calcium.	202
Blood L. F. T. Tests.	287	Blood V. D. R. L. Tests.	1415
Blood Serum Alkaline Phosphatas.	230	S. G. O. T. & S. G. P. T.	378
Blood Widal Tests.	215	Blood Serum Creatinine Tests.	1845
Blood Serum Electrolytes.	851	Blood Serum Billirubin.	164

Total 32792

## INVESTIGATIONS DEPARTMENT WISE

### 1. (1) DEPARTMENT OF PATHOLOGY. SURGICAL HISTOPATHOLOGY SECTION :—

1. Surgical tissue received.	4295
2. E. N. T. Tissue.	605
3. Santacruz Hospital.	550
4. Total Nos. of Blocks prepared).	8920

#### Details of surgical slides prepared.

1. Surgical Slides.	9056
2. E. N. T. D. Department.	1200
3. Santacruz Hospital.	1020
4. Skin Department.	202
5. Medicine Department.	84
6. G. E. Department.	183
7. Practical Class.	200
8. Slides for meeting.	350
9. Request from staff.	384
10. Duplicate Slides.	1052
11. Special Stains.	600
12. Tata Hospital.	136
13. P. G. Student.	750
14. Frozen Section (23).	115
<b>Total</b>	<b>15160</b>

### CYTOLOGY

#### Total Number of Cytology done :—

1. Samples received or cytological examination.	959
2. Cytology slides.	3793
3. Cytology Blocks prepared.	293
4. Aspiration done.	489
5. Fluids received.	470

#### Fluids :—

1. Ascitic Fluids.	147
2. Pleural fluids.	73
3. Sputum.	95
4. Bronochial.	64
5. Urines and C. S. F.	42
6. Ovarian Cystic fluid.	5
7. Dr. Vengsarkar Unit — Neurological cystic fluids.	14
8. Miscellaneous fluids.	17

#### Aspirations :—

1. Thyroid.	187
2. Breast.	81
3. Lymph node.	166
4. Miscellaneous.	55

## HAEMATOLOGY SECTION.

The following are the various investigations done in Haematology (Path.) during 1st January 1986 to 31st December 1986 :—

1. Complete haemogram.	6872
2. Hb, B. T., C. T.	1200
3. Platelet Counts.	1750
4. Retic Counts.	1380
5. Malarial parasite.	800
6. Bone-Marrow slides.	109
7. E. S. R.	120
8. L. E. Cells.	100
9. G6 P. D.	24
10. Filarial Parasite.	24
11. Sickle Cells.	8
12. Osmotic fragility.	4
<b>Total</b>	<b>12491</b>

Though 3,500 appt. were given for CHG S work load increased upto 6872.

## CHEMICAL PATHOLOGY.

Blood Sugar.	34671	G. T. C.	13
Blood Urea.	24494	Creatinine.	18210
Creatinine Clearance test.	6	Uric acid.	1474
Fibrinogen.	313	Total Protein.	9385
Total Albumin.	9385	Total Globulin.	9385
Alk. Phosphatase.	6404	Vanden Bergh.	4848
I. Index.	4848	Bilirubin Total.	3574
Bilirubin Direct.	3574	S. G. O. T.	7453
S. G. P. T.	7453	P. T. P. I.	2708
Inorg. Phosphate.	1465	Acid Phosphate.	166
S. Amylase.	746	S. Cholesterol.	5014
C. S. F. Sugar.	1627	C. S. F. Chloride.	1627
Urobilinogen (Urine).	13	Porphyrinogen (Urine).	14
Total lipid.	124	Trygliceriod.	124
Phospho Lipid.	124	S. L. D. H.	814
Serum Na.	33069	Serum K.	23069
Serum Cl.	33069	Serum Ca.	3059
Urine Proteins.	16	Urine Creatinine.	16
Urine Na.	130	Sweat Na.	4
Sweat K.	4	V. M. A.	9
B. J. Protein.	3	Spectroscopy.	11
Blood Gas.	4372	Lithium.	290
Urine Ca.	60	Urine Phosphate.	60
Sweat Cl.	4		
		<b>Total</b>	<b>269561</b>

### P. M. HISTOPATHOLOGY SECTION.

Investigations carried out in the year 1986 (January 1986 to December 1986) in Department of P. M. Histopathology :—

Total No. of autopsies.	994
P. M. Blocks prepared and cut.	10326
P. M. Routine slides prepared.	10326
<b>Record of the slides prepared :—</b>	
1. Routine staining slides.	10326
2. Special stains.	4005
3. Slides for class (Practical).	102
4. Recut slides.	1208
5. Slides prepared for post graduate students.	1480.

### 2. DEPARTMENT OF MICROBIOLOGY :

Clot culture.	1150	Blood culture.	642
Urine.	4418	Sputum AFB.	2169
Sputum Culture.	1332	Pus & Aspiration.	1220
C. S. F.	1531	Ascitic Fluid.	238
Pleural Fluid.	243	Pericardial Fluid.	11
Peritoneal Fluid.	37	Bronchial Aspiration.	84
Liver Aspiration.	6	Knee Aspiration.	19
Synovial Fluid.	4	Dialysis Fluid.	8
Hydrocele Fluid.	—	Umbilical Swab.	—
Throat Swab.	150	Nasal Swab.	8
Ear Swab.	98	Conjunctival Swab.	67
Brain Swab.	10	Ulcer Swab.	15
Vaginal Swab/Cervical Swab.	36	Urethral Swab Semen.	18
Tracheal Swab.	124	Endometrium.	74
Bile.	52	Stool.	140
Tissue.	—	Eye Swab.	4
Gastic Aspiration.	33	Lymphnode.	5
C. V. P. & Catheter tip.	73	Tympanic membrane scraping.	—
Anaerobic Culture.	1098	Tuberculosis Test.	1135
Sensitivity Test.	3120	Post mortem miscellaneous.	62
Post mortem blood culture.	95	O. T. Swabs for sterility.	406
Fungal culture.	261		
		<b>Total</b>	<b>20192</b>

### MYCOLOGY SECTION.

C. S. F.	28	Sputum.	33
Urine.	140	Stool.	15
Swabs.	57	Fluids.	16
Miscellaneous.	6		
		<b>Total</b>	<b>295</b>

### FOOD HANDLERS' SCHEME.

1. Total No. of food handlers examined.	1037
2. Total No. of food handlers' stool examined.	1037
3. Total No. of repeat stool examined.	12
4. Total No. of food handlers' urine examined.	1037
5. No. of widal test carried out.	1037
6. No. of widal repeated.	—
7. Total No. of stool culture for Salmonella.	NIL
8. No. of stool culture +ve for Salmonella.	NIL

## SEROLOGY SECTION.

Blood V. D. R. L.	9120	C. S. F. V. D. R. L.	533
Widal Test.	1139	R. A. Test.	435
A. S. O. Titre Test.	214	Paul Bunnel Test.	018
Aldehyde Test.	4		

Total	11463
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+ No. of widal of Food Handlers' Scheme (Widal test).

1238
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Grand Total.	12701
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## 3. DEPARTMENT OF PHARMACOLOGY :

Investigations carried out in Radiosotope Unit from 1-1-1986 to 31-12-1986.

## 3. Department of Pharmacology.

Investigations carried out in Radiosotope Unit from 1-1-1986 to 31-12-1986.

Bone Scan.	97	Brain Scan.	123
Cardiac Studies.	56	Gastro-Intestinal Studies.	3
Liver Scan.	558	Parotid Gland Scan.	6
Testicular Scan.	1	Renal Studies.	162
Thyroid Scan.	410	Serum — T3 levels.	896
Serum — T4 levels.	896	Serum — TSH levels.	393

## 4. Blood Bank.

## 1. Blood collection : Total — 7842.

Voluntary (Indoor, Outdoor)	4890	Replacement.	1604
Bottles brought from other hospital.	1348	No. of Out-door session.	80

## 2. Blood Utilisation :

Transfusions given to Nair Hospital patients.	5949
No. of blood bottles used for Nair Hospital patients.	7592
No. of blood bottles given to other hospitals.	722
No. of blood bottles sent or Plasma to Haffkine.	214
No. of blood bottles discarded.	168

**3. Blood components prepared :**

Packed Cells.	1222	Saline Washed pack cells.	26
Pooled Plasma.	373	Plateletes.	11
Buffy Coat.	3	Fresh Frozen Plasma.	442
Cryoprecipitates.	—	Pheresis Packs.	6

**4. Pretransfusion tests done in Donor Samples :**

Grouping.	7842
Antibody Screening — Total No. tested.	7842
— Irregular antibodies detected.	28
Hepatitis Screening — Total tested.	4890
— HBS Ag positive.	124
— HBS Ag negative.	4766
V. D. R. L. Screening Total.	4890
— Positive.	13
— Negative.	4877
Low titre Screening done (Arch).	855
High titre found.	—

**5. Pretransfusion tests done in patients :—**

Routine grouping.	579
Grouping with Cross matching.	4334
Antobody detection.	4334
Irregular antibodies deted.	40
Compatibility tests done.	12271
Hepatitis Screening in Patients :	
a. Undergoing cardiac surgery & multiple transfusion.	35(7)
b. HBS ag test referred from AKD & Other patients.	119(14)

**6. Antenetal Serology :**

Grouping.	3292
Antibody detection.	71
Card blood grouping.	3310
M. T. P. Grouping.	

245

**7. Miscellenous Investigations :**

Coomb's tests (Direct).	110(17)
Indirect Coomb's tests.	1481(26)

**8. Preparation of reagents :**

Cooper Sulphate.	50 lts.
Papain Cystein.	2250 ml.
Normal Saline.	150 lts.



## 5. Haematology Department.

Complete Hemogram.	3579	Haemoglobin.	3544
R. B. C.	3579	Blood P. C. V.	3579
M. C. V.	3579	M. C. H. C.	3579
M. C. H.	3579	W. B. C. (Total).	3579
W. B. C. (Diff.).	3579	Periparal Smear.	3579
Blood Reticulocytes.	3579	Platelet Count.	3579
E. S. R.	1186	LE Cell.	4
Serum Iron.	565	Total Iron Binding Capacity.	565
T. S.	565	Serum Ferritin.	—
Serum Vit. B12.	—	Serum Folate.	—
Foetal Hemoglobin.	119	Foetal Red Cell Staining.	119
Fregility.	—	32HB Electrophoresis.	200
		Cellogel on computerised	
		Densitometer.	200
Immunoglobulin.	36	Sickle Cell Test.	200
Bleeding Time.	200	Clotting Time.	200
Clot Retracted.	200	Prothrombin Time.	200
Deficiency of Factor II, V, VII & X.	—	Prothrombin Consumption Test.	200
Thromboplastin Generation	—	Factor VIII Assay.	30
Test.	30		
Factor IX Assay.	30	Serial Thrombin Time.	116
Euglobulin Clot Lysis time.	—	Plasma Recalcification Time.	—
Partial Thromboplastin	200	Fibrinogen.	10
Time with Kaolin.	—		
Fibrin Monomer.	—	Fibrin Split Product.	—
Assay of Prothrombin.	—	Assay of Factor V.	—
Assay of Heparin in Plasma.	—	Lysis of Fibrin Plates.	—
Paracoagulation test.	—	Platelet Aggregation Test	
Ethanol gel Test.	—	on Aggregometer.	126
Platelet Factor 3	—	Platelet Factor IV.	—
availability test.	—		
Gutathion (GSH) (Concentra-	—	Glucose — 6 — Phosphate	20
tion & Stability test.).	—	Dehydrogenase by	
		Dehydrogenase by	
		Decolourisation test.	
6 — Phosphogluconic	—	Pyryvate Kinase Assay.	—
Dehydrogenase Assay.	—		
Bone Marrow.	293	Bone Marrow Iron staining.	293
Paroxidase Staining.	100	Pyelgen Staining.	—
Heins Body Test.	—	Unstable Haemoglobin.	6
Urine Urobilinogen.	20	Hb Spectroscopy.	2
Methalmoglobin Test.	—	Sucrose Lysis.	12
P. N. H.	12	Material Parasite Positive.	10

53074

## 6. FORENSIC MEDICINE DEPARTMENT.

Investigations carried out in the year 1986 (January 1986 to December 1986) in Department of Forensic Medicine :—

Total No. of Medico-legal Autopsies.	364
Post-mortem blocks prepared and cut.	1820
Post-mortem routine slides prepared.	1820
Record of the slides prepared :—	
Routine staining slides.	1820

**APPENDIX NO. : VII.**  
**RADIOLOGY DEPARTMENT :**

Sr. No	Investigations carried out.	Total No. of Patients.
I.	<b>Respiratory System :</b>	
	1. Bronchogram.	47
II.	<b>Cardio-Vascular System :</b>	
	2. Aortogram.	28
	3. Carotid Angiogram.	108
	4. Renal Angiogram.	21
	5. Femoral Angiogram.	14
	6. Trans-Lumber Aortogram.	2
	7. Venogram.	37
	8. Selective Angiogram.	1
III.	<b>Gastro — Intestinal System :</b>	
	9. Sialography.	22
	10. Barium Swallow.	228
	11. Barium Meal.	718
	12. Barium Enema.	179
	13. Oral Cholecystogram.	78
	14. I. V. Cholangiogram.	4
	15. T. Tube Cholangiogram.	7
	16. Porto-venogram (Spleenogram).	20
	17. P. T. D.	38
IV.	<b>Genetic Urinary System :</b>	
	18. I. V. P.	629
	19. Ascending Pyelography.	53
	20. Cysto Urethrogram.	48
	21. Ascending Urothrogram.	10
	22. Mict. Cystourethrogram.	101
	23. Nephrostomy tube study.	7
V.	<b>C. N. S. :</b>	
	24. Conray Ventric.	1
	25. Myelogram.	145
VI.	<b>Obstetrics &amp; Gynaec. :</b>	
	26. Hystero-salpingogram.	119
VII.	<b>Miscellaneous :</b>	
	27. Fistulogram.	4
	28. Sinusogram.	12
	29. Cavitogram.	7
	30. Tubogram.	17
	31. SVC gram.	1
	32. Invertogram.	2
VIII.	33. Ultrasonography.	4536
	34. E. R. C. P.	92
	35. Routine X-ray investigations.	63670
<b>Total No. of patients X-rayed during the year.</b>		<b>66470</b>
<b>Total No. of X-ray plates used during the year.</b>		<b>119867</b>

Investigation carried out for Orthopaedic work at Kasturba Hospital :—

1.	Total No. of patients X-rayed during the year.	3707
2.	Total No. of X-ray plates used during the year.	7740
3.	Total investigations (Procedures) :	
	1. Myelogram.	1
	2. S. P. Pin.	98

**APPENDIX NO. : VIII. (Cond.)  
LIST OF RESERACH WORK.**

Doctor.	Subject.
Dr. E. J. DeSouza.	<p><b>DEPARTMENT OF ANATOMY.</b>            Special Exfoliative cytology including the use of Tetracycline Fluorescence for exclusion of malignancy.            Developing a histological stain from plant extracts.            Use of calcium hydroxide as a stimulator for the bone.            Study of G. G. T. in colonic tissue of Human bodies.</p>
	<p><b>DEPARTMENT OF BIOCHEMISTRY.</b>  <b>COMPLETED :</b>            Immunologic aspects of andrology.</p>
	<p><b>Research work in progress.</b>            Biochemical studies in Schizophrenia.            Thyroid function tests and their relevance in thyroid disease and disorders.</p>
	<p><b>CARDIOVASCULAR &amp; THORACIC SURGERY.</b>            Local manufacture of Cardioplegia Cooling Unit.            Procurement and mounting of aortic homograft valves.            Stroma free haemoglobin for myocardial preservation.</p>
	<p><b>DEPARTMENT OF DERMATOLOGY &amp; VENEREOLOGY.</b>            Gonococcal cultures, Auxotyping &amp; Antibiotic Sensitivity.            Fungal Cultures.            Alopecia Areata — therapeutic study with DNCB.            Therapeutic study with Aclsmethesone in chronic lichenified eczemas.            Therapeutic study of fluorinated steroids on steroid responsive dermatosis.</p>
	<p><b>ENDOCRINOLOGY DEPARTMENT :</b>            Phase — I Clinical trials of B-HCG Vaccine and its different conjugates.            Immunological studies in male infertility.            Chromosomal studies in genetic disorders, development and standardization of Karyotyping of peripheral Lymphocytes,            Fluorescence of Y bodies in oral Smears and banding techniques on Chromosomes.            Evaluation of different buffer media for improving sperm motility and seperation of X &amp; Y sperms for artificial insemination.            Evaluation of treatment with pure FSH VS. Combination of FSH + LH in relation to ovarian follicular Maturation and Ovulation.            Evaluation of special tests for diagnosis and recording the incidence of congenital adrenal hyperplasia among hirsute women.</p>
	<p><b>DEPARTMENT OF GYNAEC. &amp; OBST.</b>  <b>On going :—</b></p>
	<p>Further experience with Quinacrine Hydrochloride Pellets on Fallopian tubes.            Genital tuberculosis in females.            A study of uterine metrology.</p>
	<p>Dr. (Mrs.) Rohinee Merchant.</p>

**APPENDIX NO. : VIII. (Cond.)  
LIST OF RESERACH WORK.**

Doctor.	Subject.
	<p><b>DIABETES CLINIC :</b> Glycosylated Hb studies. H L A studies for diabetes patients.</p>
	<p><b>MICROBIOLOGY DEPARTMENT.</b> A study of the microbiota in children. A study of the intestinal flora with special reference to gram negative organisms in seronegative spondyloarthropathies. Immunoglobulin levels and C-reactive protein in seronegative spondyloarthropathies. The value of blood culture in pyrexia patients admitted to the infectious diseases hospital. Antibiotic sensitivity patterns of <i>N. gonorrhoeae</i> with special reference to treatment failure cases and Beta-lactamase production. A study of sensitivity of <i>N. gonorrhoeae</i> to Rifampacin. Auxotyping of the strains of <i>N. gonorrhoeae</i> (typing the strains according to the nutritional requirements). Bacteriological study of neonatal conjunctivitis with special reference to treatment with colostrum. Bacteriological study of pyogenic meningitis. In vitro susceptibility testing of zinc sulphadiazine against bacterial isolates. In vitro susceptibility testing of zinc sulphadiazine against bacterial isolates. Clinical and microbiological evaluation of cefuroxime in surgical and paediatric cases (infections). Estimation of CRP and ASL in cases of acute pharyngitis. Hepatitis B antigen in hospital employees. Comparative study of detection of HbSAG in patients and hospital employees. Antibody response to Hepatitis B vaccine by intradermal injection.</p>
Dr. Derick F. De'Lima.	<p><b>DEPARTMENT OF ORTHOPAEDIC.</b> 'LOLO' peridural needle for equidural Anaesthesia presently undergoing clinical trials at LTMG hospital. Pulsed Electro Magnetic field Bone Stimulator for nonunion of long bones. Trans cutaneous Electrical Nerve stimulator for pain relief. 'DELTA' POLYAXIAL UNIVERSAL EXTERNAL BONE FIXATOR for use in high velocity injuries. Chemical Application of A.A.A. Bone (Antigen extracted, alloimplant).</p>
Dr. D. D. Tanna. Dr. D. F. De'Lima.	
Dr. Daksha D. Pandit. Dr. N. P. Pai. Mr. Jain. Dr. R. Y. Aras. Dr. N. P. Pai.	<p><b>PREVENTIVE &amp; SOCIAL MEDICINE DEPARTMENT.</b> Critical evaluation of services rendered by an Urban Health Centre.</p> <p>An Epidemiological study of teenage pregnancy in lower socio-economic group. Evaluation of Antenatal Care Programme at Deonar Urban Health Centre. Teenage-Biological risk factor pregnancy and low birth wt. babies.—Evaluation. Fertility Patterns — in Shivaji Nagar Community.</p>

**APPENDIX NO. : VIII. (Cond.)  
LIST OF RESERACH WORK.**

Doctor.	Subject.
DR. (Smt.) V. G. Parulkar. Dr. A. Malathi.	<p><b>PLASTIC SURGERY DEPARTMENT.</b> Microvascular Techniques in rat models and its clinical application.</p> <p><b>PHYSIOLOGY DEPARTMENT.</b> Collaborative project with the department of Psychiatry : Reaction Time study in Schizopherincs.</p> <p>Study of Reaction Time in Hemiplegics. Effecto of yogas on Reaction time.</p>
	<p><b>DEPARTMENT OF PSYCHIATRY.</b> Comparative study of Nitroxazepine and Dothepin in Depression. Project '207-Establishment of the norms on SPM for Municipal and Private School Children of Bombay. Clinical profile of Gard Addicts. Reaction Time in Schizophrenia and acute psychoses. Propranolol in negative features of Schizophrenia — A pilot study.</p>
	<p><b>DEPARTMENT OF RESPIRATORY DISEASES.</b> Study of Cervical Lymphadenities, including lymph node culture study. - Short-term Chemotherapy Trial involving the use of RIF + INH + PZA in sterilisation phase and INH + Thincetazone in the continuation phase. Fate of Refusal for Surgery for Pulmonary Tuberculosis. Prevalence of Diabetes among pulmonary tuberculosis patients.</p>
	<p><b>HAEMATOLOGY DEPARTMENT.</b></p> <p>Increase Iron absorption in New Iron preparation — A clinical trial (Sidmak).</p> <p>Effect of Dialazep and Dipyridamole on Platelet Aggregation in patients with ischemic heart disease.</p>
	<p><b>PHYSIOTHERAPY DEPARTMENT.</b></p> <p>Perception tests for haiplegics have been done to insure rehabilitation technique.</p> <p>Integrated activity of diaphragm.</p> <p>Constant current in hyperhydrosis.</p> <p>Somato sensory evoke potentials.</p>

## APPENDIX NO. : IX.

List of Publication and Papers read :—

Doctor	Subject	Particulars where published
<b>PATHOLOGY DEPARTMENT.</b>		
Dr. Wilson Menezes Dr. J. D. Rege Dr. A. M. Phatak Dr. S. R. Prabhu	Fine needle Aspiration Biopsy in diagnosis of Lymphadenopathies.	At 8th IAPM Maharashtra Chapter Conference, Nasik, September 1986.
Dr. J. D. Rege Dr. L. D. Agre Dr. S. R. Prabhu Dr. D. R. Trivedi	Fine needle aspiration cytology in Palpable breast lumps.	At Teaching Pathologists Conference, Bombay in September 1986.
Dr. J. D. Rege Dr. A. M. Phatak Dr. A. A. Chandorkar. Dr. Leena Agre	Cold thyroid nodules and aspiration biopsy cytology.	At 35th Annual Conference of IAPM at Banglore, December 1986.
Dr. J. D. Rege Dr. A. M. Phatak Dr. Arun Chitale	Granulolythi sancoma- Report of 3 Cases.	Poster Session in 35th Annual Conference at Bangalora, December 1986.
Dr. S. R. Prabhu Dr. G. S. Nichanki Dr. J. D. Rege	Tuberculous Splenomegaly.	At 35th Annual Conference of IAPM at Banglore, December 1986.
Dr. B. M. Kandalkar Dr. A. M. Phatak Dr. J. V. Mandke Dr. Hasan Shah.	A review of cases of Hepaliblastoma over the year (20 years) 1965-85.	At 35th Annual Conference of IAMP Bangalora, December 1986.
Dr. K. K. Patel Dr. S. R. Prabhu	Etiopathological study of obstructive jaundice a 5 years study.	
Dr. L. Nazareth Dr. S. R. Prabhu	Secondary tumors of central nervous sytem.	
Dr. A. M. Phatak Dr. B. M. Kandalkar	Clinico Pathological Study of 17 cases of Wilms' tumor.	
<b>HAEMATOLOGY DEPARTMENT.</b>		
Mr. P. R. Pangaum	Use of Automated Blood cell counter.	Given a demonstration.
Dr. A. J. Desai.	DF and MCV/RBC in thalassemia minor and iron defecency anaemia — A study using auto- mated blood cell counter.	Annual Conference of A.P.I. at Banglore.
	Sickle Cell Thalassemia a clinical and laboratory observation.	

**APPENDIX NO. : IX. (Cont.)**  
List of Publication and Papers read :—

Doctor	Subject	Particulars where published
Dr. A. J. Desai Dr. A. G. Bhagwat Dr. S. K. Bichile Dr. A. R. Nath Dr. N. B. Mehta Dr. P. B. Bhandarkar	Primary Cervical Cord Lymphoma- A case study & review.	Xth Annual Conference of Bombay Haematology Group.
Dr. A. J. Desai Dr. N. B. Mehta	Platelet Aggregation Test differentiate Leukemoid reactions from Myeloproliferative disorders.	Xth Annual Conference of Bombay Haematology Group.
Dr. A. J. Desai Dr. S. K. Bichile Dr. N. S. Mehta Dr. A. R. Nath	Iron deficiency in Thalassaemia Carriers.	Xth Annual Conference of Bombay Haematology Group.
Dr. A. J. Desai	Structural Abnormalities of Hemoglobins.	Xth Annual Conference of Bombay Haematology Group.
	Anaemia — an approach to Diagnosis.	Delivered a lecture — Full time Post Graduate Teaching Course — organised by Bombay Haematology Group.
	Collection of blood and thromboplastin generation test techniques.	Given demonstration — Full Time Post Graduate Teaching Course — organised by Bombay Haematology Group.
Dr. N. B. Mehta	Qualitative Platelet disorders.	Delivered a lecture — Full Time Post Graduate Teaching Course — organised by Bombay Haematology Group.
	Hemoglobin Electrophoresis.	Given a demonstration — Full Time Post Graduate Teaching Course — organised by Bombay Haematology Group.
	Collection of blood for coagulation tests and the screening coagulation techniques.	Given a demonstration — Full Time Post Graduate teaching Course — organised by Bombay Haematology Group.
	Platelet rich plasma and platelet aggregation tests.	Given a demonstration — Full Time Post Graduate Teaching Course — organised by Bombay Haematology Group.
Dr. S. K. Bichile	Myelodysplastic Syndrome.	Delivered a lecture — Full Time Post Graduate Teaching Course — organised by Bombay Haematology Group.

**APPENDIX NO. : IX. (Cond.)**

List of Publication and Papers read :—

Doctor	Subject	Particulars where published
Dr. A. R. Nath	Aplastic Anaemia.	Delivered a lecture — Full Time Post Graduate Teaching Course — organised by Bombay Haematology Group.
	Platelet light Microscope.	Given demonstration — Full Time Post Graduate Teaching Course — organised by Bombay Haematology Group.
Dr. S. K. Bichile	Management of Thalassemia Syndrome.	Delivered a lecture — Full Time Post Graduate Teaching Course — organised by Bombay Haematology Group.
<b>DEPARTMENT OF ANAESTHESIA.</b>		
Dr. V. M. Divekar	Pollution in Operation Theatres.	At Annual Conference of Delhi Anaesthetist Society — 16-1-1986 (Guest Lecture).
	Neuro-Anaesthesia.	At Workshop on Advancement of Neurosciences, NIMHANS, Bangalore.
	Anaesthetic Emergencies.	At Balgaum I. S. A. meeting May 1986 (Guest Lecture).
		Address to Anaesthetists At Sangli-miraj, June 1986 (Guest Lecture).
	Anaesthetic Emergencies.	At I. S. A. meeting Vishakhapatnam (Guest Lecture).
	Pollution in operation theatres.	At I. S. A. meeting Hyderabad (Guest lecture).
		Address to annual conference M. P. Branch of I. S. A. at Indore, Oct. 1986.
	Address to Indian Society of Anaesthetists, Bangalore.	
	Address to Annual conference Kerala Branch I. S. A. Nov. 1986.	
	Address and Guest lecture on Paediatric Circuits at the Silver Jubilee of King George Medical College, Lucknow.	



**APPENDIX NO. : IX. (Cond.)**  
List of Publication and Papers read :—

Doctor	Subject	Particulars where published
	Patient Transport system in Bombay,	Lecture at the National Conference on critical care 21st Dec. 1986, New Delhi.  Presided over and chaired the Pre-conference C. M. E. programme at Vishakhapatnam, 26th Dec. 1986.  Presidential address, annual conference of Indian Society of Anaesthetists, Vishakhapatnam, 27th Dec. 1986.
Dr. V. M. Divekar	Use in High Risk Surgery.	Symposium on Muscle Relaxants — Vishakhapatnam, Dec. 1986.  Chairman — Annual oration 1986, Vishakhapatnam.
Dr. V. M. Divekar Dr. V. H. Bhagatwala	Serum Cholinesterase in infective hepatitis.	Dec. 1986, Vishakhapatnam.
Dr. V. H. Bhagatwala Dr. V. M. Divekar	Carticaine a new spinal anesthetic.	Dec. 1986, Vishakhapatnam.
Dr. N. Bakhai Dr. V. M. Divekar	Sublingual Norphine in post operative pain.	Vishakhapatna, Dec. 1986.
	Acute Resp. Care.	Symposium at B. Y. L. Nair Ch. Hospital, Oct. 1986.
Dr. V. M. Divekar	Serum cholinesterase in infective Hospitals.	Attended the 7th Asian Australasian Congress of Anaesthesiologists at Hongkong, Sept. 1986 — invited as Chairman for the session on Bio-chemical Aspects.
Dr. V. M. Divekar.	Anaesthesia in Temporomandibular Ankylosis.	Satellite symposium in Beijing China.
	Hypertensive Crisis and C. C. F.	Technology Transfer Programme — Indian Society of Oncology — 21st Feb. — Tata Memorial Hospital.
Dr. R. J. Samtani Dr. I. D. Panchal Dr. V. M. Divekar	Lignocaine and Bupivacaine mixture for subarachnoid block.	Ind. J. Anaesth. 1986 34, 15.
Dr. V. M. Divekar Dr. H. I. Panchal. Dr. M. S. Kothari	Etomidate in E. C. T.'s.	Ind. J. Anaesth. 33, I, 53-56.

**APPENDIX NO. : IX. (Cond.)**  
List of Publication and Papers read :—

Doctor	Subject	Particulars where published
<b>ASTHMA AND OBSTRUCTIVE AIRWAY DISEASES CLINIC.</b>		
Dr. A. J. Pai-Dhungat.		Participated in a seminar on Advances in pulmonary Medicine on 7-7-1986 at Jaslok Hospital. She Spoke on EIA bronchial provokation tests.
	Immunological and allergic aspects of lung diseases.	Delivered a lecture — in the programmed sponsored by the American College of Chest Physician at the B. Y. L. Nair Ch. Hsopital.
	Bronochial provokation tests.	At sea Rock Hotel on 7-12-1986.
<b>HYPERTENSION CLINIC.</b>		
Dr. P. J. Mehta	Effects of Nife-depine on the control of moderate and severe hypertension, blood lipid profile and pulmonary functions.	Joint Annual Conference of Association of Physicinas of India held in February 1987.
<b>CARDIOVASCULAR AND THORACIC SURGERY.</b>		
	Long Term experience with the Bjork Shilety Valve.	At the Joint Conference of the CSI & ATCVSI.
Prsented by the Department	Open Mitral Commisurotomy in a case of failed ballon Valvotomy.	At the Joint Conference of the CSI AND ATCVSI.
	Experience in the use of Blood Cardioplegia.	At the Joint Conference of the CSI & ATCVSI.
Dr. J. N. Karbhase	Re-do Aortic Valve Surgery.	Indian Journal of Cardiovascular and Thoracic Surgery.
Dr. R. B. Patil	An unusual complication following modified left B. T. Shunt.	
<b>DEPARTMENT OF CARDIOLOGY.</b>		
Dr. D. F. Daruwala Dr. A. G. Desai Dr. S. Sharma Dr. M. R. Mashru Dr. R. C. Hansoti	Ascending aorta aneurysm in isolated right aortic arch.	Clinical Cardiol. 9, 581-582, 1986.
Dr. K. G. Naik Dr. S. Sharna	Rheumatic heart disease.	Chapter in International Text Book of Cardiology (Pergamon Press, U.S.A., 1986).

## APPENDIX NO. : IX. (Cond.)

List of Publication and Papers read :—

Doctor	Subject	Particulars where published
Dr. S. Sharma Dr. A. G. Desai Dr. S. S. Bhattacharya	Cross sectional echocardiographic recognition of submitral left ventricular aneurysm.	Int. J. Cardiol. 11, 1987.
Dr. R. C. Hansoti Dr. S. Sharma	Cirrhosis of liver masquerading as congenital cyanotic heart disease.	J AM Coll Cardiol.
Dr. B. J. Pandey Dr. S. Sharma	Myocardial infarction during first trimester in a young lady with secundum atrial septal defect.	Clinical Cardiol.
Dr. S. Sharma Dr. B. J. Pandey	Myocardial infarction possibly induced by oral ergot alkaloids in a patient with angiographically normal coronary arteries.	Clinical Cardiol.
Dr. S. Sharma	New inotropic drugs.	Drugs and therapeutics 1; 15-18, 1986.
Dr. J. A. Lalkaka DR. S. Sharma	Unusual electro-diographic findings in a case of hypertrophic cardio-myopathy.	Indian Heart J 38; 230-232 : 1986.
Dr. S. Sharma Dr. S. P. Baliga Dr. B. J. Pandey Dr. B. J. Pandey	Cross sectional echocardiography in recognition of left ventricular aneurysm following closed mitral valvotomy	Indian Heart J 38 : 192-194, 1986
Dr. B. R. Kalke		
Dr. B. J. Pandey Dr. S. Sharma	Profile of patients with myocardial infarction and normal coronary arteries.	Indian Heart J 38, 88-91, 1986.
Dr. B. J. Pandey Dr. A. G. Desai Dr. S. Sharma	Cross sectional echocardiographic recognition of left ventricular inflow involvement in hypertrophic cardiomyopathy.	Indian Heart J.
Dr. S. Sharma	Electrocardiographic diagnosis.	Applied Medicine 12; 763 : 1986.
Dr. B. V. Pinto Dr. M. R. Mashru Dr. A. G. Desai Dr. S. Sharma	Congenital pulmonary arteriovenous fistula with rheumatic mitral stenosis. — A rare Association.	Indian Heart J.
Dr. S. Sharma Dr. S. Vaidya	Utility of echocardiography in diagnosis of ventricular septal rupture following electrocardiographically silent myocardial infarction.	Indian Heart J.

**APPENDIX NO. : IX. (Cond.)**

List of Publication and Papers read :—

Doctor	Subject	Particulars where published
Dr. S. Sharma. Dr. M. R. Mashru Dr. D. P. Turakhia Dr. S. K. Rane Dr. B. V. Pinto.	Echocardiography in diagnosis of fixed subaortic obstruction with cineangiographic correlates.	Joint Annual Conference of Cardiological Society of India (CSI) and Association of Thoracic Surgeons of India (CSI), Srinagar, 1986 (Abstracts), Indian Heart J. 38, 291 : 1986.
Dr. S. Sharma Dr. A. G. Desai Dr. S. S. Bhattacharya.	Cross—Sectional echocardiographic recognition of submitral left ventricular aneurysm.	Joint Annual Conference of Cardiological Society of India (CSI) and Association of India (TSI), Srinagar, 1986 (Abstracts Indian Heart J 38; 291 : 1986.
Dr. R. Parthasarathy Dr. M. R. Mashru Dr. D. P. Turakhia Dr. B. V. Pinto Dr. U. J. Shah Dr. S. Sharma	Absent pulmonary artery.	Joint Annual Conference of Cardiological Society of India (CSI) and Association of Thoracic Surgeons of India (TSI), Srinagar, 1986. (Abstracts) Indian Heart J 38; 253 : 1986.
Dr. D. P. Turakhia Dr. S. S. Vaidya Dr. M. R. Mashru Dr. B. V. Pinto Dr. C. V. Shah Dr. K. D. Shah Dr. S. Sharma	Cineangiographic profile of TOF.	Joint Annual Conference of Cardiological Society of India (CSI) and Association of Thoracic Surgeons of India (CSI), Srinagar, 1986. (Abstracts) Indian Heart J 38; 253 : 1986.
Dr. B. V. Pinto Dr. M. R. Mashru Dr. K. D. Shah Dr. S. Sharma Dr. C. V. Shah.	Spectrum of corrected transposition of the great arteries (CTGA).	Joint Annual Conference of Cardiological Society of India (CSI) and Association of Thoracic Surgeons of India (TSI), Srinagar, 1986. (Abstracts), Indian Heart J 38; 53 : 1986.
Dr. S. Sharma Dr. M. R. Mashru Dr. D. P. Turkhia Dr. U. J. Shah Dr. B. V. Pinto.	Percutaneous ballon valvuloplasty for pulmonary valve stenosis.	International conference of Cardiology and Workshop in echocardiography, Bombay, 1986.

**DEPARTMENT OF DERMATOLOGY AND VENEREOLOGY.**

Donovanosis.

XVIIth International Dermatological Conference in Germany.

Xanthamatosi.

XVIIth International Dermatological Conference in Germany.

Fungi-Fastidious Fragile &amp; Fascinating.

**APPENDIX NO. : IX. (Cont.)**  
List of Publication and Papers read :—

Doctor	Subject	Particulars where published
<b>E. N. T. DEPARTMENT</b>		
Dr. A. G. Pusalkar	Use of cartilage the versatile method for tympanoplasty.	Annual Conference of the Association of Otolaryngologists of India held at Madras in January 1986.
Dr. D. S. Grewal.	Round window membrane perforation a complication of C. S. O. M.	Annual Conference of the Association of Otolaryngologists of India held at Madras in January 1986.
Dr. D. D. Shah.	Revision surgery in idiopathic sensory neural deafness.	Annual Conference of the Association of Otolaryngologists of India held at Madras in January 1986.
Dr. N. L. Hiranandani	Meniere's Syndrome.	India J. L. O.
Dr. D. S. Grewal Dr. D. D. Shah.	Round Window membrane perforation a complication of C. S. O. M.	British J. L. O. in November 1986.
Dr. D. S. Grewal	Cheek reconstruction after cancer surgery.	British J. L. O. in July 1986.
Dr. Prabhu Dr. Behl (Pathologist) Dr. (Smt.) J. D. Dabholkar. (Co-author)	Malignant Histocytic Fibroma.	J. L. O. 2.
Dr. D. D. Shah	Histoangioma of Maxilla — a case report.	Journal of applied Medicine in December 1986.

**DEPARTMENT OF OBST. & GYNAEC.**

Dr. (Mrs.) Rohinee Merchant		<p>Visited Nanjing, China in response to an invitation sponsorship from Jiangsu Family Planning Institute to familiarise them with her own invention — Merchant's Copper Coil, an IUD, June 1986.</p> <p>Visited and participated in discussions on innovations as regards MCC at Research Triangle Park, North Carolina, USA in response to an invitation from Family Health International (FHI), USA, July 1986.</p>
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## APPENDIX NO. : IX. (Cond.)

List of Publication and Papers read :—

Doctor	Subject	Particulars where published
Dr. (Mrs.) Rohinee Merchant.	Further Experience with MCC.	On the Editorial Board of Indian Journal of Medical Ultrasound, an official publication of ISMU, Indian Society of Medical Ultrasound. Contraception — Fertilité — Sexualité (French) 1986, Vol. 14, No. 5, 431 — 434.
	Clinico-Pathological Study of Fallopian Tubes after Trans-cervical Insertion of Quinacrine Hydrochloride Pellets.	Advance in Contraception Vol. 2, No. 1, March 1986. MTP Press Ltd. Lancaster U. K.
		Chairperson — Scientific Session XI on IUCD. International Conference on Voluntary Sterilisation and 6th Indian Conference on Voluntary Sterilisation, Delhi, October 1986. Chair-Person at the guest lecture on Medical Services and Coroner's Court. First National Conference on Medicolegal and Social Problems in Professional Services Associated with Infertility and Fertility Control, Bombay, November 1986.
		Invited speaker on 'Operative Hysteroscopy including Sterilisation' 4th Hysteroscopy Training Course organised by Indian Association of Gynaecological Endocopist, Bombay, February 1986.
		Invited speaker on 'Selection of cases & pre-operative preparations' symposium in Microsurgery in Gynaecology at Nanavati Hospital— Medical Research Centre, Bombay February 1986.
Dr. (Mrs.) Rohinee Merchant.	Gynaec Sonography.	Presented at the Workshop on Medical Ultrasound organised by I.M.A. Modasa Branch (Gujrat), April 1986.
	Pregnancy and Hypertension.	Invited speaker at the Symposium, I.M.A. Modasa Branch, Modasa, Gujarath, April 1986. Participated in a Public Seminar on 'Know About Your Heart' I.M.A. Modasa Branch, Modasa, Gujarat, April 1986.
		Delivered a key-note Address 'Modern IUD — Achievements & Challenged at International Conference on Voluntary Sterilisation and Family Welfare, Delhi, October 1986.

**APPENDIX NO. : IX. (Cond.)**

List of Publication and Papers read :—

Doctor	Subject	Particulars where published
Dr. (Mrs.) Rohinee Merchant.	Family Planning in People's republic of China.	Invited speaker — The Bombay Obstetrics and Gynaec. Society, Bombay, November 1986.
	Laparoscopic Sterilization.	Invited to deliver a lecture — The 16th Laparoscopy Training Course organised by the Indian Association of Gynaecological Endoscopists, Bombay, November, 1986.
		Attended Fourth Hysteroscopy Training Course organised by Indian Association of Gynaecological Endoscopists, Bombay, February 1986.
		Attended Symposium in Microsurgery in Gynaecology at Nanavati Hospital at Medical Reserch Centre, Bombay, February 1986.
		Attended Workshop on Medical Ultrasound, IMA Modasa Branch, Gujarat, April 1986.
		Attended International Conference on Voluntary Sterilisation and Family Welfare, Delhi, October 1986.
		Attended Sixth Indian Conference of Voluntary Sterilisation, Delhi, October 1986.
Dr. S. K. Shah.	Chorion Biopsy.	Indian Journal in Gynaeco. and Obst.
		Attended Annual Conference of Bombay Obst. & Gynaec. Society held in January 1986 in Bombay.
		Attended Annual All India, Gynaec. & Obst. Conference held at Ahamada-bad in December 1986.

**APPENDIX NO. : IX. (Cond.)**  
List of Publication and Papers read :—

Doctor	Subject	Particulars where published
<b>ENDOCRINOLOGY DEPARTMENT.</b>		
Dr. S. M. Shahani.	Endocrine Aspects of infertility.	Lecture at CME programme in Obstetric and Gynaec. organised by NAMS & MERT at Bangalore on 12-14th April 1986.
	Hyperprolactinamia in cases of Ovulatory disorders and infertility.	Talks given at Bombay Hospital on 7th May 1986.
	Unusual presentation of case of Cushing's Syndrom.	At Bombay Hospital on 28th May 1986.
		Key note address given on 'Hormones Assays in Obst. & Gynaec.' during the XIVth Conference of Bombay Obst. & Hynaec. Society on 7-8th June 1986.
	Hormonal assays in clinical Medicine.	Talk given at 'A' Ward Medical Association on 15th June 1986 at Bombay Hospital.
Dr. S. M. Shahani.	Phase—I haman clinical trial with Anti-hCG Vaccine.	Presented at symposium of Contraception Reserch for To-day and Ninty's at National Inst. of Immunology New Delhi, 3-5 October 1986.
	Problems in monitoring Ovulation Induction with gonadotropin.	At 17th Annual meeting of Endocrine Society of India on 6th November 1986 at IRR, Bombay.
Dr. P. C. Merchant.	Sperm antibodies & infertility.	At 17th Annual meeting of Endocrine Society of India on 6th November 1986 at IRR, Bombay.
Dr. S. M. Shahani.		Attended XIVth Conference of Bombay Obst. & Gynaec. Society on 7-8th June 1986.
		Participated at CME Programme in Obst. & Gynaec. organised by NAMS & MERT at Bangalore during 12-14th April 1986.
		Participated at symposium of 'Contraception Research for To-day and Ninty's at New Delhi on 3-5th October 1986.
		Attended 17th Annual meeting of Endocrine society of India at IRR, Bombay, November 1986.



**APPENDIX NO. : IX. (Cond.)**

List of Publication and Papers read :—

Doctor	Subject	Particulars where published
<b>DEPARTMENT OF NEUROSURGERY.</b>		
Dr. U. S. Vengsarkar.	C. T. Scan and Intracranial Tuberculoma.	J. Neurosurgery, april 1986.
	Trigeminal Neuralgia.	Chapter published in A. P. I. Textbook of Medicine 4th Edition 1986.
<b>OPHTHALMOLOGY DEPARTMENT.</b>		
Dr. (Mrs.) G. Murthy.		Participated in the Workshop and symposium on Radial Keratotomy and Intraocular lens implant on 10th Feb. 1986 at Bombay Hospital.
		Delivered a lecture on Laser at the seminar organised by Coherent at Hotel Nataraj in June 1986.
	Working of mobile Ophthalmic Van in slums of Bombay.	Participated in the demonstration of Yag Laser organised by K. E. M. Hospital in September 1986. Attended, on deputation the Third General Assembly of International Agency for the Prevention of Blindness at New Delhi in December 1986. Read a paper.
	Trans-conjunctival band extrusion following scleral buckling surgery.	Afro-Asian J. Ophthalmol. V/June 1986, Page 18-19.
	Atypical and abortive forms of mandibulofacial dysostosis interesting cases.	Afro-Asian J. Ophthalmol. V/June — 1986, page 46 — 48.
	Congestive Glaucoma attack in chronic simple glaucomatous eye precipitated by sudden massive haemodilution.	Afro-Asian J. Ophthalmol. IV/March /224, 1986.
	Medical management of Hordeolum Internum Ophthalmic and views official organ of eye reserarch centre India.	Vol. III, July, 1986, No. 3, page — 95-100.
Dr. (Mrs.) Y. P. Chibber.		Attended symposium on Intraocular lens and Radial Keratotomy at Bombay Hospital, Feb. 1986.
		Seminar on Laser organised by Coherent Co. at Natraj Hotel in June 1986.

**APPENDIX NO. : IX. (Cond.)**  
List of Publication and Papers read :—

Doctor	Subject	Particulars where published
Dr. (Mrs.) Y. P. Chibber.		Demonstration of Yag Laser at K.E.M Hospital in September 1986.
		Audiovisual organised by Ascon for Reshmi Eye Foundation at Taj Intercontinental Hotel in Dec. 1986 on techniques on Intracapsular cataract extraction and combined triple procedures of Keratoplasty, extra-capsular cataract extraction and intraocular lens implantation.
Dr. A. R. Patel		Participated in demonstration of YAG Laser organised by K.E.M. Hospital in September 1986.
		Attended Canadian Implant association Twelfth Annual meeting, Queen Elizabeth Hotel (5th June 1986) Montreal Canada.
		Attended Florida workshop on Radial Keratotomy and YAG Laser sponsored by Panamerican Implant Association on 16th-May 1986.
<b>DEPARTMENT OF ORTHOPAEDIC</b>		
	A New Peridural Needle 'The Lolo Needle'.	All India Conference, Indian Society of Anaesthetist, Visakhapatnam, December 1986.
Dr. Derick F. DeLima	A New Peridural Needle 'The Lolo Needle'.	Bombay Hospital Journal.
	Radial ulna fracture.	Bombay Hospital Journal.
Dr. D. D. Tanna. Dr. V. V. Laheri Dr. Derick F. DeLima. Dr. S. M. Pai.	Quadratus femoris muscle podiols graft.	Bombay Hospital Journal.
Dr. D. D. Tanna (Invited papers).	Posterior Lumbar Interbody Fusion. Spinal Instability.	Maharashtra State Conference Goa. All India Spinal Surgeons Meeting Bombay.
	Brain Trust.	All India Spinal Surgeons Bombay Conference.  Key-note address — Radiology of Lumbar Spine All India Radiologist Conference — Nagpur.

**APPENDIX NO. : IX. (Cond.)**

List of Publication and Papers read :—

Doctor	Subject	Particulars where published
	Spinal Infection — C. M E Spinal Instability.	Maharashtra State Orthopaedic Conference Goa.
	Spinal problem.	Surat Medical Association Guest Lecture Surat.
	C M E — Common Spine Problems/Spine Fractures.	Gujarat Association of Surgeons Chapter Meeting at Bardoli — off Surat.  Selected for A O advanced course Davos — Switzerland.
	Brain Trust.	International 'Conference for surgery in Tropic Bombay Hospital.'  American Academy of Orthopaedic Surgeons New Orleans — Delegates.
<b>DEPARTMENT OF PAEDIATRICS</b>		
Dr. (Mrs.) P. M. Pai.		Attended XII Annual Conference of Pharmacology of Maharsashtra, Aug. 1986, Lonawala, address for inauguration.  Attended an awareness programme and exhibition of Speech and Hearing disorders and a symposium on 'Clinical Approach to Giddiness on Saturday, 4th Oct. 1986. Inaugurated exhibition (Bombay).  Attended XXII National Conference of Paediatric (I.A.P.) Nov. 1986, New Delhi, Guest speaker at plenary session.
Dr. (Mrs.) P. M. Pai	Paediatric Pharmacology — A moving target.	Talk at Indian Association of Clinical Pharmacology.  Talk delivered in Bombay Management Association.
	Are out Hospitals' sick ?	Rotary Club of Bombay (Central).
Dr. R. P. Agarwal		Attended National Conference of I. A. P. at Delhi, Nov. 1986.  Attended Golden Jubilee Commission of B. J. Hospital of Children Chaired one session.

**APPENDIX NO. : IX. (Cont.)**

List of Publication and Papers read :—

Doctor	Subject	Particulars where published
Dr. R. K. Annand.	Current concepts in prevention of Malnutrition.	Nair Hospital Talk on Misconception in Nutrition in Paediatrics Dec. 1986.  Workshop on 'Indian mothers role in the care of her child' at Cooper Hospital organised by I. A. P. chaired a session on recommendation.
	Hypertension in children.	Workshop on Hypertension.  Attended Vth National Congress of Perinatology Precongress Programme, Bombay, Feb. 1986.  Attended Paediatric update for Practitioners Temple University Philadelphia, USA, May 1986.  Attended National Conference of I. A. P. Delhi, Nov. 1986.
	Obstetricians' attitude toward Breast feeding.	Session on 'Breast', continuing Medical Education Programme. Federation of Gynaecology and Obstetrical Societies of India, November 1986.
	Dr. R. K. Annad.	
Breast-feeding and family Planning.		Workshop on Role of Nurses in Family Planning, December 1986.  Attended International update in Paediatrics, Bombay, December 1986
Immunisation in Children.		I. M. A. College of General Practitioners'. Continuing Medical Education Programme.  Chairman, Session on 'Management of Nutritional Disorders' Conference of Railway Doctors, J. R. Hospital.
	Oral Rehydration.	WHO Workshop Kasturba Hospital Bombay.
	Healthy Living — Everyone a Winner.	Panel Member, WHO Day, I. M. A. Bombay.
	The responsibility of the family in infant and preschool health care.	Workshop Leslie Sawhna Programme Deolali.

**APPENDIX NO. : IX. (Cont.)**

List of Publication and Papers read :—

Doctor	Subject	Particulars where published
	A Paediatrician's Perspective of Ophthalmology.	Ophthalmological Society, Bombay.  Chairman — Scientific Session on Free Papers, 7th Maharashtra Regional Conference, I.A.P., Lonawala.
Dr. R. D. Potdar.	Infant Feeding in India.	Seminar on Infant Feeding by Nafia, Sweeden at Karolinska Hospital, Stockholm, Sweeden.  Helped in Documentation of Streehitkarini Voluntary Health Project for Ford Foundation' as Hon. Director. Continued as Hon. Director, Health Workers' Training Project under 'Ford Foundation under Streehitkarini
Dr. R. D. Potdar.		Attended National Conference of I. A. P. Delhi, organised on behalf of Central Secretariate of IAP and participated in Plenary session on 'Health for all by 2000 AD' as an invitee speaker.
Dr. (Mrs.) R. J. Khanna		Attended 1st National Symposium on Endocrinology January 1986.
Dr. (Mrs.) R. H. Udani	Outcome of high risk pregnant mothers.	National Conference of I.A.P., New Delhi.
	Exchange transfusion in Newborn.	National Conference of I.A.P., New Delhi.
	Perinatal mortality.	National Conference of I. A. P., New Delhi.
	Mortality and Nutritional status of preschoolers in Bombay Slums.	Inst. of Public Co-operation and child development, New Delhi.
Dr. (Mrs.) S. M. Joshi		Attended 1st National Conference on Paediatric Endocrinology, Jan. 1986.
Dr. C. V. Hegde.		Attended 1st National Conference on Endocrinology, Jan. 1986. Attended XXIII National Conference of Indian Academy of Paediatrics, New Delhi, Nov. 1986.
	Nutrition in children.	Delivered health talk.
	Accident & their prevention.	Delivered health talk.

**APPENDIX NO. : IX. (Cont.)**  
List of Publication and Papers read.

Doctor	Subject	Particulars where published
	Diseases & disability in children to slum dwellers of Bandra.	Delivered health talk, organised by PRIDE India.
Dr. (Mrs.) P. M. Pai Dr. S. Joshi Dr. S. Baliga Dr. P. Walavalkar	To study the safety and Efficacy of Contrimazine (Antrima) and compare it with Contrimoxazole in Paediatric Diarrhoea. A Bacteriologically controlled comparative clinical study.	Indian Practitioner XXXIX No. 5, May 1986.
Dr. P. M. Pai Dr. S. M. Joshi Dr. Aliaas Khan	Cotrimaxine (Antrima) in Electric Fever.	
Dr. P. M. Pai Dr. S. M. Joshi Dr. Sushila Baliga Dr. P. A. Walavalkar	Therapeutic evaluation contrimazine (Antrima) Vis Avis. Contrimoxazole in terms of efficacy and safety in the treatment of Respiratory Tract infections in Tract infections in Paed.—Pt.	The Pract. Vol. XXXIX 5 May 1986, P. 441.
Dr. P. M. Pai Dr. S. M. Joshi Dr. P. A. Walavalkar	Therapy of respiratory infections in immuno-compromised children with contrimazine	The Indian pract. Vo. XXXIX No. 5 May 1986, P —453.
Dr. S. M. Joshi.	Febrile convulsion.	Article in Souvenir for XII Annual Conference of Pharmacologist of Maharashtra, T. N. M. C. B. Y. L. Nair Hospital, Bombay, April 1986.
	Immunization.	Article in Souvenir for XII Annual Conference of Pharmacologist of Maharashtra, T. N. M. C. B. Y. L. Nair Hospital, Bombay, April 1986.
Dr. R. D. Potdar.	Doctor Nasel Tethe.	Edited & Translation : Second Edition published by Govt. of Maharashtra.
	Kamsatya.	A book in Marathi on Sex Education prepared & Published in December 1986.
Dr. R. H. Udani Dr. P. M. Pai	Post transfusion hepatitis with reference to hepatitis B antigenemia.	Indian Paediatr. 23 : 239-243, 1986.
Dr. R. H. Udani Dr. J. M. Kirtane	Biliary Atresia; Early diagnosis.	Indian J. Paediat. 53: 807-810, 1986.
	Mile Stones.	
	Diarrhoea in children.	
Dr. R. H. Udani	Dehydration in children.	XII Annual Conference of Pharma. of Maharashtra, Bombay.
Dr. C. V. Hegde	A study of the Bowel pattern & weight gain in exclusively breast feed infants in the 1st 3 months of life.	2nd prize for presentation of Dissertation — I. A. P. Competitive seminar for post-graduates on 14-9-1986.

**APPENDIX NO. : IX. (Cont.)**  
List of Publication and Papers read.

Doctor	Subject	Particulars where published
<b>DEPARTMENT OF PLASTIC SURGERY :</b>		
Dr. S. M. Mahaluxmivala		Attended the XX1st National Conference of Association of Plastic Surgeons of India at Aurangabad. He was invited to deliver the 'Sir Gilles Memorial Oration'. The subject was 'The Shattered Face'. He also chaired Scientific Sessions at the above conference.
Dr. Narendra Pandya.		Attended and Chaired the Scientific Session at the XX1st National Conference of Association of Plastic Surgeon of India.
Dr. S. M. Mahaluxmivala	The Limited Rhinoplasty.	XX1st National Conference of Association of Plastic Surgeons of India.
Dr. Narendra Pandya.	Suction Lipolysis.	Invited to give C. M. E. Guest Lecture.
Dr. Kalpesh Gajiwala	A New Approach to treat Heel Ulcers with dorsalis padis flap — A transosseous approach.	Received the Best paper award for Residents at XX1st National Conference of A.P.S.I.
Dr. S. M. Mahalumivala	The Shattered Face.	Gave a Guest Lecture to the Staff Society at the Quaterly meeting of the Society of this Institution.
Dr. Nimmi Lalwani	Know Your Institution.	Spoke at the series.

**DEPARTMENT OF PHARMACOLOGY :**

Dr. D. A. Joseph		Guest speaker on clinical uses of steroids at the Gujarat chapter of Association of Physicians of India in January 1986.
	Selection of Essential drugs at an urban Health Centre.	At the all India Conference of Indian Association of Advancement of Medical Education in January 1986.
		Rapporter for the All India Conference of IAAME and presented a working document on the recommendations of the conference for Ministry of Health and family Council of India and planning commission.
		attended and participated in the International Satellite symposium in Heart Research in the session on Indigenous Drugs in February 1986.

**APPENDIX NO. : IX. (Cont.)**  
**List of Publication and Papers read.**

Doctor	Subject	Particulars where published
Dr. D. A. Joseph		Participant in the update session on 'Management of Gastrointestinal bleeding' at the Jt. API session at Upaipur on January 1986.
		Co-Chairman of the session on post graduate Clinical Pharmacology oration by Jt. API conference in January 1986.
		Organised a national Conference on Clinical Pharmacology at KEM Hospital from October 3rd — October 4th.
		Participated in the workshop on 'Management of Nursing Homes and Hospital' arranged by the Indian Society of Health Administration.
		Elected as a member of the Indian Society of Health Administration.
		Attended and participated on the International update session in Paediatrics in Bombay in December 1986.
		attended a two days workshop on Medical Educational Technology at Grant Medical College in December 1986.
Dr. (Mrs.) S. A. Desai		Participated in a National Workshop on New Drug Policy organised by the IMA at New Delhi with participation of Drug Controller and Director of Health Service, Govt. of India. Delevered a keynote address on 'Clinical Trials and Introduction of Drugs'.
		Underwent a training programme in Nuclear Medicine in Union of Socialist Soviet Rupublics (USSR) and German Democratic Republic (GDR) arranged by International Atomic Energy Agency (IAEA) Vienna from 1st September to 25th October 1986.
		Attended the Annual Conference of Society of Nuclear Medicine of India at Madras from 26-28th December.



**APPENDIX NO. : IX. (Cont.)**  
List of Publication and Papers read.

Doctor	Subject	Particulars where published
Dr. Y. A. Deshmukh		Attended the I. C. M. R. sponsored training courses in Clinical Pharmacology held at Seth G. S. Medical College, Bombay from 1-12-86 to 20-12-1986.
Dr. S. A. Desai Dr. S. R. Melgiri Dr. S. N. Idnani Dr. S. N. Rao Dr. J. C. Bijlani	Renogram patterns in various renal diseases.	XIIth Annual Conference of Pharmacologists of Maharashtra held at Lonavala, in August 24th and 25th 1986.
Dr. S. R. Melgiri Dr. S. N. Rao Dr. J. C. Bijlani	Effect of Chlorpromazine and metoclopramide on stress induced gastric ulceration in rats.	XIIth Annual Conference of Pharmacologists of Maharashtra held at Lonavala, in August 24th and 25th 1986.
Dr. K. Kulkarni Dr. N. V. Athanikar Dr. S. R. Amladi	Suppression by Lithium pre-treatment of theophylline induced quasi-morphine abstinence syndrome in rats.	XIIth Annual Conference of Pharmacologists of Maharashtra held at Lonavala, in August 24th and 25th 1986.
Dr. Y. A. Deshmukh	Beta adrenoceptor blocking drugs in therapy.	Quarterly Medical Review (Raptakos-Brett and Co.) Vol. 37, July, 1986.

**DEPARTMENT OF PSYCHIATRY**

Dr. Mahatme	Group Psychotherapy in the parents of mentally retarded children.	Competition on 'Psychotherapy' organised by B.P.S. — awarded the first prize.
Dr. Shastri Dr. Dhavale & Dr. Mahatme (Co-author)	Horizontal cross sectional study of 968 children in community based school mental health clinic.	The Annual West Zone Conference of the I. P. S. held at Ratnagiri.  Dr. Shastri was nominated for the President's award.
Dr. A. P. Popli Dr. H. S. Dhavale	Antabuse Psychosis.	Indian Practitioner, October 1986.
Dr. R. R. Patel	Brown Sugar Modes of Intake and Clinical Effects.	Indian Practitioner, November 1986.
Dr. C. Pinto	'C. T. Scan' in Psychiatry.	Bombay Hospital Journal.
Dr. P. C. Shastri	Meaningful Participation of Mother.	Proceedings of UNICEF Indian Academy of Paediatrics on 19th October 1986.

**APPENDIX NO. : IX. (Cont.)**  
List of Publication and Papers read.

Doctor	Subject	Particulars where published
<b>PHYSIOLOGY DEPARTMENT</b>		
Dr. (Smt.) A. Malathi Dr. (Smt.) V. G. Parulkar	Apparatus for the measurement of Reaction Time.	Indian Journal Physiology, Pharmacology.
	Effects of venous occlusion and local exercise on clotting time and fibrinolytic activity.	Indian Journal Physiology, Pharmacology, Vol. 29, No. 3, July, Sept. 1985. Released in July 1986.
Dr. (Smt.) R. B. Ichaporia Dr. (Smt.) V. G. Parulkar	Some observations on the Fibrinolytic activity in the females.	Indian Journal of Medical Science.
<b>DEPARTMENT OF RESPIRATORY DISEASES</b>		
	Lung involment in Reumatoid Arthritis.	6th National Conference of Respiratory Diseases in Bombay.
Dr. S. P. Shah	Open Comparative Clinical Trial of Bromehine HCL and Erythromycin Stearate combination and Mrythromycin Sterate alone in RTI — Study of 50 patients.	Nov. 1986, Annual IMA (Maharashtra Branch) Conference.
	Comparision of Oral salbutamol with repercterol in reversible airway obstruction.	Jr. of Association of Physician of India 1986 34 — 179 — 182.
	Experience with Indradermal antigenic tests and immunotherapy in Bronchial Asthma.	Jr. of Association of Physician of India 1986 34 — 189 — 190.
Dr. S. P. Shah Dr. G. S. Perhar	Nd-Yag Laser Therapy in lung cancer.	Jr. of Association of Physician of India, Vol. 34 No. 9, 653-654.
Dr. S. P. Shah	Bronchogenic Caroinoma.	Test book by P. J. Mehta (Editor) advances in Internal Medicine Bombay 1986-87.
<b>MEDICAL SOCIALWORKER</b>		
	Psychiatric Morbidity in 1st year of Marriage.	All India Psychiatric conference International Psychiatric Conference at Jaipur 1986.
	Psycho Social strens among married working women.	All India Psychiatric Conference International Psychiatric Conference at Jaipur 1986.

**APPENDIX NO. : IX. (Cont.)**  
List of Publication and Papers read.

Doctor	Subject	Particulars where published
<b>PAEDIATRIC SURGURY</b>		
Dr. A. B. Mathure		Attended the Annual Conference of International College of Sugeons at Jaipur in October-November 1986.
		Attended the Annual Conference of the British Association of Paediatric Surgeons at Birmingham United Kingdom, July 1986.
Dr. D. J. Mohla		Attended the Asian Paediatric Surgery Conference at Calcutta in February 1986.
		Attended the Annual Conference of the British Association of Paediatyric Surgeon at Brimingham, United Kingdom.
Workshop on Undescended		Participated in the Workshop at Birmingham University B.A.P.S. Annual Conference.
Dr. A. B. Mathure	Respiratory Emergencies	Children India Journal of Paediatrics.
	Case report : Unusual presenta-tion of abdominal Terrtoma.	Journal, Jaslok.
Dr. A. B. Mathure	Recument T. O. F. after primary repair for congenital T. O. F.	(Accepted as J. P. S.).
Dr. H. Parikh Dr. A. B. Mathure.	Ovarian cysts and pitutary tumour, Hypothyrodism — Case Report.	OBGY Journal.
Dr. Mathure Dr. Mohla		Attended the Paediatric Urology Seminar at Hotel Palm Grove, Juhu. The Seminar was arranged by Urolo-gical Society.
Dr. Mathure		Chaired the session of 'Uroteroscele' in children 7th, 8th February 1986.
Dr. Mohla		Attended Asian Paediatric Surgical Conference Calcutta, July 1986.

**APPENDIX NO. : IX. (Cond.)**  
List of Publication and Papers read.

Doctor	Subject	Particulars where published
<b>PREVENTIVE &amp; SOCIAL MEDICINE DEPARTMENT</b>		
Dr. N. P. Pai	Problem of Child Labour in India.	At the XXXIX Annual convention of Indian Association of Occupational Health Journal.
Dr. M. Chavan	Problem of child Labour in India.	At the XXXIX Annual Convention of Indian Association of Occupational Health Journal.
Dr. P. Subramaniam	Prevention of Drug Abuse and Rehabilitation of a drug addition.	At a Symposium on 'Drug Abuse' at the VIII Annual Conference of Indian Academy of Forensic Medicine on February 17th 1986.  Talk on All India Radio on W. H. O. Day Theme Healthy Living Everyone a Winner — with special reference to Old age Problem — on 7th April 1986.
	Communication to mothers on family Welfare Maternal and Child Health.	At a National Workshop as Meaningful participation of Indian Mothers on Child Health and Care at R. W. Cooper Hospital on 18th — 19th October sponsored by Indian Academy of Paediatric.  Conducted training Seminar for Aanganwadi Workers of I. C. D. S. Scheme arranged by UNICEF on Diarrhoeal Diseases Control and ORS at Kasturba Hospital on 31st May and 1st August.
	Eroticism and Fulfilment	Pg. 62-66 on Proceedings of World Congress of Sexology held in Nov. 5-8, 1985, New Delhi — published in 1986.
	Communication to Mothers in the field of family Welfare, Maternal and Child Health.	In the Souvenir brought out on the occasion of the National Workshop arranged by R. N. Cooper Hospital by Indian Academy of Paediatrics on 18th — 19th October 1986.

**APPENDIX NO. : IX. (Cont.)**  
List of Publication and Papers read.

Doctor	Subject	Particulars where published
Dr. D. D. Pandit	Learning made easy.	World Health Organisation World Health Forum, International Journal of Health Development, Vol. 7, No. 2 (1986), P — 164.
	Personal Hygiene.	A way to Health Swastha Hind (November 1986) Volume XII No. 8-9, P. 11.
	Hydrophobia.	Health Educational Article in Body and Beauty Care.
Dr. R. Y. Aras	Teenage Pregnancy; An Epidemiological Prespective.	Journal of Family Welfare, Vol. XXXII, No. 3, March 1986, P.—65-74.
	Prevention of Xerophthalmia by the Rule of six.	'Health for the millions', V. H. A. I., Vol. XII No. 2, April 1986, P — 18.
	Xero India.	Quarterly Bulletin of Royal Commonwealth Society for the Blind India, Issue No. 3, August 1986.
	Rule of Six — Strategy for Health Worker in Prevention of Vit. A deficiency.	International Agency for the Prevention of Blindness, third General Assembly 6 — 11 December, 1986, New Delhi.
		Radio Talks on Importance of Maternal Nutrition (In Marathi) and Diabetes (In Konkani).
Dr. S. S. Shanbhag Dr. D. R. Naik Dr. N. P. Pai	Study of Home Industries in an Urban Slum Community.	Annual Conference of Indian Association of Occupational Health, Bombay Branch. Indian Journal of Occupational Health, Vol 25, No. 1.

**APPENDIX NO. : IX. (Cont.)**  
List of Publication and Papers read.

Doctor	Subject	Particulars where published
<b>DEPARTMENT OF SURGERY</b>		
	Hyperbaric O <sub>2</sub> therapy in Gas Gangrene Infection.	Western India Regional Arch Conference 1986.
	Burns.	Vivekanand Institute of Medical Science — Calcutta.
	Acute normovolemic haemodilution.	
	Sclerotherapy for oesophageal varices.	
Dr. P. M. Jhaveri		Attended the Annual Conference of International College of Surgeons at Jaipur in October — November 1986.
Dr. A. B. Mathure		Attended the Annual Conference of International College of Surgeons at Jaipur in October — November 1986.
Dr. D. J. Mohla		Attended the Asian Paediatric Surgery Conference at Calcutta in February 1986.
Dr. A. B. Mathure		Attended the Annual Conference of the British Association of Paediatric Surgeons at Birmingham United Kingdom.
Dr. D. J. Mohla		Attended the Annual Conference of the British Association of Paediatric Surgeons at Birmingham, United Kingdom.

**DEPARTMENT OF GASTROENTEROLOGY**

Controlled comparison of Ranitidine and Cimetidine in patient of Duodenal ulcer, Gastric Ulcer and Reflux Oesophagitis.	A Multicentre Study — 29 — 33.
Comparative study of Ranitidine and Cimetidine in patients of D. U. & G. U.	Pg. 39, Indian Journal of Gastroenterology Vols. (Suppl.) 1986.

## APPENDIX NO. : X

Sr. No.	Name of the activity.	Actuals.	Budget Estimates.	Revised Budget Estimates.	Budget Estimates.
		1984-85 Rs.	1985-86 Rs.	1985-86 Rs.	1986-87 Rs.
1.	General Administration and Supervision.	1,07,01,763	1,17,85,270	1,13,46,610	1,48,27,140
2.	Medicine Department.	72,50,720	98,50,260	98,50,260	1,14,50,260
3.	Surgery Department.	65,17,310	90,00,250	90,00,250	1,05,00,250
4.	Obst. & Gyn. Department.	24,55,130	32,30,250	32,30,250	37,30,250
5.	Paediatric Department.	19,62,705	25,00,890	25,00,890	30,00,890
6.	Premature Baby Ward.	Reflected in Gynaecology Department.			
7.	Radiology Department.	20,03,460	26,15,050	26,15,050	31,15,050
8.	Pathology and Bacteriology Department.	11,64,120	15,02,230	15,02,230	17,52,230
9.	Casualty.	Shown under Medicine Department.			
10.	Orthopaedic Department.	21,12,150	26,40,260	26,47,260	30,47,260
11.	Aural (E. N. T.) Department.	16,73,180	18,20,750	18,20,750	21,20,750
12.	Ophthalmology Department.	11,75,320	15,15,350	15,15,350	17,65,350
13.	Skin & V. D. Department.	12,45,235	16,85,470	16,85,470	19,05,470
14.	Blood Bank.	6,84,900	7,50,150	7,50,150	8,75,150
15.	Neurology Department.	21,70,555	26,10,000	26,10,000	35,89,790
16.	Urology Department.	—	—	—	—
17.	Pharmacy Department.	20,05,150	21,20,850	21,20,850	24,70,850
18.	Audiology and Speech Therapy Department.	1,09,053	3,63,530	2,76,330	3,81,910
19.	Psychiatry Department.	11,72,245	13,25,860	13,25,860	15,55,860
20.	Biochemistry Department.	—	—	—	—
21.	Physiotherapy Department.	3,94,700	4,65,300	4,65,300	5,45,300
22.	Occupational Therapy Department.	4,53,300	4,05,400	4,05,400	4,75,400
23.	Immunization Centre.	—	—	—	—
24.	Gastroenterology Department.	3,17,250	3,75,230	3,75,230	4,35,230
25.	Mobile Health Unit.	Department not existing			
26.	Dental Clinic.	Department not existing.			
27.	T. B. Observation.	8,16,215	9,10,260	9,10,260	10,60,260
28.	Neuro-Surgery Department.	4,75,225	5,05,260	5,05,260	5,90,260
29.	Plastic Surgery Department.	2,42,220	2,95,020	2,95,020	3,45,020
30.	Cardiac Medicine Department.	8,12,140	8,60,320	8,60,320	10,00,320
31.	Thoracic Surgery Department.	—	—	—	—
32.	Paediatric Surgery Department.	2,12,815	2,30,920	2,30,920	2,70,920
33.	Artificial Kidney Department.	2,55,400	2,36,500	2,36,500	2,40,500
34.	Diabetic Clinic.	1,61,300	1,60,000	1,60,000	1,90,000
35.	Genito Urinary Department.	1,90,250	1,90,000	1,90,000	2,10,000
36.	Nursing School.	1,96,160	1,98,000	1,98,000	2,18,000
37.	Anaesthesiology Department.	11,18,130	11,38,150	11,38,150	13,38,150
38.	Intensive Care Unit.	5,10,700	5,52,700	5,52,700	6,42,700
39.	Paediatric Centre at Reay Road.	—	—	—	—
40.	Kamathipura Teaching Centre.	3,19,231	15,54,330	8,48,750	15,62,530
41.	Soutter Street Clinic.	—	—	—	—
Total :		5,08,78,032	6,33,93,810	6,21,69,370	7,50,13,050

**LOKMANYA TILAK MUNICIPAL GENERAL HOSPITAL  
AND  
ANNAPURNABAI DESHMUGH HOSPITAL FOR WOMEN  
AND  
LOKMANYA TILAK MUNICIPAL MEDICAL COLLEGE**

L. T. M. G. (Hosp.) : —

HIGH LIGHTS :

HOSPITAL : —

**I — EXPENDITURE :**

(A) 1. On In-Patients.	5,74,19,491.00
2. On Out-Patients.	1,10,01,707.00
3. Total Expenditure (Excluding New work).	6,84,21,198.00
4. On New Works.	Nil
(B) 1. Average cost per In-Patient per day.	137.90
2. Average cost per Out-Patient per day.	23.37

**II — RESULTS :**

**(A) IN PATIENTS :—**

1. Schedule bed strength.	1,048
2. Daily average In-Patients in Wards (including Sarvodaya & D. U. H. C.) Paediatric Ward.	1,141
3. Admissions including those brought over from previous year and Dharavi Urban Health Centre.	50,205
4. Number of Patients discharged as	
i) Relieved.	19,614
ii) As Cured.	7,538
iii) Otherwise.	12,076
iv) Expired.	4,138
v) Remained in the Hospital on the last day of the year.	956
vi) Daily average number of admissions.	134
vii) Average stay of In-Patients (Day).	8
viii) Highest admissions on a single day.	216

**(B) OUT—PATIENTS**

1. New Out-patients attendance including Dharavi Urban Health Centre.	2,11,359
2. Total No. of Repeated Out-patients.	2,59,403
3. Daily average number of New Out-patients & Old Out patients.	1,290
4. Highest O. P. D. attendance on a single day.	1,083
5. Number of Casualty attendance (Medico-legal).	23,824

**(C) 1. Operations on Out-Patients.**

2. Operations on in-Patients. 36,908  
23,373

**(D) 1. CONFINEMENTS :**

1. Booked cases.	6,473
2. Emergency Cases.	1,057
3. Normal.	6,839
4. Abnormal.	663
5. Neonatal and Maternal Deaths	
i) Maternal Deaths.	41
ii) Still Births.	410
iii) Perinatal Mortality.	655
iv) Neonatal Deaths.	245

**III — SPECIALIZED TREATMENT**

1. Admissions in Resuscitation Ward.	2,330
2. Sterilization.	
i) Male.	27
ii) Female.	821
iii) I. U. C. D. Inserted.	268



3. A. K. D.		
i) Haemodialysis.		362
ii) Peritoneal dialysis.		62
iii) Renal Biopsy.		26
iv) No. of X-Ray plates.		1,31,772
v) No. of patients		73,103
<b>V — BLOOD BANK :</b>		
1. Blood samples collected from		
i) Voluntary Donors.		2,897
ii) Relative Donors.		2,986
iii) Other Hospitals.		1,484
2. Bottles supplied.		6,411
<b>VI — SCHOOL CLINIC :</b>		
(A) Number of School Children treated		
1. New Cases.		2,168
2. Repeat Cases.		11,227
3. Referred Cases.		43
4. Total Expenditure on School Clinic		2,74,365.78
<b>VII — PHYSIO—THERAPY :</b>		
1. Out-Patients treated.		11,662
2. Number of treatments given.		75,286
3. In-Patients treated.		10,867
4. Number of treatments given.		1,32,712
4. i) Open heart Surgery under C. P. by pass		49
ii) Closed mitral commissurotomy		94
<b>VIII — OCCUPATIONAL THERAPY :</b>		
1. Number of Out-patients treated.		9,905
2. Number of treatments given.		21,677
3. In-Patients treated.		10,859
4. Number of treatments given.		1,49,897
<b>IX — MEDICO SOCIAL SERVICE DEPARTMENT :</b>		
(A) Direct Service :		
Number of cases handled on case work level & other long term cases.		5,660
(B) Medical Aid :		
Number of patients given medicines in OPD.		22,598
(C) Service to deaf School :		
Children on the roll.		120
<b>I — COLLEGE :</b>		
(A) 1. Expenditure including expenditure on hostel.		1,30,77,405.00
2. Revenue from tuition fees, Hostel Rent & Miscellaneous Receipts.		4,45,886.54
3. Revenue from Post-Graduate fees.		1,48,175.00
(B) Income from Hostel.		
(C) 1. Gross Cost per student.		24,535.00
2. Net cost per student.		23,976.00
1. On Roll as on 31st December 1986.		—
2. Number of students classwise.		791

	Boys	Girls	Total
Ist M. B. B. S.	60	73	133
IInd M. B. B. S.	59	112	171
IIIrd M. B. B. S.	60	64	124
Post-Graduates on roll as on :	153	105	258
<b>INTERNS</b>			
Total No. of interns as on :	46	59	105
<b>TOTAL :</b>	<b>378</b>	<b>413</b>	<b>791</b>

The Lokmanya Tilak Municipal Hospital has completed 39 years of like existence tending medical relief to the sick and injured and Lokmanya Tilak Municipal Medical College, Sion, has completed 22 years of imparting Medical Education to the Students for under-graduate studies and 9 years of giving post-graduate education in various degree, diploma course of the University of Bombay including super speciality degrees like D. M. and M. Ch.

The college has been given affiliation by the University of Bombay up to 18th June 1984. The inspection for permanent affiliation was held on 26-11-85 by a committee appointed by University of Bombay and the committee recommended that the temporary affiliation be continued till June 1988. The committee again visited these in institution on 21st May 86 and that report is awaited. The medical council of India has approved this institution for award of MBBS degree and postgraduate degrees diplomas and postgraduate super specialities which are conducted at this institution.

Dr. S. V. Nadkarni, M. S. (Gen. Surgery) is appointed as DEAN since 24th Feb. 1986. He is also Head of the Deptt. of Surgery.

### APPENDIX — I

List of Heads of the Department from 1-1-1986 to 31-12-1986.

Sr. No.	Name	Qualification	Designation
1	Dr. S. V. Nadkarni	M.S.	Appointed as a Dean from 24-2-1986 & Prof. of Surgery.
2	Dr. N. A. Dabholkar	M.D.	Prof. of Physiology.
3	Dr. J. K. Bhatt	M.S.	Prof. of Anatomy.
4	Dr. F. R. Billimoria	M.sc. (Biochem)	Prof. of Biochem.
5	Dr. K. P. Deodhar	M.D.	Prof. of Pathology.
6	Dr. (Mrs.) L. P. Deodhar	M.D.	Prof. of Microbiology.
7	Dr. H. L. Dhar	Ph. D.	Prof. of Pharmacology.
8	Dr. Pritam Phatnani	M.B.B.S.	Hon. Prof. visiting of Forensic Med. from 1-8-1984.
9	Dr. (Mrs.) Gopa Kothari	MBBS, M.D. (PSM) M.D. (Paed)	Prof. of P. S. M.
10	Dr. M. V. Divekar	M.D.	Prof. of Medicine.
11	Dr. M. J. Gandhi	M.D.	Hon. Prof. of Cardiology.
12	Dr. A. P. Chaukar	M.S.	Prof. of Cardiovascular &
13	Dr. B. J. Damany	M.S.	Prof. of Neuro-Surgery.
14	Dr. R. L. Thatte	M.S.	Hon. Prof. of Plastic Surgery from 1-9-84 appointment confirmed from 5-12-84.
15	Dr. S. D. Bapat	M.S.	Hon. Prof. of Urology.
16	Dr. (Mrs.) P. R. Vaidya.	M.D.	Prof. of Obst & Gynaecology.
17	Dr. V. B. Athavale	M.D.	Hon. Prof. of Paed.
18	Dr. V. R. Mehta	MBBS, DVD	Hon. Prof. of Skin & V. D. retired from 1-2-87.
19	Dr. (Mrs.) D. A. D'souza	MBBS, DPM	Hon. Prof. of Psychiatry.
20	Dr. M. D. Pandit.	M.S.	Hon. Prof. or Orthopaedi on leave.
21	Dr. S. S. Vengsarkar	M.S.	I/C Hon. Prof. of Orthopaedics
22	Dr. N. S. Laud	M.S.	I/C Hon. Prof. of Orthopaedics.
23	Dr. K. C. Gadre	M.S.	Hon. Prof. of ENT. retired from 1-1-87.
24	Dr. S. H. Pantvaidya	M.D.	I/C Prof. of Anaesthesia.
25	Dr. S. M. Shanbhag	M.D.	I/C Hon. Prof. of Dental Surgery.
26	Dr. S. T. Bhatt	M. Sc.	Head Occupational Ther.
27	Mrs. B. V. Bellare	M.Sc. (P.T.)	Head Physiotherapy.
28	Dr. S. M. Sathe	M. S.	Hon. Prof. of Ophthal retired from 1-3-86.
29	Dr. (Smt.) S. A. Motwane	M. S.	I/c Ophthal deptt. from 1-3-86.
30	Dr. S. S. Mehta	M.D.	Prof. of Anaesthesia on leave from 1-9-1982.

Dr. (Smt.) H. P. Rebello is continuing as Asstt. Dean of L. T. M. G. Hospital during the year under report.

**Admissions :** -The admission capacity of students admitted for MBBS course at this institution is 100 per year. The number of students on roll as on 31st December 1986 was 533 and that of Post-Graduate student was 258 (Appendix II). There are 5 students under Dr. Dhar doing Ph. D. in Pharmacology. The department of Biochemistry is recognised for Ph. D. in Biochemistry since 1984 and 4 students are registered and working for Ph. D.

The University of Bombay has recognised Biochemistry department for registration to One student for doing M. Phil in Biochemistry and one student is registered under Prof. Bilimoria since November 1985 term.

D. M. L. T. Course is conducted at this Institution with intake capacity of 10 students. We are also enrolling students for M. Sc. course in following subjects in June terms every year.

Course in following subject in June term every year.

M. Sc. (Biochemistry) By papers	10 students
M. Sc. (Biochemistry) By Research	5 students
M. Sc. (Microbiology) By Research	5 students
M. Sc. (Animal Physiology) By Research	5 students
M. Sc. (Occupational Therapy) By papers	5 students
M. Sc. (Physiotherapy) By papers	5 students
M. Phil (Biochemistry) By Research	1 student.

The students on roll attending these courses are 55 Appendix II.

**Educational Activities :** - Besides regular teaching programme monthly scheduled meetings and clinical cardiology conferences are held regularly. Scientific and educational films were shown to the staff and students.

Specialised training is imparted to students of other Institutions by organising workshops and Seminars. Specialised training in super speciality subjects is given and fees of 100/- p.m., is charged.

**Interns :** - Graduate from University other than Bombay University are allowed to undergo Internship training at the attached LTMG Hospital to the extent of 10 percent from October 1984 terms these interns are charged Rs. 100/- for every months training B. Pharm, D. Pharm students are given training of 750 hours in Pharmacy to a maximum capacity of six students at a time Rs. 100/- for 3 months training are charged from June 1985 term. Students from S. N. D. T. University & other technical Institutions are allowed to work for practical training in Pathology on payment of Rs. 100/- for month for training. Results of undergraduate and postgraduate students of the year 1986 and the prizes won by the students and those who stood first in the examination are shown on the Appendix III and IV.

We are conducting competitive examinations in the subjects of Anatomy, Physiology, for Ist MBBS, Pharmacology, for IInd MBBS and Medicine, Surgery, Obst & Gyn. P. S. M., E. N. T., and Paediatrics for IIIrd MBBS students every year. The winners of the exams. are given cash prizes and merit certificates from the interest of the donation received at the time of silver Jubilee of the Institution which are kept in fixed deposit. The details of prizes with names of students who have won the prizes are given in Appendix 7. A competitive examination in Ophthalmology (only practical exam.) for regular batch and casual batch of interns is started from August 1983 named as Dr. Sathe's prize in Ophthalmology. Cash prize is given to Intern Judged as first similarly a competitive examinations in Pathology (for IInd MBBS Students) and Paediatrics (for IIIrd MBBS Students) are started from February 1986 and August 1985 respectively named as Dr. Athawale Prize. Cash Prizes are given to the students who stood first and second in the competitive examination.

Since November 1982 term, Dr. Hemant Kelkar's prize is awarded for the P. G. Student who is first in the merit list of registered candidate for M. S. General Surgery course in the regular batch. (November term) student. It is given from the donations received from relatives in the memory of Late Dr. Hemant Kelkar Since 1981.

A separate committee of students manages the students cultural and sport activities. To defray this expenditure, fee of Rs. 50/- per annum is being collected from the students and interns which has been increased to Rs. 80/- per annum from November 1982 terms onwards.

**Research Society :** -The staff and Research Society is functioning in this Institution since August 1966. It is registered under the Societies registration Act, and Public Trust Act. Medical Officers working in this Institution including Hon. Prof. Hon. Assistant Prof. Full Time Medical Officers upto the level of Tutors and Demonstrators are the member of the society. Annual subscription for each member is Rs. 25/- per annum. Total No. of membership as on 31st December 1986 is 225.

**Hostel :** -Boys and girls are given accommodation in two separate hostels. About 100 students are accommodated in these hostels. There are only boarding facilities in the hostel and for that an amount of Rs. 70/- per term is recovered from the students which has been increased to Rs. 100/- from November 1982 term. Deposit of Rs. 25/- is taken from students occupying hostel for the first time.

**Library :** -During the year 584 books have been added to the collection totalling to 15,258 books. The library has subscribed to 300 title of journals. The budget grant sanctioned for Library from L. T. M. G. College is Rs. 3,11,000.00 and that from L. T. M. G. Hospital budget is Rs. 4,00,000/-.

Total No. of Bound volume of Journal on 31-12-1986 8,674.

**Annual Cost & Revenue :** -Total expenditure of college amounted to Rs. 14,61,921/- excluding establishment cost against total cost incurred Rs. 1,30,77,405/- during the year. The net revenue of the college by way of tuition fees and miscellaneous receipts etc., amounted to rs. 5,94,061.54.

**Mobile Accident Service :** -A mobile Accident service Van donated by Messers India Tobacco Co. Ltd. Through the Bombay Pradesh Congress Committee which is equipped with a wireless set attached to the Emergency ward has attended 58 calls and 2,330 patients have been admitted in the Emergency Ward.

**Medical Record Department :-**

**In-Patients :** -The Schedule bed strength of this Hospital is 1,048. The distribution of beds according to the Departments is shown in Appendix III. 50,205 patients were admitted for Indoor treatment during the year as against 49,628, 50,453 and 47,686 during the preceding three years respectively.

**Out-Patients :** -The Out-patient department has attended to 2,11,359 new patients. The highest admissions and Out-patients attendance (only New Attendance) on a single day was 216 and 1,083 respectively.

**Afternoon Out-patient Department :** -There are four Out-patient Departments viz., Medical, Surgical, Orthopaedics and Paediatrics running in afternoon. During the year 21,094 patients were treated in these departments.

**Paying patients :** -Under the Scheme which is effective from 1951. 1,242 patients have been admitted during the year. Employees of the Corporation and their family members are allowed to avail of this facility on payment of 50 percent of the prescribed charges.

**MEDICO LEGAL CASES : -**

**Casualty Department :** -23,824 accidental and other Emergency Cases were treated in this department and 2,106 injury certificates were issued to police and 188 court calls were attended by the Resident Medical Doctors during the year under report.

**Certificates :** -8,458 certificates of different types were issued to the patients during the year under report as under : -

(1) Opinion Certificates	7,423
(2) Injury Certificates	240
(3) A. form certificate	162
(4) Accident Insurance certificate	187
(5) L. I. C. Certificates.	200
(6) Re-imbusement	276

8,488

**FEES COLLECTED :** The collection on account of sale of OPD & Indoor Forms, bed charges from patients over stayed in General Wards & Maternity charges for fourth delivery during year as under :-

	Rs.
(1) Sale of OPD Forms.	4,72,348
(2) Sale of Indoor Forms.	2,16,320
(3) Bed charges from patients over stayed in General Wards.	1,37,110
(4) Maternity charges for 4th delivery.	6,400

Total : 8,32,088

**Minor Surgery Department :** -3,690 minor operations were performed in the department during the year.

**Pathology Department** :—4,03,395 investigations were carried out and 1,724 autopsies were performed during the year (Medico legal P. M. 1,017 and Medical P.M. 707). A Special Laboratory has been set-up to work round the clock for the traumatic emergency service. The department has also under taken work for :—

- (1) Maa Hospital, Chembur
- (2) Chembur Maternity Home
- (3) Mulund Hospital (East & West)
- (4) Bhandup Maternity Hospital
- (5) Chunabhatti Maternity Hospital
- (6) Dharavi Urban Health Centre
- (7) Kurla Bhabha Hospital
- (8) Raoli Camp Maternity Home.

**Anaesthesia Department** :—During the year, 22,518 patients have received anaesthesia in various theatres and minor surgery department 4,064 patients were kept in recovery room and out of these 155 patients were required to be treated with respirators. 4,135 patients were examined in OPD for fitness for surgery.

**X-Ray Department** :—

(A) No. of patients	73,103
(B) No. of X-Ray	1,31,772
(1) No. of Ba-meal Ba-Swallow and Ba-enema.	891
(2) Carotoid Angiogram	112
(3) Special investigations	9,361
(4) Other misc. investigation	62,739
(5) Ultra sound	6,776

**Dental Department** :—16,434 patients were treated for various tooth troubles.

**Anti-Rabic Department** :—2,927 patients were treated both new & repeat.

**Blood Bank** :—The total number of Blood samples collected from relative donors was 2,986 and that from voluntary donors was 2,897. Blood bottles brought from other Hospitals 1,484. The total number of blood samples supplied for transfusion during the year was 6,411.

**Physiotherapy and Occupational Therapy Department** :—The work done in these departments during the year is shown below (Out patients and In-Patients)

Sr. No.	Department	No. of Patients	No of Treatments
1	Physio Therapy	22,529	2,07,998
2	Occupational Therapy	20,764	1,71,574

**Audiology & Speech Department** :—During the year, patients, have taken advantage of services of the department, as under :—

(1) Number of Audiograms	2,086
(2) Number of New Speech Cases	178
(3) Number of visits speech therapy	1,726
(4) Number of special Audiometry Testing	328

**Hand Injury Follow up Clinic** :—55 Cases were registered during the year.

**Family Welfare Centre :** —A Family Welfare Centre is run for the benefit of patients attending the hospital. The work done is as follows : —

(1) Vasectomy Operations performed.	27
(2) Sterilization Operations performed.	574
(3) Loops Inserted.	268
(4) Patients given oral pills.	130
(5) Patients given condoms.	702

**School Clinic Department :** —2,168 New and 11,227 Old cases from 30 different Municipal School from the suburban and 40 from City 1,376 New 7,081 Old cases were treated during the year. 20 Tonsils operations were performed on Schools Children, 128 spectacles were given during the year.

Expenditure on School Clinic. 3,74,368.78

**Flying Maternity Squad :** —The Flying Maternity Squad donated by the Indian Red Cross Society, Bombay Branch, is rendering services to female patients round the clock. Whenever maternity cases need immediate special attention such as supply of Oxygen, Blood transfusion or Hospitalisation on telephone call, the flying Maternity Squad reaches there within a minimum time provides the necessary assistance. During the year, the squad attended 3 such cases.

**Dispensary :** —The work carried out in the Dispensary is as follows : —

Out-patients

In-Patients

Special Prescriptions 2,59,463

M. S. W.

School Clinic

**Department of Pharmacy :** —Sterile and non sterile preparations were manufactured in Pharmacy department during the year as under : —

(1) Parenteral fluids in bottles	—	—
(2) Parenteral fluids in vials	—	—
(3) I. V. Sets	—	61,495 Nos.
(4) Dressing drums	—	26,455 Nos.
(5) Penicillin Test done	—	—
(6) Savlon	—	4,722 litres
(7) Enema Soap	—	414 liters
(8) Haemodialysis fluid	—	400 litres

Due to partial closure of pharmacy for want of adequate facilities hospital requires to depend on outside agencies for the supply of injectable and infusions which otherwise could have been manufactured in the hospital.

**Department of Pediatrics :** Following are the special activities of the department : —

- i) Paediatric hematology clinic —Conducted twice a week Variety of investigations are now possible in this clinic New Cases registered during 1985-550. No. of investigations done.
- ii) Asthma OPD —It is conducted once in a week to follow up asthmatic children. 200 New cases registered during the year.
- iii) High Risk Newborn follow up O. P. D. is conducted once in a week — Total 1,000 new borns were registered as new cases in the year.
- iv) Follow up OPD for developmentally subnormal children was started in January 1985. It is held once in a week. Total new cases were registered during 1985.

**I DIRECT SERVICE TO THE PATIENTS****(A) Case Work****(i) Long term Cases :****Type of Cases :**

(a) Chronically ill for Socio-psychological evaluation, counselling & rehabilitation.	2,570
(b) Orthopaedically handicapped for sociopsychological evaluation, counselling & rehabilitation.	802
(c) Sensory disorders (hard of hearing & vision) for psychosocial evaluation, counselling & rehabilitation.	345
(d) Mentally retarded cases for psychosocial evaluation, counselling & rehabilitation.	173
(e) Mentally ill cases for psychosocial evaluation, counselling & rehabilitation.	1,570
(f) Socially handicapped, cases for adoption cases for termination of pregnancy etc., for psychosocial evaluation, counselling & rehabilitation.	200

Total : 5,660

**Short-Term Cases :—**

(a) Cases of discharge problems & institutionalisation.	235
(b) Cases in need of appliances like crutches, calopess, spectacles special drugs etc.	2,433
(c) No. of tuens cases given medicines in the OPD	22,598

Total : 25,266

**(III) Blood camps & Blood bottles collected :—**

(a) No. of relatives seen for collection of blood given to the patients.	2,897
(b) No. of camps organised.	42
(c) No. of blood bottles collected from voluntary donors.	2,849

Total : 5,788

**Group Works :** Group work activities have been conducted by MPSW for a period of time. This has been found as very effective method. Some of the groups were time bound and some of them were on going.

The groups were as follows :—

**(i) On going the rapautic groups :**

The Youth Deaf Club continued its activities once a week that on Saturday between 1-30 to 4-30 P.M. The average attendance remained between 35 to 40 members.

The topics for the discussion were — Accidents on roads and compensation, accident on duty and compensation. First Aid Banks and savings alongwith newspapers news, picture, I. V. Programmes etc. etc. Advocate Bhandari attended and gave valuable information on the legal aspects of the accidents. The deaf youth participated in the discussion. The partially Deaf Youth like Krishna Kamble, Subhash Gaikwad were the media between normal and profoundly deaf.

The groups of deaf children and the parents group were taken up with the help of the student social worker at the school. The activities included out door visits and recreational games. The problems of their deaf children were discussed with the parents.

(b) Group of bilateral amputees from the K. G. Infirmary was taken for about 3 months for therapeutic discussions. At one such session in February 1986 Mr. Dilip Ogale (Phyh) was invited to speak to the group about Apang Sanjeevani's short of a marriage bureau for the physically handicapped.

(c) Group of parents of Enuretic Children were conducted at Child Guidance Clinic. These groups were conducted to educate the patients of group members, regarding the illness of their children treatment and management. It was conducted once a week basis.

(d) Family therapy for marital disharmony cases.

**(ii) Educational Group Work :**

(a) Educational groups were conducted once a week for wives of the alcoholics are taken up for orientation, education and follow ups once a 15 days.

Relatives of drug addicts admitted in the wards taken once a week.

(b) Groups of parents of mentally retarded children were conducted at child guidance clinic.

(c) Social group work with parents of epileptic children were management of epileptic children, importance of follow-up and help the parents through identification with similar others and sharing of the problem.

Such groups were conducted at child guidance clinic also by the social worker.

(d) Group work with parents of mentally retarded children were conducted for giving an orientation about the condition (*viz.*, mental retardation) the importance of early intervention and for the rapetic sharing of problems with similar others.

**(III) Recreational Group Work :**

(a) Recreational activities with children in the wards were held with the help of N. S. S. Volunteers. A few group sessions with mothers in the ward on topics of hegyiene were also held.

(b) Group works at Sarvodaya has continued with the recreational and group activities. Problems of patients as individual and group levels were attended to through group discussions, news paper (daily) and library books were also circulated.

**(3) On Goind Welfare Projects for Patients :**

(a) **High protein powder :** As part of the nutritious project, high protein powder makes and distributing among deserving patients. Supervision of the same was done. Besides nutrition project was started as part of the workshop and put for sale at the sale counter from this year.

(b) **Grain projects :** Vishwa Hindu Parishad donated 5 Kg. wheat and 5 kg. rice per month for 50 poor and needy patient family. These cases are selected by the M. S. Ws. and on their assessment this help is given to suppliment to the family income.

(c) **Meal Project for Pateient's Relatives :** Patients coming from Outside Bombay alongwith relatives. The poor patients relatives have taken free meal from our canteen. This meal is provided by one of our donor. The average 10 relatives per month taking this benefit.

**II) Indoor Level :**

(a) **Toy Bank :** Toy Bank is being run with the help of a volunteer provided by All India Women's Conference. Children admitted in the Wards avail of this recreational activities.

Mahila Mandal of Matunga was contacted for donation of toys for child guidance clinic. New set of toys were received from them.

(b) **Circulating Library :** Separate library for the children and adults is being run for the patients admitted in the wards. This activity is conducted with the help of volunteers provided by Vishwa Hindu Parishad. Books and magazines donated by well wishers are regularly circulated amongst to the patients A set of 36 story books for child guidance clinic was obtained from India Book House. Volunteers were arranged to coach some children from child guidance clinic who have nobody to teach them. A trolley was presented this year by Vishwa Hindu Parishad as donation to the library.

(c) **Posters Bank :** Posters for the different wards are being rotated once in 3/4 months. NSS Volunteers are used for the library and posters projects.

**L. T. M. G. Hospital's School for the Deaf :** There are 120 studentsa in the School and 13 teachers, One teacher was on leave from June 1985 to January 1987. The part time deputed teacher for ari, craft classes from the Education Department of B. M. C. Continued their work during the year.

On Projects : (1) Tailoring classes for the deaf continued its classes from Monday to Friday between 11 to 4 p.m. Mrs. Bakre taught the deaf.

(2) Carpentry class continued its activities with the help of Shri Champaner, a deputed teacher by the Education department of B. M. C.



(3) Nutrition at Schools : About 40 under weight children have shown a good improvement in health and attendance in school. They are given bread, eggs and bannanas a day to build their health.

(4) Medical examination and treatment : Dr. Biniwala visited the school twice a month, examined the children and gave advice.

(1) Special project : The Rotary Club of Bombay East organised a sight seeing camp at Mahabaleshwar for our 50 deaf students and 9 medico social workers participated.

(2) On 10-1-1986 had a picnic at 'Nehru Science Garden' by the help of Dharmasi Taraporwala.

(3) Yearly sports held on 29-1-1988 students had participated.

(4) An 'Anand Mala' was organised for the deaf school at Thana alongwith the children. TISS students also participated in Anand Mala.

(5) (III) Sheltered Workshop for the Handicapped :

Tailoring	Paper bag making	Chair canning.
25	18	17

On an average every month there are 10/12 patients working in all sections together.

This work provides an opportunity to patients with different types of handicaps to work together, builds up their confidence and little income for their expenses. After working here for sometime few patients find jobs outside and they leave to work outside. The patients are referred from different N. S. Ws. of the hospital.

In tailoring orders of stitching clothes from outside do of hospital linen and make baby clothes to sell at the sale counter.

In paper bag making we collect old news papers in donation and patients make paper bags and these paper bags are sold. The patients who make paper bags are paid from the sale proceeds.

In chair canning patients do canning of hospital chairs which are broken.

We had started artificial jewellery section in September 1986 where 25 patients workers were learning to make artificial jewellery. We had to stop it in October 1986 due to unavoidable circumstances. Patients liked the work and it was in good demand.

The sale counter activity continued with the sale of sanitary pads and baby clothes. In 1986 we made net profit of Rs. 12,517/- after all educations.

The profit from the chair caning and paper bags was Rs. 350/- and Rs. 170/- respectively. These work is not profit orientated. We give maximum payment to the patient from the sale processed as an intensive. Therefore is just a minimum.

(6) Special Projects of the year :

(i) A workshop on the Educational Vocational and Employment needs and the problems of deaf youth was organised for the deaf youth in Bombay on 5th October 1986. About 135 deaf youth participated alongwith 75 professionals that included teacher for the deaf, social workers, vocational training institutions heads and the employment officers from the employment exchange for the handicapped etc.

The printing of the 'Me and my disability' is in the process.

(ii) Programme of participation :

(a) Our paraplegic participated in a trip organized by paraplegic foundation between 23rd January to 27th January 1986.

(b) Amputees H. Paraplegic participated in the half marathon race organized by paraplegic foundation March 1986.

(c) The paraplegic participated in anehasammelan organised by paraplegic foundation on 1st January 1986 with these kind of activities, they are becoming more aware and united.

(d) Our orthopedically handicapped children participated in Anand Mala organised by Orthopaedic Hospital on

(e) Our mentally retarded children participated in

(f) Our epileptic children participated in competition organised by Neuro Surgery department, K. E. M. Hospital.

## II Teaching & Supervision :

(a) Lectures were given by the M. S. Ws. to the Medical Nursing and social worker students of the Hospital. The training Institutions of social work namely Tata Institute of Social Sciences and College of social work invited the M. S. Ws., to give lectures. Batches of students M. S. W., para professional were sent from college of social work to the department for orientation and lectures.

(b) Service oriented organisation like Lions club, special schools for the orthopaedically handicapped and deaf invited M. S. Ws. to give talks to the parents and teachers of their school. This help the hospital to bring about a better understanding and involvement of the community in the activities of the hospital.

(c) This year in all 9 students were placed for their field work experience from TISS. Out of these nine, five were placed under the direct supervision of the M. S. Ws., working in the department and four were placed with the faculty supervisors of training institute. The Council of International Programme had placed a french participated with the departments for her experience.

(d) 152 N. N. S. students from Ruiya, Potdar, Khalsa and Jhun Jhunwala College were placed with the department. They worked in different projects like sport, posters making, drugs, distribution etc. These students were given orientation lectures as and when was found necessary.

## III Research Study Conference etc. :

(a) Mrs. Warde was invited to chair a session and the resources person for the 'Changing trends in Health care and implication for Social work educating' organised by the department of Medical and psychiatric Social work, November 1986. As a part of a seminar organised by Tata Institute of Social Service in celebration of their Golden Jubilee year.

(b) Mrs. Warde was invited to give talk on Medical Social Work as a part of a course for the volunteers organised by servants of India, Social Welfare League.

(c) Mrs. Warde participated in the 8th Regional Conference held on 15th September to 20th September 1986. This report is written by Miss Machhivala & Mrs. Warde was released in this conference at the hands of the Chief Minister, Shri S. B. Chavan. The Survey report is titled as 'A study of prospects and problems faced by the paraplegics in their socio economic rehabilitation' and is published by paraplegic foundation, Bombay.

(d) Mrs. Warde was invited to speak and be the chief guest of the 10th Anniversary celebration function of physiotherapy and rehabilitation centre, Goa on 19-10-1986.

(e) Mrs. Warde's article on 'Participation of M. S. Ws. in the teaching of undergraduate medical students' was published in the Indian Journal of Social work published by T. I. S. S. October 1986.

(f) One day workshop at Tata Inst. of Social Science at Drug abuse was a Headed by Mrs. Date. She also participated in

(g) A seminar at K. E. M. Hospital on Drugs abuse.

(h) Bombay Psychiatric Society meeting held hers.

(i) A talk on alcoholism, addiction was given to the worker of All India Women's Association by Mrs. Date. She talked on motivation role of family members and the treatment.

Role of Community participation in prevention of blinding malnutrition in children' — at international conference of IAPB December, 1986.

The Report of the work done by the Department of preventive and Social Medicine to be included in the body of the Annual Administration Report of the institution.

## I— Activities at Urban Health Centre Dharavi :

The activities carried out by the department of P. S. M. at U. H. C. Dharavi can be classified into three categories.

(1) Medical Services.

(2) Welfare activities at centre and at home.

(3) Special activities.

(4) Social and recreational activities — Youth forum.

(1) Medical services :

Routine — 1) Medical Relief for adults and children

(2) Immunization clinic

(3) Under Five Clinic

- (4) Ante-natal clinic & mother craft clinic.
- (5) Family Welfare Centre.
- (6) T. B. Clinic.
- (7) Leprosy clinic
- (8) Ophthalmic Clinic
- (9) E. N. T. Clinic

**(2) Nutrition and Horticulture**

Nutritional rehabilitation centre at U. H. C.  
 C. R. S. Feeding Programme at U. H. C.  
 Feeding programme for T. B. Children.  
 Kitchen Garden at U. H. C.

**(3) Health Education**

Talks  
 Group discussion  
 Exhibitions  
 Films and slide shows  
 Demonstrations  
 Role playing.

**(4) Training Programme**

- a. Training of workers—
  - i) Community Health Workers
  - ii) Traditional birth attendants
  - iii) Child volunteers
  - iv) Youth group.
- b. Training Course—
  - i) First Aid Classes
  - ii) Adult literacy classes.

**(5) Special Projects—**

- 1. I. C. D. S. Project
- 2. Xerophthalmia Project.

**II — Nutrition Rehabilitation Centre**

The nutrition rehabilitation centre is run at the Urban Health Centre, Dharavi. About 140 children at the centre as well as in slums. malnourished children are fed nutritious demonstrations are carried

ot **III — Balwadies**

There are 5 balwadies run by the department of P. S. M. in the slums of Dharavi. In each Balwadi about 30 children are enrolled and given non-formal education, recreation and supplementary nutrition.

**IV — Training of the workers**

- (a) Community health workers scheme. It is continued and regular training to the new batch of women & refreshers training course is arranged for the group which is already trained.
- (b) Training of traditional birth attendants (DAIS). One batch of 10 was already trained under the programme. Second batch of 10 women are under training.
- (c) Training of children for child to child programme. 100 children were given training on various aspects of health under this programme.

**Department Activity :**

Health Supervision of School Children.

Cross road school and Transit Camp school Dharavi are included under school health programme. Medical Check-up and immunisation are carried out in both the schools, supplementary feeding programme was extended to Four standards and 3,500 children received supplementary feeding. In addition Audiometric check up, Health education talks by interns, Detection for Rheumatic fever and Prophylaxis for prevention of complications of Rheumatic fever, child to child programme was carried out Transit Camp group of school as well as at cross road group of schools.

**III -- Vit.A Prophylactic Programme.**

Oral Vit., a was given in Dharavi community by making home visits as well as at the Clinic.

Dose of Vit. A					Total
Ist Dose	IInd Dose	IIIrd Dose	IVth Dose	Vth Dose	
263	193	233	389	636	
VIth dose	VIIth dose	VIIIth dose	IXth dose		
179	143	167	174		

**IV. Under Five Clinic**

Under five clinics are conducted at Matunga Labour Camp, Urban Health Centre Dharavi. Minor ailments of these children are treated. If necessary they are referred to the specialist. B. C. G., Triple, Polio, Measles, Immunisation are carried out. Malnourished children are given Nutritional Aid, Health Education on the common problems is given to mothers (App. - 1).

**V. Child Welfare Centre :** The child welfare centre is conducted by the department of Preventive & Social Medicine at the L. T. M. M. College and Hospital compound and children are enrolled from 3 months onwards and are followed upto the age of five years (App. ).

**VI Medical Relief :** Adult patients and children were examined and treated at Dahravi Urban Health Centre and Matunga Labour Camp H. P. Area. Those who need specialist's treatment were referred to L. T. M. G. Hospital, T. T. & T. A. B. C. were given to adult population, Children were protected by D. P. T., Polio, Measles, T. A. B. (App. ).

**VII Urban Health Internship Programme :** Interns are posted for comprehensive health care to all Urban Slum Communities adopted by Preventive & Social Medicine Department.

**VIII Rome Project :** Lal Donger, Kala Killa, Naik Nagar are selected for this programme. Immunization and Vit A prophylaxis were conducted.

**Social Services :****(1) Community visits at Dharavi slums :**

a. M. L. C. Dharavi	— 214 visits
b. A. K. G. Nagar Dharavi	— 161 visits
c. Transit Camp Dharavi	— 215 visits
d. Kunchikorve Nagar Dharavi	— 162 visits
e. Muslim Nagar Dharavi	— 124 visits
f. Collecteral contacts for community.	— 50 Nos.
g. Health Talks.	— 150 Nos.

## 2. Community visits for Rome Programme :

- |                                       |              |
|---------------------------------------|--------------|
| a. Naik Nagar                         | — 112 visits |
| b. Lal Donger community.              | — 42 visits  |
| c. kala Killa                         | — 115 visits |
| d. Collectaral contacts for community | — 30 Nos.    |
| e. Health talks.                      | — 30 Nos.    |

## 3. Aids Provided for the Dharavi Slum Dwellers :

### A. Nutritional Aid to Children :—

- i. C. R. S. — Nutritional aid with the help of Catholic Relief services is given to the slums dwellers from Dharavi No. Beneficiaries — 150 children.
- ii. N. R. C. — Nutrition rehabilitation centre Dharavi. has enrolled 50 malnourished children. They are fed on Nutritions type of diet including milk once a day. Average attendance at each clinic is around 40.
- iii. Feeding for T. B. affected children. A high protein.
  - B. Economic aid in terms of Cash — 16 beneficiaries.
  - C. Clothes and toys were distributed to 50 beneficiaries.
  - D. School fees and Note books — 10 children were sponsored.
  - E. Employment — 7 women were provided with employment.
  - F. Referrals — Case work and followship in hospital — 200 cases.

### 4. Other Activities :

- a. **Literacy Classes** — Literacy classes are continued four times a week with the help of voluntary workers in four areas.
  1. Ramabai Nagar, 2. Indira Nagar, 3. C. W. C., 4. Nityanand Nagar.
- b. **Sewing Classes** — Sweing Classes are continued from Monday to Saturday at Urban Health Centre. A teacher is appointed, there are 6 sewing machines donated by various agencies and 50 women are under training. Tests are arranged once in Six months and certificates are issue to sewing women. One in community also there.
- c. **Balwadies** — 4 Balwadies at Kunchikorve Nagar, and One in each at Indira Nagar, Nityanand Nagar and Sidharath Nagar are continued. About 150 children enrolled. One New Balwadi started at Ambedkar Nagar in October 1986.
- d. 30 Mahila Mandals have been organised in Dharavi area.
- e. 15 Youth groups have been organised in Dharavi areas.
- f. 1583 T. B. patients have been diagnosed in Dharavi area and being followed up regarding treatment. This programme has been started from August 1982.
- g. Exhibition — M. M. P. Shah students gave lectures on handicraft to 10 girls.

(5) **Health Education** : Activities are continued regularly in the form of health talks, demonstration, exhibitions, films, slide shows etc., in all the communities.

(6) 73 classes on legal awareness for community woman.

(7) 2 Chalk making classes were organised for women.

### I World Health Day Celebration :

W. H. O. Day was celebrated on 7th April 1986

'Immunization : A chance for Every Child'.

The department of Preventive and Social Medicine at L. T. M. M. College, Sion, celebrated the World Health Day by organising an exhibition and seminar at O. P. D. building of L. T. M. G. Hospital, Sion Bombay-400 022.

The posters were displayed on various aspects of Immunization and vaccination programme for children was also carried out in the exhibition with the help of P. H. N. and Staff of P. S. M. department. About 121 children were immunised and were also advised to come for followup.

**II — T. B. Clinic :** This is conducted at Urban Health Centre, Dharavi. The adult suspected cases of T. B., are referred to Sion Hospital for further investigations. So far 654 cases are referred for investigations and they get their treatment at Urban Health Centre Dharavi. 894 children are treated at T. B. Clinic at Urban Health Centre, Dharavi.

**III — Leprosy Clinic :** This is conducted at Urban Health Centre, Dharavi thrice a week the help of the Bombay Leprosy Project. About cases of leprosy are under treatment.

**IV — Rehabilitation of Physically Handicapped :** The programme was started in June 67 with the help of I. S. R. R. The physically handicapped children who were school drop outs were included under this programme. The aim of this programme is to prevent juvenile delinquency and train every physically handicapped in some vocation through which he can earn and maintain himself. Two courses are conducted for the Physically handicapped namely — 1. Radio Repairing 2. Tailoring.

**V — Screening for Hand of Hearing :** This project is in collaboration with NASEOH & UNICEF and was started in August 1983. Under this project as a first phase 10,000 children between 0-10 years will be screened from Dharavi area. The group is divided into two sub-groups. The first group consists of 5,000 children from 6 years. in community 1,174 were found defective. The second group consists of 5000 children 6-10 years from school, 244 were found defective. 34 students were operated and 279 had minor ailments. The various activities of the programme are : —

1. Audiometric checkup of children.
2. Treatment of ear problems.
3. Rehabilitation of hard of hearing of children.
4. Training of workers and parents in care of ear.

**VI — Family Welfare Clinic :** Every Friday 2-3 women under sterilisation. Daily vasectomy operations are carried out as well as distribution of Oral pills and insertion of loops. Population is educated regarding small family norm. Vasectomies are carried out on all working day and vasectomies were carried out during 1986.

At this clinic the population is educated regarding small family norm daily.

#### **VII — Special Training Scheme :**

- a. Community health workers scheme. It is continued and regular training to a batch of women and refresher training course is arranged for the group which is already trained.
- b. Training of traditional birth attendants (DATS) Two batches were already trained under the programme. Another batch of women is under training.
- c. Training children child to child programme. 150 children were given training on various aspects of health under this programme. One more batch is under training.
- d. Training of youth.

#### **Health Education Activities :**

- a. Routine health talks on health promotional aspects is given in the Dharavi and other community under five clinics.
- b. Health exhibition is regularly held at Dharavi, Urban Health Centre. The posters on various aspect of health are displayed.
- c. Health education films are shown to the slum dwellers regularly. Centre for mothers attending under five clinics.

#### **Academic Activities :**

Preparation of audio visual slide show on : —

- a. Diarrhoea and importance of O. R. T. prepared by Dr. Gopa Kothari.
- b. Xerophthalmia project at Dharavi continued with the help of SHED.
- c. Xerophthalmia project at Bombay slums continued with the help of Royal Common Wealth Society for Blind (RCSB).

**Nurses Training School :** During the year 73 student nurses were admitted for training in the General Nursing and 22 students nurses for midwifery. 103 and 22 student nurses were sent for general nursing and midwifery Examinations respectively out of whom General Nursing and 19 midwifery students have passed.

**Ambulance Services :** Round the clock ambulance service is maintained at this Hospital.

**Poor Box Charity Fund :** The amount in the poor Box Charity Fund as on 31st March 1986 stood at Rs. 23,91,317.06 collection from the Boxes donations and other miscellaneous receipts during the year amounted to Rs. 13,04,351.74 and expenditure through the Poor Box Charity Fund was Rs. 7,30,658.74. The total amount in the fund as on 31st March 1987 stood at Rs. 29,65,010.06.

**Special Facilities For Municipal Employees :**—Separate counters have been kept reserved at the Registration Department, Dispensary and afternoon O. P. D. for the Municipal Staff. Fifty percent concession is granted in paying bed scheme.

The sale of drugs and Medicines for the benefit of patients have been started at this hospital through L. T. Medical College and Hospital consumers Co-operative Society from the year 1976.

DEAN  
L. T. M. G. HOSPITALS &  
L. T. M. M. COLLEGE,  
SION, BOMBAY : 400 022.

## APPENDIX -I-A

Period	Examination	Appeared		Passed		% of passing.	Name of the Student who stood first.	Total Marks.
		Male	Female	Male	Female			
APRIL 1986	1st M.B.B.S.	16	9	7	7	56.00	Patani Krutika	518/750
	2nd M.B.B.S.	43	55	31	50	79.38	Shah Y. V.	420/600
	3rd M.B.B.S. (old)	5	—	1	—	20.00	—	—
	3rd MBBS (Rev)	27	9	15	7	61.09	Dhangalkar Mahesh D.	905/1500
OCTOBER 1986	1st M.B.B.S.	44	64	23	48	66.74	Dhaygude Alpna D.	537/750
	2nd M.B.B.S.	19	13	6	3	28.12	Sheelvant Atul V.	363/600
	3rd M.B.B.S.	3	—	1	—	33.78	—	—
	3rd M.B.B.S.	72	23	45	27	75.78	Patwardhan Swati G.	1009/1500

## APPENDIX I-B

## Results of Post-Graduate Examination for year 1986.

Sr. No.	Examination	April 1986			October 1986.		
		Appeared	Passed	% of passing	Appeared	Passed	% of passing
1)	M. D. Medicine	7	3	42.85	11	7	63.63
2)	Obst. & Gyn. —M.D.	7	3	42.85	8	4	50.00
3)	M. D. Paediatrics	9	2	22.22	10	7	70.00
4)	Skin & V. D. —M.D.	2	—	00.00	1	1	100.00
5)	Anaesthesia —M.D.	5	3	60.00	7	5	71.42
6)	Radiology —M.D.	2	2	100.00	3	3	100.00
7)	Psychiatry —M.D.	1	1	100.00	1	1	100.00
8)	Pathology —M.D.	4	2	50.00	3	2	66.66
9)	Microbiology —M.D.	1	1	100.00	1	1	100.00
10)	D. M. Cardiology	3	2	66.66	3	2	66.66
11)	M. S. Gen. Surgery	11	5	45.45	11	7	63.63
12)	M. S. Orthopaedics	3	2	66.66	4	—	00.00
13)	M. S. E. N. T.	2	2	100.00	1	1	100.00
14)	M. S. Ophthalmology.	2	1	50.00	3	1	33.33
15)	M. Ch. Neuro-Surgery	1	1	100.00	1	—	00
16)	Thoracic Surgery—M. Ch.	1	—	00.00	1	1	100.00
17)	Urology —M. Ch.	1	—	00.00	2	—	00.00
18)	D. A.	8	8	100.00	—	—	—
19)	D. V. D.	1	1	100.00	—	—	—
20)	D. P. H. (Part I)	1	1	100.00	1	1	100.00
21)	D. P. H. (Part II)	2	2	100.00	—	—	—
22)	D. P. M. (Part-I)	1	—	00.00	3	1	33.33
23)	D. P. M. (Part-II)	1	—	00.00	—	—	—
24)	D. M. R. D. (P-I)	2	—	00.00	5	4	80.00
25)	D. M. R. D. (P-II)	4	1	25.00	5	1	20.00
26)	D. M. L. T.	10	5	50.00	4	2	50.00
27)	M. Sc. (P-I) (Biochemistry).	9	9	100.00	—	—	—
28)	M. Sc. (P-II) (Biochemistry)	10	10	100.00	—	—	—
29)	M. Sc. O. T.	5	3	60.00	—	—	—
30)	M. Sc. P. T.	7	6	85.71	—	—	—
31)	M. Ch. (Plastic Surgery)	—	—	—	1	1	100.00
32)	M. Sc. (Biochemistry) by research	—	—	—	2	1	50.00
33)	M. D. P. S. M.	—	—	—	1	—	00.00



## APPENDIX — II

## Papers Read and Published.

DEPARTMENT OF MEDICINE	Dr. S. A. Nanivadekar	1) 'Peptic ulcer in India Myths and Reality' paper read at Annual Gastroenterology Conference, at Patna.
		2) 'Antral Campylobacter in Chronic D. U. G. U. and Gastritis' paper read at Annual A. P. I. conference at Madurai.
		3) 'Fructose Tolerance Test in Portal Hypertension' paper accepted for reading at Annual Conference of A. P. I. at Madurai.
	Dr. P. S. Menon	1) 'Hypercalcaemia' Postgraduate Clinic in JAPI published in October 1986.
	Dr. G. Suhasini	
	Dr. R. Tahiliani.	
	Dr. P. S. Menon	2) 'Autoimmunity of Endocrine Disorders' Ind. Practitioner published in February 1986.
	Dr. Suhasini	
	Dr. G. Suhasini	3) 'Thyrotoxicosis secondary to TSH secreting pituitary tumour' Presented a paper at Endocrinology conference.
	Dr. P. S. Menon	
Dr. B. J. Damani		
Dr. P. G. Modha		
Dr. S. C. Abhyankar		
Dr. P. S. Menon	4) 'Aspiration cytology in the diagnosis of thyroid disorders' paper read at JAPI conference in January 1987.	
Dr. G. Suhasini		
Dr. M. H. Chawla		
Dr. R. Tahiliani		
Dr. C. P. Shroff		
Dr. Sawant P. D.	1) 'Long term survival after recurrent small bowel infarction due to non-specific arteritis'. paper published in Inj. Practitioner, 1986, 39, 49-53.	
Dr. S. A. Nanivadekar		
Dr. S. P. Pandit		
Dr. Vijay V. K.		
Dr. Nadkarni S. P.		
Dr. G. Suhasini	2) 'Bernard saulier syndrome presenting as recurrent exsanguinating haemetemesis' paper published in Ind. J. Gastroenterol, 1986, 5; 137-38.	
Dr. S. A. Nanivadekar		
Dr. P. D. Sawant		
Dr. M. B. Agarwal		
Dr. L. S. Bichile		
Dr. P. Y. Bavdankar		
Dr. K. Saraswathi	3) 'Campylobacter-like organisms (clos) from gastric antral mucosa' a preliminary report published in Ind. J. Microbiol, 1986; 4; 93-97.	
Dr. L. P. Deodhar		
Dr. S. A. Nanivadekar		
Dr. S. A. Nanivadekar	4) 'Giant Solitary Non parasitic Cyst.' published in JAPI 1986; 34, 442-444.	
Dr. L. S. Bichile		
Dr. R. R. Pai		
DEPARTMENT OF MEDICINE	Dr. S. A. Shanbhag	5) 'Immunoreactive inhibinlike material in duodenal ulcer patients and control paper published in Ind. J. Gastroenterol 1986; 5; 277-279.
	Dr. S. A. Nanivadekar	
	Dr. A. R. Sheth	
Dr. N. A. Sheth		
Dr. L. S. Bichile	1) 'Giant Solitary Non-para sitie Hepatic cyst. JAPI 1986, Vol, 34, No. 6, 442-43.	

2) 'Cerebral Mucormycosis- A clinics pathological study of four patients with review of literature, published in national conference during 1986-87.

3) 'Diagnostic & Thrapeutic G. I. Endoscopy' published in Indian Practitioner 1986, 39 No. 6, 577-584.

4) 'Fructose Tolerance test in Pertal hypertension-API Conference held at Madurai, Jan. 1987.

5) 'Campylobacter pyloridis in chronic, D. U., G. U. and Gastritis, API Conference held at Madhurai Jan. 1987.

6) 'Peptic ulcer in India Hyths & Reality Gastro-Enterology conference held at Patna, Oct. 1986.

**DEPARTMENT OF SURGERY** Dr. T. T. Changlani

1) Completed Trial of Debriphor glanular for local application in healing of wound.

2) Completed trial of Inj. Buprenorphine a new analgesic & send for publication.

3) Organised a workshop on evaluation in medical education in coloboration with NTCC (Chandigarh at LTMMC.

4) Prepared a workbook for surg. under gr. in collaboration with Dr. Nehra Lecturer.

Dr. V. V. Dewoolkar

1) Sq. cell carcinoma of ceacum-case report. Published in Indian Journal of Gastroenterology January 1987.

2) Serosal patch in intestinal fistula, published in Indian Practitioner July 1986.

3) Corelation of upper GI symptoms with gastroscopy findings published in SRS—December 1986.

4) Cancer.

**DEPARTMENT OF SURGERY** Dr. V. V. Dewoolkar

4) 'Cancer chemotherapy our experience at Sion Hospital' published in SRS—December 1986.

5) & 'Use of no antibiotics for routine surgery' published in Surgery in tropics 3rd February 1987.

Dr. V. D. Trivedi

1) 'Sclerotherapy for osophageal varicose' published in Indian Journal of Gastroenterology.

2) 'Endoscopic sphinchrotomy for obst. Jaundice' published in Indian Journal of Gastroenterology.

3) 'Acute Intra operative haemodilocation in General Surgery cases' published in Indian Journal of Gastroenterology.

- Dr. M. A. Gore
- 1) Acute gastric volvulus (case report) published in Indian Practitioners.
  - 2) Congenital anorectal anomalies published in Indian Indian Practitioners.
  - 3) 'Gangrene of colon in a case of haemolytic uraemic syndrome' published in Indian Practitioners.
- Dr. Meenakumar
- 1) 'Delayed cutaneous hypersensitivity reaction in cancer' published in Indian Practitioner.
  - 2) 'Our experience with cancer chemotherapy' Published in Indian Practitioner.
  - 3) 'Traumatic ventral hernia' published in Indian Practitioner.
- Dr. A. K. Gvalani
- 1) 'Serosal patch in Intestinal fistula' published in Indian Practitioner July 1986.
  - 2) Presentation of paper on cancer chemotherapy published in SRS—LTMGH December 1986.
- Dr. U. Sudarshan.
- 1) Author case report Retroperitoneal Teratoma published in Indian Practitioner in June 1986.
  - 2) 'Author case report Traumatic Abdominal Wall Hernia' published in Indian Practitioner February 1987.
- DEPARTMENT OF SURGERY**
- Dr. U. Sudarshan
- 'Coelation of Upper G.I. symptom with gastroscopy finding' published in S. R. S. January 1987.
- Dr. D. Nehra
- 'Total parenteral nutrition' published in Staff & Research Society.
- 'Sq. Cell Ca of caecum-case report' published in Indian Journal of GE.
- 'Use of No antibiotics in routine surgery' published in tropics 1987.
- 'Enterocutaneous fistula Role of modified TPN' published in Surgery in tropics 1987.
- Dr. Shaileshwar
- 'Co-author-case report Retroperitoneal teratoma' Published in Indian Practitioner.
- DEPARTMENT OF GYN & OBST.**
- Dr. P. R. Vaidya  
Dr. G. S. Rao  
Dr. Medhekar  
Dr. S. C. Shah
- 'Ultrasonic Biparietal Diameter in Indian Women' published in J, of Obst & Gynec India, Vol. 36, No. 5 October 1986.
- Dr. S. N. Tandon  
Dr. G. S. Rao  
Dr. Vaidya P. R.
- 'Antenatal Electronic FHR Monitoring in High risk pregnancies' (A study of 100 women) published in J. of Obstet. & Gynec of India, Vol. 36, No. 5.

Dr. P. R. Vaidya  
Dr. G. S. Rao  
Dr. N. S. Munshi  
Dr. Dharia

'Role of Hormonal cytology in Threatened abortion  
Clinician June 1986.

Dr. P. R. Vaidya  
Mrs. Neera Varma

'Cytological screening in Antenatal women' published in The Journal of Obstet. & Gynec of India Vol. 36, No. 1.

**DEPARTMENT  
OF  
PAEDIATRICS**

Dr. M. N. Mehta  
Dr. Subramaniam S.

'Comparison of Rice Water, Rice Electrolyte Solution & Glucose Electrolyte Solution in the Management of Infantile diarrhoea' published in Lancet 12th April 1986.

Dr. Alka Shah  
Dr. M. N. Mehta

'Accident Prevention in child hood' published in the Indian Practitioner.

Dr. J. Rangnekar  
Dr. M. N. Mehta

'Promotion of Growth' published in the Indian Practitioner December 1986.

Dr. M. N. Mehta

'Child Abuse & Neglect: Review article, published in the Indian Practitioner December 1986.

**DEPARTMENT  
OF  
PAEDIATRIC**

Dr. A. R. Fernandez  
Dr. Daruwalla

'Non-invasive techniques in Neonatology' paper published in Indian Practitioner.

Dr. (Mrs.) A. R. Fernandez  
Dr. S. Subramaniam

'Change in biochemical parameters following exchange transfusions' paper published in Indian Pediatrics in July 1986.

Dr. A. R. Fernandez  
Dr. Kiran Monga

'Changing bacteriological patterns in I. P. C. U. — paper published in Indian J. Pediatrics in 1986.

Dr. A. R. Fernandez  
Dr. K. Koranne

'Drugs in the foetus 1986 published in Indian Practitioner.

Dr. M. Kulkarni  
Dr. S. Subramaniam

'Protein-Energy Malnutrition' Paper published in Indian Practitioner in May 1986.

Dr. M. V. Kulkarni  
Dr. S. Subramaniam

'Common viral diseases in childhood' paper published in Indian Practitioner in September 1986.

**DEPARTMENT  
OF  
PATHOLOGY**

Dr. C. P. Shroff  
Dr. N. G. Kudterkar  
Dr. V. R. Badhwar

'Endometrial Ossification — Report of three cases with literature review' published in Indian J. Pathol. Microbiol at 1985.

Dr. C. P. Shroff

'Abrasive Bronchial Brushing Cytology. A. Preliminary study of 200 specimens for the diagnosis of Neoplastic and Non-neoplastic Bronchopulmonary Lesions' Paper published in Acta Cytologica in 1985.

Dr. C. P. Shroff  
Dr. S. Roy  
Dr. S. A. Nanivadekar

'Choriocarcinoma Presenting as Acute Abdomen Case Reports' paper published in Indian J. Gastroenterol in 1985.

Dr. C. P. Shroff  
Dr. R. R. Vast

'Salpingitis (Salpingo-oophoritis) — analytical study of a Hundred and Twentyfive Tuboovarian Masses with Clinicopathologic Assessment and review of Literature' paper published in the Indian Practitioner 38, 665-669, 1985.

DEPARTMENT  
OF  
PATHOLOGY

Dr. S. A. Nanivadekar  
Dr. P. D. Sawant  
Dr. C. P. Shroff  
Dr. D. H. Patel  
Dr. S. J. Bhatia  
Dr. A. Srinivas  
Dr. N. N. Kamath

'Gastric Ulcers in India,' Published in the Indian practitioner. 39, 577-581, 1985.

Dr. S. C. Abhyankar  
Dr. S. R. Desai  
Dr. R. R. Vast  
Dr. P. S. Ramani

'Massive Osteolysis of skull associated with Meningeal Sarcoma' paper presented at J. Indian Medical Association. 83, 67-69, 1985.

Dr. S. C. Abhyankar  
Dr. L. S. Bichile  
Dr. Alka Chabra

'Bilateral cerebral arachnoid cysts with mental retardation' paper presented in Indian J. Pediatric 52, 103-105, 1985.

Dr. S. C. Abhyankar  
Dr. P. S. Ramani  
Dr. V. A. Ambekar  
Dr. K. P. Deodhar

'Cerebral Nocardiosis' paper presented in JAPI 33, 182-183, 1985.

Dr. Alka Chabra  
Dr. S. C. Abhyankar  
Dr. N. U. Ranadive  
Dr. P. S. Ramani

'Spinal Cord neoplasm' paper presented in the Indian Practitioner, 38, 125-130, 1985.

Dr. S. J. Bhatia  
Dr. R. R. Vast  
Dr. S. P. Pandit  
Dr. Arun Srinivas  
Dr. P. D. Sawant  
Dr. L. S. Bichile  
Dr. N. N. Kamath  
Dr. S. A. Nanivadekar

'Bronchogenic Scar Carcinoma presenting with cardiac metastases' paper presented in the Indian Practitioner, 38, 319-324, 1985.

Dr. S. B. Pahajani  
Dr. S. H. Pantvaidya  
Dr. S. P. Pandit  
Dr. A. M. Patwardhan  
Dr. A. P. Chaukar

'Anomalous Origin of right pulmonary artery from ascending aorta with right ventricular endocardial fibroclastosis' paper presented in Paediatric Cardiology, 6, 47-50, 1985.

Dr. J. H. Desai  
Dr. A. C. Shah  
Dr. S. T. Nabar  
Dr. S. P. Pajamlar  
Dr. S. N. Deshmukh  
Dr. H. C. Merchant  
Dr. C. P. Shroff

'The role of flexible fiberoptic bronchoscopy in cases of haemoptysis of obscure aetiology' paper presented in the Indian Practitioner 38, 281-286; 1985.

Dr. Suhasini G.  
Dr. S. A. Nanivadekar  
Dr. C. P. Shroff  
Dr. L. S. Bichile  
Dr. Prabha Sawant  
Dr. P. Y. Bavdekar

'Bronchogenic carcinoma in young non smoking females' a report of 2 cases presente in the Indian Practitioner, 38, 311-317, 1985.

Dr. K. P. Deodhar  
Dr. N. U. Ranadive

'Xanthogranulomatous pyelonephritis—paper read at 34th I. A. P. M. Conference at Udaipur a clinical pathological study.

**DEPARTMENT  
OF  
PHARMACOLOGY**

'Role of cholinergic mechanism in the hypoglycemic action of B. Pertussis Vaccine' paper published in Jap. J. Expl. Med. University of Tokyo. 1986.

'Advances in Bronchial asthma Allergology et. Immunologica Suppl. X, 1986.'

'Advances in drug therapy. Update in the treatment of asthma — Advances in bronchial asthma' paper published in department in 1986.

'Triple vaccine induced hypoglycaemia in children' published in current Medical Practice, February 1986.

'Effect of some antinicrobial agents in primary amoebic meningoencephalitis in mice' paper presented In Indian J. of Medical Res. 83, February 1986.

'Comparative evaluation of captoprile and methyldopa monotherapy for hypertension' paper published in clinical Therapeutics 8, No. 5, 1986.

'Drug treatment of Peripheral Vascular disorders'— paper published in Indian Practitioner, January 1986.

'Immunomodulators' paper published in Indian Practitioner February 1986.

'Recent Advances in Pharmacotherapy of Malaria and the development of Malarial of Vaccine' paper published in Indian Practitioner April 1986.

'Newer Drug Delivery Systems' paper published in the Indian Practitioner, June 1986.

'Drugs and Ageing' paper published in the Indian Practitioner, in July 1986.

'Antiviral Chemotherapy' Paper published in the Indian Practitioner, September 1986.

'Drug Induced Systemic Diseases paper published in the Indian Practitioner, October 1986.

'General Aspects of Latrogenic Diseases' paper published in the Indian Practitioner, October 1986.

'A Text Book on child Psychiatry was published'.

**DEPARTMENT OF  
PSYCHIATRY** Dr. D. A. D'souza

**DEPARTMENT OF  
PHYSIO THERAPY** Mrs. B. V. Bellare

Miss Asha Sewani

'Comparative studies between cryotherapy and P.W.B. on strength of power grip and pinch in patients with Sudeck's atrophy of Hand' paper read at Annual Conference at Patna in February 1986.

'Comparative studies of hemodynamic parameters on M. V. C. in diabetic subjects' paper read in the Annual Conference at Patna in February 1986.

DEPARTMENT  
OF  
MICROBIOLOGY

Mrs. B. V. Bellare

'Early management of mutilated hand' paper read in the Annual Conference at Patna, In February 1986.

Dr. L. P. Deodhar

'Viral diseases of the newborn' paper published in the Indian Practitioner.

Dr. L. P. Deodhar

'Hepatitis B. antigen & serological evidence of syphilis' paper published in the Indian Practitioner.

Dr. L. P. Deodhar

'Nonspecific urethritis' paper published in the Indian Practitioner.

Dr. V. A. Ambekar

'AIDS and opportunistic infections' — Review paper published in the Indian Practitioner February 1986.

Dr. L. P. Deodhar.

Dr. V. A. Ambekar

'Study of mycetoma from Bombay' paper published in the Indian J. Medical Microbiol.

Dr. U. M. Tendolkar

Dr. H. Jerajani

Dr. V. A. Ambekar

'Iatrogenic fungal infections review' paper published in the Indian Practitioner in October 1986.

Dr. U. M. Tendolkar

Dr. L. P. Deodhar

Dr. Alka Gogate

'Effect of some antimicrobial agents in PAM in mice' paper published in Indian J. Medical.

Dr. V. Dadkar

Dr. Alka Gogate

'Immunological aspects of Amoebiasis' paper published in Indian Practitioner.

Dr. Lina Deodhar

Dr. L. P. Deodhar

'U. Urealyticum & its antibodies in NGU' paper published in IJMR.

Dr. Kshama Dabke

Dr. Alka Gogate

Dr. L. P. Deodhar

'Antimicrobial susceptibility testing of M. hominis' paper published in IJMR.

Dr. Alka Gogate

Dr. M. H. Bhatt

Dr. Kshama Dabke

'Incidence of U. urealyticum in NGU' paper published in 1986.

Dr. Lina Deodhar

Dr. Alka Gogate

DEPARTMENT  
OF  
MICROBIOLOGY

Dr. Alka Gogate

'Vaginal Candidiasis' paper published in Indian Practitioner.

Dr. Lina Deodhar

Dr. Renuka Bhatt

Dr. Lina Deodhar

'Microbiological screening of patients with vaginal discharge with special ref. to isolation of U. urealyticum' paper published in Indian Practitioner.

Dr. Alka Gogate

Dr. Alka Gogate

'Mycoplasma & Bad Obstetric History' paper published in J. Post Medical.

Dr. Lina Deodhar

Dr. R. Bhatt

Dr. Lina Deodhar

'Modified TALC medium for Mycoplasma' paper published in J. Path Micro.

Dr. Alka Gogate

Dr. Alka Gogate

'Lab. investigations of viral Diseases' Paper published in Indian Practitioner.

Dr. Dr. Alka Gogate  
 Dr. Lina Deodhar  
 Dr. Renuka Bhatt  
 Dr. Sharad Gogate

Dr. Lina Deodhar  
 Dr. Alka Gogate  
 Dr. Avinash Phadke

Dr. K. Saraswati

Dr. K. Saraswathi

Dr. D. V. Pandit

**DEPARTMENT OF  
 RESPIRATORY  
 DISEASES.**

**DEPARTMENT  
 OF  
 BIOCHEMISTRY**

**DEPARTMENT  
 OF  
 BIOCHEMISTRY**

'Significance of *U. urealyticum* in the study of placentas' paper published in Indian J. Medical Micro.

'Microbiological Aspects of male infertility' paper published in Indian J. Medical.

'Compylobacter like organism from gastric antral muco-a preliminary report' paper published in Indian J. Medical Microbiol.

'Diarrhoea associated with *Aeromonas hydrophila*' paper published in Indian J. Medical.

'*Gardnerella vaginalis* in Nonspecific vaginitis (NSV) paper published in Indian Practitioner 1986.

'Lung Host Defence Mechanism' paper published in Indian Practitioner, February 1986.

'Viral Pneumonia' paper published in Indian Practitioner, September 1986.

'Increased osmotic fragility of red cells in dogs with acute myocarditis produced by scorpion venom' paper published in Indian journal of Physiology and Pharmacology in July—September.

'Increased osmotic fragility of red cells after incubation at 37 for 24hr. in dogs with acute myocarditis produced by scorpion venom' paper published in Indian Journal of experimental Biology July 1986.

'Immune complex of Banana Oxalate Oxidase: use in quantitation of urinary oxalate' paper published in Analytical letter (International Journal).

'Levels of CSF GABA in tuberculous meningitis and pyogenic meningitis in children' paper published in Indian Journal of Clinical Biochemistry.

'Acid phosphatase activity in human semen' paper published in international journal of Fertility. (New York).

'Hyperglycemia and Hyperkalemia in Acute myocarditis induced by Scorpion venom' paper published in Indian Heart journal.

'Increased in serum free fatty Acids, phospholipids and Reduction in Total cholesterol in Acute Myocarditis produced by scorpion venom injection in Doge' paper published in Indian Heart journal vol. 38.

'Disseminated intravascular coagulation, disturbances in carbohydrate and fat metabolism in acute myocarditis induced by scorpion venom' paper published in I. J. M. R. (communicated).



'Reduced plasma insulin levels in acute myocarditis induced by scorpion venom injection (communication).

'CSF and serum LDH levels in children with Tuberculous and Pyogenic meningitis' paper published in Indian Pediatrics. (IN press).

'Pre valence and efiology of urinary stone disease in north east Bombay' (In communication) December 1986.

**DEPARTMENT  
OF  
CARDIOLOGY  
DEPARTMENT**

Dr. J. A. Parikh  
Dr. D. K. Kumbla

Review : Dopple Echocardiography, paper published in The Indian Practitioner in June 1986.

Dr. D. F. Daruwala  
Dr. V. K. Shah

Article : Contrast Echocardiography paper published in the Indian Practition in July 1986.

Dr. V. K. Shah  
Dr. D. F. Daruwala

Article : Digital subtraction angiography in Cardiac Disease, paper published in the Indian Practitioner in July 1986.

Dr. V. K. Shah  
Dr. D. K. Kumbla  
Dr. Shankaran K.

Case report : Rate Related Bundle Branch Block, paper published in the Indian Practitioner in January 1986.

Dr. D. K. Kumbla  
Dr. V. K. Shah  
Dr. Shankaran K.

Case report : Coronary Artery Spasm, paper published in the Indian Practitioner in January 1986.

Dr. J. A. Parikh  
Dr. D. K. Kumbla

Review : Idiopathic Cardiac Aneurysm in the Tropics, paper published in the Indian Practitioner in April 1986.

Dr. D. K. Kumbla  
Dr. J. A. Parikh

Review : Endomyocardial Fibrosis in the Tropics, paper published in the Indian Practitioner in April 1986.

Dr. J. A. Parikh

Prognostic value of pre-discharge for level test after acute MI, paper accepted for oral presentation of Annual Conference of C. S. I. meeting held on 15th to 18th October at Srinagar.

Dr. D. K. Kumbla  
Dr. J. A. Parikh

Review : Viral Myocarditis paper published in the Indian Practitioner in September 1986.

Dr. J. A. Parikh  
Dr. D. F. Daruwala  
Dr. V. K. Shah

Review : Iatrogenic Disease Resulting from Specialised Investigations in Cardiology paper published in the Indian Practitioner in October 1986.

Dr. V. K. Shah  
Dr. J. A. Parikh  
Dr. R. P. Nair

Prevention of Infective endocarditis, paper published in the Indian Practitioner in November 1986.

Dr. J. A. Parikh  
Dr. V. K. Shah  
Dr. U. Popat

Prevention of Rheumatic fever paper published in the Indian Practitioner in November 1986.

Dr. D. F. Daruwala  
Dr. V. K. Shah  
Dr. J. A. Parikh

**DEPARTMENT  
OF  
CARDIOLOGY**

Dr. J. A. Parikh  
Dr. V. K. Shah  
Dr. Popat U. R.

Dr. V. K. Shah  
Dr. Parikh J. A.

Dr. D. R. Daruwala  
Dr. V. K. Shah  
Dr. J. A. Parikh

Article : Prevention of Coronary heart disease, paper published in the Indian Practitioner Journal.

Review : Prevention of Rheumatic Fever, paper published in the Indian Practitioner in December 1986.

Review : Prevention of Infective Endocarditis paper published in the Indian Practitioner in December 1986.

Review : Prevention of Coronary Heart Disease, paper published in the Indian Practitioner in December 1986.

**RESEARCH**

**DEPARTMENT OF  
MEDICINE**

Dr. M. V. Divekar.

(a) Projects on Lipid profile in diabetes and glycosylated Haemoglobin were completed.

(b) Project on Serum ZN level in diabetes in started.

(c) Project on effect of guar gum on GTC in diabetes is started.

(d) Radio immune array of imulin in diabetes cauplatro.

(e) Glycosylated haemoglobin in chronic renal failure diabetes was completed. Paper was read by Dr. Abhyankar before Nephrologists in a meeting and also.

(f) Paper on haemolytic uraemic syndrome was read.

Dr. S. A. Nanivadekar.

(a) Antral campylobacter in chronic D. U., G. U. and Gastritis — 1st study in India.

(b) A prospective study on Gastropatities in patients on long NSAID therapy.

(c) Status of zing and other trace elements in Alcoholic liver disease.

(a) Study the effect of vegetable oil application on preterm babies.

(b) Study of outcome of meconium aspiration in new borns.

(c) Use of phenobarbitone in prevention of intraventricular haemorrhage in preterm babies.

(d) In full term babies for prevention of convulsions.

(f) Double blind study of 'Lartare' a galactogoue, to determine its efficiency on lactating mothers.

(g) Training of nurses in the care of critically ill newborns and care of premature babies.

**DEPARTMENT OF  
PAEDIATRICS**

DEPARTMENT OF Dr. D. A. D'souza.  
PSYCHIATRY

Drug trial on a comparative study of Doth.  
depression thro' Boo't's in company.

DEPARTMENT OF Dr. L. P. Deodhar.  
MICROBIOLOGY

ICMR Project on 'Study of Ureaplasma urealyticum from male genital tract infections and detection of specific antibodies to U. urealyticum serotypes by ELISA'. Sanction from August 1986 for 3 years.

Dr. Alka Gogate.

ICMR Project on 'Study of Mycoplasmal female genital tract infections with special ref. to immunofluorescence'. Sanction from December 1986 for 3 years.

Dr. K. Saraswathi  
Dr. L. S. Bichile  
Dr. L. R. Deodhar.  
Dr. S. A. Nanivadekar.

Campylobacter enteritis.  
on S. R. S. Project.

DEPARTMENT OF Dr. S. P. Pajankar  
RESPIRATORY  
DISEASES.

(1) Chlorine gas tragedy : A study of 62 chlorine gas victims.

Dr. Abhyankar.

(a) At 5th National congress on respiratory diseases at Jaipur in January 1986.

Dr. A. C. Shah.

(b) At annual meeting of Association of Physicians of India at Udaipur in January 1986.

(c) At function organised by IMA/SOCLEEN/C.L.O. at Bombay, in June 1986.

(2) At first National Update on Flexible Fibreoptic Bronchoscopy 'Bronchial vision' at Bombay in April 1986.

Dr. S. P. Panjankar.

(a) The role of Flexible Fibreoptic Bronchoscopy in diagnosis of hemoptysis a study of 100 cases.

Dr. S. T. Nabar.

(b) The role of Flexible Fibreoptic Bronchoscopy in diagnosis of pulmonary malignancy a study of 320 cases.

Dr. A. C. Shah

(3) At Bombay Port Trust :

(a) Mystery Unsolved 'Unsolved Bronchial Asthma' in October 1986.

(4) At Sixth National Congress in Respiratory Diseases :

Dr. A. M. Trivedi.

(a) The role of Flexible Fibreoptic Bronchoscopy in lower zone opacities for diagnosis of pulmonary tuberculosis A study of 72 cases at Bombay, December 1986.

DEPARTMENT OF Dr. S. P. Panjankar.  
RESPIRATORY  
DISEASE.

Diagnostic role of Flexible Fibreoptic Bronchoscopy in pulmonary malignancy.

**DEPARTMENT OF  
BIOCHEMISTRY.**

314

C. S. F. enzyme choline estern : GABA, LDH isoenzyms in infection of CNS.

Biochemical changes in Diabetic red cell in membranes.

SDH levels in stress induced by Immobilization and hypothermia.

Glycosylated proteins in diabetes and other conditions.

Biochemical studies CSF citrate levels in cerebrovascular Accidents.

Immunoglobulins levels in CSF in neurological diseases.

Studies in metabolic implication and genetic effects of antimalarial drugs, sponsored under Department of Atomic energy scheme.

Study of biochemical mechanisms of the patho physiology of accute myocarditis induced by scorpion Venom and its management.

Mitochondiral Respiration and Oxidative phosphorylation in human Thyroid Tissue.

Biochemical studies in Urolithiesis. Oxalate Oxidase activities in recurrent stone formation.

Lipid and lipoprotein profile in liver diseases.

Antibody detection by gel diffusion techniques.

Effect of pesticides insectisides on industrial employees by studying enzyme cholinesterase.

Standardization of gel diffusion test for detection of antibodies.

Detection of staphylococous, streptococcus, chalamode in case of information with spettionaemia by Elisa technique.

Purification of scorpion venom analysis of the fraction and preparation of antiser.

Biochemical studies of breast milk.

The leading on-going research projects are :—

(1) Haemorrhological study in peripheral vascular insufficiency.

(2) Blood Coagulation Disorders in blue babies.

**DEPARTMENT OF  
BIOCHEMISTRY.**

**DEPARTMENT OF  
CARDIOVASCULAR & THORACIC  
SURGERY**

**DEPARTMENT OF  
PHYSIOLOGY**

(3) Production of Humidifier for clinical use.

(4) Production of a heart valve substitute.

(1) Effect of vagotomy on blood glucose and insulin response to glucose load.

(2) Management of Scorpion (*Buthus tamulus*) venom induced arrhythmias.

**DEPARTMENT OF  
E. N. T.**

(1) Study of patients with caloriphagia.

(2) Prospective study of intracranial complications.

(3) Prospective study of Facial Palsy cases.

(4) Cigarette Paper patching for tympanic membrane perforations.

(5) Correlation of radiologic findings and operative findings in mastoid surgery.

**DEPARTMENT OF  
OPHTHALMIC**

(1) Correlation of cup Disc ratio & field changes in Glaucoma.

(2) Comparison of pre & Post Op. intra-ocular tension with different antiglaucoma filtering surgeries.

(3) Effect of various anaesthetic drugs on intra-ocular tension.

(4) Comparative study of anterior chamber and iridocapsular types of intra-ocular lens implants.

(5) Detection of different causative organisms in chronic dacryocystitis.

(6) Correlation between antero-posterior length of the eyeball degenerative fundus changes and the magnitude of myopia.

**CONFERENCE ATTENDED**

**DEPARTMENT OF Dr. M. V. Divekar.  
MEDICINE**

An International Conference was attended on recent advances in Medicine held at Hongkong from 20th to 25th September 1986.

**DEPARTMENT OF  
PAEDIATRICS**

Paediatric conference on Infectious diseases in children at Royal College of Physicians, was attended in London from 8th - 10th October 1986.

Meeting on Perinatology attended at Leicester from 29th - 30th in October 1986.

1st National Symposium on Pediatric Endocrinology was attended in January 1986 at Bombay.

Workshop on Evaluation of Medical Students; Conference attended in February 1986 at L. T. M. M. College, Sion, Bombay.

National Conference in Clinical Pharmacology, attended in September - October 1986 in Bombay.

**DEPARTMENT OF MICROBIOLOGY**

Dr. L. P. Deodhar.  
Dr. Alka Gogate.  
Dr. D. V. Pandit  
Dr. K. Saraswathi

Dr. K. Saraswathi

Dr. Alka Gogate.  
Dr. D. V. Pandit

Dr. Alka Gogate.

Dr. L. P. Deodhar.

**DEPARTMENT OF RESPIRATORY DISEASES.**

Dr. S. P. Pajankar.  
Dr. A. M. Trivedi.  
Dr. A. C. Shah.  
Dr. Abhyankar.  
Dr. S. N. Deshmukh.  
Dr. S. P. Panjankar.

Dr. S. P. Panjankar.

Dr. A. C. Shah.  
Dr. S. P. Pajankar.

Dr. S. P. Pajankar.  
Dr. A. M. Trivedi.  
Dr. A. C. Shah.  
Dr. Abhyankar.

Dr. A. C. Shah.

**DEPARTMENT OF PHYSIOLOGY**

Dr. K. R. Murthy.

**DEPARTMENT OF ANATOMY**

Dr. J. K. Bhatt.  
Dr. A. V. Bharadwaj.

23rd National Conference in Paediatrics, was attended from 14th — 26th November 1986 at New Delhi.

Xth National Congress of Indian Association of Medical Microbiologists held at Bangalore was attended on 20, 21, 22nd in October 1986.

VIIIth Maharashtra Chapter Conference of the Indian Association of Pathologists and Microbiologists was attended at Nasik.

Evaluation in Medical Education organised by National Teachers Training Centre, P. G. I. Chandigarh was attended from 18th to 21st February 1986 at L. T. M. Medical College, Sion, Bombay.

IV National Workshop on ELISA conducted at I. R. R. I.C. M.R., Bombay was attended from 1st — 24th December 1986.

Attended and participated in Sixth IOM (International Organisation for mycoplasmaology Congress held in Birmingham Alabama U.S.A. in August 26-31.

Attended the First National Update on Flexible Fibreoptic Bronchoscopy Bronchial Vision in April.

Attended the Recent Advances in Pulmonary Medicine at Jaslok Hospital in July.

Attended the Intensive Respiratory Care organised by Department of Anesthesia, Nair Hospital, Bombay in September.

Attended the scientific meeting organised by Western Chapter American College of chest physicians, in December 1986.

Attended the Sixth National Congress on Respiratory Diseases, in December 1986.

Attended the seminar on Cefazolin at Bombay, in December 1986.

Attended XXXII Annual Conference of Association of Physiologists and Pharmacologists of India in Hyderabad from December 27 to 29, 1986.

Attended a workshop on "Evaluation in Medical Education" conducted by P. G. I. Chandigarh in our institute in February 1986.

DEPARTMENT OF Sister Tutor  
NURSING Mrs. Nadkarni  
Mrs. A. Samuel.  
Mrs. R. George.

Psychiatric Conference was attended on 18th January 1986.

Sister Tutor  
Sisters  
Trained Staff.

Two days conference at K. E. M. Hospital and British Council on Neonatology were attended.

Sr. Tutor Thokal.  
Sr. M. Paul (L. W. Ward).  
A. N. M. Anaya Sawant.

Family planning workshop conducted at St. George Hospital on 18th and 19th December 1986.

Sister Tutor.  
Mrs. N. Hegde  
Mrs. S. Charya.  
Sister R. George.

One day programme of Ostomy care at Bombay Hospital was attended on 10th December 1986.

### ACHIEVEMENTS IN RESEARCH

DEPARTMENT OF Dr. R. V. Juvekar.  
E. N. T.

New method in repair of tympanic membrane — Double breasting myringoplasty devised, Associate Hon. Prof.

Dr. A. K. Gadre.  
Dr. Renuka Sawant.  
Dr. K. B. Bhargava.

New method of reopening of nostril following young's closure for atrophic rhinitis.

DEPARTMENT OF  
OPHTHALMIC

Insertion of intra-ocular lens implants after cataract extraction. This makes the thick aphakic glasses unnecessary.

Successful removal of intrahaem exudates by the technique vitrectomy.

Laser photocoagulation in the fundus for vascular diseases as well as retinal detachment. Trial of laser trabeculo-plasty in open angle glaucomas not controlled medically.

Detection of retinal detachments and intra ocular foreign bodies which were not visualised due to opacus media by means of ultrasonography.

Photography of a variety of fundus lesions for comparative studies over a period of time.

### PAPERS PRESENTED IN CONFERENCE

DEPARTMENT OF Dr. Hase  
MEDICINE Dr. Divekar.

A paper on Amoxycillin was presented at a conference of clinical pharmacology, held at G. S. Medical College on 1-10-1986.

Dr. L. S. Bichile.

Fructose Tolerance test in Portal hypertension, paper expected in API Conference held at Madurai, in January 1987.

Campylobacter pyloridis in chronic D. U., G. U. and Gastritis paper expected in API Conference held at Mandurai, in January 1987.

**DEPARTMENT OF Dr. V. R. Badhwar.  
OBST. & GYN.**

Dr. V. R. Ambiyé.  
Dr. Vaidya P. R.  
Dr. Shanbhag A. M.

Dr. Ambiyé V. R.  
Dr. Shroff.  
Dr. Vaidya P. R.  
Dr. Shanbhag A. M.

**DEPARTMENT OF Dr. M. N. Mehta.  
PAEDIATRICS.**

Dr. M. V. Kulkarni

**DEPARTMENT OF Dr. M. V. Kulkarni.  
PAEDIATRICS**  
Dr. S. V. Prabhu.  
Dr. Fernandez A. R.  
Dr. C. Chawla.

Dr. M. V. Kulkarni.  
Miss. M. Katdare.  
Dr. S. Subramaniam.  
Mr. Khalne.  
Dr. V. B. Athavale.

**DEPARTMENT OF Dr. K. P. Deodhar.  
PATHOLOGY.**  
Dr. N. U. Ranadive.

Dr. R. R. Vast.  
Dr. N. U. Ranadive.

**DEPARTMENT OF  
PHARMACOLOGY**

Peptic ulcer in India Hythu & Reality, a paper was expected in Gastro Enterology conference held at Patna, in October 1986.

Intrauterine foetal deaths 3 years study, a paper was presented in 14th Bombay Obstetrics and Gynaec Conference in June 1986.

Hysterectomy in Obstetrics, a paper was presented in International College of Surgeons Annual Conference held at Jaipur, in September 1986.

Colposcopy & Cytology & Biopsy correlation in cervical erosion, a paper was presented in All India Obst. & Gyn Conference at Ahmedabad, in December 1986.

Our Experience on Intensive Iron Supplementation to Anaemic Postnatal Mother; Paper presented the 27th National Conference of Indian Society of Haematology and Blood Transfusion in Trivendrum.

Clinico Haematological Profile of Hypoplastic Anemia in Children, paper presented in 10th Annual Conference of the Bombay Haematology Group-held at K. E. M. Hospital, Bombay.

Should breast Feeding be continued during diarrhoea in Infancy, paper presented in the XIX Annual Meetings of the Nutrition Society of India.

Relation of Maternal postnatal Anemias to Growth of Babies, paper presented in the XIX Annual Meetings of the Nutrition Society of India.

Oil application in preterm babies, paper presented in 23rd National Conference in Paediatrics from 14th November 1986 at New Delhi.

An experience at the clinic for developmentally sub-normal children, paper presented in 23rd National Conference in Paediatrics from 14th November — 16th November 1986.

Xanthogranulomatous pyelonephritis — paper read at 34th I. A. P. M. Conference at Udaipur, a Clinico pathological study.

Study of Epididymal Histology in relation to obstructive azoospermia, paper presented in 34th I. A. P. M. Conference at Udaipur.

On Basic mechanism of Acupuncture, paper presented in Guest lecture at International Conference on Medicine, August 1986 at Sri Lanka.



Mental depression & Acupuncture, paper presented in Guest lecture at International Conference on Medicine, August 1986 at Srilanka.

Cost Reduction in Hospital & Health Care, paper presented in Seventh Annual Conf. of Indian Bombay Society of Health Administrators, November — December, 1986.

Comparision of performance of students in objective and essay type examination, paper read at XII Annual conference of Pharmacologists, at Lonawala in Maharashtra in August 1986.

Sensitivity of Human fallowpian tubes to adrenergic agonists and its relationship with underlying disease paper read at XII Annual Conference of Pharmacologists of Maharashtra in August 1986 at Lonawala.

Comparative evaluation of antiulcer effect of anti-depressants. This paper was awarded 'Achari Prize' and Effects of Sodium Chloride chloroquine and quinine on neuromuscular junctions in rat, paper present in XIXth Annual Conf. of IPS in October 1986 at Srinagar.

Effect of Prostaglandin depletion on weenling rats, paper presented in Abstract sent for the above conference at Srinagar.

Serum lipid level in women receiving oral contraceptives paper presented in Abstract sent to the 3rd world conference on Clinical Pharmacology & Therapeutics in July 1986 at Sweden.

Objective examinatonns with special reference to multiple choice type questions, paper presented at the bi-monthly S & R Society meeting during October 1986 at Bombay.

Determination of urinary oxalate using immune complex of bānana oxalate oxide, paper presented in 55th annual meeting of Society of Biological Chemists (India) held at Trivendrum on 15th, 16th, 17th December 1986.

Glutamate dehydrogenase marker of alcoholic liver cell injury, paper presented in National Conference of Association of Clinical Biochemists of India held at Ahmedabad during 9th and 12th January 1986.

Lipid profile of alcoholic liver disease, paper presented in National Conference of Association of Clinical Biochemists of India held at Ahmedbad during 9th and 12th January 1986.

Increase in serum free Fatly acids in acute myocarditis produced by scorpion venom, papers presented in National Conference of Association of Clinical Biochemists of India held at Ahmedabad during 9th and 12th January 1986.

Alterations in erythrocyta Na-K. ATPase activjty induced by scorpion venom, paper presented in National Conference of Association of Clinical Biochemists of India held at Ahmedabad during 9th and 12th January 1986.

DEPARTMENT OF  
BIOCHEMISTRY

**DEPARTMENT OF  
BIOCHEMISTRY**

Increased osmotic fragility of red cells after incubation at 37 for 24 hrs. in dogs with acute myocarditis produced by scorpion venom, paper presented in National Conference of Association of Clinical Biochemists of India held at Ahmedabad during 9th and 12th January 1986.

Hypocalcemia and hyperkalemia in dogs with acute myocarditis produced by scorpion venom, paper presented in National Conference of Association of Clinical Biochemists of India held at Ahmedabad during 9th and 12th January 1986.

**GUEST LECTURE**

**DEPARTMENT OF Dr. Divekar  
MEDICINE**

On 4th October 1986, Dr. Divekar was invited to give a lecture on diabetes for general practitioners at All India Institute of diabetes, at Mahim.

**DEPARTMENT OF Dr. M. N.-Mehta  
PAEDIATRICS**

Invited to speak in International Symposium on 'Emergencies in the Neonate' to talk on 'Breast feeding during Diarrhoea' at Srinagar Kashmir.

Invited to speak on 'Oral Rehydration in the management of Diarrhoea' by Ugar-Khurd IMA-branch in a continuing Medical Education Seminar for General Practitioner.

Invited to speak on 'Detection of early Malnutrition' in the Seminar on 'Current Concepts on Prevention of Malnutrition 1986' organised by the Golden Jubilee Research foundation and Department of Paediatrics B. Y. L. Nair Hospital, Bombay.

**DEPARTMENT OF Dr. K. B. Bhargava.  
E. N. T.**

A great lecturer was invited in Gujrat State ENT Conference at Navsari in December 1986 to speak on management of Nasal Allergy.

He was invited as guest lecturer at Indian Medical Association at Bombay Branch to Speak on Nasal Allergy in February 1987.

**HONOURS CONFIRMED & AWARDS AWARDED**

**DEPARTMENT OF Dr. H. L. Dhar.  
PHARMACOLOGY**

Professor has been the President elect of South Asia Chapter of International Association of Asthmology.

Senior Associate Professor is the member of —

- (1) Advisory editorial board of Indian Journal of Pharmacology.
- (2) Editorial board of 'The Indian Practitioner.
- (3) Editorial board of 'Therapeutics and Drugs.

**DEPARTMENT OF Dr. A. R. Fernandes  
PAEDIATRICS**

Professor of Paediatrics (Neonatology) was awarded a senior common wealth fellowship in Neonatology for a period of 3 months in U. K. from 20th September 30th November 1986.

**APPENDIX III**  
**STATEMENT SHOWING BEDS ACCORDING TO**  
**DEPARTMENTWISE & SEXWISE**

DEPARTMENT	MALE	FEMALE	CHILDREN	UNCLASSIFIED	TOTAL
<b>(A) NON PAYING BEDS</b>					
Teaching Beds.					
MEDICINE	126	36	—	—	162
SURGICAL	120	36	—	—	156
ORTHOPAEDICS	36	24	12	—	72
GYNAEC	—	36	—	—	36
OBSTATRICS & PPM	—	120	—	—	120
ENT — AURAL	14	6	10	—	30
OPHTHALMIC	18	14	8	—	40
DERMATOLOGY & V. D.	12	8	6	—	26
PAEDIATRICS INCLUDING					
I.P.C.U. & R. C.	—	—	115	—	115
PAEDIATRIC SURGERY	—	—	24	—	24
PSYCHIATRIC	12	8	6	—	26
CARDIOLOGY & ICCU	14	6	—	10	30
UROLOGY	20	2	3	—	25
NEURO SURGERY	10	4	2	—	16
PLASTIC SURGERY	20	3	2	—	25
EMERGENCY WARD	—	—	—	10	10
A. K. D.	—	—	—	6	6
BURNS	—	—	—	16	16
TETANUS	—	—	—	16	16
C.V.T.S.	8	6	1	4	19
<b>TOTAL :</b>	<b>410</b>	<b>309</b>	<b>189</b>	<b>62</b>	<b>970</b>
<b>(B) PAYING BEDS</b>					
NON TEACHING BEDS					
MEDICAL & ALLIED	17	9	—	—	26
SURGICAL & ALLIED	17	10	—	—	27
CYNACE & OBSTETRICS	—	15	—	—	15
<b>TOTAL :</b>	<b>34</b>	<b>34</b>	<b>—</b>	<b>—</b>	<b>68</b>
<b>(C) BEDS RESERVED FOR BEST</b>					
UNDERTAKING STAFF					
MEDICAL	5	—	—	—	5
SURGICAL	5	—	—	—	5
<b>TOTAL :</b>	<b>10</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>10</b>
<b>GRAND TOTAL :</b>	<b>454</b>	<b>343</b>	<b>189</b>	<b>62</b>	<b>1,048</b>

## APPENDIX NO. IV

(A) Departmentwise distribution of admissions and Out-patients treated during the year 1985 &amp; 1986.

Sr. No.	Name of the department	In-Patients		Out-Patients	
		1985	1986	1985	1986
1	Medical	11859	11395	50235	47916
2	Surgical	9227	8359	46607	36231
3	E. N. T.	1515	1716	12513	10417
4	Ophthalmic	1116	1059	13388	8147
5	Skin	153	159	12732	9871
6	Dental	—	—	9046	8193
7	Paediatrics	7655	7120	20724	18688
8	Psychiatrics	755	716	2779	2190
9	Orthopaedics	3618	3017	20956	17492
10	Gynaec	2916	1452	6591	6759
11	Obstetrics	7660	9500	10886	11215
12	Neuro Surgery	445	412	828	638
13	Cardiology	1404	1605	494	511
14	Cardio Vasculer Thoracic Surgery	172	209	230	227
15	Plastic Surgery	492	495	403	413
16	Urology	447	455	576	361
17	Paediatric Surgery	1405	1566	11553	13227
18	G. I. Clinic	—	—	115	222
19	Chest Clinic	—	—	55	31
20	D. U. H. C. Medical	—	—	8517	7815
	Paediatric.	—	—	11892	10795
21	Remained on the last day of the previous year.	970	956	—	—
TOTAL :		50598	50191	230972	211359

## (B) Results of Treatment

Hospital	Cured	Relieved	Otherwise	Delivered	Expired
L. T. M. G. Hospital & Annapurnabai Deshmukh Hospital for women.	7538	19614	12076	6839	4138

## (C) Classification of deaths according to their time of admissions.

Within 24 hours of admissions	After 24 hours of admissions but within 3 days	After 3 days of admissions	Total Deaths.
1180	818	2140	4138

## APPENDIX V

Statement of donations received in Poor Box fund above Rs. 500/- for the period from 1st April 1986 to 31st March 1987.

Sr. No.	Receipt No.	Name	Donation Rs.
1	32762	S. V. Kulkarni	560.00
2	35527	Parents of Deaf Children.	2,345.00
3	39978	Manjuben	2,300.00
4	7228	A. M. Gore	600.00
5	11342	Lions club of Dadar	501.00
6	11383	Lions club of Wadala	3,000.00
7	11381	Sahid Ahmed Jalod	5,000.00
8	12388	Parents of Deaf children	630.00
9	12389	Parents of Deaf children	1,607.00
10	13340	Shashi Arora	1,000.00
11	14292	Kashibai Desai	700.00
12	15315	Maitrimandal Trust Gurudwara Bhavi Jogasingh	500.00
13	15352	Association	5,000.00
14	15372	Dewandhand	500.00
15	15400	Hiralal A. Ved	1,001.00
16	22467	Ramji Munji Chedda trust.	1,500.00
17	22488	M. P. Poncha	1,600.00
18	23499	Navin C. Mehta	500.00
19	25004	Dr. (Mrs.) K. J. Mistri	501.00
20	27302	Sir Dorbji Tata Trust	2,500.00
21	25027	T. T. Singh	500.00
22	28654	Mangalads Yelma	1,000.00
23	28655	Vidmit & Co.	1,500.00
24	28696	S. K. Rao	1,000.00
25	28700	M. V. Cheda	1,001.00
Total :Amount of Rs.			43,273.50

Total Donations below Rs. 500.

**APPENDIX No. VI**  
**EXPENDITURE PER IN-PATIENT-AND PER OUT-PATIENT PER DAY**

YEAR	DIET	MEDICINE DRUGS AND EQUIPMENTS	STORES & LINEN	MISCELLA- NEOUS	REPAIRS TO BUILDINGS	ESTABLISH- MENT	TOTAL
<b>In-Patient</b>							
1985-86	9.13	19.35	5.95	9.96	6.50	93.30	144.19
1986-87	5.75	16.37	5.64	7.90	7.06	95.18	137.90
<b>Out-Patient</b>							
1985-86	---	6.76	1.76	2.40	2.15	31.89	44.96
1986-87	---	2.90	0.99	1.40	1.25	16.83	23.37

**APPENDIX VII**

Prizes and Awards received by the Students during the year 1986.

- |   |  |
|---|--|
| 1) Dr. R. S. Tembe Prize for standing first in Final M.B.B.S. exam. held in October 1986. | Miss Patwardhan Swati G.   |
| 2) Smt. Shantabai K. Rao Prize for standing Ist in Medicine                               | Miss Patwardhan Swati G.   |
| 3) Dr. G. S. Ambardekar Prize for standing Ist and IInd MBBS class in October 1986.       | Ist Miss Dhaygude Alpana D.<br>IInd—Miss Gadwal Arudhanti V.                                 |
| 4) Dr. R. S. Damle, Memorial Gold Medal in Medicine. held on (13-8-86 & 16-8-86)          | Ist—Mr. Girish Deshpande<br>IInd—Mr. Krishnan.   |
| 5) Dr. B. R. Damle Memorial Gold Medal in P. S. M. (held in 13-8-86)                      | Ist—Mr. Ramnath Subramanium  |
| 6) Dr. G. N. Phadke Memorial Award in Pharmacology held on (16-2-87)                      | Ist—Shri Chaitalia Vipal C.<br>IInd—Miss Dalmia Mamata                                       |
| 7) Dr. G. M. Phadke Memorial Award in Surgery (held on 20-8-86 & 26-8-86)                 | Ist—Shri Rajiv Joshi.<br>IInd—Shri Anant Shivan.   |
| 8) Dr. B. M. Bhargava, Memorial prize in Obst & Gyn. (held on 8-8-86 & 11-8-86)           | Ist—Shri Sameer Desai.<br>IInd—Shri Shaiksh Kire.  |
| 9) Dr. B. M. Bhargava Memorial Prize in Anatomy. (held on 20-8-86)                        | Ist—Shri Shailesh Jobanputra<br>IInd—Shared between Seena Khanolkar & Anita Siva Subramanium |
| 10) Dr. C. M. Gadre, prize in Physiology held on (22-8-86)                                | Ist—Miss S. B. Mahabal.<br>IInd—Miss S. D. Dighe.  |
| 11) Dr. C. M. Gadre Prize in E. N. T. (held on 18-8-86 & 21-8-86)                         | Ist—Miss Sangeeta Muzumdar.<br>IInd—Shared between i) Sharmila Kudav & ii) Shivram Nadkarni. |
| 12) Dr. Athavale prize in Pathology held (on 23-2-87)                                     | Ist—Shri V. C. Chailalia.<br>IInd—Shared between i) Subbhangi Dangi & ii) Mamta Dalmia.      |
| 13) Dr. Athavale Prize in Paediatrics (held on 7-8-86)                                    | Ist—Shri Bhavin Thankaria.<br>IInd—Deshpande G. G.   |
| 14) Dr. Sathes prize in ophthalmology for Interns for the year 1986.                      | Shri U. S. Kinjawadekar.   |

**APPENDIX No. VIII**  
**Performance Targets and Achievements for the year 1986.**

Activity Name	Out-patients	In-patients	Out-patients	In-patients
1) Medicine	55038	12656	65984	11395
2) Surgery	50439	11194	43161	11498
3) Obst. Gyn..	17856	10713	16974	10957
4) Paediatrics	42752	8878	29483	7120
5) Casualty	26327	---	23824	---
6) Orthopaedics	22827	2223	19597	3017
7) E. N. T.	10094	1435	10417	1716
8) ophthalmology	9584	1032	7947	1044
9) Skin & V. D.	11620	167	9871	159
10) Psychiatrics	1687	758	2190	716
11) O. T. & P. T. Treatment	72496	290538	96963	295461
12) Dental	15502	---	16434	---
13) Dispansary	277549	---	259463	---
14) Social Service	20502	---	22896	---
15) Paying Ward (No. of patients)	---	1678	---	1242
16) Blood Bank				
i) No. of collection of blood bottles	---	9279	---	8843
ii) No. of blood bottles issued	---	8004	---	3477
17) Radiology (No. of X-Ray Plates)	---	106462	---	131772
18) Pharmacy				
i) Infusion of bottles				
ii) Vailes				
19) EW/Accidental serive				
i) Patients admitted	---	2443	---	2330
ii) Calls attended	---	108	---	58
20) Lab Service (No. of investigations)	---	411075	---	419791
21) Anaesthesiology (No. of patients)	---	14402	---	22518
22) Operation Theatre (No. of operations performed).	34082	20781	36908	23373
23) Cardiology	617	1479	511	1665
24) Municipal Staff No. of Mun. staff given Med. & drugs	---	34123	---	26667
25) Nursing School (No. of students given nursing training).	---	---	---	219

Revenue collected in form of fees for the period from 1-1-86 to 31-12-86 is Rs. 8,32,083.00.

# THE NAIR HOSPITAL DENTAL COLLEGE, BOMBAY — 8.

## HIGH LIGHTS.

Dr. D. R. Shahani, held the post of Dean during the year i.e. from 1-4-1986 to 31-3-1987. There was no occasion on which the provisions of the Bombay Municipal Servants' Act 1890 had to be brought into force during the year under report.

There was no Award or Adjudication during the year under report.

A mobile dental van for rendering dental treatment to the dental patients introduced in the year 1982-83, continued its work during the year under report. The treatment was rendered in those areas of slums, hutment colonies etc. in Greater Bombay, where treatment facilities are not available to the citizens.

21 members of the administrative staff of this Institution were awarded Dr. A. L. Nair & M. M. Venkatrao Memorial Cash prize and certificate for the year 1986-87.

## PATIENTS TREATED :

1,73,680 patients were treated in different departments of this Institution and the daily average was 475 patients. Total income and expenditure of this Institutions during the year was 8,46,845.15 and 77,63,008.21 and respectively as against the income of Rs. 8,10,524.61 and expenditure of Rs. 74,62,248.78 last year.

## STUDENTS SECTION :

### UNIVERSITY EXAMINATION RESULTS.

Examination	Total No. of students appeared.		Total No. of students passed.	
	April 1986	October 1986	April 1986	October 1986
I. B. D. S.	61	09	55	08
II B. D. S.	98	26	42	22
III B. D. S.	58	19	45	13
IV B. D. S.	36	17	31	13
Total	203	71	173	56
I. M. D. S.	18	—	18	—
II M. D. S.	14	8	11	08
Total	32	8	29	08

The college conducts four years course in Dentistry leading to the Degree of Bachelor of Dental Surgery and also post-graduate course in 8 Dental subjects leading to the Degree of Master of Dental Surgery of the University of Bombay.

## Hostel :

29 boys and 30 girls took advantage of the Nair Hospital Dental College Hostel which is at Haji Ali.

## Library :

During the year 291 books have been added to the collection. There are 7692 books in the Library. Currently, the Library Subscribes to 60 periodicals titles in addition to the complimentary periodicals and some college magazines. The Library holds 251 dissertations. There are 1911 bound volumes of the Journal.

## Special Equipment :

As regards special equipments, the college has 155 Dental units, some of them fitted with modern gadgets like Mini Air Turbuine units, kavov. Germany make 32 Nos. alongwith 18 Durr, imported Air Compressors. 167 Dental chairs, 90 Bench type engines, Jugeodent and W & H Austrian make for pre-clinical laboratories, upto date Operation Theatre with latest dental drilling engines and Boyle Apparatus Mk III with circle Absorber etc. 3 Nos. Dentsply Cavitron Ultrasonic Scaler, D. S. A. make, 1 No. of CS-76 Oryosurgical System unit, slide talk sound system. There are 5 dental X-ray units. 1) Ergohos-4 E 200 M. A.



X-ray unit with tomographic screening facilities. Cephalostate X-ray unit, (3) Heliodont — 60x-ray unit. (4) Heliodont — 70 x-ray unit with Dentotime (5) Status x-ray units. Siomens, and also (6) Orthoceph — 10 x-ray unit, Siemons, W. Germany make has been added to facilitate panogramic radiography.

Recently Jelrus Porcelain Furnace with Vucast Induction Casting Machine with relevant accessories was added to produce porcelain with bonded metal restoration.

The college has a ward of 16 beds (Male 8 and Female 8) specially for dental in-patients. Patients (2720 Male 1118 Female 371 children 4219) were admitted to the ward for treatment during the year 1986-87.

The staff engaged for different services in this college are Dental — 111 (2) Para-Dental — 58 (3) Medical — 26 (4) Non-Medical — 213.

#### **Resume of work done in the college.**

The total number of dental out patients treated in different clinics was 1,73,680 including School children from the various Municipal Schools in the morning as well as in the evening clinics which includes 81269 male, 57427 female and 34984 children. In addition to the above patients, 3784 patients were treated by the staff of Community mobile dental Service. The details of work carried out in different department are given in the appendices 'A' to 'L' attached herewith.

During the year, 135 dental camps were arranged by the Institution in different parts of Greater Bombay.

Sd/-

(Dr. D. R. Shahani)

Dean, NHDC

## APPENDIX 'A'

Summary of yearly Report of the Clinical work from 1-4-1986 to 31-3-1987.

Sr. No.	Description.	Total
1.	New Patients.	54057
2.	Old Patients.	1,19623
3.	Total Patients.	1,73680
4.	Male.	81281
5.	Female.	57427
6.	Children.	34984
7.	Silver filling.	10635
8.	Root canal filling.	1098
9.	Gold Inlays.	111
10.	Fixed Bridge.	—
11.	Jacket Crown.	447
12.	Scaling.	15248
13.	Gingivectomy & Gingiveplasty.	267
14.	Extractions.	32419
15.	3rd Molar Impaction.	606
16.	Surgical treatment for	
	a) Cyst.	21
	b) Fracture of Jaw.	—
	c) Cold well luc.	6
	d) Hemimandibalectomy & Osteotomy.	45
	e) Cleft Palate.	—
	f) Cleft lip.	—
	g) Condylectomy—	1
	h) Tumours.	5
	i) Maxilectomy.	3
	J) Plastic Reconstructive surgery.	—
17.	Transplantation of the teeth.	—
18.	Replantation of the teeth.	—
19.	X-ray	14280
20.	Fixed Appliances for Ortho treatment.	142
21.	Removal Appliances Ortho treatment.	182
22.	Full Dentures.	940
23.	Partial Dentures.	837
24.	Operations under G. A. cases.	216
25.	Operations under L. A. cases.	2176
26.	Extra Oral films.	2786
27.	Intra Oral films.	7861
28.	Occlusal films.	136
29.	Panagraph films.	2331
30.	Child films.	1136
31.	Total Collection (Paid) Rs. Np.	672212
32.	Free Cases. (Poor Box) Rs. Np.	—
33.	Grand Total Rs. Np.	672212
<b>X-Ray film A/c.</b>		
1.	Intra Oral Films.	7861
2.	Extra Oral Films (6 1/2" 8").	2063
3.	Extra Oral Films (8" x 10").	723
4.	Extra Oral Films (12" x 15").	—
5.	Panographs.	2331
6.	Occlusal Films.	136
7.	Child Films.	1106
8.	Total No. of Patients.	10912

## APPENDIX 'B'.

**DEPARTMENT OF ORAL SURGERY**  
**CLINICAL REPORT (YEARLY), FROM 1-4-1986 TO 31-3-1987,**

## (A) Oral Surgery.

Sr. No.	Particulars.	Total (Morning + evening)
1.	New Patients.	1961
2.	Old Patients.	6066
3.	Total patients.	8027
4.	Male	4621
5.	Female	2973
6.	Children.	433
7.	Check-up done.	2403
8.	X-Rays.	1335
9.	Sutures removed.	281
10.	Dressing.	532
11.	Teeth Ext.	1110
12.	Wiring.	176
13.	Blood urine exam.	285
14.	Abscess Incise.	62
15.	Alveoleotomy	17
16.	Apicectomy	40
17.	Aurioplasty (Vnilateral)	2
18.	Aurioplasty (Bilateral)	2
19.	Biopsy	87
20.	Bone Graft.	2
21.	Bilateral ankylosis with rib graft.	4
22.	Cyst	19
23.	Closure of O.A. F.	10
24.	Curettage of E. O. Sinus.	6
25.	Caldwell Lue.	6
26.	Condylectomy	1
27.	Curettage.	10
28.	Division of D. P. flap.	—
29.	Ext. of supernumarary.	2
30.	Excision of epulis.	1
31.	Excision of soft tissue.	2
32.	Exploration.	12
33.	Eminectomy.	2
34.	Impaction.	151
35.	Fracture.	305
36.	Frenectomy.	1
37.	Gland excision.	2
38.	Hemimandibulectomy.	2
39.	Mandibulectomy.	1
40.	Neurectomy.	12
41.	Osteotomy.	43
42.	Tumour Excision.	5
43.	Maxilectomy.	3
44.	Sialolithotomy.	1
45.	Repair of the lip.	1

Sr. No.	Description.	Total
46.	Resuturing.	9
47.	L. A. Cases.	2176
48.	G. A. Cases.	216
49.	Rupees.	62,550.00
50.	Free.	418
51.	Implant.	5
52.	T.M.J. Ankylosis with rib graft.	1
53.	T.M.J. Anlysis wi1h silastic.	1
54.	Osteomyelitis curettage.	1
55.	Rhinoplasty with bone graft.	5
56.	Scaling and gingivectomy.	1
57.	Release of T. M. J. Ankylosis.	6
58.	Trismus jaw opening	3
59.	Tongue tie.	1
60.	Sequestrectomy.	1
61.	Hemimaxilectomy.	2
62.	Reconstruction of mandible with skin graft.	1
63.	Release of S.M.F. with skin graft.	5
64.	Excision of hymph node.	1
65.	Multiple extraction.	4
66.	Soar revision.	2
67.	Alchole block.	1
68.	Closure of tracheostomy.	1
69.	Myotomy masseter.	1
70.	Geneoplasty.	1
71.	Plastic Surgery.	2
72.	High Lefort I Osteotom + Surgical split Osteotomy.	1
73.	Alveoplasty.	2
74.	Reconstruction of Left infraorbital lesion with silastic.	1
75.	Reconstruction of mandible with rib graft.	1
76.	Release of submucous fibrosis with skin graft.	1

### APPENDIX 'B' — (CONTD.)

#### (B) EXODONTIA DEPARTMENT

Clinical Monthly Report from 1-4-1986 to 31-3-1987.

Sr. No.	Description.	Total.
1.	New Patients.	22797
2.	Old Patients.	20693
3.	Total Patients.	43490
4.	Male.	27076
5.	Female.	16414
6.	Children.	—
7.	Consultation.	2748
8.	Prescription.	3613
9.	Teeth Ext.	32419
10.	G. A. Ext.	—
11.	Root Ext.	—
12.	X-Ray	1248
13.	Medication.	—
14.	Abscess Incise.	16
15.	Alveolectomy.	57
16.	Flushing.	9
17.	Flap Removed.	14
18.	Impacted Third Molar.	606
19.	Suture removed.	555
20.	C. O. Sinus.	4

Sr. No.	Description.	Total
21.	Dressing.	10
22.	Cyst operation.	21
23.	Rupees.	83303
24.	Paise.	50
25.	Free.	4350
26.	Biopsy.	7

### APPENDIX 'C'

#### DEPARTMENT OF ORAL ANATOMY, HISTOLOGY, ORAL PATHOLOGY AND MICROBIOLOGY

Clinical yearly report for the period from 1-4-1986 to 31-3-1987.

Sr. No.	Description.	Total.
1.	Pathology Biopsy.	31
2.	Surgical Biopsy.	298
3.	Total No. of Biopsy.	329
4.	No. of Paraffin Blocks.	509
5.	No. of Teeth & Embryo Blocks.	4
6.	Recutting of Block.	40
7.	Total No. of Blocks cut.(4 + 5 + 6).	553
8.	Total No. of paraffin slides.	1320
9.	No. of slides routine stained.	675
10.	No. of slides special stains.	200
11.	Total No. of stained slides. (i.e. 9 + 10).	875
12.	Total no. of slides prepared (i.e. 8 + 9 + 10).	2195
13.	Total No. of ground sections.	25
14.	No. of Dry specimens prepared.	6
15.	No. of Museum specimens prepared.	20
<b>HAEMATOLOGICAL INVESTIGATIONS.</b>		
1.	No. of Haemoglobin.	1320
2.	No. of Bleeding time.	1311
3.	No. of clotting time.	1311
4.	No. of W. B. C.	1295
5.	No. of white cell Morphology.	1295
6.	No. of Platelets count.	5
7.	Erythrocyte sedimentation rate.	407
<b>BIOCHEMICAL INVESTIGATION.</b>		
8.	Blood sugar.	435
9.	Serum Alkaline phosphatase.	28
10.	Serum cholesterol.	8
11.	Serum Electrolyte.	11
12.	Serum Creatinine.	10
13.	Serum Billirubin.	—
<b>SEROLOGICAL INVESTIGATION.</b>		
14.	V. D. R. L.	133
<b>BACTERIOLOGICAL INVESTIGATION.</b>		
15.	Culture and Sensitivity.	75
16.	Aspirated Fluid for Cholesterol crystal.	135
<b>URINE INVESTIGATION.</b>		
17.	Urine Sugar.	1311
18.	Bile salt and Bile pigment.	1311

## APPENDIX 'D'

**DEPARTMENT OF ORAL DIAGNOSIS AND RADIOLOGY**  
**CLINICAL YEARLY REPORT FOR THE PERIOD FROM 1-4-1986 to 31-3-1987.**

Month.	Intra-Oral	Extra-Oral 6½ "x 8½"	Extra-Oral 8" x 10"	Panograph.	Occlusal.	Child.	No. of Patients.
April, 1986.	838	2	272	203	10	99	1013
May, 1986.	701	252	272	23	18	88	883
June, 1986.	727	252	—	204	9	148	1000
July, 1986.	219	187	179	241	12	100	653
August, 1986.	132	231	—	206	7	69	477
September, 1986.	490	203	—	211	8	75	775
October, 1986.	574	281	—	233	14	119	819
November, 1986.	771	208	—	296	15	148	1145
December, 1986.	739	179	—	205	9	170	1031
January, 1987.	694	185	—	218	5	120	953
February, 1987.	1004	191	—	155	13	—	1151
March, 1987.	972	—	—	136	16	—	1012
Total	7861	2063	723	2331	136	1136	10912

## APPENDIX 'E'

**DEPARTMENT OF PERIODONTOLOGY**  
**Clinical Report from 1-4-1986 to 31-3-1987.**

Sr. No.	Description	Morning	Evening	Total
1.	New Patients.	6729	2448	9177
2.	Old Patients.	10021	7193	17214
3.	Total Patients.	16750	9641	26391
4.	Male	10831	5708	16539
5.	Female.	5778	3889	9667
6.	Children.	116	69	185
7.	Medication	66	33	99
8.	Consultation.	6852	2444	9296
9.	X-Rays.	252	93	345
10.	Scal. (Incomp.)	5669	4614	10283
11.	Scal. (Comp.).	2875	2090	4965
12.	Free.	377	278	655
13.	Curettage.	190	66	256
14.	Gingivectomy.	183	84	267
15.	Free	44	12	56
16.	Flap Surgery.	165	73	238
17.	Pack removed.	567	231	798
18.	Impression	2	—	2
19.	Splints	2	3	5
20.	Occl. Adj.	12	2	14
21.	Acute inf.	—	—	—
22.	Frenectomy	9	3	12
23.	Abscess drained	—	—	—
24.	Grafts.	12	5	17
25.	Rupees.	38702	25296	63998

## APPENDIX 'F'

THE NAIR HOSPITAL DENTAL COLLEGE, BOMBAY — 400 008.

## OPERATIVE DEPARTMENT

Clinical Yearly report for the period from 1-4-86 to 31-3-1987.

Sr. No.	Particulars.	Total.
1.	Old Patients.	25155
2.	New Patients	4080
3.	Total Patients.	29235
4.	Male patients.	16736
5.	Female patients.	12499
6.	Consultaion.	6652
7.	Medication.	3136
8.	Cutting & ZnOE	6629
9.	Ag. filling paid.	5350
10.	Ag. filling Free.	902
11.	Total Ag. fillings.	6252
12.	Silicate filling paid.	289
13.	Silicate filling free	28
14.	Total Silicate fillings.	317
15.	Inlay Paid.	96
16.	Inlay free.	15
17.	Total Inlays.	111
18.	Full Crown paid.	450
19.	Full Crown Free.	116
20.	Total Full Crowns.	566
21.	Jacket Crown paid.	369
22.	Jacket Crown Free.	66
23.	Total Jacket Crowns.	435
24.	Root Canal filling paid.	832
25.	Root Canal filling free.	184
26.	Total Root Canal fillings.	1016
27.	Root Canal Dressing.	2146
28.	Pulpotomy Paid.	127
29.	Pulpotomy free	40
30.	Total pulpotomy.	167
31.	Apiscetomy paid.	28
32.	Apisectomy Paid.	1
33.	Total Apisectomy.	29
34.	Dowel Crown paid.	56
35.	Dowel Crown Free.	22
36.	Total Dowel Crowns.	78
37.	Composite fillings paid.	102
38.	Composite fillings free.	6
39.	Aspa filling paid.	12
40.	Aspa filling free.	1
41.	Chem fillings paid.	80
42.	Chem fillings free.	9
43.	J. C. Gold backing paid.	31
44.	J. C. Gold backing free.	Nil
45.	Blood Test.	29
46.	Urine Test.	17
47.	Zinc Phosphate cement filling.	26
48.	Handing over X-ray films to patient.	13
49.	I. O. X-ray paid.	3537
50.	I. O. X-ray free.	811
51.	Panoramic X-rays paid.	4348
52.	Light cured.	8
53.	Amount collected Rs.	1,27,522.50

## APPENDIX — G

## DEPARTMENT OF ORTHODONTIA

Clinical Yearly Report for the period from 1-4-1986 to 31-3-1987.

Sr. No.	Description.	- Total.
1.	New Patients' Visits	891
2.	Old Patients' Visits.	9,694
3.	Total Visits.	10,585
4.	Male Adults	3,795
5.	Female Adults	6,790
6.	Impressions.	1,400
7.	Panorex	575
8.	X—Rays.	146
9.	Cephalograms.	522
10.	Photographs.	247
11.	New Patinets' Treatment started. (Diagnosis Done).	324
12.	Removable Appliance New Patients'	182
13.	Fixed Appliance New Patient	142
14.	Fixed Appliance Adjustments.	1,124
15.	Removable Appliance Adjustments.	1,943
16.	Myofunctional Appliances	76
17.	Space Maintainers given	70
18.	Habit Breaking Appliances	130
19.	Special Appliance (Cleft Palate)	20
20.	Extra Oral Appliance	35
21.	Retention Plates (Complete Cases)	89
22.	Checkup done.	3,859
23.	Charges.	242
24.	Free Cases.	91
25.	Amount Collected Rs.	1,32,685



## APPENDIX — 'H'

Clinical Yearly Report of Pedodontia Department for the period from 1-4-1986 to 31-3-1987.

Sr. No.	Description.	Total.
1.	New Patients.	5,826
2.	Old Patients.	17,708
3.	Total Patients.	23,534
4.	Complete treatment under G. A.	113
5.	Consultation.	4,826
6.	Medication.	1,790
7.	X-Ray.	837
8.	Cavity cutting & ZnOE.	4,905
9.	Ag. filling paid.	3,423
10.	Ag. filling free	960
11.	Total Ag. fillings.	4,383
12.	R. C. filling paid.	60
13.	R. C. filling free.	22
14.	Total R. C. filling.	82
15.	Pulpotomy paid.	280
16.	Pulpotomy free.	46
17.	Total Pulpotomy.	326
18.	Scaling/Polishing paid.	591
19.	Scaling/Polishing free.	128
20.	Total Scaling/Polishing.	719
21.	Extractions (Paid).	7,000
22.	Extractions free.	907
23.	Total Extractions.	7,907
24.	Blood & Urine investigation.	93
25.	Jacket Crown.	12
26.	Composite filling.	47
27.	S. Maintens.	9
28.	Fisher filling.	38
29.	S. S. Crown.	12
30.	Light Crown.	1
31.	Gold Inlay.	3
32.	Full Crown.	4
33.	Flap Operation.	5
34.	Silicate filling.	5
35.	Hajbib.	2
36.	Fluoride.	12
37.	Pulpcapping.	137
38.	Part Dentures Delivered.	3
39.	Fractures.	1
40.	R. C. Dressing.	1,095
41.	Apisectomy.	3
42.	Total collection Rs.	34,552.00.

## APPENDIX ' H'

Clinical yearly report of School Clinic at Nair Hospital  
Dental College for the period from 1st April 1986 to 31st March 1987.

Sr. No.	Description.	Total.
1.	New Patients.	1,783
2.	Old Patients.	7,907
3.	Total Patients.	9,690
4.	Consultation	1,262
5.	Medication.	172
6.	X—Ray	286
7.	Cavity cutting & ZnOE.	2,184
8.	A. G. Filling Free.	1,696
9.	R. C. Filling free.	48
10.	Pulpotomy.	91
11.	Scaling/Polishing.	568
12.	Extractions.	2,389
13.	G. A.	1
14.	Fi-fisher filling.	2
15.	Jacket Crown.	3
16.	S. S. Crown.	1
17.	Silicate filling.	2
18.	Part Dentures Delivered.	1
19.	R. C. Dressing.	402
20.	Pulp capping.	33
21.	Check Up.	571

## APPENDIX 'I'

## PROSTHETIC AND CROWN AND BRIDGE DEPARTMENT.

Clinical yearly report for the period from 1st April 1986 to 31st March 1987.

Sr. No.	Particulars.	Total.
<b>PATIENTS ATTENDANCE :</b>		
1.	New Patients.	2,542
2.	Old Patients.	9,274
3.	Total Patients.	11,816
4.	Male Patients.	7,614
5.	Female Patients.	4,196
6.	Children.	6
<b>WORK DONE :</b>		
7.	Consultation.	2,542
8.	Complete dentures.	940
9.	Immediate Complete denture.	1
10.	Over denture.	1
11.	Partial dentures.	837
12.	Immediate partial dentures.	15
13.	Repair of dentures.	296
14.	Cast Crowns.	42
15.	Jacket Crown in Acrylic.	27
16.	Obturator.	6
17.	Relining & Rebasing.	11
18.	X-Rays.	75
19.	Total Collection (Revenue).	89,495.00
20.	Bridge (3 units).	48
21.	Bridge (4 units).	11
22.	Bridge (5 units).	6
23.	Bridge (6 units).	2
24.	Bridge (7 units).	1
25.	Bridge (8 units).	2
26.	Bridge Ceramic (3 units)	1
<b>FREE WORK DONE DURING THE YEAR :</b>		
27.	Complete Dentures	167
28.	Partial Dentures	250
29.	Immediate partial dentures.	2
30.	Repair of dentures.	35
31.	Cast Crown.	7
32.	Bridge (3 units).	25
33.	Bridge (4 units).	1
34.	Bridge (6 units)	1
35.	Bridge Ceramic (3 units).	1
36.	X-Rays.	20

**APPENDIX 'J'**

Community Dentistry.

Clinical yearly report for the period from 1st April 1986 to 31st March 1987.

Months	Particulars Camps.	Patients treated
1. April 1986	6	109
2. May 1986	5	667
3. June 1986	6	90
4. July 1986	10	204
5. August 1986	13	250
6. September 1986	11	366
7. October 1986	16	335
8. November 1986	15	353
9. December 1986	15	525
10. January 1987	12	318
11. February 1987	9	332
12. March 1987	12	335
Total :		3784

**APPENDIX 'K'**

List of Scientific Publication and Papers read during the year 1986-87.

**DEPARTMENT OF ORAL PATHOLOGY, MICROBIOLOGY, ORAL ANATOMY & HISTOLOGY.**

Sr. No.	Year	Subject	Particulars.
1.	1986 January	Squamous Cell Carcinoma of Lower lip.	I. D. A.
2.	1986 February	Hemangioma of lower lip.	I. D. A.
3.	1986 March	Lupus Erythematosus.	I. D. A.
4.	1986 April	Cancer of the lower lip.	I. D. A.
5.	1986 May	Carcinoma-in-situ of the lower lip.	I. D. A.
6.	1986 June	Lichen Planus of the lower lip.	I. D. A.
7.	1986 July	Heck's Disease	I. D. A.
8.	1986 August	Mycocoele.	I. D. A.
9.	1986 September	Oral Squamous Papilloma.	I. D. A.
10.	1986 October	Traumatic Fibroma.	I. D. A.
11.	1986 November	Submucous Fibrosis.	I. D. A.
12.	1986 December	Carcinoma-in-situ of lower lip.	I. D. A.
1.	1986 August	Effect of Intralesional injections of Betamethasone Sodium Phosphate in oral Lichen Planus.	Journal of oral Pathology Vol. 15; No. 7 Pg. 399.
		Clinical Atlas of Oral diseases published by I. D. A.	

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**PERIODONTOLOGY**

Dr. P. K. Bhambhani                      Chemical Plaque control.  
Dental Dialogue Vol. 11 No. 3 Page 39.

**Presentations :**

Dr. I. D. D'Silva                              On invitation from the Himachal Pradesh State Dental Conference of Indian Dental Association conducted a refresher course on **PRACTICAL ASPECTS OF PERIODONTAL THERAPY** on 23 x 86 in the afternoon session. Venue : Holiday Home, Shimla,

Dr. I. D'Silva took over as the President of the Indian Society of Periodontology on 26th October 1986 at Shimla.

Dr. I. D'Silva and Dr. H. N. Vijayakar carried out a research project 'A' double blind clinical trial with three toothpastes to evaluate the effect on plaque control and gingival inflammation'.

This was in collaboration with Messrs. Hindustan Lever Research Centre, through the Nair Hospital Dental College Golden Jubilee Research Endowment.

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**PROSTHETIC**

Name : Palatal Mucosa under dentures : A qualitative histologic and histochemical analysis (Pg. 574).

Authors : Dr. A. K. Sharma nee Wadkar & Dr. F. D. Mirza.

**ORAL DIAGNOSIS & RADIOLOGY**

Disseminated Intra-Vascular Coagulation.  
(A Case Report).

by

Dr. (Miss) B. K. Parekh & Dr. S. A. Jakhi.  
Journal of I. D. A., Jan. 1987. 59 : 13-17.

**DEPARTMENT OF CONSERVATIVE DENTISTRY.**

List of Scientific Publications & Papers read during the year 1986-87.

Sr. No.	Name	Research conducted
1.	Dr. D. R. Shahani. Dr. Shishir Singh.	The antibacterial efficacy of 50% Citric acid and 5.25% Sodium Hypochloride in infected root canal therapy.
2.	Dr. D. R. Shahani. Dr. Anjali Gandhi.	A comparative study of Apical sealing ability of Dentin Adhesit and Conventional Zinc Oxide Eugenol root canal sealer.
3.	Dr. D. R. Shahani.	Clinical trial & Dentifrices on plaque control & gingival inflammation.
4.	Dr. D. R. Shahani.	Comparative Study of G. I. Cements & Conventional Composites.

**(ORAL & MAXILLO FACIAL SURGERY DEPT.)**

Following Scientific papers were presented at the 12th Annual Conference of Oral & Maxillo-facial Surgery in Dec. 1986, at Lucknow.

1. Simultaneous mobilization of maxilla and mandible for the correction of facial deformities. — Awarded Ginwala's Trophy for best paper (1st Prize) — Dr. J. N. Khanna.
2. Correction of middle third deformities (Second Prize) — Dr. J. N. Khanna.
3. Mandibular deformities and their management. — Dr. J. N. Khanna.
4. Surgical management of malunited facial fractures.
5. Problems in the surgical management of temporomandibular joint ankylosis — Dr. J. N. Khanna.
6. The role of eminectomy in the management of clicking and subluxation of the T. M. Joint. — Dr. J. N. Khanna.

**Scientific Publications accepted for 1985-86, 1986-87.**

1. Trigeminal Neuralgia — Report of 140 cases.  
Dr. J. N. Khanna & Dr. J. S. Galinde.  
Int. J. Oral Surgery. 1985 : 14 : 325-332.
2. Cervical Infection due to an Unusual Displacement of Teeth as a result of Trauma.  
A Case Report.  
Dr. J. N. Khanna, Dr. Mrs. N. A. Malik, Dr. J. S. Galinde, Dr. Mrs. N. N. Andrade.  
Int. J. Oral Surgery. 1987 : 16 (Accepted for publication 30-11-86).
3. X-Ray Oddities — A Misleading Radio Opacity.  
Dr. Mrs. B. P. Hiranek, JIDA, Vol. 58, July 1986 249.
4. Replantation of an Avulsed Tooth.  
A Case Report.  
Dr. K. C. Kapadia, Dr. Mrs. B. P. Hiranek, D  
Dental Dialogue 11,3,44-46, 1986.
5. Modified Acrylic Splints for Osteotomies.  
Dr. Mrs. N. A. Malik, Dr. Mrs. T. P. Khubchandani.  
IJOMS. Jan. 1986.
6. Book Abstracts.  
Dr. Mrs. N. A. Malik, Dr. C. P. Mathai.  
IJOMS. Jan. Feb. Mar. 1986.

**Papers sent for publication (1986-87) :—** (1) Stereoscopic cephalometry in the study of dento-facial relationship. JIDA-1986. Dr. M. D. Shringarpure & Dr. L. G. Shirwadkar. (2) Comparison between gap and interposition arthroplasty.

## APPENDIX — L

Prize and Awards won by the staff and students of the college.

Sr. No.	Name of the Students Academic	Name of Prize.
1.	Miss Khandekar Sonali A.	I B.D.S. Silver Jubilee Scholarship.
2.	Miss Lodaya Jagruti J.	II B.D.S. Silver Jubilee Scholarship.
3.	Miss Alappaden Jasu J.	III B.D.S. Silver Jubilee Scholarship.
4.	Shri Deodhar Sumukh S.	IV B.D.S. Silver Jubilee Scholarship.
5.	Miss Alappaden Jasu J.	III B.D.S. Dr. J. M. Dubash Scholarship.
6.	Shri Deodhar Sumukh S.	IV B.D.S. Dr. P. P. Shahani Scholarship.
7.	Shri Deodhar Sumukh S.	IV B.D.S. Best Student Award.
8.	Miss Rathi Purnima J.	IV B.D.S. Best Student Award.
9.	Miss Modi Sonali A.	IV B.D.S. Raksha Dharia Scholarship.
10.	Miss Alappaden Jasu J.	III B.D.S. Dr. Vinod Bhatt Scholarship.
11.	Miss Malaney Kalpana G.	III B.D.S. Dr. Vinod Bhatt Scholarship.

2. Best student award delivered by Medical Welfare Trust —  
one for Male and one for Female.  
Male : Shri Deodhar Sumukh S.  
Female : Miss Rathi Purnima J.

3. University Prizes and Awards :

1. Shri Deodhar Sumukh S. obtained Dr. Keki Mistry Gold Medal for securing highest number of marks in Orthodontia at Final B. D. S. Examination held in April — 1986.
2. Miss Modi Sonali A. obtained Dr. Keki Mistry Gold Medal for securing highest number of marks in Orthodontia at Final B.D.S. Examination held in April-1986.
3. Shri Deodhar Sumukh S. obtained the Rustomji Bejonji Vachha memorial Scholarship for 1986 for securing highest number of marks in Final B.D.S. Examination held on April-1986.
4. Shri Deodhar Sumukh S. obtained the Dr. Jimmy N. Dubash prize for 1986 for securing highest number of marks in the subject of Prosthetic Dentistry at Final B.D.S. Examination held in April 1986.

4. VISITORS : NIL.

# ANTI-TB SERVICES AND GROUP OF T. B. HOSPITALS

## High-Lights of the Year 1986-87.

### I The services aim at the following :

1. To ensure proper control and the effective working of the Anti-TB activities conducted by the various agencies in Greater Bombay to bring Tuberculosis reasonably under control.
2. To give the concentrated attention to the management and the implementation of the measures on the guide-lines of the policies adopted on the national policies for TB Control, *i.e.*, by the State and the Central Government Health authorities.
3. To co-ordinate and manage the whole TB programme by associating all the agencies including the voluntary and private charitable organisations.
4. To remove short-falls which are in existence in the TB Control Programme.
5. Reaserch work in the field and in hospital area.

### Achievements

The domiciliary treatment has been upgraded by establishing one City Tuberculosis Centre and 27 Area Tuberculosis Centre in the different areas of the city and suburbs for implementation of the City Tuberculosis Control Programme in collaboration with the State Government and other voluntary agencies.

Besides these Area Tuberculosis Centres, all 58 Upgraded Dispensaries and 100 General Dispensaries have been adopted as the Treatment Centres, where free anti-TB Drugs including injections Streptomycin and other drugs are given to the patients being near to their residences.

### II Expenditure :

	Rs.
1. Total Expenditure	2,74,95,342.00
2. Amount spent on In-patients.	2,17,56,282.00
3. Amount spent on Out-patients.	57,39,060.00
4. Average cost per day on :	
(i) In-patient.	63.8
(ii) Out-patient	16.6

### III Significant Activities :

1. Schedule Bed Strength	1230	G. T. B. Hospitals
	+ 250	Sarvodaya Hosp. Ghatkopar.
	-----	
	1480	
	-----	
2. Admissions	10,734	
3. Daily Average of In-patients.	935	
4. Out-patients at Clinics.	18,837	
5. Average stay of patient in the Hospital.	1½	months.
6. Operations carried out :		
(i) Major	18	
(ii) Minor	227	
7. Health Visits paid	7,160	
8. Patients covered under City Tuberculosis Programme	33,429	
9. Patients under Treatment at Municipal Centres.		71,056



The Group of T. B. Hospitals is administered by the Medical Superintendent with the help of Deputy Medical Superintendent and Assistant Medical Officers and other administrative executive staff.

Treatment to TB patients is provided at the following Centres :

1. G. T. B. Hospitals, Sewri, Bombay—15.
2. R. D. T. B. Clinic, Dadar, Bombay—14.
3. Municipal TB Clinic, Shamaldas Gandhi Marg, Bombay—2.
4. Municipal TB Clinic, Nawab Tank, Dockyard Rd., Bombay-10.
5. Municipal TB Clinic, Balaram Street, Bombay-8.
6. Municipal TB Clinic, Khar, Bombay—52.
7. Municipal Sub-TB Clinic, K. B. H. K. Bhabha Hospital, Kurla, Bombay—70.
8. All Municipal General Dispensaries and T. B. Sections in General Hospital, (City & Suburbs, Extended Suburbs).

In addition to above, the Corporation have hired 250 beds for TB patients at the Sarvodaya Hospital at Ghatkopar where in-patients are treated. Thus, the total bed strength of both the municipal and hired beds come to 1480 as under : —

G. T. B. Hospitals —	Male	Female	Children	Total
Medical Ward	752	269	35	1056
Surgical Ward	131	43	—	174
	883	312	35	1230
Sarvodaya Hospital, Ghatkopar (Hired beds).	200	50	—	250
<b>Total :</b>	<b>1083</b>	<b>362</b>	<b>35</b>	<b>1480</b>

After discharge, 6,023 patients attended the hospital for follow-up.

#### G. T. B. Hospitals :

From Pre- vious Yr.	Patients		Discharged			Remained at the end of the year
	New Admi- ssion	Total	Cured	Other- wise	Died	
933	10,734	11,667	6,480	2,917	1,486	834

Statistical data revealed the high incidence in the age-group of 35-40 years. Ratio of death to total patients treated was 12%.

#### Municipal TB Clinics :

Cases directed by Clinics examined at Group of TB Hospitals, Sewri and patients needing admissions are admitted to these hospitals as well as at Sarvodaya Hospital, Ghatkopar (on reserved beds).

Name of the Clinics	No. of patients attended	T. B. Cases	Non-T. B. Cases
1. R.D. T. B. Clinic, Dadar	8,750	4,246	4,504
2. Shamaldas Gandhi Marg	11,711	3,719	7,982
3. Balaram Street T. B. Clinic	3,226	1,853	1,373
4. M. M. Munshi T. B. Clinic, Khar	10,510	6,227	4,383
5. Nawab Tank T. B. Clinic	3,260	1,108	2,152
6. Sub-TB Clinic at Bhabha Hospital, Kurla.	2,424	1,774	650
<b>Total :</b>	<b>39,851</b>	<b>18,827</b>	<b>21,024</b>

**Sarvodaya Hospital, Ghatkopar :**

The following beds were reserved in Sarvodaya Hospital, Ghatkopar by the Corporation :

For TB patients	250
For Orthopaedic patients.	360

From pre- vious Year	Patients		Discharged			Remained at the end of the yr.
	New Admi- ssion	Total	Cured	Other- wise	Died	
60	—	60	54	—	6	Nil

**Poor Box :**

Collection out of the Poor Box Charity Fund of the Hospital is utilised for the benefit of the poor and needy patients and the incidental expenses. Amount of Rs. 28,224.97 was collected for the Poor Box Charity Fund of the Hospital and Clinics during the year.

**Teaching :**

The Group of T. B. Hospitals and T. B. Clinics continued to be recognised for Diploma Course in Tuberculosis & Chest Diseases by the College of Physicians and Surgeons, Bombay and for Degree Course in M. D. (Tuberculosis & Chest Diseases) by the University of Bombay, so also for D. P. H. (Bombay University) and Homoeopathy students. Clinical instructions are imparted to undergraduate students of G. S. M. College, Parel and L. T. M. M. College, Sion.

**City Tuberculosis Programme :**

The Municipal Corporation of Greater Bombay have established the City Tuberculosis Programme (CTP) in Greater Bombay on behalf of the State Government. The Central Government given free supply of Anti-TB drugs and MMR X-ray film rolls to this programme run by the Corporation. The Programme is jointly supervised by the Medical Superintendent, Group of TB Hospitals and the Executive Health Officer.

For active implementation of this programme the whole City of Bombay has been divided into 3 Zones (i) City, (ii) Western Suburbs and (iii) Eastern Suburbs. Thirty Centres (including 5 TB Clinics under M. S. G. T. B. and 5 of outside agencies) along with several others run by the Teaching Medical Institutions and Peripheral Hospitals which are working primarily as the diagnostic and the treatment centres in addition to 51 centres (Municipal General Dispensaries and Urban Health Centres of 3 Medical Colleges) have been entrusted with the drug distribution consisting of most modern and effective drugs like Rifampicin which are known to cure the disease within the course of 6-9 months' total treatment period. The work of all these centres is co-ordinated by M. S. G. T. B. with the assistance of Medical Officers of TB Clinic and Assistant Health Officer (TB) and the staff consisting of 4 TB Inspectors, 88 Treatment Organisers, 15 Health Visitors, and 1 B. C. G. Team Leader. This staff is engaged on the case finding, case holding and for the defaulter action.

Following are the Up-graded Dispensaries, Peripheral Centres (Treatment Centres) and BCG Vaccination Centres covered by each Area Tuberculosis Centres.

Ward	Area Sq. Km.	Population	Name of the A. T. C.	No. of Upgraded Disps. Pheripheral Centres (T. Cs.) and BCG Vaccination Centres covered by each A. T. C.		
				Upgraded Disp. having facilities of screening and Lab.	Peripheral Centres (T.B.) Centres	BCG Vaccina- tion Centres
A	10.48	1,89,367	G. T. Hospitals	1	4	5
B	2.47	1,74,536	Mun. TB Clinic at Nawab Tank, Mazgaon. Bombay Port-Trust TB Clinic.	2	1	3
C	1.79	3,11,795	Mun. TB Clinic at Shamaldas Gandhi Marg. 'C' Ward Medical Association TB Clinic. Bhartiya Arogya Nidhi.	2	3	1
D	6.63	4,47,811	Mun. TB Clinic at Balaram Street. B. Y. L. Nair Hospital Bombay Central.	4	2	4
E	7.40	4,62,065	J. J. Hospital	6	5	10
F/S	10.5879	7,93,991	R. D. T. B. Clinic.	10	6	10
F/N	10.559		O. H. T. C. TB Clinic, Sewri.			
G	18.84	9,81,028	Bai Gulbai Disp. Dadar, Bombay-28. E. S. I. S. Centre, Worli. F. S. M. Centre, Dharavi.	10	14	8
H	25.8	7,24,644	M. M. Munshi TB Clinic, Khar. Maharashtra Lokhit Mandal. Mun. General Hospital, Santacruz.	5	6	2
K	43.0	5,74,275	R. N. Cooper Hosp. Juhu, Vile-Parle. L & T Clinic Andheri.	6	8	7
L	13.0	4,33,571	Bhabha Hospital Kurla Sub-TB Clinic.	3	5	4
M	62.19	5,67,625	MAA Hospital Chembur. Centenary General Hospital, Govandi. P. S. M. Centre, Shivaji Nagar, Govandi.	3	9	4
N	39.0	5,95,019	Rajawadi Hospital Barve Nagar General Hospital, Ghatkopar.	2	5	3
P	74.83	6,68,925	Malad General Hospital Haji Babu Road, Malad (E). Maharashtra Lokhit Mandal TB Centre. Malvani P. S. M. Centre.	4	8	3
R	82.73	5,61,338	Bhagwati Hospital, Boriwali (W). Ashwini Kumar TB Centre, Boriwali (W). Centenary Hospital, Kandivali (W).	2	6	4
T	41.44	2,28,114	M. T. Agarwal, Mun. General Hospital, Mulund (W). Mulund General Hospital, Mulund (E).	2	5	5

Every Area Tuberculosis Centre is staffed by a Medical Officer, Health Visiter and 2 to 3 TB Investigators (Treatment Organisers) and some members of the lower staff. Out of 27 Area Tuberculosis Centres, 15 have M. M. R. X-ray Machine/other X-ray Machines equipment and Pathology Department and the remaining are having X-ray and/or Screening Machines and the Laboratories. All the Peripheral Centre which are the Municipal General Dispensaries, serve as the Treatment Centres only. The Medical Record Department of the hospital and TB Clinic and Central Statistical Section for field services is located at the Group of TB Hospital, Sewri and A. H. O. (TB)'s Office, F/South ward Office respectively for collection and compilation of the statistical data.

As provided under the National Tuberculosis Programme, the Central Control Agency is also formed under the Chairmanship of the Municipal Commissioner.

#### BCG Vaccination Programme :

(1) BCG Vaccination to children upto 2 years of age is carried out in all the 22 Municipal Maternity Homes and in the Padiatric Wards attached to 12 Municipal General Hospitals. BCG Vaccination is given regularly at 3 Urban Health Centres run by three Medical Colleges. In all there are 62 BCG Vaccination Centres in Greater Bombay.

(2) Maharashtra Government BCG Team No. 1 and Organised Home Treatment Clinic, Sewri, carry out BCG work in Private Schools. In addition, Organised Home Treatment Clinic is also conducting BCG in slums during their Shibirs.

(3) BCG Central Training Centre of the Municipal Corporation has been established at the Rajawadi Hospital, Ghatkopar for imparting training in BCG Technique to the staff involved in City Tuberculosis Programme. In all 2,05,712 BCG Vaccination were given during the year.

#### Performance Budget :

The performance budget has been introduced from 1976-77. The details in respect of the target laid down and the target achieved are enclosed. The reasons for short falls and steps for maximising the output performance are also briefly stated in the table No. 1.

**TABLE No. 1**  
**GROUP OF T. B. HOSPITALS, SEWRI.**  
**PERFORMANCE TARGETS AND ACHIEVEMENTS –HOSPITALS**

	Target laid down	Target Achieved	Remarks
1. Indoor Cases	12,100	10,734	Due to introduction of system of ration alisation, only TB patients selected by the board are admitted. All patients attending this hospital are not admitted as was done in past.
2. Operations (Nos.)	100	245	
3. Follow-up Examination	7,000	6,023	
4. Patients kept on Waiting List.	1,200	270	
5. X-rays :			
(a) Mass Miniature Radiography (Nos.)	25,000	11,772	Due to shortage of X-ray films.
(b) Big Plates (Nos)	9,000	11,123	
(e) Screening Exam.	200	130	Screening is done as and when required.
6. Pathology :			
(a) Blood	12,000	11,395	Pathology test is done as and when required.
(b) Sputum	43,000	50,819	
(c) Urine	12,000	12,041	
(d) Stools	300	601	
(e) Histopathology	500	147	
(f) Sensitivity Test	1,500	2,425	
(g) Pleural Fluide & Biochemistry	9,000	11,650	
(h) Blood Bank	1,600	1,214	
(i) Serology	200	68	

**TABLE NO. 2**  
**Anti T. B. Activities carried out in the year 1986.**

1. No. of New T. B. patients interviewed by Treatment Organisers.	21,842
2. No. of repeaters interviewed by Treatment Organisers.	1,05,722
3. No. of home visits paid by Treatment Organisers & T. B. Inspectors at the residence of the patient	39,708
4. No. of close contacts contacted	22,354
5. No. of close contacts referred to TB Clinics for detection and treatment	8,084
6. No. of close contacts who attended TB Clinics	3,617
7. No. of positive cases detected from the referred contacts	600
8. Defaulters (i) Total No. of defaulters	30,716
(ii) No. of defaulters brought on regular treatment	14,085
(iii) No. of defaulters yet to brought on regular	16,631
9. No. of persons who have under gone B.C.G. Vaccinations	1,114
10. No. of School children who have under TB treatment	2,267
11. No. of B. C. G. Vaccinations in Municipal School	—
12. No. of T. B. patients noted from I. D. R.	142
13. No. of contacts referred to clinics from I. D. R.	292
14. No. of Laboratory Examination done at Municipal General Upgraded Dispensaries	
(a) Blood (E. S. R.)	8,347
(b) Urine	13,470
(c) Sputum	4,927
(d) Screening	12,216
(i) Positive	824
(ii) Negative	1,1,392

(Dr. A. P. Rao)  
Medical Superintendent,  
Group of T. B. Hospitals.

**GROUP OF T. B. HOSPITALS, SEWRI**  
**PROGRAMME WORKLOAD SUMMARY OF TB CLINICS**

1986	R.D.T.B. Clinic Dadar		Shamaldas Gandhi Marg TB Clinic		Balaram Street TB Clinic		M.M. Munshi TB Clinic, Khar		Nawab Tank TB Clinic		Sub-TB Clinic Bhabha Hospital, Kurla		Remarks
	Target laid down	Target achieved	Target laid down	Target achieved	Target laid down	Target achieved	Target laid down	Target achieved	Target laid down	Target achieved	Target laid down	Target achieved	
<b>I — OUTDOOR CASES</b>													
(a) T. B. Cases	5,600	4,246	4,000	3,719	5,000	1,853	8,000	6,127	1,550	1,108	2,100	1,774	(1) Due to shortage of Big Plate X-ray films.
(b) Non-TB Cases	5,000	4,504	5,000	7,992	3,000	1,337	5,350	4,383	3,000	2,152	550	650	(2) Pathology Examination are done as and when required.
TOTAL :	10,600	8,750	9,000	11,711	8,000	3,190	13,350	10,510	4,550	3,260	2,650	2,424	(3) Under City Tuberculosis Programme pattern of Health Visiting is changed. Health Visitors & Treatment Organisers visit ATCs., Gen. Disp. and House of the patients in the area given to them. Hence, Health Visiting are less.
<b>II — X-RAYS</b>													
(a) Mass Miniature Radiography	21,000	16,466	8,500	12,028	8,000	4,386	15,000	10,307	6,500	5,364	Shown under R.D. TB Clinic, Dadar.		
(b) Big Plates	200	172	—	—	200	173	200	89	500	148			
<b>III — PATHOLOGY</b>													
(a) Blood Exam.	200	27	800	1,148	100	22	—	—	—	—	—	—	
(b) Sputum	10,000	9,347	5,000	4,700	7,300	5,663	12,000	10,691	4,600	4,132	3,500	3,680	
(c) Urine	—	—	—	—	500	491	—	—	—	—	—	—	
<b>IV — HEALTH VISITING</b>	1,200	1,231	1,400	2,049	1,200	941	1,350	592	1,250	1,664	1,200	623	

(Dr. A. P. Rao)  
Medical Superintendent,  
Group of T. B. Hospitals.

# SETH A J. B. MUNICIPAL E. N. T. HOSPITAL

## HIGH LIGHTS

I EXPENDITURE	Rs.	P.
A) 1. Total expenditure including liabilities	42,78,667.30	
2. On In-Patient	28,52,444.97	
3. On Out Patient	14,26,222.33	
B) Average Cost :		
1. Per In-patient per day		179.45
2. Per Out Patient attendance		14.65
II RESULTS :		
A) 1. Scheduled Bed Strength		100
2. Daily average In-patient in Wards		52
3. Admission including those brought over previous year (4857 + 37)		4894
4. Patients Discharged		---
(i) as cured		4836
(ii) as Unchanged		---
(iii) as left against Medical advice		4
(iv) Expired		1
(v) Remained in the Hospital on last day of the year M. 38 F. 15.		53
5. Highest number of admission on a single day (25-7-86)		27
6. Average stay of the inpatient (in days)		1.70
B) 1. Patients (New)		59,864
2. Daily average of out patients (New)		196
3. Out Patients (New & Old)		97,340
4. Daily average of Out Patients attendance		319
5. Highest number of attendance on a single day on 26-7-86.		576

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

The Municipal Ear, Nose & Throat Hospital which was started in December 1962 at Improvement Trust Building has been renamed as Seth Atmasingh Jassasingh Bankebihari Municipal E. N. T. Hospital.

The Scheduled bed strength of the Hospital is 100. Total 4449 Number of operations were performed on in-patients.

The following investigations were performed in Pathology dept.

- (a) Clinical Pathology 31,783
- (b) Bio --Chemistry 2,720
- (c) Histo --pathology 1,054

In Radiology Department : 6,444 patients came for X-Rays, 9,478 X-Ray were taken 7,196 films were used for X-Rays .

An audiology Room for full comprehensive hearing tests of handicapped individuals with services of speech therapist are also available in this hospital. 6,379 Numbers of Audiograms, 524 Numbers of post-Audiograms, 715 Numbers of special tests and 1,200 speech cases were recorded, in Audiology and Speech Therapy department.

An amount of Rs. 75,540.50 was collected through the poor Boxes during the year. Tracheostomy tubes blood transfusion and teflon piston were provided to the poor and deserving patients at part/full cost through poor box Fund.

Since 11th Oct. 1983 a Medico Social worker has been appointed at this hospital. The work carried out by the dept. in the year from 1-1-86 to 31-12-86 is given below :—

Months	Adult deaf	Child deaf	T. B.	Cancer	Misc.
Jan.	29	25	9	5	66
Feb.	21 <sup>a</sup>	19	18	7	48
March	37	3	13	3	55
April	25	6	10	5	27
May	8	9	7	12	12
June	2	—	1	—	—
Junly	32	10	16	9	33
Aug.	16	7	12	8	38
Sept.	40	16	8	1	29
Oct.	35	8	11	2	26
Nov.	15	5	8	4	34
Dec.	43	6	5	10	31
Total	303	114	118	66	408

The deaf childrens are rehabilitated at special schools and vocational centres and the adult deaf patients are helped in obtaining the free hearing aids from NASEOH office, Ali Yavarjung Institute & social welfare office of State Govt.

M. S. W. Dept. helps the T. B. patients in getting medicines and injections on injection cards and in providing the blood transfusions from Blood Banks to the patients.

1) Total Home visits paid	74
2) Visits to Institutions for Deaf.	16
3) Visits to Cancer Institution.	6
	<hr/>
	96

The Medical staff consisted of :	Nos of posts.
(a) Honorary ENT Surgeons	7
(b) Honorary Assistant ENT Surgeons	1
(c) Honorary Associate ENT Surgeons	2
(d) E. N. T. Registrars	5
(e) E. N. T. House Surgeons	5
(f) Junior A. M. O.	2
(g) Anaesthetist (P. T.)	1
(h) Pathologist (P. T.)	1
(i) Hon. Asstt. Radiologist.	1
	<hr/>

Nursing staff consisted as following.	
(i) Senior Sister.	1
(ii) Sisters	6
(iii) Staff Nurses.	24
	<hr/>

Rs. 12,19,176.91 and Rs. 14,13,451.55 have been spent on labour & superior establishments of hospital during the year.

DR. (SMT) S. C. BASRUR  
ASSISTANT MEDICAL OFFICER

**SETH V. C. GANDHI AND M. A. VORA MUNICIPAL GENERAL  
HOSPITAL,  
RAJAWADI HOSPITAL, GHATKOPAR BOMBAY 400 077.**

**Highlights : I EXPENDITURE**

(A)	1. On in patients	1,69,57,296
	2. On out patients	80,62,565
	Total	2,50,19,861

**(B) AVERAGE COST PER**

1.	In patient per day	Rs. 77.55
2.	Out patient per day	Rs. 2.97

**II RESULTS IN PATIENTS**

1.	Scheduled Bed Strength	560
2.	Convelescent Beds at Sarvodaya Hospital.	70
2.	Daily average in patients in wards.	502
3.	Admissions including those brought over from previous year.	27921
4.	Number of patients discharged as	
	i) Relieved	10000
	ii) As cured	13429
	iii) Otherwise	2639
	iv) Expired	1435
	a) Within 24 hours	675
	b) After 24 hours	212
	c) Exceding 3 days	547
	Total :	1435
	v) Remained in the hospital on the last day of the year.	418
	vi) Daily Average number of Admissions.	76
	vii) Average stay of in patients (in day)	6 days
	viii) Highest number of in patients in a single day.	485

**(C) OUT PATIENTS**

i)	New out patient attendance	145197
ii)	Daily average number of out patient.	472
iii)	Highest new O. P. D. attendance on a single day.	571
iv)	Total no of casualty attendance	67149

(D)	i) Total Major Operations on in patients	2728
	ii) Total Minor Operations on out patients	11936

(E)	Total no. of Confinements	5593
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**Non-Natal and Natural deaths**

i)	Maternal Death	21
ii)	Neo-Natal deaths	34
iii)	Still Births	246

**Specialised treatment**

i)	Sterilization (Male)	6
ii)	Sterilization (Female)	1037

SETH V. C. GANDHI & M. A. VORA, MUNICIPAL GENERAL HOSPITAL, RAJAWADI continued to render medical relief in the form of both prophylactic and curative treatment to the sick population in the north east Suburbs of Bombay.



Dr. (Mrs.) K. Shah (M. D. D. G. O.) held the post of Medical Superintendent and of Director P. H. & C. A. S. from 1-4-1986 to 12-12-1986.

Dr. Y. N. More (M.D.D.G.O. M.C.P.H.) was appointed as Ag. Medical Superintendent from 13-12-1986.

Dr. V. M. Jaisinghani held the post of A. M. O. (Admn.)

The following departments exist in this hospital.

(1) Medical (2) Intensive Care Unit with separate section for acute cardiac cases (3) Surgical including minor surgery & Paediatrics surgery (4) Paediatrics (5) Gynaecology and Obstetrics including Antenatal and Postnatal Clinics (6) Family Welfare (7) E. N. T. (8) Audiology and Speech therapy (9) Orthopaedics (10) Skin & V. D. (11) Ophthalmology (12) Psychiatry (13) Dental (14) Occupational Therapy & Physio Therapy (15) Pathology (16) Blood Bank (17) Evening dispensary for municipal employees (18) Casualty (19) Anti Rabic Immunization (Daily except Sunday and Bank Holidays) (20) Radiology (21) International Health Certificate (22) Medico Social Service Department (23) School Clinic (24) Tuberculosis Clinic (25) Immunisation Clinic (9 to 11 A. M.) (26) E. C. G. Department (27) Diabetic Clinic (Friday 9 to 11).

### 1) DEPARTMENT OF MEDICINE

The Department of Medicine consists of 3 units, each manned by Honorary & Hon. Asst. Professors. Each unit conducts (See Appendix III & IV).

The Gastroenterology Department is looked after by Physician and a surgeon jointly.

Diabetic O. P. D. is conducted every Firday when blood sugar estimation is done on the spot on Ame's Cytone (dextrometer) Patients are called by appointment for Post Prandial Blood Sugar and some random blood sugar samples are also examined. About ten patients blood is examined for blood sugar every O. P. D.

#### MEDICAL INTENSIVES CARE UNIT & CARDIAC CARE UNIT

These units were started at this hospital from May 1979. Serious cases were admitted directly to these units. Cases transfered from other units were also treated. Only trained Staff and doctors are posted for work in these units. This department is managed by all the 3 medical units by rotation.

Combined total admission	854
Total Deaths	253
Mortality rate	30%

### 3) DEPARTMENT OF SURGERY

The Department of Surgery consists of 3 units, each manned by Honorary & Hon. Asst. Professors. Each Unit conducts O. P. D. & emergency. service twice a week by rotation. (See Appendix III & IV).

Paediatric Surgery Clinic is conducted by Dr. V. S. Waigankar, Hon. Asstt. Surgeon on his O. P. D. days *i.e.* on Wednesday and Friday (See Appendix III).

### 4) DEPARTMENT OF PAEDIATRICS

The Department consists of two part time units under Hon. Professor of Peadiatrics/Hon. Paediatrician. Each unit conducts O. P. Ds. thrice Weekly. (See Appendix III & IV).

### 5) DEPARTMENT OF GYNAEC AND OBSTETRIC

(Including Anti-natal and Postnatal clinic)

This Department consists of 3 part time units under Hon. Professors of Obstetrics and Gynaecology. Each unit conducts O. P. D. & emergency services twice a week in rotation.

A wide variety of Obstetric cases were seen and treated competently. These included cases transfereed from maternity homes at Barve Nager, Vikroli, Bhandup and Deonar. The cases transferrred required specialised obstetric care and were either referred for both diagnosis and treatment.

O. P. D. service Antinatal & Postnatal Services were made available to a large section of the public and the attendance at Gynaec O. P. D. is in large No. (See Appendix III & IV).

Each Antenatal Petient's blood analysis is done, regular weight, urine besides general and abdominal examination are done,

These Clinics are extremely beneficial in the detection and treatment of obstetrical malaise in the form of anemia, cardiac disease diabetic hypertension etc.

The interns posted attended O. P. Ds. performed minor O. P. D. procedures under supervision, learnt basic antinatal care, attended operation theatre, performed tubal sterilizations under supervision and attended emergency duties also.

The residents have been trained to deal efficiently with almost any emergency and have learnt to independently perform, several major operations competently.

#### 6) DEPARTMENT OF EAR, NOSE AND THROAT.

This Department consists of one part time units under Hon. E. NT. Surgeon and Hon. Prof. of E. N. T. and function twice a week. (See Appendix III & IV).

#### 7) DEPARTMENT OF ORTHOPAEDICS

This department consists of only one unit under Hon. Professor of Orthopaedic Surgery and Hon. Orthopaedic Surgeons. This Department functions thrice a week. (See Appendix III & IV).

#### 8) DEPARTMENT OF SKIN & V. D.

This department functions on all days except Sundays. This department consists of only part time unit which is under the Assistant Hon. Professor of Dermatology (See Appendix III & IV).

#### 9) DEPARTMENT OF OPHTHALMOLOGY

This department consists of two part time unit under Hon. Professor of Ophthalmology/Hon. Ophthalmologist. Each units conducts O. P. D. thrice weekly.

#### 10) DEPARTMENT OF FAMILY WELFARE

Family Welfare was made a separate clinical entry in November 1982. fully under control of Medical Officer-in-charge of Family Welfare centre for both administrative & Clinical purposes. This gave a closer contact of patients with Family Welfare Staff.

1) Co-Ordination with Gyn. Dept. of this hospital : F. T. M. O. has been asked to work as Asstt. Head of Gyn. Unit I, as working arrangement, due to preoccupation of M. S. in admjistrative duties. This will definately booster up F. P. programme as now F. T. M. O. can come in close contact with patients visiting Gynaec Ward & O. P. D.

#### 11) DEPARTMENT OF DENTISTRY

This department consists of one part time unit under Hon. Dental Surgeon and functions on all days except Sundays.

Total No. of Extractions done	216
Total No. of Fillings done	226
Toal No. of Sealings done	55
Total No. of Traction	Nil
Total No. of Operations	19

#### 12) DEPARTMENT OF OCCUPATIONAL THERAPY & PHYSIO THERAPY

This department consists of one full time unit. Functions on all days of the week except Sundays.

Yearly workload is as under :

Indoor attendance	35996
O. P. D.	55805
Sarvodaya Hospital	5132

Total :	96933
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#### 13) DEPARTMENT OF INTERNATIONAL HEALTH CERTIFICATE

This department function all days of the week except Sunday and Saturday and Holidays. People desiring Health certificate for going abroad attend this centre between 11 A. M. to 12.30 P. M.

(1) International Certificates	253
(2) Pilgri,age Patients	985

**(14) DEPARTMENT OF MUNICIPAL EMPLOYEES O. P. D.**

This O. P. D. functions daily except Sunday between 6.30 P. M. to 8 P. M. for Municipal Employees. Municipal Employees are examined by the A. M. O. on duty. (See Appendix III).

**15) DEPARTMENT OF TUBERCULOSIS**

Functions on all working days except Sundays. This is managed by Hon. T. B. specialist and an A.M.O.

T. B. Clinic renders treatment to the old and new patient who are suffering from pulmonary tuberculosis. The patients are referred from surrounding dispensaries and by other doctors practicing in the vicinity of this hospital.

**LIBRARY**

The total number of books added to the library during the year 1986 was 60 as against 35, during the previous year total seven books are not supplied by the book sellers because these books were not available in the market and even with the publishers. Pounds mate has also increased.

Total 14 books are likely to be coming.

The library has subscribed to 34 Medical journals as against 32 in the previous year.

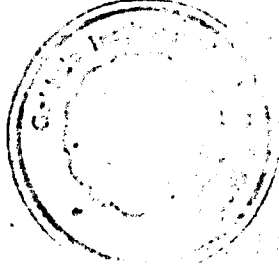
As per the request of Housemen, Lecturers the Library timing has been changed. Now the Library will be open from 9 A.M. to 6 P. M.

The library had at the end of year 1150 books as against 1090 during the previous year.

**DEPARTMENT OF RADIOLOGY**

Total no of patients X-Rayed.

Indoor	10996
Outdoor	24517

**DEPARTMENT OF BLOOD BANK**


1. Opening Balance.	75
2. Voluntary donors.	1212
3. Replacement Doners.	1005
4. Total Collection	2217
5. Blood bottles brought from other Hospital.	99
6. Total blood bottles available for utilisation.	2391
7. Blood bottles used for the Hospital.	1601
8. Blood bottles sent to other hospital.	271
9. Blood bottles sent to plasma processing.	253
10. Blood bottles discarded.	200
11. Total utilisation.	2325
12. Balance at the end of the year.	66

**DEPARTMENT OF AUDIOLOGY & SPEECH THERAPY**

1. Total No. of Audigrams.	760
2. Total No of speech cases.	118

**TYPE OF SPEECH CASES**

1. Aphasia.	11
2. Mental Retardation.	5
3. Dystalia.	11
4. Hard of Hearing.	28
5. Delayed Speech & language.	12
6. Cerebral palsy.	4
7. Voice disorders.	30
8. Stammering.	15
9. Dysarthria.	1
10. Laryngectomy.	1

(Requirement of this department :— Sound proof room and Full-time post) of Audiologist and Speech Therapist).

**PSYCHIATRY O. P. D.**

The Psychiatry O. P. D. was started in Oct. 1978. The old and new patients are examined and treated at the O. P. D. No. 13 (A) between 9.00 A. M. and 12.00 P. from Monday to Saturday.

The Number of New patients started are as follows :

SEX	YEAR	
	1986	1985
I) Child upto 12 years of age.		
(a) Male	18	23
(b) Female	20	13
II) Male	646	464
III) Female	713	441
Total	1397	941

The total showing diagnosis wise distribution of patients during 1985 and 1986.

DIAGNOSIS	No. of Pt. 1985	No. of Patients 1986
Psychosis		
1. a) Schizophrenia	192	245
b) M. D. P. (i) Mania	—	5
(ii) Depression	71	86
c) Organic Psychotic	19	25
2. Neurosis		
a) Anxiety Neurosis	64	61
b) Hysterical Conversion Reaction.	7	11
c) Neurotic Depression	366	719
3. Personality disorder & addiction	55	58
4. Psychosomatic disorders	—	4
5. Epilepsy	36	34
6. Mental subnormality	28	47
7. Miscellaneous	29	30
8. Nil active Psychiatric	5	12
9. Psychiatric diagnosis could not arrived at (undiagnosed)	69	80
Total	941	1397

a) E. C. T. : Patients for E. C. T. are called from Monday to Friday

	No of cases	No. of E. C. T.
1985	124	589
1986	98	490

b) Social case work : The social workers attends Psychiatry O. P. D. from Monday to Saturday from 9.00 A. M. to 12.00 noon. The duties performed by them are as follows.

- 1) Collecting Psychiatric history of all the new cases. Total number of cases this year is 1397.
- 2) Psychiatric case work and counselling.

The patients who are in need of Psychiatric case work are referred to Medico Social worker. This year 136 patients are referred for case work and counselling. Each case is interviewed 5 to 10 times. Each interview lasts for about half an hour to one hour. Total number of sessions this year is about 1088.

c) The cases in need of Psychological testing like I. Q. Rorachach, Ink. block test, M. M. P. I. were referred to other departments as clinical psychologist is not a staff member.

**DEPARTMENT OF MEDICAL SOCIAL SERVICE**

Medical Social Service Department is managed by 2 Medico Social workers which handle independently. The work load is as given below.

Total number of cases referred during the year 1987 under different categories are as follows :

Categories	No of cases	Total no of times these cases visited S.S. Dept. for help.
1. Medical Aid	122	206
2. numarried mothers for M. T. P. and giving children in adoption.	8	41
3. Cases work cases.	6	26
4. Misc. (i.e.) for other reasons seeking job, orthopaedic cases and other aid	13	30
<b>TOTAL NO. OF CASES</b>		<b>149</b>
II No of social service institutions and agencies contacted for donation and other material help.		8
III No of employees contacted	3	
IV Handled the N. S. S. (hospital) project of i) Somaiya college of Arts & commerce. ii) Somaiya College of Science. iii) Smt. P. N. Doshi Women's college.		

Recreational projects like decorations on Diwali & X-mas are arranged with the help of N. S. S. students.

V Schedule and costly medicines (i.e. Inj. Lente & plain insulin, Cap. Rifamycin, Tab. Aldomet are sanctioned to the O. P. D. patients daily from social service department between 9.00 A. M. to 1.00 P. M. Daily 50 patients are referred to social service department for sanction for these medicines.

VI The social worker attends Psychiatry O. P. D. from Monday to Friday from 9 A. M. to 12-30 P. M. The duties performed by her are as follows.

i) Taking down the complaints and family history of newly registered patients. This year total No of newly registered patinets was 1397.

ii) Social case work and counselling : This year 136 patients were referred for case work and counselling. Total numbers of interview sessions was 1088 approximately.

**DIET DEPARTMENT**

One full time dietician & Diet clerk manage this Department.

Kitchen is clean and neat, Quality and quantity of food is checked regularly. Preparation of food is also good. 160 patients given diet advice in this year.

**MEDICAL RECORD DEPARTMENT**

Recovery of fees from Outdoor and Indoor patients from Jan. 1986 to Dec. 1986.

O. P. D. Patients	Rs. 3,02,309
Indoor patients	Rs. 1,22,280
Receipts/Overstay	Rs. 1,76,912
4th Delivery charges	Rs. 4,000
<b>Total</b>	<b>6,05,501</b>

**MEDICAL LEGAL SECTION**

1. Issue of Police certificate	2786
2. Doctor deputed to Session Court	71
3. Doctor deputed to Metropolitan Court	307
4. Tribunal Court	71

**SARVODAYA HOSPITAL**

Rajawadi Hospital has 70 beds at Sarvodaya Hospital Ghatkopar, for treating convalescent Orthopaedic patients.

One Jr. A. M. O. (Orthopaedic) and one Staff Nurse has been appointed for looking after these patients at Sarvodaya.

**REVENUE COLLECTED AT RAJAWADI**

1. Certificate + Poor Box Charity.	Rs. 21,638.00
2. X-Ray Revenue.	Rs. 5,42,769.00
3. Donations.	Rs. 21,769.00
4. E. C. G.	Rs. 40,980.00

**HIGHLIGHTS (COMPARISON BETWEEN 1985-86)**

No of inpatients has increased from 30,719 to 27,921. Daily average inpatients has increased from 465 to 502. Total Indoor attendance has increased from 1,69,642 to 1,83,212. The O. P. D. attendance (new) including Casualty has increased from 1,42,009 to 1,45,197. The daily O. P. D. Average of new patients has increased from 464 to 472. The No of operations has increased from 2,42,55,101 to 2,50,19,861.

**DEFICIENCIES AND SHORTCOMINGS OUT PATIENT DEPARTMENT.**

Existing O. P. Ds. are not well ventilated and become very hot and stuffy in summer due to asbestos roof and leak heavily in monsoons.

There is a proposal to shift the 'N' ward stores which is at present in the compound of Rajawadi Hospital to other premises so that area which is earmarked for O. P. D. building can be used for the same. The expansion plan of Rajawadi Hospital especially its O. P. D. is closely linked to the shifting of the 'N' Ward stores.

**MEDICAL RECORDS DEPARTMENT**

The Medical Records Department is hampered for want of adequate place for its smooth function. A proposal to house it in a shed to be constructed on the terrace of the old hospital building as temporary measure has been turned down by the architect as the building is old. More space for Medical Record Department is required as all Medicolegal Indoor papers have to be kept for 10 years for court purposes. Records to be kept as per Record classification List.

**R. M. Os. Quarters.**

The R. M. Os. quarters are at present housed in the quarters which were occupied by the Labour Staff. The new Building of R. M. Os. quarters is planned with central Ambulance scheme.

The need for the new R. M. Os. quarters is very urgent. The house officers which are required to be appointed to fulfill the M. C. I. S. requirement can not be met due to the lack of accommodation for the R. M. Os.

**FUTURE DEVELOPMENT**

1. Central Ambulance Service plan is yet to be formulated.
2. The work of construction of Coroner's Court is near completion and is likely to function no sooner provision for quarters for the staff of Coroner's Court is done.
3. A trauma Unit having 6 beds is being set up next to the Casualty. Proposal for staff, furniture and equipment is being finalised. This trauma unit will be manned by doctors round the clock.
4. A proposal for starting a Psychiatric ward next to I. C. Unit alongwith Staff pattern furniture and equipment required is being finalised.

Medical Supdt.  
Rajawadi Hospital  
Ghatkopar

## APPENDIX No. I

Distribution of beds according to departments and Sex.

DEPARTMENT	MALE	FEMALE	CHILDREN	TOTAL
MEDICAL	34	35	—	69
SURGICAL	57	21	—	78
BURNS	—	12	—	12
GYNAECOLOGY	—	51	—	51
OBSTETRICS	—	108	—	108
PEADIATRICS	—	—	76	76
OPHTHALMIC	20	13	—	33
E. N. T.	16	15	—	31
SKIN & V. D.	10	10	—	20
ORTHOPAEDICS	19	20	—	39
M. I. C. U.	7	4	—	11
PEAD. SURG.	—	—	6	6
<b>SIDE ROOM</b>				
Medical	8	2	—	
Surgical	2	—	—	
Obstetrics	—	2	—	26
Gynaec	—	9	—	
Orthopaedics	2	1	—	
<b>TOTAL</b>	<b>175</b>	<b>303</b>	<b>82</b>	<b>560</b>

## APPENDIX No. II

No. of accident cases treated.

SEX	TREATED IN CASUALTY DEPARTMENT 1986	ADMITTED THROUGH CASUALTY DEPARTMENT.
MALE	10992	2831
FEMALE	5899	1614
CHILDREN (MALE)	2877	607
(FEMALE)	2269	398
<b>TOTAL</b>	<b>22037</b>	<b>5450</b>

## APPENDIX — III

Statement showing the Out-Patients (New O. P. D. Casualty) in Rajawadi Hospital during the year 1986.  
Classification according to the department, Sex and age.

DEPARTMENT	O. P. D. NEW CASES					CASUALTY CASES				
	Male	Female	M/ch.	F/ch	Total	Male	Female	M/ch	F/ch	Total.
MEDICAL	6680	5896	—	2	12578	8834	5485	11	1	14331
SURGICAL	4024	2072	605	466	7167	13303	5865	3388	2173	24729
OPHTHALMIC	1947	1603	318	275	4143	923	520	220	96	1759
GYNAEC	—	5020	—	—	5020	—	3756	—	—	3756
DENTAL	1096	1189	271	250	2806	492	301	104	43	940
SKIN	3072	1752	915	776	66515	752	420	244	112	1528
E. N. T.	949	930	442	351	2672	1567	835	619	386	3407
ORTHOPAEDIC	1883	1395	451	316	4045	3040	1302	993	600	5935
PSYCHIATRIC	495	501	14	10	1020	—	—	—	—	—
PAEDIATRICS	—	—	4398	3778	8176	—	—	4022	2844	6866
NEW BORN	—	—	131	126	257	—	—	—	—	—
MATERNITY	—	5896	—	—	5896	—	—	—	—	—
PEAD SURG.	—	—	84	78	162	—	—	—	—	—
T. B.	276	138	5	3	422	—	—	—	—	—
POLIO TRIPLE	—	—	5467	4864	10331	—	—	—	—	—
B. C. G.	—	—	3475	3363	6838	—	—	—	—	—
ANTI RABIC	—	—	—	—	—	849	320	362	123	1654
B. M. E.	—	—	—	—	—	1190	614	285	155	2244
<b>TOTAL</b>	<b>20422</b>	<b>26392</b>	<b>16576</b>	<b>14658</b>	<b>78048</b>	<b>30950</b>	<b>19418</b>	<b>10248</b>	<b>6533</b>	<b>67149</b>



## APPENDIX IV

Summary of inpatients classified according to Department and sex.

Department & Sex	In the hospital on the midnight 31-12-85	Admitted during the year	Total	Discharged		Death	Remaining in the hospital on the midnight 31-12-86
				Cured	Otherwise		
1	2	3	4	5	6	7	8
<b>MEDICAL</b>							
Male	53	2961	3014	300	2459	215	40
Female	24	2078	2102	396	1573	110	23
M/ch	—	—	—	—	—	—	—
F/ch	—	—	—	—	—	—	—
Total	77	5039	5116	696	4032	325	63
<b>SURGICAL</b>							
Male	49	3181	3230	700	2366	109	55
Female	24	1192	1216	200	963	31	22
M/ch	12	389	401	130	260	4	7
F/ch	1	179	180	40	136	4	—
Total	86	4941	5027	1070	3725	148	84
<b>OPHTHALMIC</b>							
Male	14	461	475	120	339	—	16
Female	11	386	397	100	292	1	4
M/ch	2	31	33	30	2	—	1
F/ch	1	16	17	10	6	—	1
Total	28	894	922	260	639	1	22
<b>GYNAEC</b>							
Female	43	2160	2203	1165	1000	6	32
Total	43	2160	2203	1165	1000	6	32
<b>SKIN &amp; V. D.</b>							
Male	8	196	204	75	118	—	11
Female	2	89	91	60	26	4	1
M/ch	1	13	14	6	6	—	2
F/ch	—	10	10	8	2	—	—
Total	11	308	319	149	152	4	14
<b>I. C. U.</b>							
Male	5	625	630	—	446	179	5
Female	2	220	222	—	147	74	1
M/ch	—	—	—	—	—	—	—
F/ch	—	2	2	—	2	—	—
Total	7	847	854	—	595	253	6

	1	2	3	4	5	6	7	8
<b>ORTHOPAEDIC</b>								
Male		36	1039	1075	800	223	20	32
Female		18	432	450	45	378	9	18
M/ch		7	184	191	5	185	—	1
F/ch		1	132	133	10	117	—	6
Total		62	1787	1849	860	903	29	57
<b>E. N. T.</b>								
Male		9	342	351	196	151	3	1
Female		4	342	346	150	195	1	—
M/ch		4	126	130	60	70	—	—
F/ch		5	121	126	50	74	—	2
Total		22	931	953	456	490	4	3
<b>PAEDIATRICS</b>								
Male		12	1662	1674	100	1387	173	14
Female		13	1342	1355	80	1064	192	19
Total		25	3004	3029	180	2451	365	33
<b>MATERNITY</b>								
Female		86	7071	7157	3000	4046	21	90
Total		86	7071	7157	3000	4046	21	90
<b>BURN</b>								
Male		3	42	45	—	8	33	4
Female		9	334	343	—	102	234	7
M/ch		1	54	55	—	50	4	1
F/ch		3	46	49	—	39	8	2
Total		16	476	492	—	199	279	14
<b>GRAND TOTAL</b>		<b>463</b>	<b>27458</b>	<b>27921</b>	<b>7856</b>	<b>19231</b>	<b>1435</b>	<b>385</b>

## APPENDIX — V

Cost per in patient and out patient per day (1981)

Year	Establishment	Contingence	Drugs and Medicines	Diet	Stores and Linen	Repairs Maintenances special Repairs New works	Total
1	2	3	4	5	6	7	8
IN—PATIENTS							
1986	27.38	3.55	17.61	8.09	17.96	2.96	77.55
OUT—PATIENT							
1986	1.49	0.45	0.75	—	0.13	0.15	2.97

## APPENDIX—VI

**PATHOLOGY DEPARTMENT**  
**DEPARTMENT WISE YEARLY WORKLOAD OF 1986.**  
**BACTERIOLOGY AND SEROLOGY.**

Gram Stain	2300	Ascitic Fluid Culture	—
AFB Stain	644	Vaginal Swab Culture	33
Albert Stain	193	Gastric Fluid Culture	—
Clot Culture	1205	Pericardial Fluid Culture	—
Blood Culture	159	Hydrocele Fluid Culture	—
Pus Culture	487	Sineral Fluid Culture	—
Urine Culture	1230	Wound Swab	—
Sputum Culture	200	Umbilical Swabs	14
CSF Culture	322	Ulcer Swabs	—
Stool Culture	98	Bronchial aspiration	—
Throat Swab	51	Nasal Swab	—
Eye Swab	55	Pharyngal Swab	—
Ear Swab	38	Miscellaneous	100
Anti-biotic Sensitivity Test	1380	O. T. Sterility (Swab)	2130
Urethral Smear	50	Blood V. D. R. L.	11611
Biochemical Test	1380	CSF VDRL	100
Pleural Fluid Culture	193	Blood Bank VDRL	1770
Peritoneal Fluid Culture	150	Blood Paul Bannel	—
		Blood Vidal	495
		R. A. Test	238
		Pregnancy Test	346
		Casoni's Test	—
		CSF Widal	—

## BIOCHEMISTRY—I

## HAEMATOLOGY

Haemoglobin	7481
Total Count	8448
Diff Count	8448
E. S. R.	5822
PCV	1958
Complete Haemogram	1251
Haemoglobin	1251
Total Count	1251
Diff Count	1251
PCV	1251
Retic Count	1253
Plate let count	1279
Osmotic fragility	06
Bonemarrow	44
Sickle cell Test	08
LE Cell Test	25

## APPENDIX—VII

## PHARMACY

1. Quantity of stock solution preparation.	9310 Ltrs.
2. Number of packets of tablets made.	5860861
3. Number of packets of powder prepared.	29540
4. Number of O. P. D. prescription.	29397
5. Special prescription attended.	Nil
6. Prescription where special drug is issued and account is kept.	Nil
7. Syrup Simplex.	Nil
8. Stock Mixture prepared.	7885 Ltrs.
9. Ointment prepared.	369 Kgs.
10. Lotion prepared.	6347

## APPENDIX—VIII

## OPERATIONS ON 1986.

	Major	Minor	Total
Orthopaedic	543	5226	5769
Ophthalmic	576	387	963
E. N. T.	248	420	668
Surgical	607	1680	2287
Gynaec	754	1432	2186
Minor O. T.	—	2791	2791
Total	2728	11936	14664

## APPENDIX—IX

## FAMILY WELFARE CENTRE (1986)

Vasectomy	6
Tubectomy	1037
I. U. C. D.	479
Nirodh	2850 pieces
M. T. P.	568
Oral Pills.	282

## APPENDIX—X

## SCHOOL CLINIC (1986)

The school clinic looks after children from the Municipal Corporation School surrounding this hospital.

The analysis of the boys and girls treated as this hospital school clinic is as follows.

DEPARTMENT	NEW CASES	OLD CASES	TOTAL CASES	INDOOR CASES ADMITTED
Paediatric	1060	9880	10940	17
Ophthalmic	412	4123	4535	9
E. N. T.	514	5261	5775	74
Skin	416	3233	3649	—
Dental	682	4598	5280	—
Surgery	135	112	247	7
Orthopaedics	141	160	301	—
T. B.	18	1797	1815	1
Total	3378	29164	32542	108

## APPENDIX NO. XI

## DEATH REPORT OF 1986

## DEPARTMENT WISE DEATH STATISTICS

DEPARTMENT	MALE	FEMALE	M/CHILD	F/CHILD	TOTAL
MEDICAL	215	110	—	—	325
SURGICAL	109	31	3	2	145
BURN	33	234	4	8	279
M. I. C. U.	179	74	—	—	253
L. W.	—	21	—	—	21
E. N. T.	3	1	—	—	4
ORTHOPAEDIC	20	9	—	—	29
PAEDIATRIC	—	—	173	192	365
OPHTHALMIC	—	1	—	—	1
SKIN	—	4	—	—	4
GYN.	—	6	—	—	6
P. SURG.	—	—	1	2	3
TOTAL	559	491	181	204	1435

# K. B. BHABHA HOSPITAL, BANDRA,

This Hospital Continued to render Medical relief service to the sick and Needy people in the vicinity of 'H' Ward area. Dr. (Smt.) P. S. Paralkar, M. D. held the post of Medical Superintendent during the year. The report for the year 1986 is as under :—

## HIGH LIGHT :

### I. EXPENDITURE

(A) 1. On Inpatients	Rs. 58,62,290/-
(B) 2. On Out-Pts.	Rs. 54,46,600/-

#### AVERAGE COST PER PATIENT

1. On In-Pts.	Rs. 87.85
2. On Out-Pts.	Rs. 7.30

### II. RESULTS—INPATIENTS

1. Schedule Bed Streignth.	204
2. Daily Average Inpts.	201
3. Admission Including those brought over from Previous year.	12,442
4. Discharges As :—	
(i) Relived	156
(ii) As cured	11,590
(iii) Other-Wise	122
(iv) Expire	359
(v) Remained in the Hops., on the last day of the year.	162
(vi) Daily Average No. of Admission	34
(vii) Average stay of Inpatients	7 Days
(viii) Highest No. of Inpts. in a day.	235

#### (B) OUT-PATIENTS

1. New Out-Patients attendance	1,59,265
2. Old Out-Patients attendance	5,83,545
3. Daily Average No. Outpatients	1,675
4. Highest O.P.D. attendance on a Single day	2,056
5. No. of Casualty attendance	33,477

#### (C) OPERATION :—

1. MAJOR OPERATION	1,118
2. MINOR OPERATION	14,124

#### (D) CONFINEMENTS :—

1. Booked Cases	4,113
2. Emergency Cases	106
3. Normal Cases	3,272
4. Abnormal Cases	170
5. Left-before delivery	68

#### (E) ENO—NATAL AND NATURAL DEATHS

1. Maternal Death	Nil
2. Neo-Nstal Death	Nil
3. Still Birth	79
4. Premature live born Infants	68

#### (F) SPECIALISED TREATMENT

1. Sterilisation (male)	56
2. Sterilisation (Female)	451
3. I.U.C.D.-Insertion	227
4. N. T. P.	199

5. Disease-wise distribution of cases treated and deaths including tuberculosis and S.T.D. of all forms.

ENCLOSED IN APPENDIX

I                      II                      III

**THIS HOSPITAL CONDUCTS THE FOLLOWING DEPARTMENTS**

1. Medical (Including E. C. G. Facilities).
2. Surgical (Including Minor Surgery, M. O. T.).
3. Paediatric
4. Cynaecology and obstretrics
5. Anti-Natal Clinics
6. Post-Natal Clinics
7. E. N. T.
8. Skin and S. T. D.
9. Opthelmic
10. Occupational Therapy and Physic Therapy
11. Pathological Laboratary
12. Dental
13. Blood Bank
14. Family Planning Centre
15. Municipal Staff Dispensary  
(Evening from 6.00 p.m. to 8.00 p.m.).
16. Anti-Rabic Threatment clinics (Dog-Bite)
17. Issue and authetication of Internation Health certificates and innoculation centre.
18. Immunization Centre if B.C.G., Polio, and Triple
19. Speech Therapy and Audiology
20. Food Hendlling Scheme
21. Mobile dispensaries
22. Municipal Medical Examination
23. Casualty
24. Inservice training programme for Medical, Para-Medical and Laboure Staff.
25. E. C. G. Department.

**LIST OF HONARARIES AND ASSTT. HONARARIES**

NAME OF THE DOCTOR'S	UNITS	WORKING AS .....
Dr. J. B. BARFIWALA (M.D.D.C.O.)	GYNANCOLOGY	HONARARY GYNANCOLOGIST
Dr. (Smt.) JOSHI (M.D.D.D.C.O.)	—"—	ASSTT. HON. GYNANCOLOGIST
Dr. (Smt.) P. S. PARALKAR (M.D.D.C.O.)	GYNANCOLOGY	FULL—TIME GYNANCOLOGIST.
Dr. (Smt.) PURANDARE (M.D.D.C.O.)	—"—	ASSTT. HON. GYNANCOLOGIST.
Dr. M. K. JOSHI (M.D.D.C.H.)	PANDIATRIC	HON. PAEDIATRICIAN
Dr. (Smt.) S. S. WAGH (M.D.D.C.H.)	—"—	ASSTT. HON. PAEDIATRICIAN
Dr. A. R. BHIDE (M.D.)	PAEDIATRIC	ASSTT. HON. PADIATRICIAN
Dr. U. M. NADKARNI [M.D.(BOM.)F.I.C.A.(U.S.A.)]	MEDICAL	ASSTT. HON. MEDICINE
Dr. P. H. BALLANI [M.D.(BOM.)]	MEDICAL	ASSTT. HON. MEDICINE
Dr. J. B. SHAH (M.S.)	SURGICAL	ASSTT. HON. SURGEON
Dr. T. SATYENDRA [M.S. (BOM.)]	SURGICAL	ASSTT. HON. SURGEON
Dr. N. S. V. CHARI (M.D.D.U. & D.)	SKIN S.T.D.	ASSTT. HON. AKIN AND S.T.D.
Dr. HEMANT K. SHEODE [M.S.(E.N.T.)]	E.N.T.	ASSTT. HON. E.N.T. SURGNON
Dr. A. S. PRABHU [M.S.(OPHTH)]	OPTHELMIC	ASSTT. HON. OPTH.
Dr. VASANT SHEVALE (M.D.S.)	DENTAL	PART—TIME DENTAL SURGNON
Dr. (Smt.) L. H. BUTANI (B.D.S.)	DENTAL	PART—TIME DENTAL SURGEON
Dr. (A. S. GOKHALE	DENTAL	PART—TIME DENTAL SURGNON

## LIST OF THE MEDICAL OFFICER

NAME OF THE MEDICAL OFFICER	DESIGNATION
Dr. (Smt.) P. S. PARALKAR	MEDICAL SUPERINTENDENT
Dr. (Smt.) P. K. BHOJWANI	ASSTT. MEDICAL OFFICER
Dr. (Smt.) S. R. PANJWANI	ASSTT. MEDICAL OFFICER
Dr. (Smt.) S. R. SHANBAGH	ASSTT. MEDICAL OFFICER
Dr. (Smt.) M. K. SADARANGANI	ASSTT. MEDICAL OFFICER
Dr. (Smt.) M. M. FURTADO	ASSTT. MEDICAL OFFICER
Dr. (Smt.) S. K. MENGALE	ASSTT. MEDICAL OFFICER
Dr. (Smt.) M. A. RASQUINHA	ASSTT. MEDICAL OFFICER
Dr. (Smt.) S. M. KULKARNI	ASSTT. MEDICAL OFFICER
Dr. (Smt.) K. V. PRASAD	ASSTT. MEDICAL OFFICER
Dr. (Smt.) P. V. MULCHANDANI	ASSTT. MEDICAL OFFICER
Dr. (Smt.) S. S. KUKREJA	ASSTT. MEDICAL OFFICER
Dr. (Smt.) S. S. CHIRMULE	ASSTT. MEDICAL OFFICER
Dr. B. C. PAI	ASSTT. MEDICAL OFFICER
Dr. DEEPAK SHARMA	ASSTT. MEDICAL OFFICER
Dr. D. C. VYAS	ASSTT. MEDICAL OFFICER
Dr. M. H. ADWANI	ASSTT. MEDICAL OFFICER
Dr. S. P. SONAWANE	ASSTT. MEDICAL OFFICER
Dr. M. A. BUDHKAR	ASSTT. MEDICAL OFFICER
Dr. P. S. SARANG	ASSTT. MEDICAL OFFICER
Dr. UMESH PATKAR	CASULTY MED. OFFICER.

## IMMUNIZATION WORK DONE DURING 1986 IS AS UNDER

Immunization	1st Dose	2nd Dose	3rd Dose	4th Dose	5th Dose	Booster
1. Triple Vaccination	1,402	1,111	795	—	—	496
2. Polio Vaccination	1,541	926	833	500	363	481
3. Tetanus Toxide (A.N.C.)	4,352	2,730	1,030			



O. P. D. T. T.	15,861
New Born Baby given B.C.G.	— Nil —
O. P. D. Under 1 to 14 years Child given B. C. G.	5,025
Anti-Cholers	4,646
T. A. B.	401
Domiciliary visit two Health visitors (Excluding family planning)	3,915
Family Planning Visits	2,006
Well Baby clinics (Supply of Milk etc.)	— Nil —
<b>SUMMARY OF ATTENDANCE OF PATIENTS</b>	
O. P. D. total attendance	5,83,845
Casualty total attendance	35,477
Total Admission	12,280
New Born Babies	
Male 2,006	
Female 1,763	3,769
<b>MUNICIPAL STAFF DISPENSARY</b>	
New Cases	2,813
Old Cases	4,714
Total Cases	7,527
<b>A.R.V. CASES TREATED DURING THE YEAR OF 1986.</b>	
New Cases	5,025
Total Cases	23,161
<b>MEDICO-LEGAL WORK</b>	
Type of Medico Legal cases registered during the year.	

Average No. of cases registered per day	Accident	Homicide	Suicide	Others	Total
25	7,132	736	273	907	9,048

Type of Medico-Legal work done during the year.

1. Consumption of poisoning drugs, Liquids etc.
2. Minor and Major Injuries.
3. Assault Injuries,
4. Vehicular Injuries
5. Burn Cases
6. Food Poisoning Cases,
7. Unconscious and Unmarried delivery cases.

#### FOOD HANDLING SCHEME

This Hospital Conduct Food Handling Programme to check Hotel and Canteen Workers.

No. of Patients attend Food Handling Scheme

Department during the year 1986 ..... 2,160

#### MUNICIPAL MEDICAL EXAMINATION

No. of Patients attended Municipal Medical Examination during the year of 1986.

Male Medical Examination (New) 783

Male Medical Examination (Old) 4,546

#### LADY MUNICIPAL MEDICAL EXAMINATION

Lady Municipal Medical Examination (New) 468

Lady Municipal Medical Examination (Old) 1,077

Total No. of Municipal Medical Examination attendance 6,874

#### MEDICAL DISPENSARY ATTENDANCE

Mobile Dispensary No. 1 (Big Van) attendance 11,746

Mobile Dispensary No. 2 (Small Van) attendance 5,668

**METROPOLITAN MAGISTRATE AND SESSION COURT CASES ATTENDED  
A.M.O.'S AND C.M.O.'S DURING THE YEAR AS UNDER :—**

1. Metropolitan Magistrate Court Cases.	65
2. Session Court Cases.	8
3. Coronors Court Cases.	Nil
4. Vehicular Accident Claim Tribunal.	1
5. Judicial Magistrate Court.	Nil
6. A.C.P.'s Inquiries.	Nil

**Injury Certificate for Police Department.**

Issue Injury Certificate for Bandra, Nirmal Nagar, Mahim, Kherwadi,  
Vile—Parle, Matunga and Dadar Police Stations.

No. of Certificates Issued.	2,245
No. of Private Injury certificates Issued.	123

**Physio therapy and Occupational Therapy.**

Indoor Patients.	745
Outdoor Patients.	2,187
Total.	2,932

**Audio and Speech Therapy.**

Out Patients.	1,195
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**Nursing Sections.**

During the year under referance number of nursing staff working at this Hospital as under :—

Sr. Asstt. Matron.	1
Jr. Asstt. Matron.	1
Sister Incharge.	14
Full Trained.	20
Auxilliary.	60
Mid-Wifes.	6
Health Visitors.	2
Total.	<hr/> 104 <hr/>

**Family Planning Clinics.**

1. No. Person contanted for F. P. education.	825
2. No. of Cases given advice.	3,925
3. No. of active cases following F. P. advice.	880
4. Clinical attendance.	5,630
5. No. of persons.	22,855
6. Vascotomy Done.	56
7. Tubectomy Done.	451
8. No. Cases of supplied pices of Nirodh.	43,563
9. No. of Cases supplied contraceptive pills.	790
10. No. of Cases M. T. P. Done during the year.	199
11. No. of Cases supplied loop.	393

**Pathology.**

The Pathological report of the various test for the year is as under :—

Blood Routine.	19,202
E. S. R.	8,132
P. C. V.	8,209
Urine Routine.	18,645
Stool Routine.	3,132
V. D. R. L.	16,213
Widal.	291
B. T. & C. T.	947
Blood Grouping.	12,418
Rh. O. D.	12,386
X—Matching.	532
Blood Sugar.	9,183
S. G. O. T. & P. T.	740
C. S. F.	619
Body Fluid.	113
Sr. Protin.	338
Sr. Bilirubin.	343
Sr. Great.	2,193
Sr. Cholesterol.	1,132
Electrolyte.	1,009
P. T. P. I.	343
Peripheral Smear.	78
Semen.	520
Sputum A. F. B.	620
Gram Staining.	98
Alkaline Phosphet.	140
A. N. C.	4,990
Histopath.	965

Blood Bottles were collected and used as under :—

1. Total No. of Blood Bottles collected	1,154
2. No. of Valuntary Donors	882
3. No. of replacement Donors	180
4. Brought from other Hospital	263
5. Bottles for the Hospital	821
6. Bottle send to other Hospital	653
7. Bottle send for pleasma	186
8. Bottles Discharged	43

The relative of the patients were motivated to donate blood. Various social organisation were approved for organisation campaigns of Blood Donation. The Fpllowing organisation arranged the blood donation drives for the Hospital.

1. Bharatiya Janata Yuva Morcha
2. S. S. Society, Kherwadi
3. St. Peter's Church
4. National Congress
5. Tilak Dnandip Mandal, Goregoan
6. Mahim Taluke Youth Congress.
7. Kherwadi youth Congress.
8. Office of the civil defence Corpn.
9. Kandiwali Youth Congress
10. St. Teressa Church, Bandra.
11. M. I. G. Cricket Club.
12. Youth Congress (I), Bandra.

**RADIOLOGY**

The work done during the year is as under :—

INVESTIGATION	INDOOR PATIENTS	OUTDOOR PATIENTS
1. Barium-meel stomachoanum	35	64
2. Barium Eneme	9	6
3. Barium Swallow	7	18
4. Oral Cholec Stogram	4	9
5. Uretregram	7	12
6. I. V. Pyalogram	38	37
7. Histoosalpingography	8	37
	102	183

Total No. of patients X-Ray during the year of 1986.

9,886.

#### T. B. Clinic.

Due to shortage of accomodation T. B. cases were treated in this Hospital in general O. P. D. Medical Unit. The patient who were diagnosed were refered to the nereby Municipal Dispensary for futur treatment. However streptomycien Injection were given in this Hospital to those patients who were residing in the vicinity of this Hospital.

Total No. of patients treated during the year 1986. 12,171

#### Ambulance Facilities :

One Ambulance van attached to this Hospital for round the clock services. The van was made available to the general patients of the scheduled rates.

#### Hearse Facilities :

One Hearse was provided to work in two shifts for removal of deed bodies from this Hospital. The same is made available for general public at the scheduled rates.

#### Mobile van Dispensaries :

Two mobile dispensaries vans are attached to this Hospital the carter the needs of the people residing in slums where no Medical facilities are available.

#### Paying Bed Scheme :

The schame of paying bed have been introduced with effects from 7th October 1982. The patients give good response for this schame.

#### Future Projects and Development of the Hospital :

The Hospital is proposed to be expand in the Phases te as to increases bed strength up to 500 Beds. The construction of building in 1 st phase is started in the year 1982. The building is likely to be completed in all respects by May 1987. On Complication of 1st phase bed strength will be increased up to 365 beds.

Medical Superintendent,  
K. B. Bhabha Hospital, Bandra.

## DISTRIBUTED OF BEDE ACCORDING TO THE SEX.

Sr. No.	Department	Male	Female	Children	Total
1.	Medical	23	9	—	32
2.	Surgical	23	9	—	32
3.	Paediatric	—	—	32	32
4.	Gynaec	—	20	—	20
5.	Obstrectics	—	70	—	70
6.	E. N. T.	2	2	—	4
7.	Ophthalmic	2	1	—	3
8.	Skin	—	—	—	1
9.	Casuslty & Emergency	—	—	—	10
		50	112	32	204

## APPENDIX - I

Summary of Indoor admission, discharge, deaths and last remaining according to departmental unit.

Sr. No.	Department	Admission with last remaining	Discharge	Transfer to other Hospital	Deaths	Remaining last day of year.
1.	Medical	2,509	2,246	36	118	20
2.	Surgical	2,045	1,978	30	51	20
3.	Paediatric	2,346	2,183	45	193	16
4.	Gynaecology	1,014	984	4	—	20
5.	Maternity	3,656	3,550	3	—	79
6.	E. N. T.	403	400	—	—	3
7.	Ophthalmic	439	435	—	—	4
8.	Skin	—	—	—	—	—
		12,442	11,590	122	359	162

## ELECTRICAL CARDIOGRAM.

E. C. G. Diagnosis during the year 1986 is as under :—

1.	Chest Pain.	743
2.	I. H. D.	985
3.	Hypertension.	173
4.	Branchycardia.	85
5.	Breathleasness.	153
6.	Within Normal Limit.	240
7.	P. O. U.	30
8.	Anterior W. Ing.	43
9.	High B. P.	186
10.	R. B. B. H.	40
11.	Asthama.	242
12.	Myocardial Infraction.	83
13.	S. T. C. Changes.	9
14.	C. C. F.	173
15.	Low B. P.	56
16.	Diabeties.	145
17.	Anemia.	173
18.	Sinus Trechycardia.	11

Total : 3,349

Total No. of E. C. G. Taken 1,765 during the year 1986.

**Pharmacy.**

Pharmaceutical preparation for Indoor and Outdoor patients were made during the year is as under :—

1. No. of Peckets of Tablets made.	12,500	Pkts.
2. Quantity of stock mixtures prepared.	10,000	Lts.
3. Stock Mixture preparation.	13,500	Lts.
4. Oinment Preparation.	650	Kgs.
5. Lotion Prepared Calamins.	6,500	Lts.
B. B.	550	Lts.
G. Violete.	2,500	Lts.
Acrifiavin.	1,900	Lts.
Sodium Hyph.	1,500	Lts.
6. No. of Packet powder.		Nil
7. No. of Preparation account kept.		Nil
8. No. of Preparation where special drugs issued and account kept.	5,000	Bottles.

**Diseases wise Death during the year 1986.****Paediatric Unit.**

1. Gastro Entrites.	30
2. Brancho Pnemonia.	26
3. Pnemonia.	10
4. Bronchitis.	7
5. Branchopnemonis with C. C. F.	4
6. Aspiration with Pnemonia.	7
7. Encephalitis.	7
8. Tuberculosis with Meningitis.	32
9. Branchotis C. C. F.	11
10. Anemia (Sever).	5
11. Marasmus.	2
12. Cardio Respiratory Failed.	23
13. Septicemie.	5
14. Pyogenic Meningities.	6
15. Post Measules with C. C. F.	3
16. Prematurity.	16
17. Post Measules c Branchopnemonia.	3
18. Encephalities.	7
19. Acute Nephirities.	2
20. Meningo Coccal Meningities.	6

**Medical Unit :**

1. Cardio Respiratory Failure.	36
2. Cerebro Vascular Accident.	9
3. Hyper Tension c. C. C. F.	20
4. Anemia c. C. C. F. with Hypertension.	9
5. Plum Kochs.	3
6. Ischemic Heart Diseases.	15
7. C. C. F. with Kochs.	5
8. Gidness with Uncounciousness.	5
9. I. C. C. Overy.	1
10. T. B. Meningities.	12
11. Amebic Colaties.	5
12. Hepatic Failure c Cirrhosis ofliver.	1
13. Sever Anemia with General Debility.	2
14. Hepatic cellure Failure.	2
15. C. A. Stomach with Secondary inliver.	2

**Surgical Unit :**

1. Accident Injury.	16
2. Tissal Perforation.	13
3. Accute Hemmerges Panicrelifitis.	11
4. Post Operative complication.	6
5. Sever Panitorities.	5

Total.

359

Sr. No.	Department.	O. P. D. Sexwise Departmental Attendance.					Casualty Sexwise Departmental Attendance.				
		Male	Female	Male Child	Female Child	Total	Male	Female	Male Child	Female Child	Total.
1.	Medical.	66,193	59,217	...	...	1,25,410	7,509	4,998	...	...	12,507
2.	Surgical.	32,882	31,650	28,540	25,558	1,18,600	4,930	3,804	4,986	3,688	17,408
3.	Skin.	31,900	26,128	10,726	9,888	78,642	...	...	...	...	...
4.	Paediatric.	...	...	56,887	49,127	1,06,014	...	...	3,501	3,890	7,391
5.	A. R. V.	6,122	8,021	3,822	3,955	21,920	725	509	612	355	2,201
6.	O. T. P. T.	3,266	4,626	1,409	2,530	11,831	...	...	...	...	...
7.	Gynaec.	...	29,926	...	...	29,926	...	1,296	...	...	1,296
8.	A. N. C.	...	14,990	...	...	14,990	...	155	...	...	155
9.	P. N. C.	...	...	2,816	2,078	4,894	...	...	...	...	...
10.	Dental.	6,400	3,986	2,144	2,422	14,952	59	21	32	46	158
11.	E. N. T.	9,341	5,801	9,550	7,995	32,625	85	31	49	59	224
12.	Ophthalmic.	11,699	9,501	4,995	4,611	30,806	66	28	35	34	163
13.	Speech Therapy & Audiology.	699	300	219	77	1,295	...	...	...	...	...
Total.		1,66,500	1,95,148	1,21,108	1,09,181	5,91,935	13,374	10,842	9,215	8,071	41,503
O. P. D. Attendance.		5,91,935									
Casualty Attendance.		41,503									
Total		6,33,438									

Medical Superintendent,  
K. B. Bhabha Hospital, Bandra.

## DR. R. N. COOPER MUN. GEN. HOSP., JUHU.

In the year 1986—87, Dr. R. N. Cooper Municipal General Hospital, Juhu, has completed 16 years of service of rendering Medical relief to the ailing persons in the western suburbs of Bombay.

### Medical Superintendent

Dr. (Smt.) S. K. Pershad, M. B. B. S., D. G. O. Medical Superintendent has been transferred from Rajawadi Hospital, to Dr. R. N. Cooper Municipal General Hospital, Juhu, from November 1984 and continued to hold the post throughout the year.

### Assistant Medical Officer (Admn.)

Vacant since January 1984.

### Assistant Medical Officers

- 1) Dr. (Smt.) H. A. Mangat, M. D., D. C. H., Assistant Medical Officer — looking after the work A. M. O. (Admn.) since January 84 for which charge allowance has been sanctioned.
- 2) Dr. V. S. Bhalerao, M. B. B. S., Assistant Medical Officer looking after the work of C. A. S. Building since 16-1-1984 for which charge allowance has been sanctioned.
- 3) Dr. M. U. Ragate, M. B. B. S.
- 4) Dr. A. K. Sahu, M. B. B. S.
- 5) Dr. R. R. Tripathi, M. B. B. S.
- 6) Dr. S. H. Mehta, M. B. B. S.
- 7) Dr. R. N. Dhyawarkonde, M. B. B. S.
- 8) Dr. S. B. Patgaonkar, M. B. B. S.
- 9) Dr. S. S. Mahire, M. B. S. S.
- 10) Dr. R. J. Shah, M. B. B. S.

### Honorary Staff

#### Medical Department

1. Dr. R. D. Darne, M. D. (Bom.), M. R. C. P. (U. K.), F. C. C. P. (U. S. A.) He is now holding the post of Honorary Physician (Cardiology).
2. Dr. N. R. Shetty, M. D., Assistant Honorary.
3. Dr. A. K. Joshi, M. D., Honorary.
4. Dr. J. S. Barve, M. D., Assistant Honorary.

#### Surgical Department.

1. Dr. D. K. Dastur, M. S. (Bom.) Honorary Surgeon.
2. Dr. S. R. Padhye, M. S., Assistant Honorary.
3. Dr. M. M. Hindalekar, M. S., Assistant Honorary.
4. Dr. S. V. Shetty, M. A. M. S., M. S., Honorary.
5. Dr. A. C. Pinto, M. S., Assistant Honorary.

#### Plastic and Burns Department.

1. Dr. A. M. Rao, M. S. (Plastic) Assistant Honorary.

#### Obst. & Gynaecology Department.

1. Dr. S. H. Shah, M. D. (Bom.) D. G. O. D. F. P. F. C. P. S., Honorary.
2. Dr. R. M. Sarogi, M. D., Hon. Asstt., M. D. F. C. P. S. D. G. O.
3. Dr. S. S. Palnitkar, M. D. (Bom.) D. G. O. F. C. P. S. M. R. C. O. G. (Lon) Honorary.
4. Dr. A. C. Kale, M. D. (Bom.) D. F. P. F. C. P. S., Asstt. Honorary, Dr. A. G. Kale.
5. Dr. S. D. Chaubal, M. D. D. G. O. D. F. P., Honorary.
6. Dr. S. J. Penkar, M. D. D. G. O., D. F. P., Associate Professor.



**Paediatric Department.**

1. Dr. G. S. Hathi, M. D. Paed., D. C. H., Honorary.
2. Dr. (Smt.) S. Y. Joshi, M. D. D. C. H. Assistant Honorary.
3. Dr. P. N. Patnekar, M. D. (Paed.) D. C. H., Honorary.
4. Dr. V. S. Kulkarni, M. D. D. C. H., Assistant Honorary.

**Orthopaedic Department.**

1. Dr. R. N. Katre, M. S. (Ortho.) Honorary.
2. Dr. R. H. Pathak, M. S., Assistant Honorary.
3. Dr. A. J. Thakur, M. S. (Ortho.) F. C. P. S. (Ortho.) Honorary.
4. Dr. S. M. Karkhanis, M. S., Assistant Honorary.

**Ear, Nose & Throat Department**

1. Dr. P. P. Karnik, M. S. (Bom.) F. I. C. S. Head of the Unit.
2. Dr. S. P. Wagh, M. S., D. O. R. L. (E. N. T.) Hon. Asstt. Surgeon.
3. Dr. S. S. Joshi, M. S., D. O. R. L., Assistant Honorary.

**Radiology Department.**

1. Dr. L. M. Pancholia, M. D. (Radio.ogy), D. M. R. E., Honorary.

**Pathology Department**

1. Dr. S. A. Nimbkar, D. D. D. F. E., Assistant Honorary.

**Anaesthesia Department.**

1. Dr. U. V. Desai, M. D. (Bom.), Assistant Honorary.

**Skin & V. D. Department.**

1. Dr. M. W. Dhurandhar, M. B. D. V. D. F. C. P. S. F. C. A. I. F. A. C. A. (U. S. A.), D. T. M. H. (Lond.)  
Head of the Unit.
2. Dr. D. P. Deshpande, M. D., D. V. D., Honorary.

**Psychiatric Department.**

1. Dr. N. S. Vahia, M. D. (Bom.) F. R. C. (Psy) Head of the Unit.
2. Dr. V. N. Vahia, M. D., D. P. M., Honorary.

**Ophthalmic Department.**

1. Dr. T. N. Ursekar, M. S., F. A. C. S., Head of the Unit.
2. Dr. V. H. Gandhi, D. O. M. S., M. S., P. O. (Lond.) F. R. C. S. Hon.
3. Dr. M. V. Patel, M. S., D. O. M. S., F. C. P. S. Asstt. Honorary.

**Dental Department.**

1. Dr. A. B. Shroff, B. D. S., Honorary Assistant.
2. Dr. V. C. Shroff, B. D. S., Honorary Assistant.
3. Dr. B. S. Shroff, M. D. S., Honorary Assistant.
4. Dr. N. B. Wadgama, B. D. S., Honorary Assistant.

**Neonatology Department.**

1. Neonatology clinic is started from 1-8-1978 and conducted by Dr. G. S. Hathi, Dr. P. N. Patnekar, (Paed.).

**SPECIAL CLINICS****Family Planning Centre**

1. Dr. S. K. Sehgal, M. B. B. S. Full Time Medical Officer, for Family Welfare Centre.

**Neurosurgery Department.**

1. Neurosurgery OPD is conducted with the help of Neurosurgery Department of K. E. M. Hospital on every Wednesday from 1 p. m. to 4 p. m.

**T. B. Clinic.**

1. Dr. R. S. Patankar, M. D. asstt. Honorary.

**Nutrition clinic**

1. Nutrition clinic is attached to paed. OPD and works on every Friday from 9 a. m. to 4 p. m. It started functioning from February 1972.

**Hansen's clinic**

1. Hansen's clinic is managed by Acworth Leprosy Hospital, Wadala and is conducted on every Tuesday from 9 a.m. to 4 p. m.

**Diabetic clinic**

1. Diabetic clinic is conducted by Dr. A. K. Joshi on every Thursday from 8 a. m. to 10 a. m.

**School clinic.**

1. School clinic department started from July 1973, Dr. P. R. Surekha, Honorary Assistant is appointed from 12-11-1980.

**Lecturers :**

1. Dr. P. B. Bhosle, M. S. (Ortho.)
2. Dr. A. J. Mahajan, M. S. (Ortho.).
3. Dr. P. K. Parikh, M. S. (E. N. T.).
4. Dr. S. L. Nagvekar, M. S. (Ob. Gy.)
5. Dr. S. S. Khandeparkar, M. S. (Ob. Gy.).
6. Dr. K. R. Raghavan, M. D. (Paed.).
7. Dr. Nimish Shah, M. D. (Paed.).
8. Dr. B. D. Pandya, M. S. (Surg.).
9. Dr. S. N. Kanthe, M. S. (Surg.).
10. Dr. H. D. Kopikar, M. S. (Oph.).
11. Dr. S. V. Ganla, M. D. (Pay.).
12. Dr. J. C. Raja, M. D. (Med.).
13. Dr. V. R. Kadam, D. V. D. (Skin).

**Tutors**

1. Dr. S. N. Naik, M. D. (Ob. & Gy.).

**HOSPITAL**

1. i) Expenditure :	1) Amount spent on Inpatient	Rs. 1 Cr. 34 Lacs.
	2) Amount spent on Out-patient	Rs. 85 Lacks.
	3) Total expenditure excluding cost of new works.	Rs. 2 Cr. 19 Lacks.
Approximately	1) Total variable cost per Inpt. per day.	25.79
	2) Variable cost per outpt per day.	1.25
	3) Fixed cost per Inpt. per day.	44.19
	4) Fixed cost per Outpt. per day.	2.53
	5) Total cost per Inpt. per day.	69.98
	6) Total cost per Outpt. per day.	3.78
ii) A) Results :	1) Schedule bed strength.	520
	2) Daily average In-patients in Wards.	521
	3) Total No. of admission including those brought over from the previous year.	31015
	4) Total no. of patients discharged.	25861
	i) Left against medical advice or got discharge.	1080
	ii) Remained in the hospital on the last day.	491
	iii) Expired including neonatal & Still Birth.	2316
	iv) Average stay of In-patient.	7 days

B)	1. Total No. of New Out-patients admission.	1,61,541	
	2. Daily average No. of Out-patients (New).	527	
	3. Total No. of Out-patients (New & Old).	4,97,566	
	4. Daily average No. of Out-patients Attendance.	1620	
	5. Total No. of Casualty Attendance.	57,891	
	6. Casualty Attendance Medicolegal.	24,592	
	7. Daily average Casualty Attendance.	160	
C)	1. Total No. of Operations In-patient	(6396 + 1557 F. P.)	
		7,953	
	2. Total No. of Operations Out-patients.	29,591	

Confinements :	1) Booked cases.	2169	
	2) Emergency cases.	742	
	3) Normal.	2047	3043
	4) Abnormal.	996	
	5) Neonatal and Maternal Deaths.		
	i) Maternal Deaths.	8	
	ii) Neonatal Deaths.	9	
	iii) Still Births.	196	
	iv) Premature Infants.	166	
	v) Sterilization.	1) Male.	26
	2) Female.	620	

III)

**RADIOLOGY**

1. Total No. of patients investigated.	56,902
2. Total No. of X-Ray taken.	69,658

**Special Investigations :**

1. Barium Meal.	328
2. Barium swallow.	77
3. I. V. P.	321
4. M. C. U. G.	59
5. H. S. G.	79
6. Oral cholecystography.	81
7. Myelogram.	43
8. Fistulogram.	1
9. Barium Enema.	100
10. Silogram.	9
11. Cavitogram.	3
12. Ascending Pyelogram.	4
13. Spleenoportogram.	10
14. Bronchogram.	2

IV)

**BLOOD BANK**

1) i) Total No. of Blood samples collected.	4,587
ii) From Voluntary Donors.	2,064
iii) From O. P. D. patients.	4,441
iv) From other hospitals.	141
v) Total No. of bottles supplied to wards.	3,746
vi) Total collection of blood bottles.	4,587
vii) Australia Antijen — (R. P. H. A.) Tests done.	4,002

**SCHOOL CLINIC**

1) Total No. of school children treated.	
i) New.	2,840
ii) Repeat	11,814
iii) Referred.	176
2) Total expenditure on clinics.	Rs. 2,60,180.54

## VI) PHYSIO THERAPY AND OCCUPATIONAL THERAPY

1. Total no. of attendance at the centre.

i) Total no. of Out-patients.

38182

ii) Total no. of Inpatients.

50298

Emergency Trauma Unit was started on 1-11-1982.

## CHARGING OF FEES FOR OUTDOOR AND INDOOR PATIENTS.

Charging of fees for out-door and Indoor patients was started from 1-4-1982 under the C. A.'s circular no. CARG/105.

Charges for O. P. D. patients.

Rs. 2/- for every fifteen days.

Charges for Indoor patients.

Rs. 5/— for first ten days and thereafter Rs. 5/- for each day till patient is discharged.

Total revenue out of O. P. D. and Indoor patients fees as per above circular is.

Rs. 8,33,749/—

**Hearse and Ambulance services :** The ambulance service is made available to public at the hospital. The ambulance services are available in emergency to any ailing patient round the clock for transfer of patients to other hospitals. One hearse is provided for removing dead bodies at the hospital for Western suburbs.

Total income from Ambulance and Hearse during the year under report was. Rs. 32,042/-

## STATEMENT SHOWING THE REVENUE FROM THE HOSPITAL DURING 1986.

Months 1986	Paying Beds	Indoor Admission	Renewal Fees overstay	O. P. D. Fees	4th. Delivery	Scrap collection
January	28,310	8,780	11,325	23,404	300	—
February	21,832	8,012	10,355	21,472	400	—
March	27,757	8,915	11,895	23,584	500	—
April	25,005	9,325	11,050	23,690	200	27,383
May	22,745	8,920	11,380	22,864	600	—
June	18,971	8,135	12,400	20,416	100	23,440
July	24,822	9,370	10,150	25,164	100	1,483.65
August	20,285	8,200	12,670	22,354	100	72,123.30
September	27,540	8,405	11,430	24,980	200	—
October	33,215	8,995	11,665	23,345	—	—
November	30,696	8,600	10,815	24,844	200	3,421.37
December	29,577.50	8,470	10,205	24,310	400	6,449.90
<b>Total</b>	<b>3,10,755.50</b>	<b>1,04,127</b>	<b>1,35,340</b>	<b>2,80,427</b>	<b>3,100</b>	<b>1,34,301.22</b>

## MEDICAL RECORD DEPARTMENT

### In-patient Division :

The number of schedule bed strength during the year was 520. During the year 1986 the average no. of In-patient in the hospital was 521 against 516 and 475 during the year 1985 and 1984 respectively. The total no. of patients admitted for hospitalization during the year under report was 30481 as against 29995 as against 27715 respectively for 1985 and 1984. The average stay of In-patients was 7 days during the year under report.

### Results of treatment of Indoor patients :

Out of total no. of 31015 including 534 brought over from the previous year 25861 were considered as cured, 1080 left the hospital against medical advice or were otherwise discharged and 2103 died (excluding 196 Still Birth and 9 Neonatal deaths, 8 Maternal Deaths, 4 Casualty Deaths.) At the end of the year 491 patients were in the hospital under treatment.

### DEATH CLASSIFIED :

Out of 2107 deaths 661 died within 24 hours of admission, 462 after 24 hours and within 72 hours is of admission, 834 deaths took place after three days from the date of admission. 166 premature infants deaths, 4 died at casualty. The figures are exclusive of 196 still Births and 9 neonate, 8 Maternal death. Death rate was 5.7 against 5.2 during the last year.

Total no. autopsies performed during the year under report was 7.66 against 531 and 468 for the year 1985 and 1984 respectively. Autopsy rate was 5.4 for the year 1986 as against 5.4 and 5.7 for the year 1985 and 1984. All these autopsies were performed by the Additional Coroner's surgeon.

### Confinements :

During the year under report the total number of confinements were 3043 and abortions 873.

### Operations :

7953 operations were performed on In-patients and 29591 operations were performed on Out-patients.

### Out-patients Department : -

**Out-patient Particulars :** The total no. of new case papers issued during the year under report was 1,61,541 against 1,56,132 in the year 1985 and 1,74,764 in the year 1984. The total no. of out-patient attendance (New & Old) including casualty cases was 4,97,566 bringing the average total attendance 1620 per day.

Casualty cases registered during the year were 57,891 as against 57,091 and 52,476 during the year 1985 and 1984.

### Medico-legal cases :

During the year under report the resident Medical Officers and casualty Medical Officers attended the following courts for giving evidence in the Medico-legal.

1. Presidency Magistrate courts	196
2. Sessions courts	31
3. Motor accident Tribunal	11
4. Other courts	5

During the year approximately 766 depositions were filled in the coroner's court.

### Medical Certificates :

1. Under workmen's compensation act	82
2. Medical opinion certificates	2672
3. Injury certificate to patients in Medico-legal cases.	1428
4. Injury certificates to Police in Medico-legal (Free).	3758
5. Injury certificates to Municipal employee injury & leave (Free.)	817
6. Certificate for Insurance purposes	106
7. Essentiality certificates for reimbursement of medical expenses to Govt.	58



### FAMILY WELFARE DEPARTMENT

The family welfare department has been started at this hospital in April 1969, with a regular centre, dispensing family planning aids from 9.00 a. m. to 4.00 p. m. On all O. P. D. working days. During the year under report it has completed 17½ yrs. of services.

The staff consists of a full time Medical Officer, store keeper-cum clerk, attendant and a field worker. The following services are offered :

1. Distribution of condome.	14770
2. I. U. C. D. Insertions.	1012
3. Oral contraceptive.	365
4. Other convention contraceptives like diaphram.	—
5. The Tubectomy : This includes puerperal sterilization both abdominal & vaginal.	620
6. Vasectomy.	26
7. The Medical Terminal of pregnancy is started from April 1974 and total M. T. P. done during the year under the report was.	626

The centre also conducts other regular programmes like Maternal Health educational programmed in addition to family planning information to antenatal and postnatal patients. It render guidance services to those who desire it.

Following are the figures of attendance :

1. New cases	2932
2. Condoms	14770
3. I. U. C. D.	1012
4. Other convention contraceptives (Tablet)	365
5. Tubectomies	620
6. Vasectomies	26
7. Diaphragms	—
8. M. T. P.	626
9. Applicator with Jelly.	—

### IMMUNIZATION CENTRE

Polio :	1st dose	1683
	2nd dose	1427
	3rd dose	959
	4th dose	608
	5th dose	501
	Booster dose	364
		Total 5542
Triple	1st dose	1316
	2nd dose	1427
	3rd dose	959
	Booster dose	362
Tetanus :	1st dose	27014
	2nd dose	2190
	3rd dose	1576
		Total 30780
B. C. G. :	Measles	298
	Merting occocal	1350
	H. B. Vaccine	143
	T. A. B. C.	42
	Cholera	82
	O. P. D.	2664
	Ward (In-patient)	2389
		Total 5053
Antirabic Treatment :		22,632

**PAEDIATRIC DEPARTMENT**

During the year under report 17054 were treated in the Out-patient department and 4505 were admitted as In-patients.

**Screening and Mantoux testing :** These include respiratory cases and Mantoux testing was done in about 17054 cases. Blood Transfusion no. of cases were 42.

**PREMATURE BABY WARD**

The paediatric department also manages a premature baby ward (Started functioning from Oct. 1971 with a capacity of 7 incubators and same is increased now to 10 incubators but actual figure ranges to 15 to 20 per day.

During the year under report 811 were admitted as In-patient and 166 expired. There is a regular premature follow up once in a week which has shown good results. A well baby clinic is also run in O. P. D. by the paediatricians.

**NUTRITION CLINICS**

A Nutrition clinic attached to paediatric O. P. D. started functioning from February 1972. The work done in the year 1984.

Total Nutrition clinic days.	306
Total cases.	984
Feeding advice given	860

**DEPARTMENT OF MEDICINE**

The Medical Department consists of two units and each unit is staffed with Honorary, Assistant Honorary and one Jr. A. M. O. two Registrars, three house-physicians. A diabetic clinic and a Gastroenterology clinic is run once a week in the morning. About 1444 diabetics (including new and old) are treated and followed up every week. Cardiology out-patients clinic is conducted on every Saturday to look after patients discharged from coronary care unit. This department has a staff of two registrars and three house officers.

The total no. of patients admitted during the year 1986, in the Medical units was 6221 (3816 Male, 2405 Female) as 5876 in the year 1985 and 6725 in the year 1984.

Heart disease patients were treated in the Medical ward during the year 1986. 7228 E. C. G.s were taken during the year under report.

**I. C. C. U. :** The department started functioning from 1-3-1975. The total no. of patients admitted during the year 1986 in I. C. C. Unit was 618.

<b>T. B. clinic :</b>	New cases	2,028
	Old cases	34,053
		<hr/> 36,081

**Post Graduate Students training in the department of Medicine of Dr. R. N. Cooper Hospital.**

1. Daily teaching ward rounds.
2. Weekly journal review meetings.
3. Monthly clinical meetings.
4. Weekly post-graduate clinics.
5. Supervision of research activities of post-graduate students.
6. Assessment of the post graduates teaching abilities.



**Undergraduate teaching in the Department of Medicine of Dr. R. N. Cooper Hospital.**

1. History taking and clinical examination of various systems.
2. Management of common medical emergencies.
  - A. Poisoning.
  - B. Patients of metabolic coma.
  - C. Cardiac, neurological and other problems.
3. Demonstration of ward procedures.
4. Case discussion during ward rounds.
5. Demonstration of interesting out-patient cases.
6. Discussion on Related clinical Investigations.
7. Discussion on therapy where applicable depending on the stage of students.
8. Assessment of the students by reviewing their attendance, ward performance and ward examinations.
9. The above teaching is done by the honoraries and registrars.

**DEPARTMENT OF SURGERY**

Department of surgery consists of two units each staffed with Honorary, Assistant Honorary, Two Registrars and two housemen in each unit. In addition there is surgical Jr. A. M. O. and surgical tutor. The no. of scheduled beds allotted to the surgical department is 30 in M. W. and 30 in F. W. for each unit. Surgical department is well equipped to manage both emergency and routine surgical problems. This institution also caters to the emergency cases of other suburban hospitals. Minor surgery theatre is attached to the surgical O. P. D. Dressing department is attached to the surgical O. P. D. managed by Minor surgery Registrar with help of respective surgical unit.

**Plastic Surgery:** There are one Honorary Asstt. & two Housemen O. P. D. is conducted twice a week. They attend to Emergency calls specially for facial injury. They manage the Burns ward of 10 beds. The following is the account of work done in the dept. of surgery during the year.

1) Total New O. P. D. Attendance	52,207
2) Total Admissions	3,502
3) Operations :	
a) Major	2,086
b) Minor	19,497
c) Emergency	655
d) Total no. of Gastroscopies	176
4) Total no. of patients treated in Minor Surgery.	19,497
5) Total no. of Admission in I. C. U.	1,175

**Neurosurgery clinic :** Neurosurgical O. P. D. is conducted with the help of Dr. S. K. Pandya, Prof. of Neurosurgery, G. S. M. C. & his assistants of the Neurosurgical deptt. of K. E. M. Hospital on every Wednesday from 1.00 p. m. to 4.00 p. m. This is very helpful for the patients of this hospital who require Neurosurgical care. Number of cases which were seen in Neurosurgical clinics during 1986 is: 293.

## DEPARTMENT OF PSYCHOLOGICAL MEDICINE

The department started functioning from 15-6-1977. It has 2 Honorary 3 Registrars, two House Officer, One social worker, One clinical Psychologist & One Occupational Therapist, One E. E. G. Technician, One Jr. Steno. The following is the statistical data of the work done during the year for the period 1986.

1. Total no. of O. P. D. patients (New)	5171
2. No. of O. P. D. conducted during the Month	158
3. Total no. of new and ref. cases examined in O. P. D.	2390
4. Average attendance (New cases)	142
5. Average no. of new and ref. cases examined per O. P. D.	885
6. Total no. of patients treated with E. C. T.s new.	225
7. Total no. of patients treated with E. C. T.s old.	1891
8. Total no. of Insulin sittings conducted.	73
9. Average Insuline.	14
10. No. of Indoor patients	492
11. Total no. of patients treated	7456
12. Sex Education	604
13. No. of patients for psychological testing.	714
14. Testing sessions	1727
15. Total no. of sessions of counselling	864
16. Total no. of new social work.	525
17. Total no. of Individual sessions.	747
18. Family therapy no. of patients	59
19. Family therapy no. of sessions.	141
20. Total no. of patients referred to day care centre.	203
21. Average attendance at day care centre	10-11
22. Total no. of patients for C. G. C. New	169
23. Total no. of patients for C. G. C. - Old	183
24. Group therapy no. of New patients	228
25. Group therapy no. of total patients.	315
26. Marital therapy no. of patients	50
27. Marital therapy sessions.	56

## DEPARTMENT OF ORTHOPAEDICS

Orthopaedic department consists of two Honoraries & two Assistant Honorary, four Registrars and four house officers, Following was the work done in the this department during the year under report.

Out door attendance	11,548
Indoor admissions	2,368
No. of Operations	885 + 10,094 (Tr. O. T.) 10,979

The department is well equipped to cope up with the large no. of trauma cases brought to the hospital. A Consequent to the donation of AO instruments to Ortho. Dept. the Indoor stay of Ortho. patients has been considerably reduced. Ethylene Dioxide autoclave has been instabed this year in Ortho. O. T. for better effective sterilization of implants rubber & P. V. C. Surgical articles etc.

### ENT. NOSE AND THROAT DEPARTMENT

Ear, Nose and Throat department was started from June 1972. All the routine and emergency ear, nose and throat surgical procedures with constructive ear surgery and stapedectomy are now undertaken for which necessary operating microscope is available.

There are three O. P. D. and two operation sessions each week. All the routine investigations like caloric test and audiometry are carried out in the O. P. D. The following is the account of work done in the department during the year under report.

Total New O. P. D. Attendance	7,003
Indoor Admissions	761
Operations	746

### AUDIOLOGY AND SPEECH THERAPY DEPARTMENT

The functioning of the audiology and speech therapy unit started from 19-7-1976. The unit has a part-time Audiologist on its staff. The following is the account of work done during the year under report.

Audiograms	803
Speech cases	73
	-----
Total	860

### OPHTHALMIC DEPARTMENT

There are one Honorary, One Assistant Honorary one Registrar and two house surgeons on its staff. The following is the account of work done during the year 1985.

O. P. D. Attendance	7,128
Indoor Admissions	679
Operations	810

### SKIN AND VENEROLOGY DEPARTMENT

During the year under report 9670 new cases were treated at the out-patients department and 98 were admitted as In-patient. The following investigations were carried out in the laboratory.

1. Skin Biopsy	233
2. Venereal disease cases	19,866

**Hansen's clinic :** Hansen's clinic started from March 1974 and it functions on every Tuesday. During the year under report 187 new cases were treated in the out-patient department.

### DENTAL DEPARTMENT

There are four part time surgeons, one staff nurse and one labourer. Referred patients and general O. P. D. patients having dental complaints are also examined and treated. This department attends the school clinic children.

The following is the account of work done in this department during the year 1986.

Total no. of patients examined	General O. P. D.	School clinic
-----	-----	-----
No. of medications	5,328	1,002
No. of dental extraction.	2,521	820
No. of scaling teeth	497	391
No. of X-rays recorded	197	33
No. of filing cement	40	300

### SCHOOL CLINIC DEPARTMENT

A school clinic was started functioning from July 1973. It functioning in paediatric, ophthalmic aural and dental departments where medical examination of school children from suburban municipal school between Bandra and Borivali is done.

The common ailments found among the children were Malnutrition, Vit (A) deficiency, Aneamia, Respiratory infection, Scabies, Pyoderma, Pharyngitis. Tonsillectomy operations were performed on 63 cases in the year 1986.

Total no. of school children treated :

i) New	2,840
ii) Repeat	11,814
iii) Referred	176

The total expenditure on school clinic is Rs. 2,60,180.54. The details are as under :

1) Establishment	2,29,980.54
2) Contingencies & Miscellaneous	900
3) Medicine & instruments	29,300
<b>Juhu Lions Dental clinic.</b>	
1) Establishment	46,496.40
2) Medicine & Instruments	1,000
3) Labour Technical & others	13,681.80
4) Total expenditure of establishment	60,178.20

### PATHOLOGY DEPARTMENT

Following investigations were done in the Pathology Department.

<u>Investigations</u>	<u>Total No.</u>
Biochemical	1,67,989
Serological Khan Test.	11,466
Haematological	35,279
Histopathology	3,069
<b>Bacteriology</b>	
1. Culture	10,212
2. A. F. B. Smears & Diphtheria	6,734
3. O. P. D. Laboratory routine work	1,37,559
4. School clinic	2,940

### NURSING STAFF

Matron	1
Jr. Asstt. Matron	2
Sister Tutors	3
Midwifery Tutor	1
Ward sisters	28
Staff Nurses	164 + 16 (Leave reserve)
Auxillary Nurses	42
Theatre Assistant	10
Health Visitors	2
Midwife Nurse	—

## NURSING SCHOOL REPORT

There were 21 students appeared for General Nursing Exam. Part—I all students passed in it except one. Out of that seven students were passed in Honours and others were passed in first class. These seven is out of eleven for the whole B. M. C. Nursing school. Midwifery council Exam. held in August 1986 & it was resulted sent percent.

Valsamma Korah received Mayers Award in 1986.

For all the school activities diary is maintained which is selected at state level & at national level. Valsamma Korah was elected as Secretary of student Nurses Association of Maharashtra. In T. N. A. I. Conference received Edith Paul shield on AIDS Model Lucia Noronha secured 2nd prize in instrumental Music. Actively participated in T. N. A. I. Nurses with programme Miss Cicily Paul won the 1st Prize in Herdle race. Annual Day celebration was celebrated in June 1986 and inaugurated by Mr. P. D. Karandikar, D.M.C. (P), Chief guest, & Dr. Parulkar, Miss Shilpa Kataria was crowned as Miss Cooper in 1986. Actively participated in T. N. A. I. Maharashtra state conference & secured two first prizes to sister Tutor N. D. Joshi & Staff Nurse S. S. Macwan.

During 1986 in Inservice Education programme about 160 candidates attended successfully in Dr. R. N. Cooper Hospital. "W. H. O. day was — celebrated on Health Living Every One A Winner"

Out students presented a final discussion on the topic nursing Education Community involvement and outreach programme during the state conference of S. N. A. at Vardha which was appreciated by all the superiors. One of our student Miss Lucia & Naronha chaired the national final discussion on the same topic at Kaipnator during the National S. N. A. conference.

### Training of Medical Students of G. S. Medical collage :

Medical students training started from July 1979 at Dr. R. N. Cooper Hospital. The following departments of this hospital have been recognised by the University for the purpose of undergraduats Teaching-Medicine. Surgery. Gynaeco., & Obst., Paediatric, and Orthopaeduc. The students of G. S. Medical collage are attending the hospital from April 79 onwards. The following members of the staff have been recognised by the University as Postgraduate Teachers—Dr. R. D. Darne, Dr. D. K. Dastur, Dr. S. H. Shah, Dr. R. N. Katre, Dr. N. R. Shetty.

## ANAESTHESIA DEPARTMENT

Anaesthesia department of Dr. R. N. Cooper Mun. Gen. Hosp., Juhu has the following staff on its establishment. Dr. U. V. Desai, Honorary Assistant, Anesthetist appointed from 10-1-1977. Since 1-9-1970 Dean (G) has been deputing five-six registrars/five-six lecturers to manage the workload of the hospital. This arrangement has been working very smoothly under the guidance of Dean (G).

Sr. No.	Department	Category	No. of post recognised
1.	Gen. Medicine	Registrar	4
2.	I. C. C. U.	"	2
3.	Psychiatry	"	2
4.	Skin & V. D.	"	1
5.	Paediatrics	"	2
6.	Neonatology	"	2
7.	Gen. Surgery	"	2 + 2
8.	Gen. Minor O. T.	"	1
9.	E. N. T.	"	1
10.	Ophthalmic	"	1
11.	Burns & Plastic surgery	"	2
12.	Orthopaedics	"	4
13.	Obst. & Gynaec	"	3
14.	Anaesthesia	"	1
15.	Pathology	Reg. Pathologist.	2
16.	Radiology	Reg. Radiologist	1
17.	Gen. Medicine	House Officer	5+1 recog. previously
18.	I. C. C. U.	"	3
19.	Psychiatric	"	2
20.	Skin & V. D.	"	2
21.	Paediatric	"	6 "
22.	Gen. Surgery	"	4 + 2
23.	Neonatology	"	2 "
24.	E. N. T.	"	1+1 "
25.	Ophthalmology	"	1+1 "
26.	Burns & Plastic surgery	"	2 "
27.	Orthopaedics	"	4 "
28.	Obst. & Gynaec	"	4+2 "
			67 + 9

#### Special Acknowledgement :

Due to the persistent efforts and guidance of Dean (G) Dr. G. B. Parulkar, Additional two posts of Registrars and two posts of House Officers were recognised for the purpose of post-graduate studies in the department of Gen. Surgery at Dr. R. N. Cooper Municipal General Hospital, Juhu, from November 1985 *vide* letter No. PG/1293.

#### Expenditure out of Poor Box Charity Fund :

Besides the expenditure incurred from Municipal Funds sum of Rs. 6,67,746 was spent out of Poor Box Charity Fund in the year of 1986—87 as against Rs. 4,24,577.66 in the previous year. The amount was mostly spent on X-Ray Plates, C.T. Scan, costly drugs, Blood Transfusion, and Blood Products for needy patients. Provision of crutches, spectacles etc. for the Poor and deserving patients of the hospital was also made.

#### Expenditure out of the Hospital Budget Grant :

Besides the total expenditure incurred on the maintenance of the hospital during the year 1986-87 including liabilities at the end of the year but exclusive of the cost on new works amount to Rs. 7,77,049 approximately. The expenditure was inclusive of cost of maintenance and treatment of In-patient, Out-patients and establishments, drugs on Medical Nursing Administrative and Labour staff as well as the cost of the staff for maintenance and repair of the building.

## SPECIAL ACTIVITIES

## Special Activities during the year 1986 :

(1) Inauguration of the Orthopaedic Bone Surgery Instruments and implants for Handicapped at the Orthopaedic Unit of the Dr. R. N. Cooper Municipal General Hospital, Juhu was done by Shri Chhagan Bhujbal, Mayor of Bombay, 22-1-1986.

(2) The inaugural function of National Workshop on "The meaningful participation of Indian Mothers in Child Health and Care" was held on 18-10-1986 at Dr. R. N. Cooper Mupl. Gen. Hospital, Dr. N. Sunderavalli, The President of Indian Academy of Paediatrics has presided and given the inaugural address. This was sponsored by "Indian Academy of Paediatrics". Dr. G. S. Hathi, was Convenor & Dr. R. N. Joshi, was con-convenor.

(3) M. C. I.'s Inspection team visited Dr. R. N. Cooper Hospital along with Dean 'G' on 4-1-1986 to 6-1-1986.

(4) For the recognition of two newly created post of House surgeon and two posts of Registrars in the department of surgery for care of serious trauma patients in I. C. U. Dr. H. G. Doctor and Dr. V. N. Shrikhande and Dr. T. E. Udhwadia inspected the hospital on 16-12-1986.

(5) Symposium of 'Nuclear War and Doctor's responsibility' was arranged at Dr. R. N. Cooper Municipal General Hospital Juhu on 28-04-1986.

(6) Ultrasonography charges were started as Rs. 50/- Scopy, from December 1986 as per-Circular vide No. KMR of 8-7-1986.

(7) Proposal for accepting the plan of "SPARC" to assist the Department of psychological medicine at Dr. R. N. Cooper Hospital for looking after the drug addicts was sanctioned.

(8) Medico Social Worker, Psychological Medicine from Dr. R. N. Cooper Hospital Juhu was invited by the Cleveland International Program to work with social organizations and hospitals in United States & depested vide order No. HO/12770/SSKP on 19-1-1986.

(9) Students from Leelabai Thackersey College of Nursing have undergone clinical training in Psychistry and Psychiatric Nursing from 28-7-1986 to 23-11-1986 at Dr. R. N. Cooper Hospital, Juhu.

(10) Acceptance of donation by Lons Club Juhu for Eye Bank under SCR No./523/3.10.86.

(11) Cold Drinking water foundation was sanctioned for the patients and relatives attending at Casualty and New Building.

## STATEMENT

## Revenue out of Poor Box Charity Fund during the year under report.

Months	X-Ray Collection	U. S. G.	E. C. G. Collection	Certificate Collection	OGD	Donation Collection	Total
January	47,515	—	4,080	949	—	475	53,019
February	53,240	—	3,880	882	—	600	58,602
March	53,295	—	4,970	928	—	575	59,768
April	48,162	—	4,100	869	—	900	54,031
May	45,486	—	4,150	833	—	900	51,369
June	47,263	—	3,500	802	—	1,400	52,965
July	43,500	—	4,440	1,120	—	700	49,760
August	43,000	—	3,590	807	—	1,450	48,847
September	50,080	—	4,280	884	—	1,660	56,904
October	59,737	—	4,530	731	—	650	65,648
November	49,980	—	4,330	994	—	880	56,184
December	54,185	3,255	4,870	894	1,550	700	65,454
Total	5,95,443	3,255	50,720	10,693	1,550	10,890	6,72,551

## APPENDIX - I

Statement showing the distribution of beds according to the departments.

Departments	Bed strength at present allotted
Medical	90
Surgical	90
Orthopaedic	70
Pediatric	60
Gynaec.	90
E. N. T.	30
Ophthalmic	30
Psychiatric	30
Skin	30
	520

Under sanction No. MDG-4559 of 8-2-1985.

## APPENDIX - II

Statement showing the particulars of Indoor and Out-door patients no. of operations performed etc. during the year 1986.

Particulars	1986	1985	1984
A) In-patients :			
1. Schedule Bed strength.	520	520	520
2. Daily average no. of In-patients.	521	516	475
3. Daily average no. of Admissions.	110	110	102
4. Total no. of new In-patients admitted.	30,481	29,995	27,715
5. Average no. of days each patient was resident.	7 days	7 days	7 days



## Dr. R. N. Cooper Municipal General Hospital, Juhu.

Ref. : Circular No. 4986/RI.

1986	Medical	Surgical	Paed.	Gynaec.	Orthopaedic
1) Bed Strength	90	90	60	90	60 + 10*
2) Occupancy bed strength (Yearly).	31694	37005	15955	35903	42259
3) Average Occupancy per day.	87	105	48	100	117
4) Average Stay Departmentwise (days)	6 days	11 days	4 days	6 days	1 Month
5) O. P. D. Attendance (New & Old).	11579	59428	48040	47836	33552
6) Mortality rate per day.	1.62	0.92	1.15	0.02	0.14
7) Operations Yearly : Major Minor	—	2086 9096 CLW 10401 Minor	—	1387 1557 (Family Planning)	885 10094 (Tr. O. T.)
Casualty Attendance/Day	160 per day				
i) Medico legal cases	70				
ii) Non-Medico legal cases	90				
Total	160				

Schedule Bed strength 520 (Intensive care beds plus additional orthopaedics beds are not included in schedule Yet)

Premature	E. N. T.	Ophthalmic	Skin	I. C. U.	I. C. C. U.	Burns	Psychiatry
10 Cradles	30	30	30	10	10	10	30
3898	2718	4171	1357	2917	2240	2554	7456
11	8	12	4	8	7	7	20
1 Month	4 days	7 days	14 days	3 days	4 days	8 days	16 days
—	25280	26160	36012	—	—	—	20592
0.45	0.01	—	—	0.41	0.41	0.42	—
—	746	810	—	328	—	154	Plastic

## B) Out-patients :

1. Total no. of new-out patients attended.	1,61,541	1,56,132	1,74,764
2. Daily average no. of new out-patient.	527	450	585
3. Total no. of out-patients Attendance (New & Old)	4,97,566	3,71,190	3,36,079
4. Daily average no. of Out-patients attendance (New & Old).	1,620	1,473	1,300
5. No. of casualty patients.	57,891	57,091	52,476

## C) Operations :

1. Total no. of Operations on Inpatients.	F. P. (6396 + 1557)	F. P. (6325 + 1629)	F. P. (5700 + 1596)
2. Total no. of operations on Out-patients.	29,591	27,493	27,311

## APPENDIX III

Statement showing the In-patients treated in Dr. R. N. Cooper Municipal Gen. Hospital, Juhu during the year 1986 with the classification according to departments, discharge and deaths.

Departments	In the Hospital mid night of 31-12-85.	Admitted During the year 1986.	Total Treated	Discharge during the year 86	Died	In the Hospital by mid night of 31-12-86.
Medical	67	6221	31694	5599	593	96
Surgical	120	3502	37005	3187	338	97
Gynaec.	99	6440	35903	6446	8	85
Paed.	40	4505	15955	3917	495	33
Premature	11	811	3898	643	166	104
Ortho.	124	2368	42259	2336	52	18
E. N. T.	9	761	2718	748	4	12
Ophth.	12	679	4171	679	—	12
Skin	5	98	1357	101	—	2
I. C. C. U.	8	618	2240	469	151	6
Psy. wd.	25	492	7456	500	—	17
I.C.U.	9	1175	2917	1029	150	5
Burns	10	354	2554	207	154	3
	534	28,054	1,90,127	25,861	2,111	491

Maternal Death	—	8
Neonatal Death	—	9
Casualty Death	—	4
Still Birth	—	196

## APPENDIX IV

Statement showing the Out-patients (New and Casualty) in Dr. R. N. Cooper Mun. Gen. Hospital, Juhu during the year 1986 classification according to the Dept. Sex.

Department	Sex	New OPD	Casualty
Medical	Male	11974	3913
	Female	9024	2803
Surgical	Male	5456	21246
	Female	4440	8943
	M/ch	2650	4073
	F/ch	2311	3088
Gynaec.	Female	11959	3226
Orthopaedic	Male	3033	1330
	Female	2433	807
	M/ch	1585	585
	F/ch	1337	438
E. N. T.	Male	2224	300
	Female	1851	175
	M/ch	1192	120
	F/ch	1053	88
Ophthalmic	Male	2350	266
	Female	1937	232
	M/ch	1201	45
	F/ch	1052	45
Dental	Male	2202	225
	Female	1745	160
	M/ch	1032	35
	F/ch	820	14
Paediatric	Male/ch	5785	2800
	Female/ch	5014	2244
	PNC	1211	...
Skin	Male	3306	300
	Female	2624	209
	M/ch	1709	93
	F/ch	1364	65
Psychiatric	Male	2056	15
	Female	1550	8
	M/ch	847	—
	F/ch	695	—
T. B.	Male	892	—
	Female	698	—
	M/ch	250	—
	F/ch	188	—
		1,03,650	57,891

## APPENDIX V

Statement showing the relative cost per In-patient and Out-patient per day during the year 1986.

As per Productivity Department's suggestion the cost per patient proforma is given as below.

Particulars	Average per day
1) Total variable cost per Inpt. per day.	25.79
2) Total variable cost per Outpt. per day.	1.25
3) Total Fixed cost per Inpt. per day.	44.19
4) Total Fixed cost per Out-pt. per day.	2.53
5) Total cost per Inpt. per day.	69.98
6) Total cost per Outpt. per day.	3.78

**SHRI H. B. M. G. HOSPITAL, BORIVLI, BOMBAY—103.**

HO/703/BH of

"Sub. : Administrative Report for 1986 to be incorporated in M. C.'s administrative Report for 1986-87.

"Ref. : Your No. HO/62293/RI of 15-1-1987.

M. C.

Director

P.H. &amp; C.A.S.

H. O.

So far as this hospital is concerned the required information is furnished herewith, for the year 1986-87.

(1) High Lights :		
I-1) Expenditure :		Rs. 2,36,03,010.00
1. On In-patients.		Rs. 1,57,35,340.00
2. On out patients.		Rs. 78,69,670.00
(2) Average cost per :		
1. Inpatient per day.		Rs. 130.23
2. Out patients per day.		Rs. 41.22
(3) Results In patients :		
1. Schedule bed strength		300
2. Daily average in patients in ward.		263
3. Admissions including those brought over from previous year.		16012
(4) Number of patients discharged as :		
1. As cured.		14372
2. Otherwise.		543
3. Expired.		851
4. Remained in the hospital ward on the last day of the year 1986.		246
5. Daily average number of admissions.		43
6. Average stay of in patients (in days).		7 days.
7. Highest number of in patients in a single day.		49
(5) Out patients :		
1. New out patients attendence.		100841
2. Daily average number of new out patients and old patients.		276/654
3. Highest O. P. D. attendence on a single day.		345
4. No. of casualty attendence.		16501
1. Operations on inpatients.		5631
2. Operations on out patients..		8302
3. Total Operations.		13933
4. Daily average.		38
(6) Confinement :		
1. Booked cases.		1571
2. Emergency cases.		548
3. Normal.		1082
4. Abnormal.		489
5. left before delivery.		6
(7) Neo-Natal and natural deaths :		
1. Maternal deaths.		5
2. Neo-natal, deaths.		21
3. Still Birth.		103
4. Premature live born infants.		51

<b>(8) Specialised treatments :</b>		
1. Sterilization (Male)	:	28
2. Sterilization (Female)	:	320
3. Coper 'T' (Inserted)	:	205
4. Disease wise distribution of cases treated, and deaths including tuberculosis & S.T.D., of all forms, There should also be deaths of food poisoning cases.		
	<b>Cases</b>	<b>Deaths</b>
1. S.T.D. Cases.	: 730	Nil
2. Food poisoning cases.	: 39	Nil
3. Tuberculosis	: 725	3
<b>(9) Electrocardiography Deptt. :</b>		
1. Total No. of E.C.G. taken	:	4026
2. Screening cases.	:	Nil
<b>(10) Physiotherapy/Occupational :</b>		
1. Total cases treated.	:	4920
<b>(11) Radiology Deptt. :</b>		
1. Total No. of X-Ray taken.	:	25658
2. Total No. of screening cases	:	Nil
<b>(12) BLOOD BANK :</b>		
1. Total No. of Bottles collected	:	1671
2. Professional donors.	:	Nil
3. Brought from other hospital.	:	182
4. Relative donors.	:	379
5. Bottle supplied.	:	1671
6. Bottle dispatched.	:	1671
7. Voluntary donors.	:	1095
8. Sent for dry plasma.	:	9
<b>(13) Mobile Dispensary :</b>		
1. Total No. cases treated during the year 1986.	:	4289
<b>(14) Medical Record Deptt. :</b>		
1. Total cases attended by doctors in court.	:	39
2. Total Medical certificates issued to patients.	:	2164
3. Medico Legal Cases.	:	17746
4. Medical Certificates issued to various police stations.	:	1185
<b>(15) Ambulance Services :</b>		
1. Total No. of calls attended.	:	605
2. Amount collected by Ambulance	:	Rs. 1428/-
3. Total free calls attended.	:	315
<b>(16) Hearse Services :</b>		
1. Total No. of calls attended.	:	678
2. Amount collected by Hearse.	:	Rs. 20890/-
3. Total free calls attended.	:	19
<b>(17) Social Services :</b>		
1. Free Spects.	:	170
2. Dark glasses supplied on deposit basis from voluntary Donor.	:	24
3. Supplied appliances cases (Ortho)	:	57
4. Medical aid to the patient.	:	18
5. Supplied spects (free) to the patients.	:	170
6. Babies handed over to beggar home for destitute children.	:	1
7. Non Scheduled drugs from voluntary donor.	:	644
8. Compelling poisoning cases.	:	
9. Guidance given to patient.	:	10
<b>(18) Pathology Department :</b>		
1. Clinical pathology Investigation including serology.	:	42985
2. Bio-chemical Investigations.	:	41013
3. Blood grouping and cross matching cases.	:	5631
<b>(19) Anti-Rabic Treatment :</b>		
1. Total No. of patients treated.	:	24547

(20) School Clinics :		
1. Total No. of cases treated during the year 1986.	:	8087
(21) Psychiatric Department :		
1. Total No. of cases treated.	:	2544
(22) Dental Department :		
1. Total no. of cases treated.	:	4271
(23) Anaesthesia Department :		
1. Total no. of cases treated.	:	13933
(24) Audiology Deptt. :		
1. Total no. of cases treated.	:	781
(25) Poor Box Fund. :		
1. The collection in the boxes of poor box fund during the period from 1-1-1986 to 31-12-1986, including donation for E. C. G. and X-Ray plates.	:	Rs. 432364.65
2. Purchase of non scheduled drugs and orthopaedic appliances.	:	Rs. 19790.90
3. Balance	:	Rs. 412573.75
(26) Certificates :		
1. Total No. of Medical Certificate of defferent types issued to patients.	:	3349
(27) Dispensary :		
1. Total No. of In-patients attended.	:	16012
2. Out patients.	:	100841
(28) Family Welfare Centre :		
A family planning centre is run for the benefit of patients attending the hospital.		
1. Vasectomy operations performed	:	28
2. Sterilization operations performed.	:	320
3. Coper T. Inserted.	:	205
4. Total No. of oral pills given to patients.	:	142
5. Total No. of condom given, to patients.	:	18660
6. M. T. P.	:	193
(29) Special facilities for Municipal Employees :		
Seperate counters have been kept reserved at the Registration deptt., Dispensary for the Municipal staff.	:	
(30) Library :		
1. Total No. of new books purchased.	:	6
2. Total Books.	:	336
(31) Interns :		
Graduates from L. T. M. G. Hospital are allowed to undergo internship training at this hospital.	:	230
(32) Immunization Deptt. :		
1. Total cases treated.	:	9731
(33) Leprosy Clinics :		
1. Total cases treated.	:	146
(34) T. B. Clinics :		
1. Total cases treated.	:	720

## APPENDIX—I

Total No. of patients treated departmentwise at O. P. D. including remaining as on 31/12/1986.

Sr. No.	Name of the Deptt.	Patients treated at O. P. D. Deptt.	Patients treated at I. P. D. Deptt.
1.	Medical	66079	3849
2.	Surgical	47285	3627
3.	E. N. T.	11327	781
4.	Ophthalmic	9900	495
5.	Skin & V. D.	14198	1
6.	Paediatric.	28118	2520
7.	Gyn. & Obst.	18139	3127
8.	Orthopaedics.	18404	1377
9.	Dental.	6196	—
10.	Psychiatric.	2374	—
11.	Casualty Deptt.	16501	—
Total.		258521	15777

Sr. No.	Designation	Name of the Officer.	Qualification	Period from to.	Remarks if any.
1.	2.	3.	4.	5.	6.
1.	Medical Supdt. & Head of Gyn & Obst Unit. I.	Dr. (Smt.) S. K. Saraf.	M. D. D. G. O. D. P. P.	—	—
2.	Hon. Paediatrician.	Dr. N. N. Desai.	M. R. C. P. D. C. H. (Lond.).	—	—
3.	Hon. Surgeon.	Dr. D. V. Bhagat.	M. S. (Bombay).	—	—
4.	Hon. Physician.	Dr. V. Y. Chavan.	M. D. F. C. P. S.	—	—
5.	Hon. Asstt. Paed.	Dr. (Smt.) Shamini Bhatt.	M. D. D. I. C. (Bom.).	—	—
6.	Hon. Asstt. Surg.	Dr. A. R. Nerkar.	M. S. (BOM), M. R. S. H. (London).	—	—
7.	Hon. Asstt. Anaesthetist.	Dr. M. R. Kamdar.	M. D.	—	—
8.	Hon. Asstt. Obstr. & Gyn. Unit. II.	Dr. (Smt.) Lata M. Dandekar.	M. D.-D. G. O. D. F. P.	—	—
9.	Hon. Asstt. Surgeon E. N. T.	Dr. K. P. Morwani.	M. S. D. O. R. L.	—	—
10.	Hon. Asstt. Surgeon Ortho.	Dr. A. N. Parelkar	M. S. (Ortho.)	—	—
11.	Hon. Asstt. Dermatology.	Dr. M. B. Kukreja.	M. D. D. V. & D.	—	—
12.	Hon. Asstt. Ophth.	Dr. N. S. Athnikar.	M. S. D. O. M. S.	—	—
13.	Hon. Asstt. Radiologist.	Dr. V. V. Chedda.	M. D. (Radiology).	—	—
14.	Hon. Asstt. Pay.	Dr. K. S. Ayyar.	M. D. (Psychiatry).	—	—
15.	Part time Dentist.	Dr. Smt. S. S. Deodhar.	B. D. S. (Bom.) Dentist.	—	—
16.	Hon. Asstt. Pathology.	Dr. Smt. S. S. Avsare.	M. D. Pathology D. P. B.	—	—



**APPENDIX — II****Distribution of Beds.**

Sr. No.	Department	Male	Female	Children	Total
1.	Medical	30	18	...	48
2.	Surgical	35	17	...	52
3.	Gyn. & Obst.	...	75	...	75
4.	Ortho.	10	25	...	35
5.	E. N. T.	15	10	...	25
6.	Ophthalmic	15	10	...	25
7.	Paediatrics	...	...	35	35
8.	Casualty	...	...	...	5
9.	Total	...	...	...	300

**SHORT NOTE :—**

The late Shri Harilal Bhagawati donated a piece of land to the Municipal Corporation in the year 1962 for construction of the hospital so as to provide Medical relief facilities to the people staying in the Northern end of the city. Foundation stone was laid by Shri Marotrao Kannamwar the late chief Minister of Maharashtra on 1st September 1965 and the hospital was inaugurated by Shri Morarji Desai, the then Deputy Prime Minister of India on 4th February 1968. Originally the hospital started with 50 beds with only two wards, one for females and another for males. There was a unit of two operation Theatres and laboratory for routine pathological examinations. In the year 1971 paediatrics ward with 30 beds was added and the bed strength of the existing wards was increased by 10 each making the total bed strength to 100. In the year 1975 expansion activities started at the hospital and all specialised departments such as Gynec., and Obstetrics, E. N. T. Ortho. Ophthalmic and Skin and V. D. Radiology Pathology Anti Rabic-Immunization Audiology and speech Therapy, Poor Box charity fund, Dispensary, Family planning centre special facilities to Municipal Employees Laboratory, Internship for post Graduate, etc., were gradually raising the total bed strength to 300. The No. of operation Theatres was also increased to 7. We have now 2 of operations Theatres. Two shils have been air-conditioned.

The Blood Bank at the hospital was put into commission in August 1977. It is working round the clock on receipt of donation form the Lions Club of Borivli (W).

It has been named after Shri Keshavlal Jethuchand Bhonsali lion Blood Bank on 24 June 1979.

The hospital had no casualty Department and cases of accidents etc., were therefore, directed to Dr. R. N. Cooper Hospital. The casualty Department at the hospital was put into commission from 25th May 1978.

Part time Dental Clinics started at this hospital from March 1978 School Clinics started from 3rd March 1980 Psychiatrics department from 8th September 1980.

The following Departments and services exist at the hospital.

Department.	Bed strength
1) Medical.	48
2) Surgical.	52
3) Orthopaedics.	35
4) E. N. T.	25
5) Ophthalmic.	25
6) Gynaec & Obst.	75
7) Paediatrics.	35
8) Casualty.	5
<b>Total</b>	<b>300</b>
9) Skin & V. D.	...
10) E. C. G. Department.	...
11) Radiology Department.	...
12) Pathology Department.	...
13) Blood Bank (Round-the clock).	...
14) Occupational Therapy and physio Therapy (Part-time).	...
15) Dental clinics (Part-time).	...
16) Medical Record department.	...
17) Social Service Department.	...
18) Family Welfare Centre.	...
19) Immunization Centre.	...
20) Mobile Dispensary.	...
21) Ambulance service & Hearse service (Round the clock).	...
22) School clinics.	...
23) Psychiatric Department.	...
24) Audiology and speech Therapy Department.	...
25) Poor Box Charity Fund.	...
26) Library Department.	...
27) Leprosy Clinic.	...
28) T. B. Clinic.	...
29) Nursing Training School.	...

This hospital has the facilities of supply of liquid Petroleum Gas through pipes to kitchen and Ward pantries for which a Gas tank with 10 Metric tonnes capacity has been installed in the compound of the hospital, the facility of centralised supply of medical gases and suction systems has been installed and started function.

Nurses Training school is started with 20 student nurses at this hospital in the 1981 and necessary construction have been completed for classroom, laboratories with furniture facilities. There are three buildings constructing 40 block for residential quarters in the hospital, which accommodated essential staff.

Mortuary department at this hospital was put into commission from 6th May 1983 major repairs of this hospital was started from 5th May 1984. Leprosy clinic was put into commission from 23rd July 1985.

Dr. (Smt.) S. K. Saraf.  
 Medical Superintendent,  
 Shri H.B.M.G. Hospital,  
 Borivli, Bombay — 92.

## CITY ENGINEER'S DEPARTMENT

Statement showing the names and qualifications of the Head of the Department and Heads of Branches of Engineering Department for the year, 1986-87.

### HEAD OF THE DEPARTMENT

(A) **City Engineer**

Shri P. M. Kale  
 B. E. (Civil)  
 from 1-4-1986 to 20-5-1986.  
 Shri Sadanand Anant Rege  
 B. E. (Civil) M. E. (Structure)  
 from 21-5-1986 to 31-3-1987.

(B) **Head of the Branches**

- Dy. C. E. (P & D)
- 1 Shri S. A. Rege  
 from 1-4-1986 to 20-5-1986
  - 2 Shri Kooknoor S. Y.  
 B. E. (Civil)  
 from 21-5-1986 to 31-1-1987  
 Shri B. N. Poto worked in place of Shri S. Y. Kooknoor during leave period.  
 from 8-9-1986 to 11-10-1986.  
 Shri U. G. Kamat worked in place of Shri S. Y. Kooknoor during leave period  
 from 17-11-1986 to 30-11-1986.  
 Shri Kooknoor retired from 1-2-1987.
  - 3 Shri Bhaskar Shantaram Upasham B. E. (Civil)  
 from 1-12-1986 to 31-3-1987.

### ENVIRONMENTAL SANITATION & PROJECT

(2) **Dy. C. E. (Civil)**

- 1 Shri D. J. Vyas  
 B. E. (Civil) M. E. (Civil) Env. Engg.)  
 from 1-4-1986 to 30-4-1986  
 transferred as Dy. C. E. (Prod.) from 1-5-1986.
- 2 Shri V. R. Damle  
 B. E. (Civil) M. E. (D. H.)  
 Incharge from 1-5-1986 to 31-5-1986.
- 3 Shri B. R. Parhe  
 B. E. (Civil)  
 from 1-6-1986 to 30-11-1986 on leave from 12-6-1986 to 30-11-1986. Superannuated with effect from 1-12-1986.
- 4 Shri V. R. Damle  
 Incharge from 12-6-1986 to 22-10-1986 on leave from 23-10-1986 to 5-11-1986.  
 Shri M. B. Sohani  
 B. E. (Civil) M. E. (P.H.)  
 from 9-11-1986 to 31-3-1987.

(3) **DY. CITY ENGINEER (CITY)**

- 1 Shri B. S. Upasham  
B. E. (Civil)  
from 1-4-1986 to 30-11-1986
- 2 Shri A. D. Mandlik  
Incharge from 1-12-1986 to 18-1-1987.
- 3 Shri A. N. Kale  
B. E. (Civil)  
from 19-1-1987 to 31-3-1987.

(4) **Dy. City Engineer (W. S.)**

- 1 Shri M. Y. Subnis  
B. E. (Civil)  
1-4-1986 to 27-7-1986.
- 2 Shri J. G. Lele  
B. E. (Civil)  
28-7-1986 to 31-3-1987.

(5) **Dy. City Engineer (E. S.)**

- 1 Shri B. R. Parhe  
B. E. (Civil)  
from 1-4-1986 to 11-6-1986.  
B. E. (Civil)  
from 12-6-1986 to 17-11-1986  
E. L. from 1-8-1986 to 13-8-1986 During leave period Shri B. S. Upasham was looking after the work of Shri J. G. Kamat.
- 3 Shri D. S. Fadale  
B. E. (Civil)  
from 18-11-1986 to 31-3-1987.

**HIGH LIGHTS**I. **A) EXPENDITURE**

Expenditure incurred	(Rs. in crores)
1. On execution of loan works	6.85
2. On execution of Revenue works	7.61
3. On establishment	10.80
4. On other heads :	
a) From Loan Works Budget	00.55
b) From Revenue Budget	3.35
B. Revenue Earned	3.86

II. **ACHIEVEMENTS**1. **Building Construction Branch :**

	Completed		In progress	
	Bldg.	T/s	Bldg.	T/s
a) Housing Tenements	--	2	--	11
b) School Buildings	2	--	6	--
c) Hospitals, Maternity Home Dispensaries	11	--	7	--
d) Other blds. work	19	--	24	--

III.	<b>SLUM IMPROVEMENT BRANCH :</b>	
	i) Colonies covered for improvements	87
IV.	<b>CIVIL &amp; ENVIRONMENTAL SANITATION &amp; PROJECT :</b>	Nos.
	i) Air pollution complaints attended	499
	ii) No objection certificate issued	162
	iii) Proposal for renewal of Permit/licences, additional power, change of fuel etc.	465
	iv) Registration of electrical furnaces/ovens.	28
V.	<b>MAINTENANCE OF MUNICIPAL PROPERTIES :</b>	
	i) Buildings Nos.	1872
	ii) Works carried out through P.W.C.	2306

#### DY. CITY ENGINEER (PLANNING & DESIGN)

This branch is headed by Deputy City Engineer (Planning and Design). The main activities of this branch are as follow :

1. Preparation of layout and detailed plans for the Municipal Buildings, Gardens etc.
2. Invitation of tender and awarding contracts for tenders
  - a) Construction of Municipal Buildings for different services.
  - b) Structural and major repairs to old building
  - c) Specialised waterproofing to terraces and sanitary block of Municipal buildings.
  - d) Annual Ward Petty Work Contracts.
  - e) Annual propping work contracts.
  - f) Supply of drawing materials.

The details of works carried out during the year under report are as on page 11.

Administration Report for the period 1-4-1986 to 31-3-1987

Sr. No.	Particulars	General Bldg. Works		Housing		Slum Improvement		P.W.C.	Annual contract drawing material	Annual propping contracts	Providing furniture to Muni. proper-ties	Waterproofing treat-ment to Muni. Properties and construc-tion of compound walls.
		City	Sub & Extd. Subs.	City	Subs	City	Sub					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1.	Cloth tracing	-	-	-	-	-	-	-	-	-	-	-
2.	Paper tracing (General Drgs.)	-	-	-	-	-	-	-	437	-	-	-
3.	Blue Print copies	-	-	-	-	-	-	-	21959	-	-	-
4.	Block estimates	24	15	4	-	-	-	-	-	-	-	-
5.	Amount of block estimates (in crores)	7.46	3.19	0.85	-	-	-	-	-	-	-	-
6.	Detailed plans and estimates.	32	25	17	-	-	-	-	-	-	-	108
7.	Amount of detailed estimates (in crores)	6.77	3.31	2.85	-	-	-	-	-	-	2.24	2.90
8.	Contract awarded (in crores)	1.70	1.93	-	-	-	-	33	4	11	0.21	0.69
9.	Detailed estimates in hand	24	11	7	-	-	-	-	-	-	5	51
10.	Approximate cost of detailed estimates	3.82	2.73	1.23	-	-	-	-	-	-	0.50	1.19

## SLUMS

Since the establishment of the Slum Improvement Cell in 1969, the work of providing civic amenities in different hutment colonies has been continued under the programme of environment of slum. A grant assistance of Rs. 1,08,93.129 has been received during the year from B. H. & A. D. Board by way of reimbursement of the expenditure incurred on the basic amenities provided in various slums during the year.

The amenities beneficial to the population of about 1,02,000 were provided in slum colonies under the Slum Improvement Programme during the year. The Corporation have provided 1888 numbers of W.C./A.P. seats, 2,44,800 sq. m. passages and 77,131 R. M. Drain & 168 number of taps and street light (6 poles) in various slum.

### A — Works completed during the year.

(1) Slum Improvement works of basic amenities	40
(2) Slum Improvement work of additional amenities	Nil

### B — Works in progress during the year :

(1) Slum Improvement work of basic amenities —	45 Nos.
(2) Slum Improvement work of additional amenities —	1 No.
(3) Maternity Home at Malvani, Malad —	...
(4) Construction of Primary School at Charkop Kandivali under B. U. D. P. (I) —	1 No.

### 5. Rehabilitation of slums :

3,500 pitches at Dindoshi are prepared by providing basic civic amenities thereat for rehabilitation of hutment dwellers affected by project works. 10 Class rooms in ground floor structure are constructed.

### 6. Slum Upgradation Programme :

Seven Co-operative Societies were formed under the Slum Upgradation Programme consisting of 700 households.

## ENVIRONMENTAL SANITATION AND PROJECTS DEPARTMENT

The Department works under the overall supervision, guidance and control of the Dy. City Engineer (Civil), Environmental Sanitation and Projects.

The activities of various sections of this Department during the year are as follows : —

### 1. Enforcement Section

#### A — Air Pollution Control

This section is concerned with factory administration and licensing from air pollution angle.

During the year 1154 cases were dealt with as under : —

(i) Air Pollution Complaints.	499
(ii) No Objection Certificates.	162
(iii) Proposals for renewal of permits/Licences, additional power, change of fuel, etc.	465
(iv) Registration of Electrical Furnaces/ovens.	28

Total :	1154
---------	------

Air Pollution Abatement fees amounting to about Rs. 55,00,000/- were collected from various industries during the year.

## **B – Water Pollution Control,**

A No. of industries are discharging their industrial effluent into municipal drains and sewers, *nallas*, etc. without treatment, causing nuisance. Action against such industries is inevitable.

Accordingly, scrutiny of such industries has been started and requisite information is called, to assess the quantity and quality of effluent. Consent of the M. P. C. Board is also insisted upon.

The industries are directed to submit proposals for arrangement, for effluent treatment and disposal with reference to the consent characteristics. Such proposals are scrutinised and the industries are directed to provide Effluent Treatment Plants (ETP) wherever necessary.

The industries' proposals for renewal of permit/licence, additional power, additional water quota, etc. are considered on grounds of steps proposed to be taken by them for effluent treatment.

If the industry fails to comply with requirements in respect of effluent treatment and disposal, suitable action is initiated. With the effective persuasion and motivation of this Department many industries are coming forward to executive scheme for treatment and disposal of effluent.

During the year under report 12 N. O. Cs for construction of Effluent Treatment Plants (ETP) were issued by this Department. Besides, 2 N. O. Cs for commissioning of the plants constructed were issued.

Consequent to the Bhopal tragedy, the Govt. of Maharashtra had appointed an "Environmental Committee" known as "Garg Committee" after the name of its Chairman Dr. B. K. Garg, to investigate & suggest safety measures in various chemical and hazardous industries. Shri V. R. Damle, Executive Engineer in this deptt. was one of the members of this Committee.

## **2. Emission Inventory Group.**

(i) The work of compilation of a comprehensive emission inventory of all polluting sources is in progress.

Amongst the various available methods, the methods of "collecting data by sending questionnaires" was adopted. Industrial sector and mobile sources were given priority.

Based on the data collected, the industries have been categorised into 10 slabs according to their connected power load. Master Data Sheets incorporating general information of a factory were sent to factories having connected load over 200 H. P. and covered under slabs I to VII. Process data questionnaire asking further details like fuel consumption, production details, raw materials used and nature and extent of emissions, were also posted to these industries. Based on the information collected, further wardwise and activity-wise tabulations have been prepared. The factories have been classified into 29 groups according to their activities, for standardisation.

A Laboratory has been set up for analysis of emission samples collected with the help of stack sampling equipment.

Stack sampling at the 8 Industries viz. Jolly Board, Bombay Soaps, Golden Tobacco, Hindustan Lever, Gold-Spot, Burroughs Welcome, Verma Mukhurjee, were carried out. All the Ward Officers were informed to get the stack monitoring facilities prepared from the industries.

### **(ii) Shifting of Non-conforming Industries.**

Information from 484 non-conforming industries proposed to be shifted was collected from Wards and activity-wise lists have been prepared and forwarded to the State Govt. Further report from the Govt. is awaited.

### **(iii) Auto Exhaust Pollution.**

Auto Exhaust Analyser of 'Horiba' make, Japan, has been purchased to measure auto exhaust emissions of CO and HC.

This Group has also been authorised to check municipal Vehicles and vehicles belonging to Municipal Officers for pollution control and issue certificates about pollution under control. A fee of Rs. 12/- per vehicle, per test, is charged in respect of vehicles of Municipal officers whereas Municipal vehicles are tested free of charge.

**(iv) Noise Pollution.**

Two complaints of noise pollution were attended to during the year. Moreover noise survey due to the traffic at Mantralaya, High-Court, Hutatna Chowk, Mahatna Phule Market as suggested by the Assistant Commissioner of Police (Traffic) were conducted.

**(v) I. S. I. matters.**

I. S. I. meetings of Committees relating to air quality have been attended from time to time. Suggestions to amend the existing standards and formulation of new standards were also submitted for consideration of the I. S. I.

**3. Air Quality Monitoring & Research Laboratory.**

Ambient air quality monitoring for various criteria pollutants was carried out with the help of 22 air monitoring stations.

The air samples collected at these stations were analysed in the Laboratory. About 1,39,150 samples were analysed for particulate matter, SO<sub>2</sub>, NO<sub>2</sub>, NH<sub>3</sub>, Carcinogens, Heavy Metals, Water Solubles and particle size distribution.

The meteorological parameters like wind speed, wind direction, temperature and relative humidity have also been monitored.

Annexure -I furnishes the detailed statistical information in this respect.

In addition to routine monitoring, air quality at traffic junctions was monitored to assess the impact of auto exhaust on air quality at Maheshwari Udyan and Haji Ali. The health morbidity at these traffic junctions was also monitored to co-relate the health & air pollution. At that time, Blood samples were also analysed for Heavy Metals.

Further light Hydrocarbon analysis was carried out in ambient air at Khar Site. Methane samples were also collected from Dadar Purification Work to know the % of methane from anafil digester.

Various calls for air pollution episodes due to accidental releases of gases from industries were attended along with Fire Brigade personnel.

The major places of incidents were : -

- (i) Smell of Gas in Goregaon area.
- (ii) Dust nuisance at Goregaon (W), Bedrock Tyre Co.
- (iii) Ammonia leakage at Boots India, Sion.

**4. Civil Defence and Vigilance over Mech/Elect. works.****A - Civil Defence.****(i) Training to Volunteers.**

The activity of imparting training to Municipal Employees in Civil Defence Courses in liaison with the Director of Civil Defence of the State Govt. has been continued and during the year under report 223 employees underwent training.

**(ii) Revision of plans.**

(a) Operational and Survival plans for the emergency services for Civil Defence are being revised for the period ending 31-3-1987. The matter is being followed up with the concerned Departments.

(b) Nine Deptts. have submitted contingency/emergency plans for operation of essential services. The matters being followed up with other Deptts. to prepare these plans.



**B – Vigilance over Mech/Elect. Works.**

Technical audit in respect of 106 cases was carried out.

In all 128 electrical, mechanical and refrigeration works were inspected. The Rebate of Rs. 12,250/- and penalty of Rs. 8,400/- was recovered.

**C. Installation & Maintenance of Telephones in Municipal Head Office.**

Additional exchange of 30 + 300 lines was installed by M/s. Mahanagar Telephone Nigam Ltd. in Municipal Head Office. Old PBX Boards were disconnected. Shifting and maintenance of telephone extensions in Municipal Head Office was followed up with Mahanagar Telephone Nigam Ltd.

**5. Emergency Medical Care Project.****(Central Ambulance Service)**

A –As decided by the Administrator in the meeting held on 18th Sept. 1984, it was decided to decentralise the office of Central Ambulance Service. Accordingly, Transport Wing under Central Ambulance Service was handed over to the E.E.T. (Subs.) on 1-11-1985.

**B –Wireless Net-work.**

(i) Wireless Sets of W. S. S.D. and the M. C.'s Cars & on VIP Cars were maintained satisfactory during the year.

Wireless net works for Sewerage Department, is under development.

(ii) As approved by D.M.C. (S.E.) under No. DMC/SE/6592 of 10th Nov. 1986, steps were taken to hand over wireless section of C. A. S. to Hydraulic Engineer's Deptt.

The process of handing over has now been completed and the Wireless Section of former Central Ambulance Service has been amalgamated with Dy. H. E. (Maint)'s Office.

**6. Special Projects.****(i) Remodelling of Dhobi Ghat at Mahalaxmi.**

There has not been any progress in respect of this project during the year as Court Case is not yet decided.

**(ii) Rehabilitation of Potters at Dharavi, Kumbharwada.**

The project involves socio-economic problem and due to paucity of funds with the potters, the scheme for development of the area could not progress during the year.

**(iii) Distribution of Natural Gas within Brihanmumbai Limits.**

The Study Group appointed by the State Govt. has not yet finalised its report and hence there has not been any progress under this project during the year.

**(iv) Task Force on Quarrying Operations in the City.**

Several meetings were held, of the Members of the 'Task Force' appointed for assessment of environmental impact due to quarrying operation. It is decided to collect and scrutinise the information such as identification of hills in Greater Bombay, classification of the hill i.e. quarrying zone and non-quarrying zone, quantity of rubble available from the quarrying hills etc. The above work is in progress.

### MAINTENANCE OF MUNICIPAL BUILDINGS

(i) Municipal Buildings : In the City and Suburbs at end of the year were 1986-87

(a) Housing : 28868 Nos. of tenements are in the City and 9023 Nos. of tenements are in the Suburbs.

(b) Other Bldgs. : 783 in the City and 1089 in the Subs.

The works of maintenance is classified under the major head – (1) Normal Repairs, (2) Special repairs and (3) New works.

Monsoon repairs are also included in Normal repairs. — Special repairs cover the works which are likely to increase the life of buildings and structures. New works cover the works of additions and alterations to the buildings as also those of providing additional amenities.

This year the repairs and maintenance works of the Municipal properties were carried out either departmentally or through petty works contractors.

The total expenditure incurred on the maintenance of Municipal properties was Rs. 813.46 lacs (City Rs. 450.17 lacs and Suburbs Rs. 363.29 lacs) out of this, an amount of Rs. 394.75 lacs was spent on normal maintenance. An amount of Rs. 418.73 lacs was spent on New and Special Repair Works. Works costing Rs. 739.06 lacs (City Rs. 427.07 lacs and Suburbs Rs. 311.98 lacs) were executed through the petty works contractors. Total No. of works carried out through the petty works contractors was 2306 and total No. of works carried out departmentally was 20599 and the expenditure incurred was Rs. 165.09 in lakhs and Rs. 739.06 in lakhs on departmental and P. W. C. works respectively.

#### Building Construction Branch.

The branch supervised the work of building construction after contracts are awarded by Planning and Design Department. A synopsis at the work done by this branch during the year is as under : —

Particular	Zone	Works completed		Works in progress.	
		Nos.	Actual cost (in lacs)	Nos.	Estimated cost (in lacs)
<b>A — Housing</b>					
(a) Works including pile foundation	City	1	8.28	—	—
	W. S.	—	—	—	32.29
	E. S.	—	—	—	—
(b) Structures	City	—	—	—	—
	W. S.	—	—	—	—
	E. S.	—	—	—	—
(c) Tenements	City	1	8.01	6	127.57
	W. S.	—	—	—	—
	E. S.	1	22.19	5	254.35
<b>B — BLDGS. Other than Housing</b>					
(a) Schools	City	—	—	1	2.20
	W. S.	2	110.20	4	337.77
	E. S.	—	—	1	27.52
(b) Markets	City	—	—	—	—
	W. S.	2	0.91	—	—
	E. S.	—	—	1	37.57
(c) Hospital and Maternity Homes.	City	6	18.14	6	879.57
	W. S.	3	50.21	1	68.00
	E. S.	2	81.70	—	—
(d) Other works.	City	9	112.92	8	129.21
	W. S.	7	323.03	7	1171.93
	E. S.	3	20.60	9	1255.69

## APPENDIX No. 1

Statement showing the works of building construction completed and those in progress.

A - Works completed.

Amount shown in Lacs.

Sr. No.	Name of the work.	Expenditure Rs.
<b>(a) Housing</b>		
<b>CITY</b>		
1.	Construction of Gymnasium and tenements on plot No. 1096, B. T. P. S. IV, Mahim.	8.01
		Total Rs. :
		8.01
<b>WESTERN SUBURBS</b>		
... NIL ...		
<b>EASTERN SUBURBS :</b>		
1.	Construction of 48 tenements at Tagore Nagar, Vikhroli (East) adjacent to Market plot ...	22.19
		Total Rs. :
		22.19
<b>(b) OTHER THAN HOUSING :</b>		
<b>CITY</b>		
1.	Additions and Alterations and repairs to O. P. D. Bldgs. at L. T. M. G. Hospital, Sion.	13.89
2.	Waterproofing treatment to the various Munl. Bldg., in K. E. M. Hospital.	1.03
3.	W. P. T. to Ward No. 9 and 10 at A. K. D. and K. E. M. Hospital.	1.89
4.	Providing W. P. T. to Sanitary blocks at R. M. O.'s Qrts. at K. E. M. Hospital.	0.88
5.	Providing W. P. T. to G. T. B. Hospital, Sewri.	0.45
6.	Repairs to Birla Krida Kendra.	8.11
7.	W. P. T. to various Munl. Bldg. at Arya Nagar 'D' Ward.	2.12
8.	W. P. T. to various Munl. Bldgs. in Chinchpokali.	1.95
9.	W. P. T. to 'B' Ward Office Building.	1.76
10.	W. P. T. to Muss Killedar Street, Byculla.	0.84
11.	W. P. T. to B. I. T. Chawls No. 1 to 6, at Dr. A. Road.	3.59
12.	W. P. T. B. I. T. Chawls No. 1 to 16 at Tadwadi.	0.25
13.	W. P. T. to terrace of B. P. T. Chawls No. 1 to 4 at K. K. Marg.	1.94
14.	Pile foundation for Fire Brigade Station at 'A' Ward.	8.28
15.	Construction of Superstructure of New Cement Godown, N. M. Joshi Marg, Byculla.	92.36
16.	Providing waterproofing treatment to Sanitary blocks at B. Y. L. Nair Hospital compound.	—
		Total Rs. :
		139.34

Sr. No.	Name of the work.	Expenditure Rs.
<b>WESTERN SUBURBS :</b>		
1.	Construction of compound wall and Security Chowkies at Municipal vacant land in H/K/P & R Wards.	73.30
2.	Construction of Malad Fire Brigade Station at Malvani, Malad (West).	187.47
3.	Development of Cemetery at Daulat Nagar, Borivli (East).	48.32
4.	Repairs work at Maternity Home and Dispensary at Kherwadi, Bandra (East).	9.04
5.	Pile foundation for Fire Brigade Station at Bandra (West).	10.56
6.	Additions and alterations to Munl. Gen. Hospital at Santacruz (West).	39.28
7.	Construction of School Bldg., at D. N. Nagar, Andheri (West).	88.62
8.	Providing W. P. Treatment to the terrace of Dinanath Natyagraha at Vile Parle (East).	0.43
9.	Providing W. P. T. to terraces of Municipal Staff Quarters at P/S Ward.	1.24
10.	Providing W. P. T. to terraces of various Hospital Buildings in P/S, P/N & R Ward.	1.90
11.	Providing W. P. T. to terraces of Municipal Bldg. in P/N, R Wards.	1.42
12.	Providing W. P. T. to terraces of existing various Munl. Colony Staff Qrts. in K/W Ward.	0.72
13.	Providing W. P. T. to terrace of Vallabh market at Vile Parle (West) in K/West.	0.48
15.	Additions & Alterations to Saraswati Baug School Bldg., (Jogeshwari) (Addl. work).	21.58
Total Rs. :		484.36

**EASTERN SUBURBS :**

1.	Proposed additional two floors over C. A. S. building at Mulund.	66.83
2.	Repairs to Siporex Blocks slabs and W. P. T. to the terraces slab at 600 T/S at Deonar.	20.60
3.	Proposed construction of Coroner's Court at Rajawadi Hospital Compound at Ghatkopar (East).	14.87
4.	W. P. T. to the terrace at R. R. T. Road School Building, Mulund (West) 'T' Ward. Less then	5.00
5.	Providing W. P. T. to the terrace of dispensary at 'L' Ward. Less then	5.00
	i) Bail Bazar Dispensary.	
	ii) Safed Pool Dispensary.	
	iii) Village Asalpha Dispensary.	
Total Rs. :		112.30

**'B' WORK IN PROGRESS :***Amount sown in lacs.*

Sr. No.	Name of the work.	Estimated Cost.	Expenditure booked upto 31-3-1987.
<b>(a) Housing CITY</b>			
1.	Construction of Dispensary and staff quarters at Banganga.	30.64	20.09
2.	Construction of tenements at H. S. Chawl Prabhadevi.	17.18	11.02
3.	Proposed structural repairs to Bldg., No. 3, 168 tenement as, M. L. Camp, Dharavi.	5.14	3.14
4.	Repairs to Municipal quarters at G/North Ward Office.	5.03	3.35
5.	Proposed 72 tenements on Hag. Reservation near C. S. M. Kridengan behind Garamkhada Market, Lalbaug F/South Ward.	38.45	6.93
6.	Construction of 48 T/S at M. P. Mill Compound, Tardeo.	31.13	11.17
Total :		127.57	55.70

Amount shown in lacs.

Sr. No.	Name of the work	Estimated Cost.	Expenditure booked upto 31-3-1987.
<b>WESTERN SUBURBS :</b>			
1.	Construction of 48 T/S at Dayaldas Road, Vile Parle (East).	32.29	9.74
	Total :	<u>32.29</u>	<u>9.74</u>
<b>EASTERN SUBURBS :</b>			
1.	Construction of multi-storeyed building in compound of 664 T/S at Park Site Colony, Vikhroli (W).	43.92	NIL
2.	Completing incomplete work of 180 T/S (out of 600 T/S) including repairs and construction of roads and construction of roads, S. W. drains, drainage, compound wall for entire layout of 600 tenements at Deonar.	72.63	23.19
3.	Completing the incomplete work including repairs to 216 T/S (part of 600 T/S) at Deonar including electrification etc.	60.85	21.88
4.	Completing incomplete work including repairs and electrification etc., at 600 T/S at Deonar (204 T/S out of 600 T/S).	76.95	25.98
5.	Providing W.P.T. to the terraces of conservancy staff quarters at L. B. S. Marg, Ghatkopar (West).	Less than 5 lacs	5.00
	Total :	<u>254.35</u>	<u>76.05</u>
<b>b) OTHER THAN HOUSING :</b>			
<b>CITY :</b>			
1.	Construction of Elect. Crematorium at Shivaji Park Cemetery.	24.50	7.31
2.	Repairs to Muni. Maternity Home, Mahim.	9.85	4.04
3.	W. P. T. to B. I. T. Chawls at Chinchbunder.	6.94	—
4.	Adds. & altrs. in the Operation Theatre in C. V. T. C. Bldg., in K. E. M. Hospital.	10.09	2.23
5.	Proposed various works in V. J. B. Udyan, Byculla.	43.14	9.11
6.	Providing guniting treatment to R. C. C. work and W. P. T. to various Muni. Bldg., in Sahakar Nagar, Wadala.	9.38	1.68
7.	W. P. T. to School Bldg. at Wadia Street. Tardeo.	2.20	1.21
8.	Corrective measures to be taken at Bhandarwada Hill Reservoir.	7.14	2.90
9.	Proposed manifold room and Ambulance Garage at L. T. M. G. Hospital, Sion.	2.83	0.50
10.	Constn. of Students' Hostel at L. T. M. G. College, Sion.	58.51	—
11.	Prop. renovation of autopsy room at K. E. M. Hospital.	2.80	1.27
12.	pile foundation for proposed re-construction of A and B blocks on plot reserved for conservancy staff at S. G. Marg.	6.03	—
13.	Prop. repairs to part portion of chawl and re-construction of W. C. blocks at 42, Jail Road, 'B' Ward.	12.47	—
14.	Constn. of mustering chokies urinal block refuse at 'A' to 'G' wards in City.	19.61	—
15.	Constn. of multi-storeyed bldg. at Nair Hospital.	795.49	735.85
	Total :	<u>1010.98</u>	<u>766.10</u>

Sr. No.	Name of the work	Estimated Cost.	Expenditure booked upto 31-3-1987.
<b>WESTERN SUBURBS :</b>			
1.	Constn. of compound wall at various Muni. plot in K/West.	85.54	25.04
2.	Constn. of compound wall at various Muni. plot in K/East.	122.93	69.03
3.	Proposed sports Complex at the junction of J. P. Rpad & Veera Desai Road, Andheri (West).	932.00	677.83
4.	Major repairs to Bhagwati Hospital at Borivli (West).	68.00	45.64
5.	Constn. of School bldg., at Khotwadi, Santacruz (West).	140.77	57.81
6.	Constn. of School bldg. at M. W. Desai Garden, Malvani Malad (West).	143.83	15.00
7.	repairs to S. V. P. Swimming Pool at Kandivli (West).	12.49	0.85
8.	Constn. of Muslim Cemetery at Malwani Malad (West).	9.19	1.91
9.	Constn. of Christian Cemetery near transit camp, Oshivara (West).	8.42	NIL
10.	Repairs to primary school Bldg., at Poisar, Kandivali (West).	18.19	1.98
11.	Major repairs to Muni. Primary School at Kher Nagar, Bandra (East).	34.96	NIL
12.	Proposed construction of remaining work of Transport garage at Old Slaughter House, Bandra.	13.46	NIL
	Total :	<u>1589.78</u>	<u>895.09</u>

**EASTERN SUBURBS :**

1.	Providing compound wall and amenities for cemetery at Ward No. 134, Tagore Nagar, Vikhroli.	48.81	NIL
2.	Development at Garden at M. P. Road Mulund (East).	63.09	9.23
3.	Constn. of Swimming Pool at Chembur.	194.29	22.93
4.	Constn. of Sports Complex at Sonar Bagla, Mulund (West). Rendering accoustical treatment to the Auditorium of Sports Complex.	852.10	54.01
5.	Proposed Market at Tagore Nagar, Vikhroli (East).	37.57	NIL
6.	Constn. of retaining wall and Lal Dongar Hillock, Chembur. Less than	5.00	—
7.	Proposed construction of ground floor of school building at Mithagar Road, Mulund (East).	27.52	NIL
8.	Providing W. P. T. to the basement and terrace of 'N' Ward office Bldg., (Old). Less than	5.00	—
9.	Constn. of stage-cum-welfare centre at Chembur.	40.10	NIL
10.	Proposed construction of Buddha Temple at Chembur Labour Camp. (work terminated). Less than	5.00	—
11.	Construction of centralised O. H. tank and suction tank for 396-300 tenements at Sambhaji Nagar, Deonar. (work terminated).	57.30	NIL
		<u>1335.78</u>	<u>86.17</u>

## ANNEXURE - I

## AIR QUALITY MONITORING PROGRAMME DURING THE YEAR 1986-87.

Sr. No.	Monitoring Station code.	Locational Address.	Date of installation.	No. of sampling days in the year.	No. of sample s collected & analysed for						Total
					SO 2	NO 2	NH 3	SPM	SPM para-meter	Meteo- rologi- cal para-meter.	
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
1.	R1 .. Colaba.	Transport House, BEST, Shahid Bhagatsingh Road, Colaba, Bombay-400 039.	11.6.80	49	282	566	283	67	173	3433	4804
2.	R2.. Babula Tank.	Imamwada Municipal Secondary School, Imamwada Road, Bombay - 400 009.	14.4.78	67	385	770	384	98	420	3232	5289
3.	R3... Worli Naka.	Worli Naka Municipal School, Dr. A. B. Road Worli, Bom,bay-18.	12.1.85	69	408	818	409	105	273	4777	6790
4.	R4 .. Dadar.	Woollen Mill Lane, Municipal Secondary School, Dadar (West) Bombay- 400 016.	15.4.79	52	341	622	311	86	200	5115	6675
5.	R5..Chembur Naka.	Municipal U. P. School Chembur Naka, Ghatkopar, Mahul Road, Bombay- 400 074.	2.9.78	66	383	767	383	99	247	3266	5145
6.	R6 .. Sakinaka.	Municipal U. P. School, Marol, Sakinaka, Bombay - 400 072.	17.4.79	65	367	743	367	87	235	3732	5531
7.	R7 .. Ghatkopar.	Primary Municipal School, No. 2, Ghatkopar (East), Bombay 400 075.	1.9.78	60	349	627	349	95	167	2686	4273
8.	R8 .. Mulund.	Municipal Sec. School, P. Kheraj Road, Mulund, Bombay - 400 080.	4.6.80	66	377	755	377	92	221	6548	8370
9.	R9 .. Borivli.	Sodawala Municipal School, Sodawala Lane, Borivli, Bombay- 400 092.	22.8.78	35	199	385	192	53	135	3154	4118
10.	R10 ... Goregaon.	Municipal U. P. School, Unnat Nagar, Goregaon (W), Bombay- 62.	15.6.80	34	186	372	187	51	144	1580	2490
11.	R11 ... Andheri.	Municipal Primary School, Nityanand Marg Koldongari, Andheri, (E), Bombay-400 068.	19.12.86	10	58	116	57	28	17	...	276
12.	R12 ... Bhandup	Municipal Primary School, Ramji Shinde Marg, Bhandup, Bombay -400 078.	29.12.86	12	71	142	71	34	32	...	350
13.	H1 ... Tilak Nagar.	Munl. Free Dispensary, Tilak Nagar, Chembur, Bombay - 79.	17.5.82	72	427	855	428	107	246	3528	5591

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
14.	H2 ... Anik Nagar.	Anik Nagar Municipal, School, Chembur, Bombay - 74.	10.5.82	53	304	601	305	71	190	5062	6533
15.	H3 ... Khar.	Municipal Dispensary Swami Vivekanand Road, Khar, (W), Bombay-52.	4.1.78	73	428	857	429	107	312	3578	5711
16.	H4 ... Santacruz.	Gazadar Park Muni. School, Santacruz (W), Bombay -400 054.	12.1.78	27	137	276	138	44	114	1692	2401
17.	H5 ... Parel.	Nare Park Muni. School, No. 1, Parel, Bombay -12.	10.5.82	67	387	773	383	101	279	4588	6511
18.	B1 ... Mahul.	Staff Training Centre, Bharat Refineries, Mahul, Bombay - 74.	4.6.80	13	77	154	77	31	79	80	498
19.	B2 ... Mankhurd.	Municipal Primary School, Mankhurd, Bombay -94.	5.10.80	68	390	789	396	103	244	5413	7335
0820.B3 ...	Sewree.	Lal Bahadur Shastri, Nautical College, N & R, Road, Bombay - 33.	7.5.80	66	381	763	380	98	247	5807	7676
21.	F1 ... Maravali.	Municipal School, Ghatkopar, Mahul Marg, Bombay -74.	2.5.80	193	1072	2147	1072	294	580	17716	22881
22.	F2 ... Sion.	Dnyan Vikas Municipal Night Sr. College, Sion, Muni. Secondary School, Sion (E), Bombay -22.	22.1.85	161	899	1782	966	222	465	15568	19902

Sd/-  
Dy. C. E. (P & D)



Statement showing the information of the Head of the Department of solid Waste Management.

Sr. No.	Designation	Name of the Officer.	Qualification	Period of leave taken in the year 1986-87	Remarks if any
1.	2.	3.	4.	5.	6.
1.	Dy. City Engineer (Solid Waste Management).	Shri C. D. Kotnis (1-4-86 to 22-7-1986).	B. E. (Mech.)	Nil	Transferred as Dy. C. E. (M & E Common Services from 23-7-1986.
2.	Dy. City Engineer (Solid Waste Management).	Shri S. Shankarappa 23-7-1986 to 31-3-1987).	B. E. (Mech & Elect.).	Nil	---

Administration Report of Solid Waste Management Department for the year 1986-87 (City, Subs. and Ext. Subs.).

The Department of Solid Waste Management including the Transport Branches works under the direction and control of the Dy. City Engineer, (Solid Waste Management). He is assisted in the work by Head Supervisor (Solid Waste Management), Dy. Head Supervisors, Assistant to the Supervisors and by two Executive Engineers in the Transport Wing. The Transport Wing provides vehicles for transportation of refuse and Cess-pool contents from unsewered area.

**Solid Waste Management :** The service consists of Collection, removal and disposal of garbage and sweepings from the public roads, streets, footpaths and by lanes and maintenance of dumping grounds. The work of removal of Night Soil and cess-pool from unsewered areas, maintenance of public Sanitary Conveniences is also undertaken.

**Collection of Refuse, Debris etc. :** All the public Roads, foot-paths and house gullies are cleaned daily. The quantity of refuse debris and other waste material collected in street cleansing operation as well as from residential premises was approximately 9.47 (City) and 5.01 (Sub. & Ext. Subs.) lakhs tonnes, average per day being 2594.64 City and 1373.05 (Subs. & Ext. Subs.) tonnes. During the year 150 City and 928 Subs. & Ext. Subs. hutment colonies situated on Government, Maharashtra Housing Board, Private and B. M. C.'s land were attended to and 11930 City and 89851 Subs. & Ext. Subs. tonnes of refuse are removed from the said colonies.

**Transportation of refuse :** Transportation of refuse as collected above, was regularly carried out by engaging mechanical traction. Total vehicles shift employed for removal of refuse during the year are as under :—

Sr. No.	Area	Municipal vehicle	Vehicles shift on contract	Ratio.
1.	City	37357	1,19,528	23.81
2.	Sub. & Ext. Sub.	27816	69,226	28.66

For transportation of refuse 18 compacting vehicles which carry 1½ times more load than that carried by conventional vehicles were used.

**Disposal of Refuse :** The final disposal of refuse was carried out by reclaiming low lying land at Deonar. Total refuse dumped at Deonar from City Wards was approximately 7,33,230 tonnes. The final disposal of refuse was done by reclaiming Low lying land at Chincholi, Gorai, Easic Nagar and Chandan & Marve Road., Malad in the Western Suburbs and Deonar and Mulund in the Eastern Suburbs. Total disposal of waste in the Western Suburbs and Eastern Suburbs dumping grounds was 13,38,779 tonnes.

**Public & Private Latrines and Urinals :** During the year, 1107 public sanitary conveniences with 7947 W. C. Seats and 1006 Urinals Stalls were maintained. There exist 89 separate urinal blocks with 385 urinal stalls in the City area and 146 Urinal blocks with 636 urinal stalls in the Subs. and Ext. Subs.

**Prevention of Nuisance :** 2055 cases in the City and 842 cases in Subs. and Ext. Subs. were lodged by 90 Nuisance Detectors for offences such as urinating, defecating and throwing refuse on public roads under Section 115 of the Bombay police Act, and Rs. 1,09,400 were recovered as fine. During the year 1111 cases in the City and 1698 cases in Sub. & Ext., Subs. were lodged under Section 372(E) of the Bombay Municipal Corporation Act, & Rs. 47,870 and Rs. 19,240 were levied as fine respectively in the City and Subs.

**Removal and Disposal of Dead Animals :** Bombay Khadi & Village Industries Association are the contractors for the work of removal and disposal of dead animals from areas within Greater Bombay limits. About 87139 dead animals were removed during the year.

**Conservancy Services :** Special Conservancy Services were rendered to Circuses, Exhibitions, Big concerns, Industrial Establishments etc., on payment of schedule charges: An amount of Rs. 13,148 was received for rendering conservancy services.

**Conservancy staff Quarters :** 159 Labour Chawls, 9 Transit Camps in the City and 86 Chawls in Subs. with 4169 and 1905 tenements respectively were looked after and maintained for housing Conservancy staff. Out of 9678 employees in the City Wards and 7501 employees in the Subs. and Ext. Subs. wards about 43.07% and 25.40% respectively have so been far provided with accomodation and the rest of the employees are paid House Rent Allowance.

**Labour Welfare :** 31 Welfare Centres are working for the benefit of Conservancy employees at different places in the City and Subs.

**Co-operative Societies for Labourers :** There are 12 co-operative credit societies with an aggregate membership of 4864 members for the benefit of the labourers of S. W. M. Deptt. The share capital subscribed was Rs. 30,69,272. The working of the co-operative credit socities is satisfactory.

**Expenditure on Conservancy Services for the year 1986-87 ;** The total expenditure for Div.-I, II & III incurred on Collection, Removal and disposal of garbage, Cess-pool and Maintenance of cleanliness of Public Sanitary Conveniences etc., during the year was Rs. 37,41,14,251.83 out of which Rs. 33,66,47,927.91 was for clearance, transportation and disposal of refuse of 14.48 lakh tonnes. The expenditure on Halalkhore Services in the City and Suburbs was Rs. 1,34,35,466.88 and Rs. 2,40,28,857.04 respectively.

The cost of removal per tonne of garbage comes to Rs. 232.00 and per capita Rs. 38.

**Special Features :—**

This Department has received financial assistance from International Development Association (I. D. A.) under the Bombay Urban Development Project —I (BUDP-I). The following works have been undertaken under this project.

1. Mechanical Refuse Transfer Station at Mahalaxmi.
2. Sites & Services Programme,
3. Slum Upgradation Programme.

The present status of the Works is as under :—

1. The design of the Mechanical Refuse Transfer Station of 1000 tonnes per day capacity at Mahalaxmi is in progress. The actual civil works and erection of plant and machinery will commence after finalisation of tender documents and invitation and award of contract.

2. Purchase of Refuse Vehicles, Earth Equipments and construction of two garages, mustering chowkies etc., is included in the Sites and Services programme and the Slum Upgradation Programme. The above work is in progress and the tenders will be invited within three months.

Sd/-  
Chief Engineer,  
Solid Waste Management.

So far as the Solid Waste Management Department, Division—I, II, III is concerned the Statistical data regarding Revenue and Expenditure for the 1986-87 for the City, Western Suburbs and Eastern Suburbs is given below : -

	Division — I	Division — II	Division — III	Total
	Rs.	Rs.	Rs.	Rs.
I Revenue	63,58,598.52	12,69,524.00	6,21,829.53	82,49,952.05
II Expenditure on Establishment.	16,73,34,493.21	7,34,81,930.00	4,01,96,952.99	28,10,13,376.20
III Expenditure from Revenue Budget.	6,26,42,429.00	1,67,59,110.00	1,10,79,482.00	9,04,81,021.00
IV Expenditure from Loan Works Budget.	1,72,743.52	7,74,310.00	16,72,801.11	26,19,854.63
Grand Total of Expenditure II, III, IV.	23,01,49,665.73	9,10,15,350.00	5,29,49,236.10	37,41,14,251.83

### मृहन्मुंयई महानगरपालिका

घन कचरा व्यवस्थापन खात्याचे प्रमुखाची माहिती दर्शविणारा तक्ता.

अ. क्र.	हुदा	अधिकार्याचे नांव	शैक्षणिक पात्रता	रजेचा कालावधी	अभिप्राय
१.	नगर उप-अभियंता (घन कचरा व्यवस्थापन)	श्री. चं. द. कोटणीस (१-४-१९८६ ते २३-७-१९८६)	अभियांत्रिकी पदवीधर (यांत्रिकी)	नाही	
२.	नगर उप-अभियंता (घन कचरा व्यवस्थापन)	श्री. एस. शंकरप्पा (२३-७-१९८७ ते ३१-३-१९८७)	अभियांत्रिकी पदवीधर (यांत्रिकी/विद्युत)	नाही	--

घन कचरा व्यवस्थापन खात्याचा १९८६-८७ चा प्रशासन अहवाल (शहरे, उपनगरें व विस्तारीत उपनगरें)

परिवहन शाखेसह घन कचरा व्यवस्थापन खाते, नगर उप-अभियंता (घन कचरा व्यवस्थापन) यांच्या निदर्शनाखाली व अधिपत्याखाली कार्य करते. ह्या कामात त्यांना मुख्य पर्यवेक्षक (घन कचरा व्यवस्थापन), उपमुख्य पर्यवेक्षक, सहाय्यक मुख्य पर्यवेक्षक व परिवहन खात्यातील दोन कार्यकारी अभियंता मदत करतात. कचरा वाहून नेण्यासाठी परिवहन खात्याकडून गाड्या पुरविल्या जातात.

**घन कचरा व्यवस्थापन :-** ह्या सेवेमध्ये सार्वजनिक रस्ते, गल्ल्या पदपथ आणि लहान लहान गल्ल्या यामधून होणारा कचरा गोळा करणे, वाहून नेणे आणि त्याची विल्हेवाट लावणे तसेच कचरा पट्टीचे परिरक्षण करणे ह्या गोष्टींचा समावेश होतो. गटारे नसलेल्या क्षेत्रातील घन मैला व पाणी वाहून नेणे व सार्वजनिक आरोग्य सुविधा गृहांचे परिरक्षण करण्याचे काम सुध्दा ह्या खात्यामार्फत केले जाते.

**कचरा गोळा करणे :-** सर्व सार्वजनिक रस्ते, पदपथ व गृहगल्ल्या दररोज साफ करण्यांत आल्या. रस्त्यांची सफाई करताना गोळा केलेल्या व रहिवासी इमारतीतील गोळा केलेल्या कचऱ्याचे व इतर टाकावू वस्तूंचे प्रमाण ९.४७ लक्ष टन शहरविभागात व ५.०१ लक्ष टन उपनगरें व विस्तारीत उपनगरें मध्ये होते. अशा रितीने प्रतिदिना सरासरी २५९४.६४ टन कचरा शहर विभागातून व १३७३.०५ टन कचरा उपनगरें व विस्तारीत उपनगरें विभागातून हलविण्यांत आला. अहवाल वर्षात शहरें, उपनगरें व विस्तारीत उपनगरें विभागात शासन, महाराष्ट्र गृहनिर्माण मंडळ व महापालिका यांच्या मालकीच्या जमिनीवरील अनुक्रमे १५० व ९२८ मोपडपट्टी वसाहतीतील ११,९३० शहर व ८९,८५१ उपनगरें व विस्तारीत उपनगरें विभागातील टन कचरा हलविण्यांत आला.

कचरा वाहून नेणे :- उपरोक्त गोळा केल्या कचऱ्याची वाहतूक यांत्रिकी वाहने वापरून केली जाते. या वर्षात कचरा वाहून नेण्याकरीता वापरण्यात आलेले वाहनांचे फेरे खालीलप्रमाणे आहेत.

अ. क्र.	क्षेत्र	महानगरपालिका वाहनांचे फेरे	कंत्राटदारांच्या वाहनांचे फेरे	टक्केवारी वाहून नेला कचरा.
१.	शहर	३७३५७	११९५२८	२३.८१
२.	उपनगरं, विस्तारीत उपनगरं.	२७८१६	६९२२६	२८.६६

कचरा वाहून नेण्यासाठी पारंपारिक गाड्यांद्वारे वाहून नेल्या जाणाऱ्या कचऱ्याच्या भाराच्या दीडपट अधिक भार कचरा वाहू शकणाऱ्या दबविणाऱ्या १८ गाड्या वापरण्यात आल्या.

कचऱ्याची विल्हेवाट :- देवनार येथील जमिनीचे पुनःप्रापण करून या कचऱ्याची अंतिम विल्हेवाट लावण्यात आली. शहर व कंही थोड्या उपनगरीय विभागातून ७, ३३, २३० टन कचरा देवनार येथे टाकण्यात आला. पश्चिम उपनगरातील चिंचोली, गोरई, एसिक नगर व चंदन मार्ग व पूर्व उपनगरातील देवनार आणि मुलुंड येथील सखल जमिनीचे पुनःप्रापण करण्यासाठी कचरा वापरून त्यांची अंतिम विल्हेवाट लावण्यात आली. पश्चिम व पूर्व उपनगरातील कचरा पट्टीवर एकूण १३३८७९ लाख टन कचऱ्याची विल्हेवाट लावण्यात आली.

सार्वजनिक व खाजगी शौचकूप आणि मुताऱ्या :- अहवाल वर्षात ७९४७ शौचकूप बैठकांसहित १००६ मुताऱ्या बैठकांसहित ११०७ सार्वजनिक आरोग्य सुविधागृहांचे परिरक्षण करण्यात आले. शहर विभागात ३८५ मुताऱी बैठकांसहित ८९ मुताऱीगृहे आणि उपनगरात ६३६ बैठकांसहित १४६ मुताऱीगृहे अस्तित्वात आहेत.

उपद्रव प्रतिबंधक उपाययोजना :- संपूर्ण वर्षात रस्त्यावर बेफिकीरीने कचरा टाकल्याबद्दल, लघुशंका आणि शौचविधी केल्याबद्दल मुंबई पोलीस अधिनियमाच्या ११५ कलमाखाली शहरात व उपनगरात नियुक्त केलेल्या ९० उपद्रव शोधकांद्वारे २०५५ प्रकरणे शहर विभागातून व ८४२ प्रकरणे उपनगरं व विस्तारीत उपनगरं विभागातून न्यायालयांत दाखल करण्यात आली. व रु. १,०९,४००/- दंड आकारण्यात आला. संपूर्ण वर्षात महापालिका अधिनियम कलम ३७२ (ई) अन्वये ११११ प्रकरणे शहर विभागातून व १६९८ प्रकरणे उपनगरं व विस्तारीत उपनगरं विभागातून न्यायालयांत दाखल करण्यांत आली आणि त्यांच्यावर लादलेला दंड रुपये ४७,८७०/- आणि रुपये १९,२४०/- अनुक्रमे शहर विभागांत व उपनगरं व विस्तारीत उपनगरं मधून वसूल करण्यांत आला.

मृत प्राणी हलविणे व त्यांची विल्हेवाट लावणे :- बृहन्मुंबई विभागातील मृत प्राणी हलविण्यासाठी व त्यांची विल्हेवाट लावण्यासाठी मुंबई खादी ग्रामोद्योग संघ हया कंत्राटदारांची नियुक्ती केली आहे. संपूर्ण वर्षात हलविलेल्या मृत प्राण्यांची संख्या ८७१३९ होती.

विशेष साफसफाई सेवा :- अनुसूचित आकार भरल्यावर सदर विशेष साफसफाई सेवा सर्वस, प्रदर्शने, मोठ्या संस्थां, औद्योगिक आस्थापना इत्यादिना देण्यात आल्या. समाज न सेवेबद्दल रु. १३,१४८/- इतकी रक्कम मिळाली.

शहरातील साफसफाई कामगारांच्या छाळी :- शहरात ४१६७ गाळे असलेल्या १५९ कामगारांच्या छाळीची व ९ संक्रमण शिबिरे आणि उपनगरात १९०५ गाळे असलेल्या ८६ छाळींचे देखभाल व परिरक्षण करण्यात आले. शहर विभागातील व उपनगरातील विनामूल्य निवासस्थानास पात्र असलेल्या अनुक्रमे ९६७८ व ७५०१ कर्मचाऱ्यांपैकी ४३.०७ टक्के व २५.४० टक्के कर्मचारीवृंदास निवासस्थाने पुरविण्यांत आली व बाकीच्या कामगारांना घरभाडे भत्ता देण्यांत आला.

कामगार कल्याण :- साफसफाई कर्मचाऱ्यांच्या फायद्यासाठी एकूण ३१ कल्याण केंद्र निरिनाळ्या ठिकाणी शहर आणि उपनगरांत कार्यरत आहेत.

श्रमिक कर्मचारीवृंदाकरीता सहकारी पतपेढ्या :- घन कचरा व्यवस्थापन खात्याच्या श्रमिक कर्मचारीवृंदाच्या सोयीकरीता ४८६४ सभासदांचे सदस्यत्व असलेल्या एकूण १२ सहकारी पतपेढ्या कार्यरत आहेत. जमा झालेल्या भाग भांडवलाची रक्कम रुपये ३०,६९,२७२/- इतकी होती. सहकारी पतपेढ्यांचे काम समाधानकारक आहे.

संमार्जन मेंवेमाठी १९८६-८७ सालाकरिता खर्च :- कचरा गोळा करणे, हलविणे व त्याची विल्हेवाट लावणे व मलमूत्र आणि सार्वजनिक आरोग्य मुविधागृहे यांच्या संमार्जन सेवेसाठी विभाग-१, २ आणि ३ साठी वर्षात केलेला एकूण खर्च रुपये ३७,४१,१४,२५१.८३ इतका आहे. त्यापैकी रु. ३३,६६,४७,९२७.९१ इतका खर्च १४.४८ लाख टन कचरा गोळा करणे, वाहून नेणे व त्याची विल्हेवाट लावणे या कामासाठी माला. शहरातील व उपनगरातील महतर सेवेवर करण्यात आलेला एकूण खर्च अनुक्रमे रु. १,३४,३५,४६६.८८ व रुपये २,४०,२८,८५७.०४ होता.

प्रत्येक टन कचरा उचलण्यासाठी रुपये २३२/- इतका व प्रत्येक माणशी रु. ३८/- इतका खर्च माला.

#### विशेष उपक्रम :-

मुंबई महानगर विकास योजना क्रमांक - १ मार्फत आंतरराष्ट्रीय सुधारणा संस्थेकडून आर्थिक सहाय्य ह्या खात्याला मिळाले आहे. ह्या योजनेअंतर्गत खालील कामे हाती घेण्यांत आलेली आहेत.

- (१) महालक्ष्मी येथे यांत्रिकी कचरा स्थलांतर केंद्र.
  - (२) क्षेत्रविकास आणि सेवा कार्यक्रम.
  - (३) गलिच्छ वस्त्यांचा दर्जा वाढविण्याचा कार्यक्रम.
- सध्या कामाचे स्वरूप खालीलप्रमाणे आहे.

(१) महालक्ष्मी येथे दररोज १००० टन क्षमतेचे यांत्रिकी कचरा स्थलांतर केंद्राचा आराखडा तयार करण्याचे काम प्रगतीपथावर आहे. प्रत्यक्ष बांधकाम व यंत्रसामुग्री बसविण्याचे काम निविदा मागविल्यानंतर व कारातनामा माल्यानंतर सुरु करण्यात येईल.

(२) क्षेत्र विकास आणि सेवा कार्यक्रम व गलिच्छ वस्त्यांचा दर्जा वाढविण्याचा कार्यक्रम, कचरा गाड्या, भूसंपर्कन यंत्रे खरेदी करणे आणि दोन यानगृहे, हजेरी चौक्यांचे बांधकाम इत्यादिचा समावेश आहे. बरील कामे प्रगती पथावर आहेत व त्यासाठी तीन महिन्यांच्या कालावधीत निविदा मागवण्यात येतील.

सही/-

(ब. द. कोटणीस)  
प्रमुख अभियंता  
घन कचरा व्यवस्थापन.

घन कचरा व्यवस्थापन खात्याच्या सन १९८६-८७ च्या काळातील विभाग-१, २ व ३ चा महसूल व खर्चासंबंधीचा तपसता.

	विभाग-१ रुपये	विभाग-२ रुपये	विभाग-३ रुपये	एकूण रुपये
(१) महसूल	६३,५८,५९८.५२	१२,६९,५२४.००	६,२१,८२९.५३	८२,४९,९५२.०५
(२) आस्थापना खर्च	१६,७३,३४,९३३.२१	७,३४,८१,९३०.००	४,०१,९६,९५२.९९	२८,१०,१३,३०६.२०
(३) महसुली खर्च	६,२६,४२,६२९.००	१,६७,५९,११०.००	१,१०,७९,४८२.००	९,०४,८१,०२१.००
(४) कर्ब काम अर्पणकल्याण खर्च.	१,७२,७४३.५२	७,७४,३१०.००	१६,७२,८०१.११	२६,१९,८५४.६३
एकूण खर्च रुपये	२३,०१,४९,६६५.७३	९,१०,१५,३५०.००	५,२९,४९,२३६.१०	३७,४१,१४,२५१.८३
२, ३, ४				

## CHIEF ENGINEER (ROADS & S. W. DRAINS)

### HIGH LIGHTS

*Rs. in Crores*
**I. (A) EXPENDITURE :**

1. Expenditure incurred on execution of works from Loan Works Budget.	1.62
2. Expenditure incurred on execution of works for maintenance of properties etc., from Revenue Budget.	4.02
3. Expenditure on Establishment.	6.49
4. Expenditure on other heads	
i) From loan Works Budget	0.19
ii) From Revenue Budget	2.20

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**14.52**


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**(B) REVENUE :**

Revenue earned by the Deptt. during year.	0.72
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**II. ROAD CONSTRUCTION BRANCH :**

	Total No. of works completed	Total No. of works in progress
1. Road resurfacing in asphalt concrete.	9	1
2. Road resurfacing in cement concrete.	Nil	6
3. New roads including S. W. Drains.	2	8
4. Road widening.	3	12
5. Any other works.	29	21
6. Storm Water Drains.	6	6
7. Nallas.	6	6
8. Desilting of S. W. Drains.	2	Nil

**MAINTENANCE OF MUNICIPAL ROADS :**

1. Roads (in Km.)	: 1525 Kms.
2. Works carried out through P. W. C.	: 632 Nos.

**Maintenance of Municipal Roads**
**(i) Roads & footpaths and length of roads (K. M.).**

Area	Cement Concrete	Block topped	Sett paved	Waterbound macadam	Others	Total length
City	66.81	259.31	—	—	152.85	478.97
Subs.	90.75	756.58	—	66.50	132.30	1046.13
	157.56	1015.89	—	66.50	285.15	1525.10

## (ii) Improvement of roads :

	Street Asphalt	Chip on asphalt roads	Semi grouting	Asphalt concrete	Surface dressing
City Area (K.M.)	35000	—	20886	20.000	10700
Subs. Area (K. M.)	14820	550	22256	—	7857

There were 38 road rollers (petrol driven — and diesel driven 38).

Permits 4540 in city and 6648 in subs. were issued for excavation in roads & footpaths, the cost of reinstatement of disturbed surface was charged to respective permit holders and the trenches were repaired amounting to 156,78,249.35 in City and Rs. 368,21,600 in subs and an amount of Rs. 1,80,145 in lakhs in City and Rs. 7,16,900 in subs. were recovered as fees for the purpose. 144 notices in city and Nil notices in subs under Section 322(b) of B. M. C. Act, were issued against the unauthorised occupants of roads and footpaths by dumping building materials. In additions 741 permits in City, 604 permits in subs were issued for occupation of roads for erecting mandaps, placing chairs and benches etc., and Rs. 4,88,330 from city and Rs. 47,222 from subs were realised in this account.

**Asphalt Plant & Crusher :**

The work of asphelting works as approved by the Corporation were continued during the year and roads covering the area of 1,08,289 Sq. M. wre asphalted at a cost of Rs. 50,89,485 (Please see Appendix II).

(a) The municipal hot-mix asphalt plant at Worli was in operation throughout the year except during the monsoon from July 1986 to September 1986. during the year, main plant was in operation for 5 months and peggon plant was in operation for remaining 7 months. The labourers for running the asphalt plant, were engaged departmentally.

(b) The total area 1,08,289 Sq. M. of potholes were repaired during the year at the cost of Rs. 43,02,938 with bitumen surface chip coat etc.

(c) 3990.13 M. Tonnes of cold mix was supplied to wards and Rs. 17,55,152.94 were earned.

The main asphalt plant worked for 284 days and remained closed for 81 days on account of rainy season, Sundays and Holidays and break-down of plant.

The rates adopted for booking expenditure for different mode of constructions were the same as per previous year, The total expenditure for repairing the road surface, cost of which is chargeable to repairs grant, amounted to Rs. 68,44,638.

**Road material testing laboratory at Worli :**

Sr. No.	Particular of sample	No. of tests done (Samples)	Amount of revenue earned
			Rs.
1.	Asphalt mixes	9544	41,700
2.	Aggregate	166	9,500
3.	Soil	57	7,370

Cost of municipal samples which were tested of charge is Rs. 2,23,500.

**ADMINISTRATIVE REPORT OF EXECUTIVE ENGINEER (TRAFFIC & CO-ORDINATION AND  
EXECUTIVE ENGINEER, TRAFFIC PLANNING FOR THE YEAR — 1986-87.**

**STREET LIGHTING FOR THE CITY :**

The street lighting for all the public roads in the city is looked after and maintained by the B. E. S.T. Undertaking on behalf of the Corporation within City limits.

The detailed report is as follows :

The total No. of electric street light lamps on the roads, foot over bridge, gardens etc., as on 31st March 1987 is as under :—

I	As on 31-3-1986	As on 31-3-1987	Increase
	27,332	27,597	265

The details of the different types of street lighting *i.e.*, (i) T. F. (tungstone Filament) of 100 watts to 500 Watts. (ii) High pressure Mercury Vapur (HPMV) from 80 Watts to 400 Watts, (iii) 4/40 Watts Fluorescent Tubes, (iv) High pressure Sodium (HPMV) 250 Watts and, (v) 1000 Watts Halogen lamps.

II Description	T. F.	HPMV	Fluore- scent.	Sodium Vapour Lamp	Halogen Lamp	Balenced	Total
1	2	3	4	5	6	7	8
1) Municipal	100	11,518	100	164	93	190	12,165
2) All in Hire	—	12,314	2652	466	—	—	15,432
					<b>Grand Total</b>		<b>27,597</b>

a) Total Nos. — T. D. Bollards as on 31-3-1987-136.

b) Total No. of High Mast with 4 Nos. of 1000 W. S. V. Lamps — 1 at Khodadad Circle at Dadar.

The following statement shows the total electrical energy consumed for the street lighting net work for whole city.

Description	load K. W.	Units K. W. H.
Municipal	17,550.051 (Per year)	63,18,969 (Per year)
B.E.S. & T.	64,793.523 (Per year)	1,96,66,402 (Per year)
	<b>82,343.574</b>	<b>2,59,85,371</b>

During the year under reference there was improvement of street lighting on a number of roads and junction. The additional expenditure incurred for the work is shown below :—

1) Frection of new street lamps	Rs. 8,78,377.00
2) Shifting of street lamps.	Rs. —
3) Improvement of street lighting	Rs. 1,98,225.00
<b>TOTAL :</b>	<b>Rs. 10,76,602.00</b>

(V) The details of improvement carried out during the year 1986-87 is shown in appendix — II. Increasing wattage, converting HPMV lamps into HPSV lamps, installing additional poles etc.

(VI) During the year 1986-87 the programme for change over of HPMV lamps to MPSV on main corridors is continued.

It is proposed to replace all existing Mercury Vapour lamps by Sodium vapour lamps on all major arterial roads phasewise and to provide semi highmast lamps with sodium vapour at some major junctions.



Temporary lighting arrangement was made during Ganapati festival at Girgaon Chowpaty, Cuff Parade, Mazgaon, Colaba Banganga, worli Prabhadevi, Dadar Shivaji Park, Mahim Beaches for the safety of general public visiting immersion ceremony.

The lighting arrangement was also provided during Navaratra Festival at Mahalaxmi temple and Mahim Fair at Mahim and on new year eve and on 26th January at Gateway of India.

All these lighting arrangement were provided at the cost of Municipal Corporation from safety point of view.

VII) The B. P. T. is maintaining and lighting roads of B. P. T. area which are used by general public also. B. P. T., is paid a rebate per annum for maintenance, cleaning and lighting B. P. T. Roads in Docks and Bunders and in Cotton Depots as per C. R. No. 2598, dated 30th March 1982.

This is additional expenditure incurred for street lighting and road maintenance and is adjusted from taxes due from the B. P. T., in respect of property by 'A' Ward.

#### **SUBURBAN AND EXTENDED SUBURBS.**

The total number of street lights at the end of the year as on 31st March 1987 is 40,351 as against the total of 39,076 number in the previous year.

The detail of different type of lamps as shown below :-

T. F. Lamps	H. P. M. V.	T. D. BOLLARDS	HIGH MAST	TOTAL
5416	34,651	282	2	40,351

The names of the roads for which regular lines were prescribed under Section 297(i) of the B. M. C. Act, are shown in Appendix III.

Temporary lighting arrangement was provided during Ganpati Festival at Danda Village, Khar Versova Beaches, Juhu Beach, M. G. Road Goregaon, Madh & Marve Sea beaches, Dahisar river for safety of general public visiting immersion ceremony.

#### **Removal of vehicles : -**

Vehicles which were found abandoned or undergoing repairs on public roads or footpaths, thereby, causing obstruction to traffic and pedestrians have been removed in Municipal Custody under Section 314 of the B. M. C. Act. During the year under report total number of 1874 vehicles removed to Municipal custody out of which 1437 vehicles retrieved by the parties on payment of towing and demurrage charges. steps are taken to auction the unclaimed vehicles to recover Municipal dues.

#### **TRAFFIC AMENITIES :**

The work of constructing traffic islands/channelisers, central dividers, parabolic dividers etc., were carried out on certain roads and intersections in orders to ensure safety of both pedestrians as well as vehicular traffic. The total cost of such work amounted to Rs. 4,07,760.

The names of roads on which regular lines were prescribed are shown in appendix - I.

Road marking strips, pedestrian crossing and Road divider line and kerbs were painted on all improvement road in city and suburbs.

Traffic Informatory sign boards were installed at important locations in the Eastern as well as the Western Suburbs of Bombay at a total cost of Rs. 6,98,340 for the guidance of visitors, tourists and the general public. Speed breaker cautionary boards were also installed at various locations at a total cost of Rs. 2,41,615 in order to fore-warn motorists and ensure effective safety of vehicles and pedestrians.

Specially designed traffic reflective cylindrical cones have been installed at several intersections at a total cost of Rs. 3,44,720 in order to demarcate refuge islands/central divider so as to ensure safety of both vehicular and pedestrian traffic.

The traffic department have also supplied traffic reflective cones to the traffic police at a cost of Rs. 1,62,500 in order to help traffic police to regulate traffic in a better and more efficient manner.

**MICRO COMPUTER :** The use of Micro computer has given an added advantage in obtaining precise and accurate solutions to the otherwise lengthy and time consuming traffic engineering problems and benefit cost analysis works which include speed delay survey data, signal timing plan, preparing graphics and preserving statistics.

**BEAUTIFICATION :**

The Municipal Corporation in order to promote its endeavour to maintain a clear greener and beautiful Mumbai, have enlisted support of civic conscious public spirited organisation for the development of several traffic islands and rotaries in Mumbai. A comprehensive list of traffic islands that can be developed has been prepared to ensure proper and effective development of the traffic island.

Besides, newly designed steel railings have also been provided on several arterial road stretches through the assistance of public spirited organisation in order to ensure safe, smooth and efficient movement of vehicular and pedestrian traffic. In addition such scheme also go a long way in achieving our object of beautification of the city.

**SIGNAL IMPROVEMENT PROGRAMME :**

Under the World Bank Assisted Bombay Urban Transport Project, the work of modernising road traffic signals in the City has been completed (83) intersection have been provided with Micro Processor based intersection controllers and all signals places have been provided with imported signal heads for better visibility and appeal. The 83 intersection have been grouped in 6 corridors each of them provided with Micro processor based master controller connected by means of communication cable to the local controllers. separate timing plans for various periods of day and sundays have been provided which has resulted in the traffic signal system being traffic responsive to the maximum extent.

Total No. of signals in operation in the year 1986-87.

Number of I. T. I. signals	108 nos.
Number of Philips signals	82 nos.
Number of Meltron Ltd. signals	10 nos.
Number of flashing Beacon by I. T. I. Ltd.	63 nos.
	<hr/>
Total :	263 nos.
	<hr/>

**INTER UTILITY CO—ORDINATION :**

The interutility co-ordinating organisation which was established earlier, properly regulates and co-ordinates the extensive excavations on roads and footpaths by various utility concerns. For major excavation by utility concerns on roads, the programme is called for from each of utility concerns and the same is discussed in Central Committee Meeting of the representatives of the utility concerns in the monsoon period and efforts are made to minimise the repeated excavations and regulate the excavation activity in the manner prescribed in the code of conduct which was drawn up after mutual consultation.

The meeting such as Apex Committee meeting, Zonal Committee meeting etc., of the inter utility organisations are held at regular intervals. In these meetings issues such as pending reinstatement authorities, difficulties encountered by the utility concerns, difficulties from the point of free flow of traffic on roads etc., are discussed and solutions are thought of.

**APPENDIX — II**

Following is the details of improvement of street lamps carried out during the year 1986-87

- 1) Sion Main Road.
- 2) Captain Prakash Pethe Marg.

- 3) Dinshwa Watcha Road.
- 4) Dadabhai Nowroji Road.
- 5) Dr. B. A. Rds., Lalbaug.
- 6) Junc. of Gokhale Road, Ranade Road.
- 7) Mahatma Gandhi Road.
- 8) Jagmohandas Marg.
- 9) From King's Circle to Eastern Express Highway.
- 10) Falkland Road Bridge.
- 11) Kamathpur Lane.
- 12) Lady Jamshedji Road, Mahim.
- 13) Sitaladevi Temple Road.
- 14) Kaklidge Chowk, Nathpai Marg.
- 15) T. J. Kataria Marg.
- 16) Tilak Bridge.
- 17) S. K. Bole Marg.
- 18) Shivaji Park.

**Administrative report for the year 1986-87**

**CHIEF ENGINEER (ROADS & SWD DRAINS)**

**PLANNING OF STORM WATER DRAINS AND NALLAS :**

During the year 1986-87, various suggestions regarding remedial measures; temporary as well as permanent, suggested by the Natu Committee were implemented. These are described as under :—

I. Regarding the City, intercepting and arterial drains were desilted in city areas by appointing the contractors. The areas requiring immediate attention were sorted out and the desilting done to ensure proper disposal of storm water. In addition, agencies were appointed for one ward in city for (a) repairs to storm water drains and (b) desilting of dhapa drains. These agencies were utilised during the course of the year and the above works were carried out.

Water entrances, gullies, drainages, connections were cleaned through the ward staff in city.

The work of desilting of major drains and nallas in F/N, G/S & G/N Wards carried out through the three agencies.

due to unprecedented floods which occurred in the monsoon of 1985, considerable damage was caused to the life and property. Moreover, public transport services were highly dislocated. In order to abate this nuisance in future, large scale nalla training works were taken up in hand with the help of financial aid from the Central Govt. Some of these nallas, where training is now nearly completed, are :—

- i) Love Grove nalls
- ii) Nehru Science Centre nalla
- iii) J. K. Chemical nallas
- iv) Joglekar & Naik Nagar nalla
- v) Dadar Dharavi nalla.

II. Regarding the subs., the following jobs were carried out :—

Tenders were invited and the contractors were appointed for 14 wards in suburban areas and various drains, culverts, nallas were desilted during the course of a year. In addition, labourers were employed for departmental effort for better results. The devices were given to wards regarding measures to be taken as and when necessary in the form of excavation kutchha drains, desilting and diversion of storm water drain wherever necessary.

However, the work of training and construction of nallas had to be turned and sized in accordance with the budget provisions which were drastically curtailed.

The work of desilting the drains and culverts through the Railway properties between Churchgate and Dahisar and from Bombay V. T. to Mulund were executed through the Western and Central Rlys. These works were carried out at the cost of MCGB.

## Details of the work of nallas and SWD Drains in Subs.

Western Sub.			Eastern Sub.		
	Completed works	Total Cost Rs.		Completed works	Total Cost Rs.
1. Nallas	5 Nos.	66,24,079	Nallas	6	14,70,827
2. SW drains	---	---	SW drains	5	4,98,41,867
	Works in Progress	Est. Cost Rs.		Works in Progress	Est. Cost Rs.
1. Nallas	6	1,63,68,442	Nallas	6	1,47,97,025
2. SW drains	4	91,06,732	SW drains	5	1,38,26,727
3. Other works	—	---	Other works	3	10,86,304
4.			Plans & estimates prepared.	25	2,93,31,636
5.			Tenders invited.	25	

**Administrative Report for 1986-87**  
**Report for Road Material Testing Laboratory.**

Sr. No.	Tests on	Number of Tests done	Revenue earned Rs.	Amount of free work done Rs.	Total Amt. worth work done Rs.
1)	Asphalt	9544	41,700.00	2,23,500.00	2,65,200.00
2)	Aggregate	166	9,500.00	Nil	9,500.00
3)	Soil	57	7,370.00	Nil	7,370.00
Total :		9767	58,570.00	2,23,500.00	2,82,070.00

**Administrative Report for 1986-87**  
**Report of Bldg. Material Testing Laboratory.**

I)

Particulars.	Departmental		Government	Private	Total
	Free	With charges			
1	2	3	4	5	6
Concrete	1,846	1,806	1,043	951	5,646
Bricks	—	All together	—	186 x 5	930
Cement	107	—	—	47	154
Steel	—	All together	—	—	291

## II Cost of testing in Rupees :—

1	2	3	4	5	6
Concrete	—	54,180	15,645	28,530	98,355.00
Bricks	—	—	All together	—	24,180.00
Cement	—	—	—	9,870	9,870.00
Steel	—	—	All together	—	16,050.00
Hire of moulds	—	—	—	—	1,440.00
Total (A) : Rs.					1,49,895.00

## III Cost of free testing :—

Particulars.	No. of samples.	Amount in Rs.
Concrete	1,846	55,380.00
Cement	107	22,470.00
Total (B) :		77,850.00

IV Total cost of work done :—Total (A)	1,49,895.00
Total (B) :	77,850.00
Total (A + B) :	2,27,745.00

## APPENDIX No. 2

Statement showing details of repairs to Roads carried out by Assistant Engineer, Asphalt Plant Departmentally.

(Rs. in lakhs)			
Sr. No.	Mode of repairs.	Area in mts.	Amount Rs.
1)	Asphalt roads repaired with Binder Crit Coat Chief coat surface etc.	108289	50,89,484.93
2)	Cold mix supplied to wards in M.T.	3990.13	17,55,152.94
			68,44,637.87

Statement showing the details of Asphalt Plant Production for the year 1986-87.

Main Plant	Pegson Plant
5,31.52	6,388.74
5,431.52 M.T. +	6,388.74 M. T.
Total : 11,820.26 M.T.	

## APPENDIX — III

Statement showing the works carried out by Road branch (City &amp; Sub.) during the year.

*Rs. in lakhs;*

Sr. No.	Particulars	Completed works		Actual Cost		Works in Progress		Estimated Cost	
		City (Nos.)	Sub. (Nos.)	City	Sub.	City (Nos.)	Sub. (Nos.)	City	Sub.
1.	Roads resurfacing works in asphalt concrete.	9	—	230.84	—	—	1	—	102.27
2.	Road resurfacing works in cement concrete.	—	—	—	—	4	2	200.06	155.88
3.	Construction of new roads.	1	1	24.02	12.15	—	8	—	343.34
4.	Road widening.	—	3	—	23.94	2	10	22.80	191.74
5.	Any other road works.	3	26	6.25	685.39	—	21	—	342.88
6.	Storm Water drains.	1	5	5.59	14.84	1	5	14.68	138.26
7.	Nallas.	—	6	—	14.70	—	6	—	147.97
8.	Desilting of S. W. Drain.	2	—	26.01	—	—	—	—	—

## APPENDIX — I

The regular lines have been proposed and sanctioned on following Roads during the year 1-4-1986 to 31-3-1987 for City area.

No.	Name	Width	Ward	Remarks
E. E. T. Pl. 3/3-4-86	Proposed road joining Moti Shah, Road, Sant Sawata Road and Sitaphalwadi at Mazgaon.	40'-0"	E/W	Sanctioned
E. E. T. Pl. 4/15-5-86	60' revised regular line at Shekh Mistry Road near Metropolitan Spring Pvt. Ltd.	60'-0"	F/W	Sanctioned
E. E. T. Pl. 5/1-8-86	Widening of road at the junction of Laxmibai Jagmohandas Road and Narayan Dabholkar Road, at Malbar Hill.	20'-0"	D/W	Sanctioned
E. E. T. Pl. 6/25-9-86	widening of V. N. Purav road for Road-over-bridge near Chunabhatti Railway Station.	90'-0" 100'-0"	F/W	Sanctioned
E. E. T. Pl. 7/20-11-86	Widening of Pitambar Lane at Mahim.	40'-0"	G/N/W	Sanctioned
E. E. T. Pl. 8/4-12-86	Widening of Dattaram Mahadev Khamkar Road (Gas Work Lane) at Lalbaug.	30'-0"	E/W	Sanctioned

## APPENDIX — III

The regular lines have been proposed and sanctioned on following roads during year 1986-87 for Eastern and Western Suburbs.

No.	Name	Width	Ward	Remarks
E. E. T & C (Sub.) 6/3-7-86	Proposed 30' D. P. Road joining extended Lallubhai Park Road & S. V. Road at Vile Parle (W).	30'-0"	K/W	
E. E. T & C (Sub.) 7/14-7-86	Widening of Swami Vivekanand Road from Millan Subway at Santa-cruz to the junc. of Vailunthlal Mehta Road at Vile Parle (West).	120'-0"	K/W	
E. E. T & C (Sub.) 8/8-12-86	Widening of extended Lake Road at Bhandup (East)	60'-0"	S/W	
E. E. T & C (Sub.) 9/2-4-87	Widening of Sainath Road joining Swami Vivekanand Road and Station Road at Malad (West).	59'-0"	R/W	
E. E. T & C (Sub.) 1/12-1-87	Proposed Road to Sindhi Society and R. C. Road at Chembur.	40'-0"	M/W	
E. E. T & C (Sub.) 2/22-1-87	Widening of Maharani Lane) and Kulkarni Wadi Road at Kurla-Ghatkopar.	60'-0"	L/W	
E. E. T & C (Sub.) 3/2-2-87	Widening of Road for B. E. S. T. bus route through the compound of Crompton Greeves Co. at Kanjur Marg (East).	78'-0"	S/W	Plans are ready

## ADMINISTRATIVE REPORT FOR THE YEAR 1986-87.

## DEVELOPMENT PLAN

The Development Plan Department has the following main functions :—

- i) Implementation of the Development Plan.
- ii) Revision of the Development Plan as required under Section 38 of the M. R. & T. P. Act, 1986.
- iii) Acquisition of lands required for provision of various civic amenities, as a part of implementation of the Development Plan.
- iv) Town Planning Schemes.
- v) Scrutiny of building proposals giving approvals in the form of I. O. Os. and issue of C. Cs. etc.

As regarding the different functions, the performance is as under :—

- i) Implementation of the Development Plan :

Under this function, the Development Plan Department is required to give guide-lines to various departments of the Municipal Corporation and particularly, the Building Proposals Section in the matters connected with the Building Bye-laws, D. C. Rules and such other general policy matters, modification to the Development Plan and D. C. Rules and the U. L. (C & R) Act, 1976. The Ward Officers are also required to be given guidance in the matters regarding grant of factory permits under Section 390 of the B. M. C. Act, and the licences under Section 394 of the Act.

The Development Plan Department is also required to guide the members of public, Licensed Surveyors as also the various Government and Semi-Government Departments regarding provisions under the sanctioned Development Plan of Brihan Mumbai as also draft revised Development Plan of Brihan Mumbai and the D. C. Rules for Brihan Mumbai.

During the course of implementation of the Development Plan provisions, at times it becomes necessary that the reservations provided for various public purposes under the Development Plan required to be modified or deleted partly or wholly based on the site conditions or in case of any discrepancies or to meet the immediate requirements of the public and the users of the reservations are also required to be changed on representations from the members of public, owners of the properties, Licensed Surveyors, Municipal Councillors and Government and Semi-Government Departments. In number of cases, the zones of the properties are also required to be changed by modifying the Development Plan provisions. Thus, during the year, 48 such proposals have been initiated for modifying the Development Plan reservations. Out of these, in 10 proposals, the Municipal Corporation have accorded sanction under Section 37(1) of the M. R. & T. P. Act, 1966 for making a minor modification to the Development Plan of Brihan Mumbai, whereas in case of one proposal, the Corporation have accorded sanction under Section 50(1) of the said Act, for deletion of reservation. The said 11 proposals have been processed further and submitted to the State Government in Urban Development Department for their final sanction. The remaining proposals are yet to be approved by the Municipal Corporation and are in process.

In addition to this, 11 proposals have been initiated for modifying the provisions under the D. C. Rules for Brihan Mumbai. Out of these proposals, 2 proposals have been sanctioned by the Corporation and have been processed further. During the year, in all 5 proposals including the ones initiated in the earlier years for modifying the provisions of the D. C. Rules have been submitted to the State Government for the sanction.

**ii) Revision of the Development Plan as required under Section 38 of the M. R. & T. P. Act, 1966 :**

The Municipal Corporation has published the draft revised Development Plan of Brihan Mumbai and the draft Building Bye-laws and the D. C. Rules for Brihan Mumbai as per provisions under Section 26(1) of the M. R. & T. P. Act, 1966 in the earlier years. Thereafter the Committees, constituted by then Administrator in view of the powers vesting in the then Administrator by virtue of Section 7-A(2) of the B. M. C. Act, considered suggestions/objections in respect of the draft Building Bye-laws and the D. C. Rules and the draft revised Development Plans for the Wards in the Island City of Mumbai by giving hearing to the parties, who lodged their suggestions/objections after publication of the same, as per provisions under Section 28(3) of the M. R. & T. P. Act, 1966 and made its recommendations to the then Administrator in the earlier years and the then Administrator thereafter finalized the draft revised Development Plans for the Wards in the Island City of Mumbai and the draft Building Bye-laws and the D. C. Rules for Brihan Mumbai and submitted the same to the State Government for their final sanction in the months of March and April, 1985.

Further during the current year 1986-87, The Planning Committee appointed by the Corporation considered the various suggestions/objections received after publication of the draft revised Development Plan of Brihan Mumbai for the Wards in the Suburbs and Extended Suburbs as per provisions of the aforesaid Section of the Act, and made its recommendations to the Corporation. *i.e.*, the Planning Authority. The Municipal Corporation in turn accepted the said recommendations of the Planning Committee and finalized the draft revised Development Plan of Brihan Mumbai for the Wards in Suburbs and Extended Suburbs and submitted the same to the State Government for their sanction, as provided under Section 30(1) of the said Act, on 17th April, 1986.

Thereafter the draft revised Development Plan of Brihan Mumbai and the draft Building Bye-laws and the D. C. Rules, submitted to the State Government, are under scrutiny and for that matter, the required assistance has been rendered by the Development Plan Department.

**iii) Acquisition of lands required for provisions of various civic amenities, as a part of implementation of the Development Plan :**

As per Land Acquisition (Amendment) Act-I, 1984, the land acquisition cases for which Notifications under Section 6 of the L. A. Act, were issued prior to 24th September, 1984, the Awards were required to be declared by 24th September, 1986. These were 180 such land acquisition cases of the Municipal Corporation for which Notifications under Section 6 of the L. A. Act-I, 1984 have been issued prior to 24th September, 1984. It has, therefore, been decided to give priority to only those few cases, wherein the lands are urgently required for the projections in hands and for the purpose of proposed roads, etc., and for which necessary funds were available in the budget. Thus, out of 180 cases, 40 cases have been finalized and the Awards have been declared by 23rd September, 1986. Consequently, the Notifications under Section 6 of the L. A. Act, issued in respect of remaining cases have been lapsed and issue of fresh Notifications in such cases will be dealt with in accordance with the priorities fixed for the same and for which the same guidelines have also been finalized.



Apart from the abovementioned land acquisition cases, the Acquisition Section has taken possession of lands in 10 other cases, free of cost against grant of F. S. I. in lieu of the road land as per provisions under the D. C. Rule No. 10(2) as also in lieu of conditions imposed for handing over such lands, free of cost under the provisions of the U. L. (C & R) Act, 1976 while issuing exemption orders.

In 10 other cases, the Valuation Reports have been prepared in respect of Municipal lands. The standard rents have been fixed in case of 24 Municipal properties.

During the current year, the Municipal Corporation has also taken possession of 12 plots of land from the State Government and the B. H. & A. D. Board for provision of public amenities and the possessions of these plots of land have been handed over to the respective Wards for protection and taking up their development.

**iv) Town Planning Schemes :**

There are all Town Planning Schemes in Brihan Mumbai, 4 being in the Island City of Mumbai, 25 in Suburbs and 4 in Extended Suburbs.

At present, the Town Planning Scheme No. V, Vile Parle and Town Planning Scheme No. II, Borivali (Principal) has been finalized by the Arbitrator and submitted to the State Government for final sanction.

The Town Planning Scheme No. III, Borivali (Principal) is under scrutiny of the Arbitrator and the Arbitrator will finalize the same very soon.

The intention to vary 24 T. P. Schemes to implement/enforce the provisions of the modified Building Bye-laws and the D. C. Rules including D. C. Rule No. 8(A) and the provisions of the draft-revised Development Plan of Brihan Mumbai was declared. However, the same has been allowed to be lapsed by the Government and only T. P. S. I. (Mandvi) is now intended to be varied at present. The other Schemes will be taken up for variation after finalization and sanctioning of the draft revised Development Plan of Brihan Mumbai and the draft Building Bye-laws and the D. C. Rules for Brihan Mumbai.

**v) Scrutiny of building proposals giving approvals in the form of I. O. Ds. and issue of C. Cs., etc. :**

From the current year 1986-87, the Building Proposals Section, which was formerly functioning under the City Engineer has been placed under the control of the Chief Engineer of the Development Plan Department. The main functions of this Section are as follows :—

- a) Scrutiny and approval of the new building proposals received under Section 337 of the B. M. C. Act.
- b) Scrutiny and approval of the building proposals for making additions, alterations or major repairs received under Section 342 of the B. M. C. Act.
- c) Issue of C. Cs. under the provisions of the M. R. & T. P. Act, 1966 in respect of the various building proposals referred to above.
- d) Granting of Occupation Certificates/B. C. Cs. in case of building proposals referred to earlier.
- e) Approval to the layout and sub-division proposals under Section 302 of the B. M. C. Act.

The abovementioned functions are performed by the staff of the Building Proposals Section working in Zonal Office under the Zonal Dy. Ch. Engineers.

In addition to the abovementioned functions, the Development Plan Department is also required to give guidance in technical matters to the Ward Staff working in Building Section of the Wards for efficient and satisfactory performance of their following duties :—

- i) Inspection of private buildings and to issue notices under different Sections of the B. M. C. Act, for carrying out major structural repairs, etc., to the landlords.
- ii) To inspect unsafe buildings or portions thereof and arrange for their removal under Section 489 of the B. M. C. Act, in the interest of public safety.
- iii) To consider granting of authorities to the tenants under Section 499 of the B. M. C. Act, for carrying out repairs to the buildings, etc.
- iv) To take actions against unauthorized constructions.
- v) To attend to the house collapses and to submit reports in respect thereof to the appropriate/ concerned authorities, and
- vi) To pursue the various actions including arranging for launching prosecutions in case of non-compliance of the notice requirements or any other such breaches.

**High Lights :****IA—Expenditure**

	(in Crores)
	Rs.
1. On execution of Loan Works	3.39
2. On execution of revenue works.	0.7
3. On Establishment	1.09
4. On other heads	
a. From Loan Works Budget	Nil
b. From revenue Budget.	
<b>B Revenue Earned</b>	<b>0.001</b>
1. Mechanical branch	
a) Jobs attended by	
i) Workshop.	294
ii) Foundry.	122
iii) Washing service rendered by Municipal Power Laundry	53 Medical institutions.
2. Electrical Branch	
i) Bldg. constructions Section works by contract.	
a) Completed	25
b) In progress	50
ii) Plant & Machinery Section jobs executed	
a) Departmentally	97
b) Through contract	23
iii) Refrigeration Section works by contract	
a) Complete	106
b) In progress	—

**Mechanical Branch****1. Machine Shop :**

Machine shop is one of the major shops of the Municipal workshops. This shop undertakes the work of repairs to the pumpsets, steel furniture of all the Municipal Departments, Asphalt Machinery, Operation tables of hospital, Dressing drums.

**2. Carpenter Shop :**

The carpentry shop is established to carry out repairs to furniture of different departments, manufacturing of racks, notice boards, hand carts, wooden keys etc.

**3. Boiler Shop :**

This shop is established for carrying out the major jobs of the fabrication of refuse bins, play apparatus etc.

**4. Paint Shop :**

Paint shop is part and partial of carpentry shop for carrying out day to day painting of name boards of various departments, painting of vehicles, furnitures, hand carts, refuse bins wheel borrows etc. Moreover, spray painting of hospital equipment is also carried out.

**5. Foundry Shop :**

The municipal foundry shop is manufacturing various ferrous and non ferrous articles for Municipal departments. The ferrous articles *i.e.*, C. I. manholes frames and cover, heavy duty 1"-9" dia. and mainly required in the drainage work of the Corporation. The non ferrous articles of brass, gunmetal, copper aluminiums are also manufactured.

During 1986-87 foundry has received 135 nos. of jobs and 5 nos. of M. P. Os. from Dy. Ch. Eng., stores for supply of 769 Nos. of C. I. circular manholes frames & cover. (Appendix I).

Out of the above 140 jobs this foundry Section has completed 122 nos. of jobs.

**6. DESIGN SECTION :**

This Section executed the work of welding, fabrication, repairs to furniture, steel furniture, repairs to play apparatus in the garden, M. S. Water storage tanks, collapsible gates, rolling shutters, water pumps etc., in all the Municipal Institutions in the City Area. In addition to this Section looks after the work of S. W. D. Gulley emptier with the help of Gulley Emptier Units.

Certain works are carried out through outside agencies.

(A)	1. The total water entrances cleaned	—	6550	Nos.
	2. Total Unit days of	—	1030	Nos.
	3. Average of W. E. per day per unit	—	6.4	Nos.
(B)	1. The work orders received for repairs from Wards and other institutions.	—	328	Nos.
	2. Total work orders completed	—	294	Nos.
(C)	1. The work orders placed on outside agencies and amount thereof	—	37	Nos.
		—	31,25,097	
	2. The work orders completed and amount thereof	—	35	Nos.
		—	30,37,869	
	3. Works in progress	—	2	Nos.
(D)	Draftsman : Drawing prepared	—	50	Nos.
	Sketohes	—	50	Nos.
	Blue Prints	—	1000	Nos.

#### 7. MUNICIPAL POWER LAUNDRY :

The Municipal power laundry rendered washing services to 53 medical institutions of the Corporation. The rate was fixed Rs. 150 for 100 pieces of linens.

Target laid down for 1986-87	—	48,47,000
Linen actually washed during 1986-87	Rs.	47,19,072

This deviation of 2.63% is due to the following reasons :

(1) The major hospitals are allowed to get 10% of their soiled line washed through private Dhobies daily to meet the emergency in case of failure of Municipal Power Laundry However, L. T. M. G. Hospital, Kasturba Hospital and K. E. M. Hospital were getting more than 25% of their total soiled linen washed through private Dhobies daily under D. M. C.'s sanction.

(2) Due to strike of the resident medical officers of the number of linens were received.

(3) All the Hospitals have started getting their very small linen washed locally through their staff. Following steps are taken to maximise the output.

(i) All the Medical Institutions have been informed to send maximum linens (including small linens) to the Laundry for washing.

(ii) Efforts are being made to minimise the breakdown of machineries and to reduce overtime payment to the staff.

The Name and Qualifications of the Head of the Department who held the post during the year *i.e.*, from 1-4-1986- to 31-3-1987.

Designation	Name of Officer	Qualification	Period from to	Remarks if any
1. Chief Engineer Dev. Plan.	Shri P. M. Kale	B. E. (Civil) (HON.)	1-4-1986 to 31-3-1987.	

**ELECTRICAL BRANCH :**

The activities of the different Sections of the Electrical Branch were as under :—

(i) **Planning and Design Section :** This Section deals with the preparation of Estimates, invitation and recommendations of tenders and execution of contract for major electrical works in the newly constructed and old Municipal Buildings under the Loan Works Programme in the City, Suburbs and Extended Suburbs.

During the year some of the tenders were invited jointly with the civil tenders for synchronisation of electrical and civil works. For details as regards preparation of estimates, awarding contract, please see Appendix — II.

(ii) **Building Construction Section :** This Section supervises the execution of major works in different zones for which contracts were awarded by the Planning and Design Sections. Details are provided in Appendix — IV.

(iii) **Refrigeration Section :** This Section is entrusted with the preparation of estimates, invitation and recommendation of quotation and tenders, execution and contracts and supervision of contracts in respect of works for purchase and installation of air conditioning and Refrigeration Machineries under Loan Works Programme as well as under revenue Budget for City and Suburbs (Appendix — III).

**Plant and Machinery Section :**

This Section carries out repairs and maintenance of electrical machinery and electrical works in the existing Municipal properties.

28 estimates amounting to Rs. 4,03,450 were prepared.

35 works were carried out through outside agencies.

Costing Rs. 73,605 108 works amounting to Rs. 6,61,000 are in progress.

**WARD MAINTENANCE SECTION :**

This Section carried out electrical works in the existing municipal properties other than those looked after by the plant and machinery Section.

There are 97 estimates amounting to Rs. 52,03,000 prepared and works of electrification, providing pumpsets electrical fans, repairs to and providing sound system etc. amounting to Rs. 5,40,400 are completed and works costing to Rs. 7,22,000 are in progress.

**Refrigeration and Air Conditioning Works :**

There are 18 estimates amounting to Rs. 21,41,000 prepared and works of air conditioning and refrigeration amounting to Rs. 17,87,000 are completed.

The following Sections are under administrative Supervision and control of E. E. Mechanical (North & Projects).

- (1) Maintenance of Electrical Installation in Suburbs and Extended Suburbs.
- (2) Road Roller, Design and Mechanical Section in Subs. and Extended Subs.

**1. Maintenance of Electrical Installation in Suburbs And Extended Suburbs.**

The total staff working under technical guidance of this department has to look after the various maintenance works in Wards including rewiring and new works departmentally.

The staff has prepared 210 estimates for electrification rewiring etc.

In addition to the above, the works are carried out through private parties by inviting quotations/tenders.

i) The cost of the departmental works carried out	Rs. 9,39,548.00
ii) The cost of the estimates prepared	Rs. 66,77,504.00
iii) The cost of the works carried out by private agencies.	Rs. 6,21,116.00

## 2. ROAD Roller, Design and Mechanical Section In Suburbs and Extended Suburbs.

Road Roller and Design Section (W.S.) are situated at Khar and the Design Section (E.S.) is at Mulund.

### a. Road Roller Section :

There are 28 Diesel Road Rollers for the entire areas of Suburbs and Extended Suburbs (Eastern as well as Western). The work shop is situated at Khar Depot. This Section carrying out the work of Maintenance of Road Rollers of Eastern as well as Western Suburbs.

The number of various types of works carried out during the year 1986-87 is given below :—

1. No. of break down attended	—	144
2. No. of Job attended	—	41
3. No. of Preventive Maintenance		
a) A Type		41
b) B Type		16
c) C Type		12
d) D Type		03
e) E Type		01

The total strength of this Section is 21 employees (Labourer as well as superior).

### b. Mechanical Repair Shop :

The Mechanical Repair shop known as Design Section has to carry out mechanical repairs at various installation such as hospitals, schools, gardens and office establishment etc., in Suburbs and extended Suburbs. This Section has also carrying out the maintenance work of mechanical equipments, articles, etc., at Municipal Premises and properties in Eastern and Western Suburbs departmentally as well as through Private Agencies.

The Mechanical repair works as well as maintenance works carried out during 1986-87 are given below :—

1) Roolling Shutters	64	Nos.
2) Collapsible gates	52	Nos.
3) M. S. O. H. Tanks	49	Nos.
4) Hand Carts	95	Nos.
5) Office furniture	7 + 5	Jobs.
6) Play Apparatus	14 + 1	Nos.
7) Tar Boilers	14	
8) Cemetary Articles	3	
9) Hospital Jobs	13	
10) Special Jobs	13	
11) Electric pump Sets	619	
12) Break down of pump attended	218	

The total strength of this Section is 14 employees (Labourer as well as Superior).

The electrical Repair Shop is situated at Bandra & Mulund  
The electric items repaired in the year 1986-87.

1. The back log of the year 1985-86	—	209
2. Job received	—	902
3. Job completed	—	957
4. Job pending	—	154

## Detailed report of total output of Municipal Foundry for the year 1986-87.

## APPENDIX - 1

Sr.	Name of the castings.	Rate- Quantity/ Weight in Kg.	Per		Amount. No.	Rs. Ps.	
			Rs.	Ps.		Rs.	Ps.
1.	C. I. Manhole frames and covers 540 mm.	769 Nos.	1,200.00		Each	9,22,800.00	
2.	Rect. Manhole frames and covers 914 x 610 mm.	162 Nos.	1,250.00		"	2,02,500.00	
3.	Rect. Manhole frames and covers 914 x 457 mm.	156 Nos.	1,150.00		"	1,79,400.00	
4.	C. I. Machinable casting.	37,000 Kgs.	13.00		Kg.	4,81,000.00	
5.	Brass casting.	1,214 Kgs.	45.00		"	54,630.00	
6.	White Metal Brassing.	12 Nos.	400.00		"	4,800.00	
Total :—						18,45,130.00	

## APPENDIX - 2.

## ADMINISTRATIVE REPORT OF A. E. ELECT. (P. &amp; D.) FOR THE YEAR 1986-87.

Sr. No.	Description.	Estimate prepared		Amount.		Contract awarded		Amount.	
		City	Suburbs	City	Suburbs	City	Suburbs	City	Suburbs
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1.	School.	4	8	4,35,943.00	10,12,690.00				
2.	Housing.	6	3	7,14,696.00	4,70,757.00				
3.	Hospitals, Maternity Homes, Dispensaries, etc.	9	5	25,07,130.00	11,22,307.00				
4.	Markets.	1	—	58,000.00	—				
5.	Offices.	4	3	55,125.00	2,39,106.00				
6.	Transport Garage.	—	1	—	2,21,600.00				
7.	Welfare Centre.	1	—	15,750.00	—				
8.	Cemetary.	1	4	4,14,000.00	8,10,017.00				
9.	Swimming Pool.	—	1	—	8,01,812.00				
10.	Lifts.	1	—	2,30,000.00	4,30,000.00				
11.	Intercom.	2	2	66,075.74	1,69,075.00				
12.	Fire fighting.	—	1	—	9,57,077.25				
13.	Fire brigade.	1	1	5,40,763.00	10,85,000.00				
14.	Gardens	6	6	8,70,960.00	5,10,879.00				
15.	Sports Complex, Andheri.	—	4	—	69,62,562.00				
16.	Etc.	5	5	—	13,49,180.00				
Total :		36	44	59,08,442.74	1,61,42,062.25				

## APPENDIX - 3

## AIRCONDITIONING WORKS UNDER E. E. MECHANICAL (E. I. (P. &amp; C.))

Sr. No.	Name of proposal	Estimate Prepared				Tender Invited		Works Comple	
		City & Suburbs		City & Suburbs		City & Suburbs		City & Suburbs	
		Nos.	Amount	Nos.	Amount	Nos.	Amount	Nos.	Amount
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
		Rs.		Rs.		Rs.		Rs.	
<b>LOAN WORKS :</b>									
1.	Central Plant.	3	54,22,250.00	3	81,27,816.00	2	49,33,067.00	1	3,72,680.00
2.	Packaged type water cooled units	6	51,66,687.00	2	12,15,000.00	1	5,19,700.00	2	7,29,680.00
3.	Air cooled units (Triomatic).	1	17,95,000.00	1	17,95,000.00	1	80,446.00	—	—
4.	Window mode airconditioning units.	36	41,71,542.00	8	4,35,391.00	16	11,18,595.00	2	98,201.00
5.	Mortuary Plants.	6	24,58,750.00	1	8,25,250.00	1	59,500.00	1	6,71,500.00
6.	Roof insulation, Boxing, Ducting, falseceiling & accoustic treatment.	1	2,00,000.00	2	1,06,664.00	2	1,07,664.00	—	—
7.	Walk-in-cooler.	2	7,90,000.00	—	—	—	—	—	—
8.	Cold storage and Blood Bank, etc.	2	20,79,000.00	4	17,90,300.00	—	—	2	8,82,685.00
9.	Water cooler.	3	52,800.00	—	—	—	—	—	—
<b>TOTAL :-</b>		<b>58</b>	<b>2,21,36,029.00</b>	<b>37</b>	<b>1,55,60,247.00</b>	<b>23</b>	<b>68,18,972.00</b>	<b>8</b>	<b>27,54,746.00</b>

**APPENDIX — 4.**  
**ELECTRIFICATION OF PROVIDING ELECTRICALLY DRIVEN WATER PUMPING SETS ETC.**

Sr. No.	Description of the work.	Works completed	Actual expenditure Rs.	Work in progress	Expenditure upto 31-3-86 Rs.	REMARKS.
1.	2.	3.	4.	5.	6.	7.
<b>1. SCHOOL</b>						
	City	—	—	1	28,910.00	
	Western Suburbs.	4	2,45,030.03	—	—	
	Eastern Suburbs.	2	2,49,000.00	—	2,49,000.00	
<b>2. WARD OFFICES.</b>						
	City	2	2,63,269.12	1	1,06,911.00	
	Western Suburbs.	—	—	1	—	
	Eastern Suburbs.	—	—	—	—	
<b>3. HOSPITAL &amp; DISPENSARIES MATERNITY HOME.</b>						
	City	2	1,67,629.00	3	44,90,793.00	
	Western Suburbs.	2	6,35,469.42	4	25,32,464.15	
	Eastern Suburbs.	1	17,85,000.00	—	17,85,000.00	
<b>4. MARKETS.</b>						
	City	—	—	—	—	
	Western Suburbs.	1	97,762.94	—	—	
	Eastern Suburbs.	—	—	—	—	
<b>5. HOUSING.</b>						
	City	1	81,296.66	2	67,637.00	
	Western Suburbs.	1	—	—	—	
	Eastern Suburbs.	1	1,16,000.00	3	7,16,000.00	
<b>6. GARAGES.</b>						
	City	—	—	—	99,76,714.15	
	Western Suburbs.	—	—	—	—	
	Eastern Suburbs.	1	6,00,000.00	—	6,00,000.00	
<b>7. WELFARE CENTRE/ GYMNASIUM.</b>						
	City	—	—	—	—	
	Western Suburbs.	—	—	—	—	
	Eastern Suburbs.	—	—	2	86,02,000.00	
<b>8. LIFTS.</b>						
	City	—	—	11	41,17,480.00	
	Western Suburbs.	2	1,72,996.12	10	31,52,519.00	
	Eastern Suburbs.	—	—	1	2,96,000.00	
<b>9. CEMETERIES/CREMETORIUM</b>						
	City	1	7,55,429.00	1	30,49,878.00	
	Western Suburbs.	—	—	2	—	
	Eastern Suburbs.	—	—	1	—	
<b>10. FIRE BRIGADE:</b>						
	City	—	—	1	2,02,575.00	
	Western Suburbs.	—	—	1	4,26,697.91	
	Eastern Suburbs.	1	4,09,000.00	1	21,65,000.00	
<b>11. DRAMA THEATRE/TRAIN- ING CENTRE/SPORT COMPLEX.</b>						
	City	—	—	—	—	
	Western Suburbs.	—	27,20,000.00	1	6,25,557.40	
	Eastern Suburbs.	—	—	—	—	
<b>12. SWIMMING POOL</b>						
	City	—	—	—	—	
	Western Suburbs.	—	—	2	5,85,506.20	
	Eastern Suburbs.	—	—	—	—	
<b>13. MISC. WORK AIRCONDITIONING ELECTRIFICATION SLUMS.</b>						
	City	—	—	—	—	
	Western Suburbs.	—	—	—	—	
	Eastern Suburbs. (Schools).	3	1,02,000.00	—	1,02,000.00	
	Market.	—	—	1	49,000.00	
	<b>Total :—</b>	<b>25</b>	<b>56,79,882.69</b>	<b>50</b>	<b>3,39,50,927.73</b>	



Administration Report of Solid Waste Management Department for the year 1986—87 (City, Subs. & Ext. Subs.).

The Department of Solid Waste Management including the Transport Branches works under the direction and control of the Dy. City Engineer, (Solid Waste Management), He is assisted in the work by Head, Supervisor (Solid Waste Management) Dy. Head Supervisors, Assistant to the Head Supervisors and by two Executive Engineers in the Transport Wing. The Transport Wing provides for transportation of refuse and cesspool contents from unsewered areas.

**Solid Waste Management :** The service consists of Collection, removal and disposal of garbage and sweepings from the public roads, streets, footpaths and bye-lanes and maintenance of dumping grounds. The work of removal of night Soil and cesspool from unsewered areas, maintenance of public Sanitary Conveniences is also undertaken.

**Collection of Refuse, Debris etc :** All the public roads, footpaths and house gullies are cleaned daily. The quantity of refuse, debris and other waste material collected in street cleansing operations as well as from residential premises was approximately 9.47 (City) & 5.01 (Sub. & Ext. Subs.) lakhs tonnes, average per day being 2594.64 City and 1373.05 (Subs. & Ext. Subs.) tonnes. During the year, 150 City and 928 Subs. & Ext. Subs. hutment colonies situated on Government, Maharashtra Housing Board, Private and B. M. C. lands were attended to and 11930 City and 89851 Subs. & Ext. Subs. tonnes of refuse were removed from the said colonies.

**Transportation of refuse :** Transportation of refuse as collected above, was regularly carried out by engaging Mechanical traction. Total vehicle shifts employed for removal of refuse during the year are as under :—

Sr. No.	Area	Municipal vehicle.	Vehicles shifts on Contract.	Ratio.
1.	City.	37357	1,19,528	23.81
2.	Sub. & Ext. Sub.	27816	69,226	28.66

For transportation of refuse, 18 compacting vehicles which carry 1½ times more load than that carried by conventional vehicles were used.

**Disposal of Refuse :** The final disposal of refuse was carried out by reclaiming low lying land at Deonar. Total refuse dumped at Deonar from City Wards was approximately 7,33,230 tonnes. The final disposal of refuse was done by reclaiming low-lying land at Chincholi, Gorai, Esic Nagar, Chandan & Marve Road, Malad in the Western Suburbs and Deonar and Mulund in the Eastern Suburbs. Total disposal of waste in the Western Suburbs & Eastern Suburbs dumping grounds was 13,38,779 tonnes.

**Public & Private Latrines and Urinals :** During the year, 1107 public sanitary conveniences with 7947 W. C. Seats and 1006 Urinal Stalls were maintained. There exist 89 separate urinal blocks with 385 urinal stalls in the City area and 146 Urinal blocks with 636 urinal stalls in the Subs. & Ext. Subs.

**Prevention of Nuisance :** 2055 cases in the City and 842 cases in Subs. & Ext. Subs. were lodged by 90 Nuisance Detectors for offences such as urinating, defecating and throwing refuse on public roads under Section 115 of the Bombay Police Act and Rs. 1,09,400/- were recovered as fine. During the year, 1111 cases in the City and 1698 cases in Sub. & Ext. Subs. were lodged under Section 372(E) of the Bombay Municipal Corporation Act & Rs. 47,870/- & Rs. 19,240/- were levied as fines respectively in the City & Subs.

**Removal and Disposal of Dead Animals :** Bombay Khadi and Village Industries Association are the contractors for the work of removal and disposal of dead animals from areas within Greater Bombay limits. About 87139 dead animals were removed during the year.

**Conservancy Services :** Special Conservancy Services were rendered to Circuses, Exhibitions, Big concerns, Industrial Establishments, etc., on payment of scheduled charges. An amount of Rs. 13,148/- was received for rendering conservancy services.

**Conservancy stall Quarters :** 159 Labour Chawls & 9 Transit Camps in the City & 86 Chawls in Subs. with 4169 and 1905 tenements respectively were looked after and maintained for housing conservancy staff. Out of 9678 employees in the City Wards and 7501 employees in the Subs. & Ext. Subs. wards, about 43.07% and 25.40% respectively have so far been provided with accomodation and the rest of the employees are paid House Rent Allowance.

**Labour Welfare :** 31 Welfare Centres are working for the benefit of conservancy employees at different places in the City & Subs.

**Co.—operative Credit Societies for Labourers :** There are 12 Co.-operative credit Societies with an aggregate membership of 4864 members for the benefit of the labourers of S.W.M. Deptt. The share-capital subscribed was Rs. 30,69,272/-. The working of the co-operative credit societies is satisfactory.

**Expenditure on Conservancy Services for the year 1986-87 :** The total expenditure for Div. I, II & III incurred on Collection, Removal and Disposal of garbage, Cesspool and Maintenance of cleanliness of Public Sanitary conveniences, etc., during the year was Rs. 37,41,14,251.83, out of which Rs. 33,66,47,927.91 was for clearance, transportation and disposal of refuse of 14.48 lakh tonnes. The expenditure on Halalkhore Services in the City & Suburbs was Rs. 1,34,35,466.88 and 2,40,28,857.04 respectively.

The cost of removal per tonne of garbage comes to Rs. 232.00 and per capita Rs. 38/-.

**Special Features :** This Deptt. has received financial assistance from International Development Association (I. D. A.) under the Bombay Urban Development Project—I (BUDP—I). The following works have been undertaken under this project.

- 1) Mechanical Refuse Transfer Station at Mahalaxmi,
- 2) Sites & Services Programme,
- 3) Slum Upgradation Programme.

The present status of the work is as under :—

1) The design of the Mechanical Refuse Transfer Station of 1000 tonnes per day capacity at Mahalaxmi is in progress. The actual civil works & erection of plant & machinery will commence after finalisation of tender documents invitation and award of contract.

2) Purchase of Refuse Vehicles, Earth Moving Equipment and construction of two garages, mustering chowkies, etc., is included in the Sites and Services programme and the Slum Upgradation Programme. The above work is in progress and the tenders will be invited within three months.

Chief Engineer  
Solid Waste Management.

#### MUNICIPAL CORPORATION OF GREATER BOMBAY.

So far as the Solid Waste Management Department, Division—I, II, III is concerned the Statistical data regarding Revenue and Expenditure for the year 1986—87 for the City, Western-Suburbs and Eastern-Suburbs is given below.

	Division—I	Division—II	Division—III	Total
	Rs.	Rs.	Rs.	Rs.
I Revenue.	63,58,598.52	12,69,524.00	6,12,829.53	82,49,952.05
II Expenditure on Establishment.	16,73,34,493.21	7,34,81,930.00	4,01,96,952.99	28,10,13,376.20
III Expenditure from Revenue Budget.	6,26,42,429.00	1,67,59,110.00	1,10,79,482.00	9,04,81,021.00
IV Expenditure from Loan Works Budget.	1,72,743.52	7,74,310.00	16,72,801.11	26,19,854.63
Grand Total of Expenditure II, III, IV.	23,01,49,665.73	9,10,15,350.00	5,29,49,236.10	37,41,14,251.83

6) Central Library :	
A) Number of new members enrolled in the Central Library during the year 1986—87.	64
B) Number of new books purchased during the year 1986—87.	171
<b>TOTAL NO. OF BOOKS</b>	<b>4027</b>
7) Any other activity performed during the year which you deem fit for inclusion in the Report.	

The Civic Training Institute & Research Centre, (C. T. I. & R. C.) at Abhinav Nagar, Borivali (East), was ready for occupation during this year. The entire office establishment of the (Productivity Department), C.T.I. & R. C. was, therefore, shifted from the 6th Floor of the Mahanagarpalika Head Office, Extension Building to the C. T. I. & R. C. campus at Borivali (East), during September 1986. Training activities at the C. T. I. & R. C. campus were commenced from 16th October 1986.

**Budget Information during 1986—87 :**

**A—Expenditure.**

- 1) Expenditure on Establishment.
- 2) Expenditure on other Heads.

Rs. 18,11,428.96  
Rs. 1,32,731.33

**B—Revenue.**

NIL

Dy. C. E. (Productivity)

**BRIHANMUMBAI MAHANAGARPALIKA  
CIVIC TRAINING INSTITUTE & RESEARCH CENTRE  
(PRODUCTIVITY DEPARTMENT)**

**Administration Report for the year 1986—87.**

1) Training Programme conducted in Administrative, Technical, Financial and General Management Areas.	58
2) Seminars/Workshops conducted on different topics.	3
3) Project studies carried out to suggest improvements in the systems/organisation.	14
4) No. of papers presented at any Seminar/conference etc.	1

Shri R. N. Joshi, Executive Engineer from Civic Training Institute and Research Centre participated in the International Workshop on "Water Quality Management" at I. I. T. Powai, Bombay. This workshop was sponsored by the Ganga Project Directorate, Ministry of Environment and Forests (G. O. I.). Copies of his earlier paper, giving complete findings of the laboratory scale experiment with Anafil Digester Model, were circulated by the I. I. T. to all the member delegates and he was asked to share his experience in developing this new process.

The members visited the "Anafil Digester" Pilot Plant at Dadar Sewage Treatment plant, where they were explained the working and the results obtained so far.

**5) Progress Note on Pilot Plant studies at Dadar Plant :**

The construction of a pilot plant of "Anafil Digester" was completed during the year. The plant was first commissioned during May 1986. After temporary shut off for rectification works, it was restarted in September 1986. Since then, the plant has been functioning without interruption. The gas yield has exceeded the expectations based on the laboratory scale experiment. The R & D experiment with the pilot plant has to continue for a period of 3 years. The Department of Non-Conventional Energy Sources (D. N. E. S.) has sanctioned a grant of Rs. 4.04 lakhs for this experiment.

## ESTATES AND LAND MANAGEMENT DEPARTMENT.

(1)	Money spent.	Rs.	6,12,43,395
(2)	Money earned—		
	(i) Rent from tenants and lessees.	Rs.	3,72,32,072
	(ii) Other.	Rs.	1,15,93,565

### 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 Statement 'A'. The undeveloped land at present with the Corporation is approximately 494 acres which covers the land at Dharavi Scheme 56.

### B — Municipal Section.

5 Plots in Municipal Scheme have been disposed off in the year 1986-87 as shown in Statement 'C'.

The statement below indicates the progress of the disposal of the Municipal land during the previous years.

Year	No. of plots	Area in Sq. Metres.	Capital Value. Rs.
1983—84	8	15,543.50	27,04,309.25
1984—85	11	7,962.03	28,95,455.00
1985—86	5	10,789.72	46,91,344.69

### Slum Clearance.

No new tenements were completed during the year under report.

### Industrial Estates.

The construction of Industrial Estates has been taken by Corporation for rehabilitation of the Industrial Units required to be shifted from the lands required for Municipal purposes.

No new Industrial Estate has been constructed during the year under report.

### New Housing Schemes.

(1) The following new tenements were completed during the year under report :— Nil

(i) 22 Tenement in transit camp at M. P. Mills compound D Ward.

(ii) 36 Tenement at sanas Wadi Dr. Ambedkar Road E Ward.

(3) The recoveries of rents of the dormitory at Palton Road amounted to Rs. 75,078 during the year.

## DISPOSAL OF LANDS.

### (A) Lang Leases.

5 Plots were let out during the year. The total area of the land thus disposed off admeasures 9,276.03 square meters valued at Rs. 15,59,494.90. The total No. of Plots disposed off upto the end of 1986-87 were 4438 with an area of 54,83,763.57 square meters and valued at Rs. 17,31,62,641.49 yielding an annual ground rent of Rs. 82,31,278.47. The ground rent is charged at 10% per cent. On the value of land. The rate for calculating ground rent revised from 7% to 10% as per C. R. No. 2493 of 23-3-1976. The commutation is stopped from 1st July 1962.

The progress of the disposal of Trust lands on permanent basis is shown as under :—

Particulars.	No. of Plots.	Area in Sq. Mts.	Capital value. Rs.	Annual Rent. Rs.
1983-84 Plots leased on Rental basis.	8	15,543.50	27,04,309.00	76,15,934.00
1984—85 Corresponding figures.	11	7,962.03	28,95,455.00	78,96,161.19
1985—86	5	10,789.72	46,91,344.69	80,75,329.00

The amount received by way of commutation of ground rent and premium etc., during the year was Rs. 5,76,175.00.

As can be seen in the Statement 'J' vide Item No. 8 that percentage of 71.24 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 up of Rs. 71,02,638.42 pertaining to 'B' Budget and of Rs. 16,894.00 pertaining to 'A' Budget shown in statement 'D' can be classified as under :—

Sr. No.	Ground rent.	Rs.
(1)	With-held by lessees to the extent of their security deposit.	1,46,741.00
(2)	Of plots occupied by Government of Maharashtra and Defence Department.	51,381.85
(3)	Of properties vested in the Deputy Custodian of Evacuee Property.	5.00
(4)	Of plots against which disputes have been raised and cases are under consideration.	7,41,555.87
(5)	Due from Western and Central Railways.	2,07,251.67
(6)	Due from Municipal Department.	1,86,903.00.

## (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 Colonies were 4218 and 659 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. 8,23,170.00 and Rs. 24,99,101.87 and the recovery was Rs. 8,23,170.96 and Rs. 25,28,094.00 respectively inclusive of arrears.

## MANAGEMENT OF PROPERTY AND COLLECTION OF REVENUE.

### A — Trust Section.

(a) Chawl Permanent : The gross demand of tenements in the Chawls for the year was Rs. 57,22,034.55 on 31st March 1987 as against Rs. 80,44,474.31.

The concessional rent includes the rents of rooms let out to the poens of the different departments in lieu of house rent allowance and rent free quarters allotted to 193 sweepers on this department:

The Collection on account of rents from the permanent chawls during the year amount to Rs. 43,54,084.38 deducting therefrom the charges on account of outgoing amounting to Rs. 1,08,50,149.55 net loss comes to Rs. 64,96,065.25.

The Capital expenditure incurred on the chawls including the value of the land is Rs. 246 Lack. 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 13.85 per annum. after adding the amount of net loss into the amount of interest and sinking fund charges as shown in Statement 'G', the A/c. for the chawl shows a loss of about Rs. 1,48,43,849.96.

(b) Semi permanent sheds : The gross demand in respect of 7340 rooms in the Semi Permanent Sheds including Labour Camps for the year was Rs. 24,59,728.00. The net demand after excluding the concessional rent and vacancies was Rs. 24,52,317.00 which was equivalent to 157.31 per cent. of the total recoverable rent including arrears of Rs. 15,58,954.00 for the previous year.

The percentage of outgoing in respect of the Chawls and Semi-permanent sheds are shown in Statement on the basis of annual rental of Rs. 1,23,98,558.61 for chawl and Rs. 41,66,116.65 for semi-permanent sheds, total outgoing being 149.25 per cent. and 227.95 per cent respectively.

Amounts transferred to Rent Equalisation Fund and Amenity Fund were Rs. 1,78,178.00 and Rs. 59,591.00 respectively. The difference between the standard rents works 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 subsidised rents actually charged are to be met from the Rent Equalisation Fund.

Revenue collected from tenements constructed for slum clearance was Rs. 51,55,323.67 against the demand of Rs. 19,54,792.00 inclusive of arrears.

**Acquired Properties :** At the commencement of the year there were 449 acquired or surrendered buildings in charge of this department containing 6479 tenancies. At the close of the year, corresponding figures were 449 building and 6479 tenements.

The gross demand of 6479 tenements in the acquired and re-entered buildings was Rs. 23,57,314.94. After excluding the amount for concession in rent and vacancies the net demand for the year was Rs. 22,99,186.16.

The revenue collected amount to Rs. 25,28,094.00 which was equal to 183.11 per cent. of the total recoverable amount including arrears of Rs. 13,80,647.00 for the previous year.

**Summary of revenue :** The total collection of revenue from leasehold plots and rent and ground rent from Building Vacant Land tenancies and slum clearance properties are shown in Statement 'D'.

**Requisitioned Buildings :** The management and collection of rent in respect of 17 properties having 386 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. 1,53,712.85 and the recovery was Rs. 51,919.12 which was equal to 33.78 per cent of the total recoverable amount.

During the year under review, the demand and recovery of taxes aggregated to Rs. 4,65,133.78 and Rs. 7,982.72 respectively. The arrears due for collection at the close of the year stood at Rs. 4,57,151.06.

## B — Municipal Section.

Details of the total collection of revenue from Municipal properties under Budget 'A' are shown in Statement 'D'.

Tenements constructed under Budget 'A' for Municipal General Staff are shown in Statement 'H'.



**STATEMENT 'B'.**

Statement of permissions granted in respect of lease plots for 1986—87.

Description.	No. of proposals.	Premium in Rupees.	Extra ground rent in Rupees.
Motor Garage.	9	...	2,964.00
Additional Floors.	19	...	2,99,285.00
Change of user & Misc. proposals such as encroachments, canopies, temporary structures, Gallery projections, Ota projections, loft, Mezzanine floors, etc.	17	1,571.25	86,495.00
Transfer fees.	...	...	8,000.00

**STATEMENT 'C'.**

Number of Plots disposed off in the different Municipal Lands in the City during 1986—1987.

Sr. No.	Particulars of land.	Plot No.	Area in Sq. Mts.	Capital value in Rs.	Ground rent per annum in Rs.
<b>Municipal</b>					
1.	Plot of land at Jerbai Wadia Road, Bhoiwada Parel.	...	1,337.00	1,84,171.75	18,417.17
2.	Viswashanti Budha Vihar Raoli Camp Sion	...	359.52	2,32,200.00	23,220.00
3.	Deonar Ancillary Industrial Estate.	22 to 24 & 90-91	4,315.76	8,19,994.40	81,999.44
4.	—DO.—	72	2,633.75	2,02,798.75	20,279.87
5.	—DO.—	73	630.00	1,20,330.00	12,033.00
Total		5	9,276.03	15,59,494.90	1,55,949.48

**APPENDIX No. 3.**

Statement showing the disposal of Ex-Trust Plots during 1986—1987.

Particulars.	No. of Plots.	Area in Sq. Mts.	Capital value in Rs.	Annual rent in Rs.
Plot leased on Rental basis.	...	...	...	...
Plots disposed off in 1985-86 earlier but surrendered to the Municipal Corporation.	...	...	...	...
Corresponding figures for disposal of Plots.				
1985—86.	5	10,789.72	46,91,344.69	1,79,167.80
1984—85.	11	7,962.03	28,95,455.00	2,80,226.50
1983—84.	...	...	...	...



"J" Comparative Statement of demand, collection, etc. in respect of permanently leased plots.

Sr. No.	Particulars.	1984	1985	1986	1987
(1)	Number of Tenancies.	4417	4428	4433	4438
(2)	Balance of arrears in lacs of rupees.	10719	12543	11472	15076
(3)	Demand for the year in lacs of rupees.	7308	7511	8871	10211
(4)	Total demand including arrears in lacs of rupees.	18027	20054	20344	25287
(5)	Amount collected in lacs of rupees.	5753	10368	6672	18016
(6)	Percentage of collection to the demand including arrears.	31.91	50.69	32.80	40.38
(7)	Percentage of collection to the demand for the year.	78.72	138.03	75.21	59.62
(8)	Percentage of arrears to amount for collection.	59.46	61.31	204.92	71.24

"F" Statement of percentages of outgoings in respect of Chawls and S. P. Sheds.

Particulars.	Permanent Chawls.		Permanent ground floors rooms and	
	1985-86	1986-87	1985-86	1986-87.
Sanitary Staff and Pumpmen.	31.90	29.56	76.56	75.50
Cost of Management & Establishment.	7.50	7.50	7.50	7.50
Municipal Rates and Taxes.	35.44	13.00	54.37	53.10
Repairs and Maintenance including lighting, vacancies.	111.09	99.19	99.18	91.85
Total	185.93	149.25	237.61	227.95

"D" Summary of Revenue of Properties for the year 1986—1987  
(000 omitted).

Particulars.	Properties under 'B' Budget.			Properties of 'B' Budget under Slum Clearance.			Properties under 'A' Budget.		
	Perma- nent.	Temporary.	Total.	City	Suburbs	Total.	Permanent.	Temporary.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Demand for the year.	278	8770	9048	3648	1954	5602	9933	11495	21428
Arrears as on 31-3-87	168	10770	10938	3009	3221	6230	7102	11347	18449
Totals.	446	19540	19986	6657	6175	11832	17035	22842	39877
Amount collected.	437	8033	8470	3487	1933	5420	17578	11182	28760
Variation in Demand for the previous years.	+65	+720	785	239	784	1023	1339	618	1957
Carried out during the year.	...	101	101	287	...	287	...	116	116
Amount written of.	...	...	...	...	1000	1000	...	5395	5395
Arrears as on 86.	262	9414	9678	2896	2415	5311	13408	10533	23941
Arrears as on 85.	204	9738	9942	3182	2311	5493	9482	10726	20208
Arrears as on 84.	9348	10087	19435	3279	2482	5761	301	8415	8716

## MUMBAI FIRE BRIGADE

### SALIENT FEATURES :

Expenditure	: Rs.
Income	: Rs.
Fire Stations.	: 21.

### EMERGENCY CALL :

Fires : 3067;	House Collapse Calls	: 391;
Rescue Service Calls : 472		
Other Service calls : 1346.		
False Alarms : 115		
<b>TOTAL :</b>		<b>5391.</b>

### AMBULANCE CALLS :

Accidents.	: 1001; Maternity : 165;
Free for Fire Brigade Staff	: NIL; Free for poor Cases : 2;
Hire	: 909;
<b>TOTAL : 2077.</b>	

### FIRE PREVENTION WORK :

Premises inspected for rendering advices on fire protection and fire prevention measures.

The high lights of the administrative events for the year under report are as under :—

#### (1) Income & Expenditure :

The annual receipts by way of fire tax and other receipts aggregated to Rs. . . . .

The total expenditure including Revenue Expenditure and Debt charges towards Capital Expenditure amounted to Rs. . . . .

#### (2) Premises :

##### (a) Fire Stations :

There are 21 fire stations including newly commissioned Fire Station at Malad, Marve Road on 12-5-1986.

(b) Remodelling of Memonwada Fire Station is in progress and 90% of the work has been completed.

(c) Pile Foundation work of Bandra Fire Station and Fire Station at Back-bay Reclamation has been completed.

#### (3) Communications :

There were no major changes in the existing communications set-up.

#### (4) Appliances and Equipment :

Supply orders for the supply of the following appliances were placed during the year and some of them were received.

##### (i) Hydraulic Platforms (30 mtrs. height) :

One complete unit received from M/s. kooverji Devshi & Co. Pvt. Ltd., after body buildings and brought into commission.

##### (ii) Breathing Protection Equipment :

a) P. A. 80 P.—100 Sets.

b) P.A. 80 Quick P.—20 Sets.

c) Panorama Nava Mask—25 Pieces.

##### (iii) Ambassador Car : 2 Nos.

##### (iv) Power Chain Saws : 10 Nos.

##### (v) Tata Model LPT 1210 E/42 Full forward Truch Chassis : 9 Nos.

##### (vi) Angus 464 Ladders 9 Nos.

##### (vii) Radio Telephone Test Set—1 Set.

##### (viii) Thruline R. F. Wattmeter — 1 No.

##### (ix) Flot Charger (V. H. F. Wireless Sets) — 5 Nos.

##### (x) APLAB Fixed output Power Supply Model 7412, 12 Volts, 8 Ampers — 15 Nos.

**(5) Emergency Calls :**

The Brigade responded and rendered services wherever necessary at a total of 5391 incidents, the break up of which is given below :—

Fires—3067; House Collapse Calls—391;  
Rescue Service Call—472; False Alarms—115;  
Other Service Call—1346.

The above two calls in outside Municipal Limit; one is House collapse on 23/6/1986 at Messrs. Beckalene Fabrics Pvt. Ltd., M. I. D. C. Estate, Taloja, Near Thane and another fire on 16/6/1986 at Kumar Printing Works, Shah Gangji Punshi Industrial Estate, Western Express Highway, Village Kasi, Post—Mira, Dist.—Thana.

**(6) Casualties :**

The number of casualties in fires and other incidents is given below :—

Type of Incident	Dead	Injured	Total
Fires	107	307	414
House Collapse Calls	15	138	153
Rescue Service Calls	117	141	258
Other Service Calls	117	278	5
	<u>717</u>	<u>864</u>	<u>830</u>

**NOTE :** Out of 107 deaths in fire 53 were suicide cases, out of 117 deaths in Rescue Service, Calls, 95 were due to drowning.

**(7) Casualties Among Brigade Personnel :**

A total of 11 Brigade Personnel—sustained injuries while rendering services at different emergencies.

**(8) Fire Loss :**

The property losses due to fire were estimated at Rs. 1,96,84,415/- Total property involved in fires and saved by Brigade was estimated at Rs. 5,79,88,2049/-

**(9) Water Supplies and Sources :**

The approximate quantity of water used for extinguishing fire was 1,85,100,10 Ltrs. Out of which 95,56,205 Litrs. was drawn from Municipal Mains and rest from sea, wells, ponds, and private sources.

The total number of hydrants in the City and Suburbs were 12705.

**(10) Ambulance Services :**

The ambulance services, comprising of 11 ambulances, continued to attend hire calls, maternity calls, etc. in addition to fires and other emergencies. The details of calls responded to by the Ambulance service are given below—

Accident Calls	— 1001;	Hire Calls	— 909;
Maternity calls	— 165;	Free for Brigade staff	—NIL.
Free for poor cases	— 2		
<b>TOTAL :</b>	<b>2077.</b>		

In all 1309 persons were removed in Ambulances and first-aid to the injured was rendered on 66 occasions. The total receipts during the year on account of Ambulance hire charges aggregated to Rs. 19,576/-.

(11) The details of the number of Fire Prevention cases received, their classification etc., are furnished below :—

Year	Total Cases received	Total cases disposed off
1985-86	9316	8565
1986-87	8963	8426

(11-A) Type of Fire Prevention Cases received during the year 1986-87.

Total cases received	Cases disposed off	Type of Cases	Nos.
8963	8426	1) Reference licence, factory & Health Department of the Corporation.	6491
		2) Places of public entertainment & Bldg. N. O. C. Cases.	752
		3) Reference from the Commissioner of Police, Controller of Drugs, Explosive & other N. O. C. cases.	372
		4) Complaint cases.	903
		5) High Rise Building N. O. C. Cases.	445

(12) Deputation of Fire Officers :

(a) Shri V. B. Nikam, Chief Fire Officer, was deputed to attend "Fire-1986", International Conference at Glasgow, United Kingdom, in September 1986 *vide* Standing Committee Resolution No. 1038, dated 27th August 1986 and Corporation Resolution No. 369, dated 1st September 1986. Shri Nikam was also permitted by the Municipal Commissioner to undertake a study tour of some of the premier institutions connected with Fire Service profession in some of the countries of Europe after the Conference was over.

The technical papers presented at the Conference and the details elicited by eminent professionals and delegates during the discussions have given a comprehensive and exhaustive picture of the recent developments on various aspects of fire service operations, management of Fire Services etc., and the exhibition of various types of fire equipment/appliances, personal protection equipment, de-contamination units etc., communication and data processing equipment, auxiliary equipment used in the Fire Services, Breathing Apparatus Equipment, etc., represented the recent development and improvements in their design and construction.

The comprehensive and exhaustive information received as mentioned above would go a long way in developing various aspects of this Brigade.

(b) Station Officers Shri K. A. Kadam and Shri A. Y. Gadade were deputed to N. F. S. C., Nagpur to attend Divisional Officers' Course.

(c) Station Officers, Shri S. H. Shinde and Shri P. P. Sawant were deputed to N. F. S. C., Nagpur to attend Station Officer's and Instructors Course.

(d) Shri G. N. Sawant, divisional Officer, was deputed to participate as delegate at 3rd Training Conference at National Fire Service College, Nagpur.

During the Training Conference, various aspects in orders to upgrade the standard of National Fire Service College were discussed. Shri Sawant had expressed the opinion that services of qualified experienced Officers from different Fire Services shall be utilised for specific period and not on deputation for period of two years as desired by some of the members and also advocated to have All India Level Professional Competition Drill.

Shri N. A. Khatib, Dy. Chief Fire Officer, continued to be on deputation to the Reserve Bank of India, Mumbai.

**(13) Other activities :**

**(a) Annual Fire Drill Competitions :**

Due to certain unavoidable circumstances and heavy schedule of Centenary Celebrations, Fire Drills Competition could not be organised in 1986-87.

**(b) Annual Sports :**

The Annual sports tournaments in various games and athletic were conducted and staff from every Fire Station participated. The Annual sports day was held on 28th December, 1986 at the Topiwala National Medical College Ground, Haji Ali. Shri S. S. Tinaikar, Municipal Commissioner, was the Chief Guest. Prizes were given at the hands of Smt. Maya Tinaikar to the winners of various events. The sports events were successfully organised with the assistance of Shri Gole, Shri Patel besides the Brigade Officers and staff members.

**(c) Observance of Prevention Week :**

The annual events of Fire Service Week (8th April to 13th April, 1987) and Fire Services Day (14th April 1987) were observed by the Brigade in close co-ordination with the other Fire Services in Greater Bombay with the active co-operation of All-India Fire Equipment Manufacturers Association. Number of fighting demonstrations were arranged in different localities in Greater Bombay. Lectures on Fire Prevention for various groups of people were delivered, posters and pamphlets were distributed freely and slides were exhibited on T. V. Discussion and talks were broadcast on All India Radio and Doordarshan. All these activities were aimed at increasing the awareness of the fire hazards and to promote the knowledge of Fire Prevention among the Citizens.

**(d) Centenary Celebrations :**

Though the origin or organised Fire Protection Services in Mumbai could be traced as far back as 1777 and that for many years, these Services were being rendered by the Police Department, a full-fledged Fire Brigade Department came into existence in Mumbai on 1st April, 1887 under the control of Brihanmumbai Mahanagarपालिका. Taking this as a datum line, the Brigade was to complete 100 years of service on 31st March, 1987. In view of the tradition, glorious services and the historic milestone of 100 years, the Brigade has planned to celebrate its Centenary in a humble but befitting manner. The main aspects of the celebrations planned for this occasion are briefly mentioned below.

(i) Inauguration of Centenary Celebrations by His Excellency, the Governor of Maharashtra at Shivaji Park Maidan with the Guard of Honour, March-past by combined Parade of various Fire Services in Brihan Mumbai.

(ii) Minting of Centenary Medal in Commemoration of the Centenary to be worn by all the Ex-Chief Fire Officers and all officers and men of the Brigade who were in service on 1st April 1987.

(iii) Printing of a set of picture postcards depicting various types of fire and rescue appliances of the Brigade with different backgrounds of historic buildings in Mumbai.

(iv) Printing of a Brochure containing the historic details and various activities of the Brigade.

(v) A three day exhibition of fire and rescue appliances/equipment at Shivaji Park Maidan.

(vi) Commissioning of a Mobile Dispensary for the benefit of the employees of the Brigade and their families.

(vii) Unveiling of a large-size hoarding at the site of Bandra Fire Station, dedicating the same to increased awareness of fire hazards and fire prevention among the citizens.

(viii) Commissioning of a Photographic section at Fire Brigade Headquarters, Byculla.

(ix) Re-naming of "Marol Maroshi Road" as "Agni-Shaman Dal Marg" in recognition of the glorious services rendered by the Brigade over a period of 100 years.

(x) Issue of a commemorative postal stamp.

**(e) Republic Day & Maharashtra Day :**

The Brigade participated in the ceremonial parades organised on Republic Day and Maharashtra Day alongwith Police, Home Guards, Civil Defence Department.

**(f) Awards :**

During the year under report, the following Officers and men of the Brigade were the recipients of the National Award, "Fire Service Medals for Meritorious Service" on the eve of the Independence Day.

(i) Fire Service Medals for Meritorious Service.

(a) Shri D. S. Mulye, Divisional Officer.

(b) Shri P. M. Sawant, Sub-Officer.

(c) Shri G. S. Thakur, Foreman.

**(14) Fire fighting training to Outside candidates :**

Candidates undergoing various Courses were deputed to this department for practical attachment as well as Industrial Tours to study Fire Prevention and Protection measures adopted by various Industries in Brihan Mumbai. The courses are :—

(a) B. E. (Fire).

(b) Sub-Officers' Course.

(c) Station Officers' & Instructors' Course.

(d) Divisional Officers' Course.

Candidates of the Budget Estimate (Fire) Course were deputed in two batches for a period of three months. For other Courses the candidates for a short period ranging from two weeks to six weeks were deputed to this department.

Candidates undergoing training at Home Guards and Civil Defence Training Centre, Cross Maidan were deputed for study of working of this department every months

Fire fighting demonstrations were arranged during the year for the benefit of the candidates from Local Self Government and also for school children from a number of schools in Brihan Mumbai.

**(15) Welfare Activities :**

(a) Scholarship to the children of the staff members were given from the interest accrued on the "Grain Stores Fund" deposited in the Bank.

(b) 'Balwadi' a Nursery School, is conducted at Welfare Centre at Fire Brigade Headquarters, Byculla for the benefit of children of staff members

(c) Sewing Classes are conducted at the Welfare Centre for the benefit of family members of the staff

(d) Education tours staging of dramas/plays, and picnics were arranged for the children of staff members.

## APPENDIX—I

Statement showing the details of appliances and equipments during the year 1986-87.

Sr. No.	Type of appliances	Quantity	Remarks
1	2	3	4
1	<b>Motor Turn Table Ladders :</b>		
	(a) 30 Mtrs. extension (T.T.L. 1, T.T.L. 4 and D.L. 30).	3 Nos.	
	(b) 37 Mtrs. extension (T.T.L. 3 & DL 37).	3 "	
	(c) 50 Mtrs. extension (DL 50)	1 "	
2	<b>Hydraulic Platforms :</b>		
	(a) 30 mtrs. Height	3 "	
	(b) 16 mtrs. Height	4 "	
3	<b>Motor Pumps :</b>		
	(a) With wheeled escape or Angus 464 Ladders	27 "	
	(b) With extension Ladders	35 "	
4	<b>Emergency Rescue Tenders :</b>		
	(a) Motor Emergency Tenders	1 No.	
	(b) Rescue Tender (Model RW1)	2 Nos.	
	(c) Rescue Tender (Model RW2)	1 No.	
5	<b>Breathing Apparatus Van</b>	1 "	
6	<b>Control Post Van</b>	1 "	
7	<b>Water Tankers :</b>		
	(a) Fixed Chassis type (Rigid).	4 Nos.	
	(b) Tractor with trailer type	7 "	
	(c) Tankers on trailer only (spare)	5 "	
8	<b>Pumps :</b>		
	(a) Trailer Pumps (400 g.p.m.)	18 Nos.	
	(b) Portable Light pumps (120 g.p.m.)	10 "	
	(c) Portable High Pressure pumps (400 g.p.m.)	14 "	
	(d) High Pressure pump on Trailer (Kirloskar make)	2 "	
	(e) Portable Fire pumps (1200 lts./minute capacity)	20 "	
9	<b>Motor Ambulances :</b>	11 "	
10	<b>Breathing equipments :</b>		
	(a) Compressed Air type Breathing Apparatus (open circuit)	210 Sets	
	(b) Compressed Air Type Breathing Apparatus (Quick).	20 "	
	(c) Oxygen type Breathing Apparatus (closed circuit).	25 "	
	(d) Gas Masks (Filter type).	42 Nos.	
	(e) Breathing Aire Compressor	1 Unit	
	(f) Test Bench for compressed Air Breathing Apparatus.	Unit	
11	<b>Air Compressor (Industrial Type on Trailer for operating pneumatic tools</b>	1 "	
12	<b>Power Cutters (Self-propelled)</b>	5 Nos.	
13	<b>a) Rescue Saw (Self-propelled)</b>	3 Nos.	
	<b>b) Reacue Saw(Electrical Operated).</b>	10 "	
14	<b>Portable Electric Generators.</b>	2 "	
15	<b>Automatic Fire Escape (Day's make).</b>	5 Nos.	
16	<b>Pneumatic Lifting Bags (different sizes).</b>	11 Sets	
17	<b>High Expansion Foam Generators</b>	4 Nos.	
18	<b>Protective Clothing Suits</b>	100 Nos.	
19	<b>Delivery House (RRL Type) in stock :</b>		
	(a) 2¾" dia.(70 mm)	2,8485 Metres	
	(b) 1½" dia.	8985 "	
	(c) Delivery Hose (Nylon type) in stock 2¾" dia.	600 "	
20	<b>Other Vehicles :</b>		
	(a) Jeeps	19 Nos.	
	(b) Mini Buses	3 "	
	(c) Cars	4 "	
	(d) Station Wagon	1 No.	
	(e) Staff Van	1 "	
	(f) Motor Trucks	2 Nos.	
	(g) Three Wheeler Tempo	1 No.	
	(h) High Pressure Pump vans (Tempo).	4 Nos.	



**APPENDIX — II**  
**MUMBAI FIRE BRIGADE**

**Brief Details of serious Fires during the year 1986-87.**

Sr. No.	Date & Time	Place	Business	Extinguished by	Description of Damage	Estimated loss in Rs.
1.	2.	3.	4.	5.	6.	7.
1.	11-4-86	Nari Sevasadan Road, Near Home Guards Office Hill No. 2, Narayan Nagar, Ghatkopar (W), Bombay-400 086.	Gunny bags marchant, Gunny bag godown.	Firemen with four motor pump.	A large stock of H. D. plastic scraps, gunny bags, office records, files, account records files, accounts records, portion of G. I. sheets, brick wall, window & door, electrical installations etc., severely damaged by fire, heat, smoke & water.	9,00,000/-
2.	12-4-86	M/s. Jolly board Ltd. Kanjur Marg, Bhandup (E) Near Railway Station, Bombay-400 078.	Mfgs. of Hardboards, Softboards & Bye products.	Firemen with five motor pumps & by cutting off current.	A large stock of instalation boards and large stock of venners, portion of S. C. sheet roof, wall, steel frames, portion of window shutters, paint works, electrical installation etc, severely damaged by fire, heat, smoke & water.	13,00,000/-
3.	10-5-86 0724 hrs.	Allarkha Mederbux and Sona, Plot, No. 3, Kidwai Nagar, Near Green Masjid, Wadala, Bombay-31.	Dying, bleaching painting of cloth yarn & cloths.	Firemen with the help of five lines of seven motor pumps.	The fire involved various types of machinery used for saree printing, boiler, diesel and kerosene tanks, with fuel, huge stock of printed sarees and gray cloth, ancillary goods, electrical installation and entire timber framed structure etc., severely damaged by fire.	6,00,000/-
4.	10-5-86 2020 hrs.	Thacker Industrial Estate, Near Sitaram Mill Compound, N. M. Joshi Marg, Byculla, Bombay-11.	Manufacturing of readymade garments.	Firemen by four lines of eight motor pump.	A large stock of readymade garments, raw materials, ancillary goods, sewing machines, steel and wooden office, furniture, office records, electric fixture, doors, windows shutters etc. severely damaged by fire, heat, smoke & water.	5,67,800/-
5.	27-5-86	L. B. S. Marg Shivaji Kutir Mandal, Kurla, Bombay-70.	Scrap dealers, Mfg. of wooden boxes, paper	Firemen with help of of eight engine lines of twelve boxes motor pumps.	The fire involved large stock of cotton rags, cotton waste, drums of oil, and acids, gunny bags, paper waste and paper rolls, plastic material, waste rubber, wooden boxes, iron scraps, empty bottles etc., in twenty two ground floored, partly A. C. Sheet, timber framed structures severely damaged by fire, heat, smoke and water.	1,64,000/-
6.	29-5-86 1622 hrs.	82, Veer Nariman Road, Nagin Mahal, Churchgate, Bombay-20.	Commer- cial Office.	Firemen with five engine lines of five motor pump.	Electric wiring, and installation, A. C. machines, large stock of wooden & steel furniture, office records, type writer machines, fans, etc. severely damaged by fire, heat, smoke & water. Paint work all over area severely damaged by fire, heat, smoke & water.	15,20,000/-
7.	11-6-86	Acme Synthetic chemicals, Rammandir Road, Goregaon West, Bombay-400 104.	Mfg. of Industrial & fine chemicals.	Firemen with four line of five motor pump.	Large stock of various chemical in the drums distallation kettles, boiler, washing tanks and other machinery. Entire ground floored, brick walled, A. C. roof structure, electric installation severely damaged by Fire, heat, smoke and water.	4,50,000/-
8.	15-6-86	Voltas Ltd. Lalbaug Industrial Estate, Dr. B. A. Road, Chinchpokli, Bumbay-400 012.	Motor & Trans- forund plant.	Firemen with six line of eight motor pumps & by cutting off current.	Transformer oil, machinery, electric wiring, electric motors, in a ground floored structure, housing motor & transformer plant were damaged in fire.	2,00,000/-

1.	2.	3.	4.	5.	6.	7.
9.	5-7-86	A motor Truck No. PAT 981, at Eastern Express Highway, Opp. Godrej Colony, Vikhroli (East), Bombay.	Transport.	Firemen with two Motor pump.	The rear side body and driver's cabin tyres, different types of chemicals, filled in carboys, plastic cans, crates of motor parts, other goods, severely damaged by fire, heat, smoke & water.	3,00,000/-
10.	7-7-86 0440 hrs.	Mahatma Phule Market, (Crawford Market) Mata Ramabai Ambedkar Road.	Fruit dealers.	Firemen by cutting off current & with 14 motor pump.	Fire involved large stock of fruit baskets, packing materials such as grass, papers, cartons, records, wooden & steel furnitures, textile goods, domestic appliances, electric installation doors, and windows, C. I. sheet roof, wall etc. of ground floored shed as well as two floored market bldg. on an area of 200 Sq. ft. X 100 Sq. ft.	9,45,000/-
<b>CASULTIES :</b>						
Kumar Ram Dube, aged about 16 yrs. staying in gala No. 6, in the ground floored shed was trapped under gala & died. The dead body was handed over to police.						
11.	13-7-86	Khetani Industrial Premises Co-Op. Society Bazaar Ward, Magan Nathuram Road, Kuria (W), Bombay-70.	Godowns, Parel Soap Factory Mfg.	Firemen with eight engine lines of twelve motor pumps.	The fire had involved a total of two galas on an area about 150' X 100' in ground floored, brick walled, A. C. Sheet roof, Industrial Estate bldg. One gala was being used for mfg. cement paints & printing inks as also for analytical and quality control laboratory. The other gala being used for stamping and packing soap cakes and keeping plastic goods. Large quantity of solvents, printing inks, pigments, mounded luggage, soap wrappers etc. doors, windows, A. C. sheets roof etc., severely damaged by fire heat, smoke & water.	1,00,000/-
12.	12-8-86	M/s. Roman Chemicals, 1st floor, A-1 Industries M. V. Road, J. B. Nagar, Andheri (E), Bombay-400 059.	Mfg. of Chemicals & Electronic weight machine.	Firemen with six engines line of eleven motor pumps.	The fire involved various chemicals and acids kept in the glass bottles, carboys, metal drums, etc. distillation jars, electrical heating equipment and other electrical installations, metal racks, office furnitures, and records, etc. severely damaged by fire, heat, smoke & water.	1,00,000/-

**CASUALTIES :**

- 1) Smt. Kalpena Krishna Mankar, aged about 30 yrs.
  - 2) Miss Pushpalata Ankush Dhuri aged about 35 yrs.
- Both the womens sustained injuries all over the body. At the time of the fire, both the women were working in the factory. The bodies of the two women were handed over to police.

1.	2.	3.	4.	5.	6.	7.
13.	16-9-86	78, Mandie Lane, Shivaji Kutir Mandal, L. B. S. Marg, Kurla (W), Bombay-70.	Mfg. of wooden cable wheel corrugated boxes steel wishers scraps god-own Old plywood stock, eating house, waste paper marchant wooden shelves.	Firemen with eight motor pumps.	The fire had involved various type of scraps such as plastic timber, metal, waste paper etc., various trades such as eating house, Manufacturing corrugated boxes etc., with cardboard sheets, plastic sheets, bamboo matting, C. I. sheets, timber partition etc. severely damaged by fire, heat, smoke & water.	2,41,000/-
14.	24-9-86	Vasan Udyog Bhavan, Sanapati Bapat Marg, Worli Bombay-25.	Mfg. Ready-made garment.	Firemen with three lines of the appliances.	Large stock of garments, cotton fabrics, sewing machines, typewriter, blank office papers, severely damaged by fire, heat, smoke & water.	2,25,000/-
15.	30-9-86	M. V. Chidambaram, a scrap ship at Kolsa Bunder, Road, Sewree, Bombay-15.	Scrap passenger ship.	Firemen with four lines of four motor pumps.	Large quantity of timber material, other wooden material, life jackets papers, different type of goods stationary, mattresses & office furnitures in the B. C. D. E & F Decks of the ship at the East side severely damaged by fire, heat, smoke & water.	2,00,000/-
16.	13-10-86	Kishorchand & Co. 118, G & H Shivdas Chapshi Road, Hanuman Wadi, Bombay-400 009.	Ware housing.	Firemen with two small engine lines of four motor pumps.	The fire involved large stock of bleaching powder, brick walls, doors, windows, and G.I. Sheet roof of the structure.  In this fire 31 persons were overcome by chlorin fumes.	1,40,000/-
17.	20-10-86	I. B. Patel Road, Universal Industrial Estate, Goregaon (E), Bombay-63.	Electronic trader Mfg. of Lighting & fittings, printing press & stationeries.	Firemen with seven jets from four motor pumps.	Wooden furnitures, electric goods, iron spare parts, packing materials, cardboard boxes, paper reams, electric items, rubber goods, some stock of cloth, foam, rubber, etc. severely damaged by fire, heat, smoke and water.  Window frames, doors, shutters, electric installations, and fixtures, etc., severely damaged by fire, heat, smoke & water.	2,27,400/-
18.	26-10-86	M/s. Mafatlal fine spg. & Mfg. Co. Ltd., Unit No. 2, Mount Road, Mazgaon, Bombay-10.	Textile Mills.	By eleven water lines of eleven motor pumps. Five water lines of Mill hydrants & one water line of Civil Defence.	The fire had involved large stock of cotton viscos and polyster, Fibre bales, in a ground floored, brick walled timber trusses, A. C. Sheet roof of area about 200' x 100'.	16,00,000/-
19.	27-10-86	Regal Industrial Estate, Galla No. 105, 1st floor, Acharya Donda Marg, Sewree, Bombay.	—	Firemen with four line of sub pumps.	The fire involved large stock of wooden pencils, some liquid chemicals, machinery electric wiring, office furniture, office records, loft, doors, window etc. due to hot gases and dense smoke. Eleven persons were injured. They were removed to hospital. Out of eleven persons removed to K. E. M. Hospital, Seven were detained for treatment and four were treated and allowed to go.	11,66,000/-

1.	2.	3.	4.	5.	6.	7.
20.	2-11-86	Asian Chemical Compound, Subhash Nagar, Opp. Caves Road, Jogeshwari (East).	Ball pen & packing articles.	Firemen with eight jets from seven motor pumps.	The fire involved plastic raw material, finished goods machinery, electric installation and fixtures, Office records, doors and windows.	3,18,000/-
21.	9-11-86	Sahar International airport Terminal No. II, Sahar, Bombay-400 099.	Airport Authority.	Firemen with five engine lines of five motor pumps & four engine line of Airport Fire service.	The Fire had involved one readymade garment shop, on the large size leather goods shop, one large size store room of the I.A.A.I. escalator, false ceiling, Air conditioning ducting, electrical installations, furniture items on the mezzanine floor, false ceiling and wall panelling, A. C. ducting and electrical installation of the 1st floor level. The contents in the neighbouring shops are suspected to have suffered minor water and smoke damage.	13,35,000/-
22.	14-11-86	12, Hirabai Compound, Charapdex cross Road, No. 1, Bombay-400 010.	Godown.	Firemen with three lines of three motor pumps.	The A. C. sheet roof, wooden window frames electric wiring, office cabin, severely damaged by fire, heat, smoke & water. The large stock of empty corrugated boxes and sheets, wooden materials, office furniture, records and office file severely damaged by fire, heat, smoke & water.	3,00,000/-
23.	21-11-86	Ceat Tyers of India Ltd., Village Road, Bhandup (West).	Mfg. of tyers.	Employees with ten dry powders, four CO2 & two foam fire extinguishers.	Some stock of foam rubber goods, some miscellaneous materials, etc., severely damaged by fire, heat, smoke & water.  Electrical wiring & cables of the machines & switch board severely damaged by fire, heat, smoke & water.	1,00,000/-
<b>CASULTIES :</b>						
Mr. Bir Bahadur Singh, aged about 33 yrs- received miner burn injuries on face and Mr. Sakhadevsingh Sheera aged about 40 yrs. minor injuries on left leg were treated in Factory's dispensary. However they refused to go to hospital.						
24.	1-12-86	3, Maheshwari Darshan, Bldg. No. 1, Swami Vivekanand Rd., Santacruz (W), Bombay-54.	Nursing Home.	Firemen with three motor pumps.	Household articles, wooden frames, electrical fixtures, steel and wooden furniture, L.P. gas cylinders, A. C. machines, refrigerator, stock of medicine, bed sheets, gas segrees, etc., severely damaged by fire, heat, smoke, and water. Some portion of ceiling walls, doors, windows, etc., severely damaged by fire, heat, smoke & water.	1,70,000/-
25.	23-12-86	M/s. Rajkamal Circus, Opp. E. S. I. S. Hospital, Akurli Road, Kandivali (E), Bombay-400 101.	Circus Show.	Eight motor pumps & by cutting off current.	Two tents, number of chairs, carpets, nylon nets, decorative material, nylon and manila ropes, curtain cloth, wooden planks of gallery, electric installation, electric lights, other decorative materials, severely damaged by fire, heat, smoke and water.	8,00,000/-

1.	2.	3.	4.	5.	6.	7.
26.	23-12-86	12, Nanabhai Lane, Bharat Fertilizer house, Fort, Bombay-23.	Private.	Firemen with five engine lines, two hydraulic plat- form from motor pump.	Fire involved office furniture, office records, files, typewriters, electrical fixtures, and electrical installations, major portion of tiled roof, wooden partition and loft.	2,55,000/-
27.	2-1-87	Sonapur Hutments, Sion Panvel Highway Road, Near Mankhurd Rly. Stn., Mankhurd (E), Bombay-43.	—	Firemen with seven motor pumps.	Large quantity of high speed diesel oil, floating and flowing in the nallah and creek waters burnt in fire. Household articles, gar- ments, hutments, etc., severely damaged by fire, heat, smoke & water.	2,92,000/-
28.	26-1-87	Electron House, Opp. Globe Mill passage, Century Bazar Lane Worli, Bombay-400 025.	Garment Mfg.	Firemen with eleven motor pumps with eight lines.	The fire involved sewing machines, ready- made garments, fabrics, paper, packing material, laminated sheets, spare parts of machinery, plastic articles, electric wiring, doors, windows, lofts of part second & & third floors.	1,15,000/-
29.	6-3-87	Liberty oil mills, L. B. S. Marg, Ghatkoper (W), Bombay-70.	Chief Agent for State Govt. under Cotton monopoly procurement	Firemen with Five Motor pumps.	Some stock of cotton bales severely damag- ed by fire, heat, smoke & water.	8,02,000/-

## APPENDIX — III

## Brief details of serious house collapses during the year 1986-87.

Sr. No.	Date & Time	Place	Death	Injury	Description
1.	2.	3.	4.	5.	6.
1.	6-4-86 16.43 hrs.	S. K. N. Brick Factory Compound Tembi Pada Road, Gadhav Naka, Bhandup (W), Bombay-78.	—	3	On arrival at the scene of incident, it was seen that a ground floored, brick walled structure along with overhead static tank had collapsed. There by three children were injured.
2.	8-5-86 18.41 hrs.	8, Kamathipura, 6th Lane, Shankar Pupal Marg, Bombay-8.	—	1	On arrival at the scene of incident, it was noticed that, portion of 2nd floor flooring, in a living room had collapsed in first floor living room causing minor injury to a person.
3.	16-5-86 07.52 hrs.	83, Sitaram Poddar Marg, Purushottam Building, Fanaswadi.	1	5	On arrival at the scene of incident it was noticed that, rear side portion of the three floored building, two rooms on 2nd floor and one room on 1st floor had gave away causing injury to six persons.
4.	18-6-86 11.09 hrs.	Shivsena Nagar No. 4, Jarbai Wadia Road, Opp. Vithal Mandir, Sewree, Bombay-15.	—	2	On arrival at the scene of incident it was noticed & learnt that, six hutment of brick walled & tiled roof with wooden Battons has been collapsed. Two girls were reported injured.
5.	20-6-86 08.58 hrs.	Bombay Prabhadevi Telephone Exchange, Vir Savarkar Marg, Worli, Bombay-25.	—	2	On arrival at the incident, it was reported, that a Pvt. compound brick walled had collapsed on the Patra shed hut in the adjoining compound, thereby two persons received injury.
6.	21-6-86 13.54 hrs.	Kavani Chawl, R. No. 37, Ground floor, 447 Sane Guruji Marg, Bombay-34.	—	3	On arrival it was noticed that, the complete ceiling portion of R. N. 37 on ground floor of a ground and one upper floored building had collapsed. As a result three persons reported injured.
7.	25-6-86	Thokarsi Jivaraj Chawl, Navbharat compound, Acharya Donda Marg, Bombay.	—	5	On reaching the scene of incident it was noticed that, a large huge tambered tree had uprooted and fallen on a ground floored structure comprising of five tenements, damaging the roofing and walls. Five persons were reported injured.
8.	1-7-86	Kasbekar Niwas, Saraswati Baug, Near Hindu Friend Society Rd., Jogeshwari (E), Bombay-60.	1	4	On arrival it was learnt and observed that, entire two floored, brick walled R. C. C. structure had collapsed and a lady buried under debris and four persons received minor injuries.
9.	31-7-86 05.48 hrs.	6, Vidhyarthi Bhavan, Tribhuvan Rd., Bombay-4.	—	6	On arrival it was noticed that, a large portion of a flooring at a living room on 3rd floor of a five floored residential building had given away. Thereby injuring six persons.
10.	14-8-86 02.06 hrs.	28, Cawasjee Patel Street, Fort.	—	2	First arriving officer observed that, the entire portion of west side of a six floored brick walled timber framed building gave away on the adjoining bldg., causing injury to two persons of the adjoining building. Both persons were removed to St. George hospital by firemen in brigade ambulance.
11.	21-8-86	314, A, Sunandabai Trust Vithalbhai Patel Road, Girgaon, Bombay-4.	3	3	On arrival at the scene of incident, it was noticed that, a part of given away and some portion of wall hanging precariously, thereby number of occupants were trapped under debris.
12.	28-8-86	7/9, Hendre bldg., 1st Cross Lane, N. M. Joshi Marg, Byculla, Bombay.	1	2	On arrival at the scene of incident, it was observed that a portion of roof & balcony & stair case of a two floored brick walled timber framed bldg., had gave way and some portion found hanging precariously. Two persons reported injured.
13.	2-9-86 16.38 hrs.	Chintainani Jain Temple Trust Bldg., Sonawala Bldg. 4th Kavel Lane, Bombay-2.	4	—	On arrival at the scene of incident it was reported and noticed the ground and four upper floored, brick walled, timber framed partly tiled roof and partly R. C. C. flat terrace building has completely collapsed. Five persons suspected, feared to be trapped at ground floored level.

1.	2.	3.	4.	5.	6.
14.	3-9-86 07.00 hrs.	Ambika Silk Mill Ltd., Co. Senapati Bapat Marg, Worli, Bombay-25.	—	11	On the arrival at the scene of incident, it was noticed that, a large portion about 200' X 100' at South East corner of a three floored building had collapsed alongwith a large overhead R. C. C. water tank having a capacity about 90,000 gallons. It was also reported that ten persons sustained injuries and one persons had trapped on ground floor under the huge debris. It is revealed that, the bldg. was installed with machineries for yarm drying, Qirn winding on ground floor printing and folding activities were carried on upper. Ten other injured persons were already removed to E. S. I. hospital before arrival of the Brigade.
15.	12-9-86 12.75 hrs.	60, Abdul Rehman Street, Roopawala Terrace.	1	2	On arrival at the scene of incident it was seen that entire rear portion of ground & five upper floors and gave way & fallen on the adjoining ground and one upper floored, G. I. sheets and partly tiled roofed building. Three persons were reported trapped under the debris.
16.	19-9-86 13.28 hrs.	Veerchand Niwas Building Junction of Thokarsi Jivraj Rd., & Acharya Donda Marg, Bombay-15.	—	2	On arrival at the scene of incident, it was noticed and learnt that, the projected portion made of wooden board & iron rods on the main doors of shop No. 536 on the ground floor of four floored under repaired brick walled, timber framed structure on an area of about 40 mtrs. X 50 mtrs. used for shops and residence had collapsed. Two women were reported as injured slightly who were taken to private dispensary where treated & allowed to go home before arrival of the brigade.
17.	20-9-86 10.04 hrs.	Shah Sadan, Bhavani- shankar Rd., Shivaji Park, Bombay-28.	—	2	On reaching at the scene of incident it was reported by inmates that the portion of ceiling Morter on ground floor, R. No. 2 of two floored building had fallen on two girls and they were treated by Dr. Saloya residing in adjacent building.
18.	10-10-86 08.14 hrs.	88, Issaji Street, Noor Manzil.	—	1	On arrival at these scene of the incident it was seen that, weather shed portion of 3rd floor of five floored building had collapsed which was under repair. One person reported injured.
19.	25-10-86 18.41 hrs.	Laxmi bldg., No. 22, Phirojsha Mehta Road, Fort, Bombay.	—	2	On arrival at the scene of incident it was noticed that some portion of a parapet wall on 1st floor had collapsed as a result two persons were injured.
20.	13-12-86 12.52 hrs.	Indira Sahkar Nagar Zopadpatti Nehru Road, Mulund (W).	—	2	On arrival at the scene of incident it was observed that a wall of a ground floored, brick walled, A. C. Sheet roofed structure under demolition had collapsed on the adjoining zopadi, injuring one lady & a girl.
21.	7-1-87 03.23 hrs.	Block No. 602, 6th floor, Laxmi Jyoti Apartment, Sardar Vallabhabhai Patel Rd., Mulund (W).	—	3	On arrival at the scene of incident it was seen that a wall of bathroom had collapsed on 6th floor of a ground floored R. C. C. structure bldg. injuring three persons.
22.	17-1-87	Building No. 77, Nehru Nagar, S. G. Barve Marg, Kurla (E).	—	3	On arrival at the scene of incident it was noticed that, portion of ceiling plaster from the balcony 3rd floor of a five floored R. C. C. building had collapsed as a result three persons were reported injured.
23.	20-1-87 05.44 hrs.	Babasing Nagar, Near Goregaon Tel. Exchange, S. V. Road, Goregaon (W), Bombay-63.	—	3	On arrival of the incident it was noticed that, three persons were received injurey due to collapse of a ground floored structure of a A. C. sheet roof when a tree uprooted fallen on it.
24.	3-1-87	Water Works Main- tenance, Municipal Cor- poration, N. M. Joshi Marg, Opp. 'S' Bridge, Bombay-11.	—	3	On arrival it was noticed that, the compound wall had collapsed partly, as a result five persons trapped under the wall: Three persons reported injured.

## APPENDIX—V

Sr. No.	Fire Risk covered	Nos.
1.	Textile, Woolen, Silk and artificial silk (Rayon etc. Mills).	127
2.	Ginning Mills.	8
3.	Cotton Presses.	13
4.	Oil Mills	27
5.	Petrol & Oil Storages, refineries	206
6.	Match Factories, fire works and explosive manufacturers	10
7.	Explosive Stores.	22
8.	Processes involving dangerous petroleum products.	26
9.	Cinematograph films, celluloid plastics and Bakelite works.	41
10.	Timber and wood working paper manufacturer.	321
11.	Chemical Works	225
12.	Gas and Electricity Undertaking	248
13.	Docks, Railways, Airport installations	32
14.	Warehouses, Good yards, Goods sheds	193
15.	Manufacture of rubber goods	437
16.	Manufacture of other goods	771
17.	Highrise buildings	150

## APPENDIX—V

## WATER FACILITIES

Sr. No.		
1	Hydrants and approximate capacity	11,313
2	Water Ponds	73
3	Refilling places	142
4	Wells, Rivers and Canals	2,426
5	Other facilities like static tank, storage tanks, etc.	328



1.	2.	3.	4.	5.	6.
25.	6-1-87 13.29 hrs.	Gun Powder Road, Shital Apartment Compound, 2/B, Bharoch Chamber, Mazgaon, Bombay-10.	—	3	On arrival at the scene of incident it was noticed that, the Southern side of 1st floor balcony slab and some wall portion of ground and three upper floored building had collapsed as a result three women were trapped the slab under and the trance of the building had blocked as a result three men and two boys were stand on 1st floor, building was under repair.
26.	9-1-87	54-B, Hero House, Shrikant Palekar Marg, Chandanwadi, Girgaon, Bombay-2.	—	3	On arrival at the scene of incident it was reported that, entire ceiling portion of living room on ground floor of a two floored bldg. had collapsed. Three persons reported injured. All were extracted from the debris before arrival of Brigade. Two were removed in hospital in brigade ambulance and one in Pvt. vehicle before arrival of brigade personnel.
27.	13-1-87	100-A, Wadekar Bldg., J. S. Seth Road, Girgaon.	—	5	On arrival at the scene of incident, it was seen that, South West corner of the bldg. and roof portion of room No. 12 & 13 on 2nd floor of three floored bldg., had collapsed, with the side wall room No. 12 & 13. Five persons reported injured.
28.	24-1-87 17.35 hrs.	140, Dr. B. A. Road, Kawarens Bldg.	—	4	On arrival at the scene of incident it was reported and noticed that, some portion of load bearing walled ceiling of 1st floor of ground & two upper floored, brick walled timber framed was collapsed, on the ground when it was demolished, thereby four employees sustained injuries.
29.	8-2-87 13.09 hrs.	54, Rangwada Chawl, No. 4, Mauliana Azad Road.	—	2	On arrival at the scene of incident it was observed the Southern Common passage of 1st and 2nd floor of a three floored brick walled timber, framed building had gave away injuring two girls and thereby 35 persons were stranded on upper floor.
30.	10-2-87 12.09 hrs.	158, Perin Nariman Street, Yusuf Patel Building, Fort, Bombay-1.	—	3	A ground plus upper three floored under repairs, totally vacated bldg. had collapsed. The front portion of the 1st, 2nd & 3rd floor gave away along with scaffolding causing injuries to three of the workers carrying out repair works.
31.	31-3-87 80.03 hrs.	383/10 D. N. Naser Road, Andheri (W), Bombay-58.	—	2	On arrival it was observed that ceiling plaster portion of a second floor residential roof of a four floored building had collapsed, causing two boys, who were staying in the room slightly injured.
32.	15-3-87 00.10 hrs.	Junction of 1st Marine lane, & Wellington Street, Opp. Panchratna Hotel.	2	4	A ground floored partly R.C.C., partly brick walled timber framed structure with an area of about 40' x 30' gave away. As result in all six persons were trapped below debris.

## APPENDIX—IV

APPENDIX—VI

Summary of calls to fires and other emergency calls (including false alarms) showing the number of times appliances of the Fire Brigade attended and how fires were extinguished during the year 1986-87.

Called		HOW ATTENDED															HOW EXTINGUISHED															
		Station appliances							HOW ATTENDED								HOW EXTINGUISHED															
Direct	Control Room	TOTAL	Motor Pump	Motor Pump with Escape Ladder	Hydraulic Platform	Ambulance	Water Tanker	Turn Table	Motor Pump with escape ladder	Motor Pump with Extension Ladder	Hydraulic Platform	Rescue Van	Motor Emergency Tender	Water Tanker	Hose Laying Lorry	Control Post Van	Breathing Apparatus	Ambulance	Turn Table	Sand	Water Buckets	Chemical Extinguishers	First-aid Hose Reel	Motor Pump	No. of Jets	Cutting off Current	Smothering	Hydrant	Foam Equipment	Sprinklers	Breathing Apparatus	
...	143	174	162	57	...	41	...	...	35	44	40	6	...	36	1	4	7	17	21	41	22	17	8	21	25	45	2	2	...	...	...	3
...	205	264	...	29	4	...	...	...	3	285	48	10	4	10	...	7	4	14	2	78	14	27	16	28	40	89	1	...	...	...	1	
...	504	519	442	86	...	...	...	...	10	10	...	...	...	8	...	...	7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	400	444	436	...	...	...	...	...	34	34	22	11	...	...	...	2	3	24	25	73	29	16	16	1	19	134	59	15	...	...	22	
...	366	405	363	89	3	...	22	...	...	40	2	7	...	7	5	2	7	35	3	...	...	21	60	59	...	14	5	...	...	1		
20	272	326	317	86	...	21	15	...	46	134	5	3	...	8	...	5	8	8	6	238	26	237	23	8	34	125	1	...	...	...	...	
71	272	367	351	114	...	6	6	...	120	62	1	1	...	11	2	2	...	8	...	30	14	238	25	13	31	...	...	...	...	...	...	
...	173	184	...	184	...	...	...	...	57	15	...	1	...	5	...	...	...	...	49	27	1	10	...	...	...	...	...	...	...	...	...	
15	82	105	98	35	...	9	...	...	27	41	1	...	...	7	...	1	4	5	6	21	6	17	4	36	35	...	3	...	...	...	...	
...	107	112	110	2	...	...	...	...	69	22	2	2	...	7	...	4	4	8	...	35	13	2	11	8	5	...	...	...	...	...	...	
...	115	128	26	7	...	...	2	1	98	38	4	2	3	...	3	6	16	...	28	13	33	13	48	70	28	...	12	...	...	...	...	
...	528	534	514	93	...	51	7	...	57	40	5	13	...	23	...	3	...	36	...	86	80	13	6	...	109	...	...	...	...	...	...	
...	211	227	80	205	...	36	...	...	59	45	...	5	...	41	...	1	1	21	1	43	46	36	11	88	79	...	...	...	...	...	...	
...	266	297	297	34	...	4	11	...	8	28	2	4	...	...	...	1	...	4	1	57	29	29	7	19	16	...	...	1	...	1	...	
...	189	211	...	218	...	...	3	...	...	54	...	1	...	11	...	...	...	1	2	73	20	5	2	...	...	...	1	...	...	...	...	
2	108	128	128	...	...	...	...	...	54	19	4	5	...	8	1	...	...	25	3	36	27	...	6	19	20	...	...	...	...	...	...	
...	184	220	...	51	...	20	15	...	...	13	...	6	...	10	...	...	6	...	43	22	58	4	43	39	...	...	...	...	...	13	...	
...	57	108	104	14	...	...	...	...	15	30	...	...	...	8	...	3	...	...	20	21	...	10	11	...	51	7	1	...	...	...	...	
...	239	282	...	328	...	46	20	...	38	21	...	...	...	6	...	...	...	12	1	31	45	11	12	73	56	67	8	2	...	...	...	
...	225	250	259	96	14	...	37	...	68	75	...	4	...	18	...	...	3	...	69	52	16	4	...	41	37	22	...	21	...	...	...	
...	61	108	85	34	...	...	...	...	5	59	...	...	...	7	...	...	...	...	1	18	20	8	14	17	13	34	3	...	...	...	...	
108	4705	5391	3772	2023	21	403	181	1	797	1828	136	118	7	223	9	39	58	247	141	1050	500	765	219	534	657	729	98	195	...	14	27	

## APPENDIX—VII

Fires and losses for the period from 1981-82 to 1986-87.

Year	No. of Fires	Estimated Loss
1981-82	3048	Rs. 5,91,71,000/-
1982-83	3031	Rs. 7,11,79,728/-
1983-84	3409	Rs. 3,83,63,560/-
1984-85	3177	Rs. 3,65,84,752/-
1985-86	3269	Rs. 4,39,50,763/-
1986-87	3067	Rs. 1,96,84,415/-

## VIGILANCE OFFICER (SPECIAL DUTY)

Designation of Head of the Department	Name of the Officer and Qualifications	Period	Remarks
Vigilance Officer (Special Duty)	Shri I. C. Sisodia B. A. (Special)	1-4-1986 to 31-3-1987	Throughout the year.

This is a small department known as Special Vigilance Squad and is a branch of Municipal Commissioner's Establishment comprising of 5 officers and 7 men directly working under Municipal Commissioner and Additional Municipal Commissioners.

Duties and functions of this department are as follows :—

1. To make confidential, secret enquiries and to collect information, of important nature, viz.,
  - (a) In case of malpractices, frauds.
  - (b) Against contractors indulging in malpractices in collusion with civic employees.
2. To carry out raids against traders and agents indulging in evasion of octroi duty, bringing animals and contraband meat — beef unauthorisedly in Municipal Corporation Limit.
3. To detect leakages of revenues.
4. To check attendance of employees.
5. To detect misuse of Municipal property.
6. To detect and report unauthorised constructions.
7. To detect storage of illegal goods in godowns.
8. To supervise the function of Central Control Room at Municipal Head Office.
9. To accompany Municipal Commissioner and Additional Municipal Commissioner as and when required.
10. To verify reports submitted by ward officers and Heads of the Departments in connection with unauthorised constructions by visiting sites and making discreet enquiries.
11. To keep Liaison with police, excise, custom and other Government Agencies.
12. To attend any emergency at odd hours.
13. To carry out such other duties as directed by higher authorities.

During the year 1986-87, this Special Vigilance Squad conducted 73 investigations, carried out 153 surprise raids, 368 visits and checkings and disposed of 1741 matters of miscellaneous nature including important cases of Confidential and Secret nature.

The details of investigations are as under :—

Sr. No.	Nature of the investigations	No. of cases
1.	Cases of misappropriation and fraud, of Municipal Fund.	11
2.	Cases of evasion of revenue in collusion of civic employees.	25
3.	Cases of irregularities.	25
4.	Cases of unauthorised construction and business.	12
		73

Details of raids and surprise checking are as under :—

Sr. No.	Nature of the raid & checking	No. of Raids	Revenue recovered
1.	Octroi raids at Railway Stations.	106	7,01,256.05
2.	Octroi raids at Octroi Barriers.	28	3,36,690.50
3.	Octroi raids at Docks and Airports.	9	3,49,245.85
4.	Licence Raids.	3	47,500.00
5.	Raids against unauthorised import of beef and animals.	4	13,341.50
6.	Other checking and raids.	3	18,300.00
Total :		153	14,66,333.90

Monthwise statement of Revenue recovered by Special Vigilance Squad during the period from 1-4-1986 to 31-3-1987 by carrying out surprise raids.

Sr. No.	Month	Nos. of Raid	Octroi			Licence Dept.	Market Dept.	Other Dept.	Total Revenue recovered
			Road Barriers & other	Docks Airport	Railways				
1.	April 86	16	27,149.00	—	1,16,495.50	—	—	—	1,43,644.50
2.	May 86	13	15,686.50	—	64,769.75	—	—	—	80,456.25
3.	June 86	5	—	—	21,199.50	—	—	—	21,199.50
4.	July 86	11	35,521.00	—	46,936.00	—	—	—	82,457.00
5.	Aug. 86	8	15,000.00	—	41,490.00	—	—	—	56,490.00
6.	Sep. 86	8	6,623.00	—	63,928.75	—	—	16,300.00	76,851.75
7.	Oct. 86	13	32,408.50	—	34,939.50	9,500.00	—	—	76,848.00
8.	Nov. 86	15	1,05,698.45	—	33,025.00	—	—	—	1,38,723.45
9.	Dec. 86	14	25,470.85	1,33,819.25	37,131.60	—	13,341.50	—	2,09,763.20
10.	Jan. 87	14	3,946.75	—	1,11,755.00	—	Court case	—	1,15,701.75
11.	Feb. 87	19	40,760.80	49,818.00	81,826.45	38,000.00	—	2,000.00	2,12,405.25
12.	March 87	17	28,425.65	1,65,608.60	57,759.00	—	—	—	2,51,793.25
Total :		153	3,36,690.50	3,49,245.85	7,01,256.05	47,500.00	13,341.50	18,300.00	14,66,333.90

## A FEW IMPORTANT CASES

(1) Shri Sohansingh Kohil, Municipal Councillor and Leader of the Janata Party, on receipt of trunk call bills against telephone installed in his chamber complained in the Standing Committee that he had not trunk calls to U. K. and the matter may be thoroughly investigated. As directed by Addl. M. C. (R), discreet investigation was carried out with Videsh Sanchar Bhavans at their offices at Mumbai and U. K. They informed me that one Shri Merchant had booked all the trunk calls to U. K. On making enquiry with number of persons having the surname 'Merchant' without disclosing identity and the nature of enquiry; one Shri S. M. Merchant, an outsider, admitted to have booked trunk calls from the chamber of Leader of Janata Party who finally paid the trunk call charges amounting to Rs. 1,932/-.

(2) A source information was received that some of the octroi agents having their offices at L. B. S. Marg and Eastern Express Highway Check Naka alleged to have printed fake receipts of Municipal Co-op. Bank and have been indulging in evasion of Octroi duty in lacs by fraudulent way. As directed by Addl. M. C. (R), discreet investigation was carried out with the assistance of Officers of Special Vigilance Squad. Number of fake bank receipts were collected from the importers. On a complaint lodged with the General Branch C. I. D. six octroi agents have been arrested. A Court case is pending against them.

(3) Shri Ramdas Nayak, Municipal Councillor complained in the Standing Committee that Surgical blades supplied to the Municipal Hospitals were of sub-standard quality. As directed by Addl. M. C. (R), thorough investigation including verification of record, scrutiny of relevant challans, analysis of blades, was carried out by the officers of the Specials Vigilance Squad to ascertain the quality of blades. On inspection of the stock and samples collected from three major Hospitals, it was found that Manufacturer, M/s. Hindustan Syringe Pvt. Ltd., Faridabad supplied surgical blades without observing tender conditions. In order to ascertain the quality of surgical blades, I. S. I. authorities at their office at Mumbai and Delhi were contacted and a few surgical blades collected from the Hospitals were handed over to them to carry out test. I. S. I. authorities after carrying out test reported that the surgical blades supplied to the Municipal Hospitals were of sub-standard quality. Action against the Agent is initiated.

(4) As directed by Addl. M. C. (R), on 6th February 1987 from 7.30 p.m. to 10.30 p.m. action against 15 unauthorised Mobile catering Establishments plying at Nariman Point area and in its vicinity was taken by the Officers and men attached to Special Vigilance Squad. All the vehicles were seized and towed away and total amount of Rs. 38,000 was recovered from the defaulting parties.

(5) As directed by M. C., the officers attached to Special Vigilance Squad detected a Saree printing factory conducted by the owner of 'M/s. Ajmer Art' without any trade licence and factory permission for the past about 10 years at Nawab House, opposite Marine Lines Station. The owner had also installed booster pump of 3 H. P. Capacity, water pipe lines and huge storage capacity unauthorisedly to run his business in residential zone.

Action against the owner of the unauthorised factory is being initiated and also against concerned staff of 'C' Ward for not detecting the unauthorised factory.

(6) A big commercial complex of unauthorised Saree Printing, repair of drums, aluminium frames and automobile garages and chemical godowns was detected by the officers of the Special Vigilance Squad in Asalpha Village in 'L' Ward. A huge quantity of strong reagents, *i.e.*, acids stored in tanks and barrels, were seized with the assistance of Flying Squad from the compound of M/s. Ambika Acids & Chemicals and a police complaint was registered at Ghatkopar Police Station. The owner of company was arrested. Action against traders has been initiated for conducting trades unauthorisedly in illegal structures. Action against the defaulting staff of 'L' Ward is also being initiated for not detecting such unauthorised commercial complex.

(7) A raid was carried out in 'outside city division' of water works department on Municipal Private Road between Kalyan-Bhiwandi Bridge junction and Kalher junction on 26th February 1987 against Security personnel for permitting private trucks, tempos, cars, etc., to ply on the prohibited private Municipal Road with the intention of illegal monetary gain.

Action against concerned Security Personnel is being initiated for allowing private vehicles to ply on the road, which is banned from security point of view.

(8) It was observed that consignments of stainless steel utensils on large scale coming from Bhyandar were unloaded at Grant Road and Charni Road Stations, and the agents used to remove the same without payment of octroi duty. The Special Vigilance Squad have carried out raids outside these stations and recovered cotroi duty in lacs. The raids are being continued against the defaulting Agents.

Sd/-

Vigilance-Officer (Special Duty)

## MARKET DEPARTMENT

### SALIENT FEATURE

Income : Rs. 3,69,23,850.29  
Expenditure : Rs. 3,56,27,647.40

### MUNICIPAL & PRIVATE MARKETS.

Markets	Municipal	Private
(1) City	37	10
(2) Western Sub.	31	4
(3) Eastern Subs.	14	2
	82	16

There are 98 Markets out of which 82 are Municipal and 16 Private. In addition 1009 outside shops for meat and fish to cater the needs of increasing citizens, have been licenced.

In entire activities of the Market Department are managed by 1244 personnels consisting of 37 supervisory, 206 Inspectorial and 57 indoor staff and 944 peons and labour staff.

The Markets are situated in different areas viz. City, Western Suburbs and Eastern Suburbs.

The financial position of the Markets :—

Unit	Municipal Markets	Private Markets	Licences issued to O. S. Meat Shops	Revenue collected Rs.	Expenditure	
					Estt. Rs.	Maintenance Rs.
City	37	10	265	2,93,23,958	1,27,94,203	1,35,82,157
W. Sub.	31	4	412	54,06,838	48,30,729	11,94,928
E. Sub.	14	2	332	21,93,054.29	9,94,646.48	12,30,983.92
	82	16	1,009	3,69,23,850.29	1,96,19,578.48	1,60,08,068.92

During the year revenue amounting to Rs. 3,69,23,850.29 was collected against the amount of revenue Rs. 2,82,68,611.96 for the previous year so also expenditure of Rs. 3,56,27,647.40 as against the expenditure of Rs. 4,32,71,007.60 for the previous years.

Wholesome articles viz. vegetables, fruits, mutton, beef, fish, pork, poultry etc. were supplied through the markets to the citizens of Greater Mumbai.

#### Raids to prevent unauthorised imports and slaughtering of animals :—

Total raids carried out	2,707
<b>Animal Seized :</b>	
(1) Sheep/Coats	7,452
(2) Horned Cattle	2,088
(3) Pigs	42
<b>Stuff seized and destroyed :</b>	
(1) Beef	4,64,451 Kgs.
(2) Mutton	15,248 Kgs.
(3) Pork	2,551 Kgs.
<b>Amount realised :</b>	
(1) Disposal of skins & heads	Rs. 15,027.50
(2) Disposal of Fish	Rs. 2,115.00
(3) Fine imposed by Court	Rs. 1,28,741.00

#### Immunisation of Cattle and Dogs :

Immunisation of Cattles and dogs is done by the team of veterinary staff. During the year 242 dogs and 22,165 milch cattle were immunised at 8 centres. 11,898 puppies were destroyed at Mahalaxmi Centre. No male buffaloe was detected suffering from rinderpos disease at Thane District. The curative and preventive treatment of animals was continued at Khar Veterinary Hospital.

**MARKETS WHERE DEVELOPMENT IS HELD UP :**

- |                                    | <b>CITY :</b>  |
|------------------------------------|--|
| 1. Colaba Market                   | : Beyond a pile foundation of the 3rd phase.   |
| 2. M. J. Phule Market              | : Construction of Mutton section.  |
| 3. Cold storage at C. S. M. Market | : Cole storage plant at C. S. M. Market Building alongwith plant machinery and equipment lying idle thereat. |
| 4. Kamathipura Market              | : Beyond pile foundation.  |
| 5. Prof. D. K. Mandai              | : This has already been completed There are certain defect.  |

- |  | <b>EASTERN SUBS.</b>   |
|--|--|
| 6. Tagore Nagar Market Vokhroli.                 | : Construction beyond ground floor and miscellaneous work of ground floor. |
| 7. Temp. Kirol, Khalai Village Market Vidyvihar. | : Plot incumbent for temporary market.                                     |

- |                              | <b>MARKETS DEVELOPED.</b>   |
|------------------------------|---|
| 1. Babu Genu Market Mazgaon. | : 3rd phase is completed and started functioning.   |
| 2. Turner Road Market        | : 1st phase construction is completed and started functioning but it is not at all patronised and the market is practically vacant. The Veg. Section of this market is proposed to be given to Cooperative Society. |

**MARKET LOCKED UP IN LITIGATION.**

1. Market on plot 5-A at Mulund (West) on S. L. Road.
2. Market on plot No. 36 at Mulund.
3. Dongari Market (Mutton Section).
4. Monarch Market.

**List of open plots available for development of Markets.**

Sr. No.	Ward No.	Location of the Plot	Area of plot (in sq. mtrs.)
1.	A	Cuffe Parade, Colabe	1900
2.	F/North	C. G. S. Colony	2008.29
3.	F/North	H. M. Mkt. Raoli Camp.	1500
4.	G/North	M. M. C. Road Mahim	3461.20
5.	G/North	Agar Bazar, Dadar	3000
6.	H/East	Shastri Nagar Market Bandra (East)	2500 approx.
7.	K/East	Marol Village, Andheri	1000 approx.
8.	P/South	North of Motilal Nagar, Goregaon	2650 approx.
9.	P/South	Sainath Road Market Malad (West)	1000
10.	R/North	L. T. Road (Bhabai) Borivali.	2700
11.	R/North	Bharucha Road Dahisar (East).	2000
12.	R/North	Sonia Budhya Compound Dhahisar (West).	10,115
13.	L	560, Kurla Takia Ward Kurla (West) attached to Devi Ahilyabai Holkar Mandai.	479
14.	M/W	Subhash Nagar Chembur Lay out of 16th Road	4115
15.	M/E	Bainganwadi Shivaji Nagar.	2000
16.	M/E	Govandi Sambaji Nagar	3000
17.	N	Kirol Village Vidyavihar	400
18.	S	L. B. S. Marg, Matunga Petrol Pump	2546
19.	S	Kannamwar Nagar Vokhroli (East)	2000
20.	T	Plot opposite Mehul Cinema Jawaharlal Nehru Road Mulund.	3492



## DEONAR ABATTOIR

Since commissioning of the Abattoir, all the units continued to function smoothly.

During the year under report there is decrease in arrival and slaughter of sheep and goats and buffaloes whereas there is rise in arrival and slaughter of buffocks, M. B. Cs. and pigs, considering the arrival and slaughter of the last year.

Cold Storage facilities could not be made available to the licensees throughout the year as the cold storage plant is closed down for repairs from Dec. 86.

Production of the blood meal meat meal in the Inedible plant is discontinued from June' 86 as the same is found uneconomical.

The Gobar gas plant is also under repairs and hence gas could not be supplied to the canteens in the Abattoir premises.

As usual special arrangements were made during Bakri-Id Festival for 'Sacrificial Slaughter' of horned cattle in one of the live stock market sheds and Municipal Meat Vans made available for the transportation of sacrificial meat.

Pharmacautilical concerns like M/s. Griffon Laboratories, M/s. Raptakos Brett & Co., M/s. Catchet Pharmacautilicals, M/s. Emcure Pharmacautilicals, The Haffkine Institute and many other technical and research institutes continued to take benefit of the facilities for collection of various glands, tissues etc. at Deonar Abattoir for pharmaceutical use and research purpose.

Educational Institutions like Bombay Veterinary College and Kokan Krishi Vidyapith Trainees from Marketing and Inspection Deptt., Govt. of India, Local Self Govt. Institution, Bombay and many other educational institutes availed of the facilities for demonstration training etc.

Dignitaries from various states and from abroad paid visit to the Abattoir and took advantage of the technical expertise available here.

### STATEMENT—I

#### PART-I

Brought :

	Buffaloes	Bullocks	M. B. C.	Sheep & Goats	Pigs
1985-86	58,248	1,05,084	4,836	40,41,484	43,689
1986-87	56,908	1,08,631	6,837	33,67,429	49,143
<b>Rejected :</b>					
1985-86	708	1,962	72	4,393	252
1986-87	1230	2,093	255	3,523	210
<b>Percentage of rejection :</b>					
1985-86	1.21 %	1.86 %	1.4 %	0.1 %	0.57 %
1986-87	2.16 %	1.92 %	3.73 %	0.1 %	0.42 %
<b>Animals removed :</b>					
1985-86	—	—	—	5,49,530	—
1986-87	—	—	—	5,48,852	—
<b>Slaughtered :</b>					
1985-86	59,063	1,05,552	5,011	27,35,758	44,768
1986-87	56,282	1,09,679	6,835	23,05,702	50,429

## PART—II

Meat	Quantity Produced in ton		Quantity Condensed in ton		Percentage of condem- nation	
	1985-86	1986-87	1985-86	1986-87	1985-86	1986-87
Beef	22618.35	22566.05	67.80	75.007	0.29 %	0.33 %
Mutton	27357.58	23057.02	27.80	17.68	0.1 %	0.078 %
Pork	1119.2	1260.7	21.00	26.339	1.8 %	2.08 %

**STATEMENT—II**  
**REVENUE COLLECTED AT DEONAR ABATTOIR**

		1985-86	1986-87
		Rs.	Rs.
1.	Fair Fees	60,34,334.00	73,28,835
2.	Slaughter Fees	210,20,070.00	2,07,72,377
3.	Miscellaneous Receipts	1,69,23,262.00	1,99,65,351
4.	Rent	06,07,383.00	9,66,124
5.	Cold Storage	01,44,718.00	90,998
Total :		4,47,29,773.00	4,91,23,685

Sr.	Desination	Name of Officer	Qualification	Period	Remarks
(1)	(2)	(3)	(4)	From To (5)	(6)
1.	General Manager Deonar Abattoir.	Dr. A. A. Padarkar	B. Sc. (Vet.)	1-4-86 to 31-3-87.	—

Sd/-  
General Manager,  
Deonar Abattoir

## LICENCE DEPARTMENT

### HIGH LIGHTS

(1) Expenditure on the Department :—

(a) Establishment	... Rs. 1,04,96,436
(b) Others	... Rs. 35,94,605

(2) Revenue earned by the Department ... Rs. 7,66,94,253

### NO. OF LICENCES ISSUED AND AMOUNT REALISED

Sections of B. M. C. Act.	No. of licences issued.			Revenue realised (in Rs.)		
	Div. I.	Div. II.	Div. III.	Div. I	Div. II	Div. III
313(1) (b) (c) Projection Licences.	37687	2224	1221	89,57,859	4,47,795	2,17,868
313A/313B Hawkers licences.	8198	2862	1310	84,87,136	56,50,369	28,10,609
328/328A Advertisement Permit.	4276	1778	627	77,35,575	13,91,433	9,54,882
393/394/412A Licences for storages & Trades under Sched- ule 'M' of the B.M.C. Act.	62776	32045	19596	1,87,97,352	1,37,17,936	74,35,670

(3) No. of prosecutions launched and amount of fines inflicted :—

Prosecutions launched			Fines inflicted (in Rs.)		
Div. I	Div. II	Div. III	Div. I	Div. II	Div. III
8860	6751	4367	8,09,552	11,12,105	3,78,647

### Functions and Activities :—

The Licence Department functions in four wings viz., (1) Licence Section, (2) Encroachment Removal Section, (3) Stall Board and other Projections Section and (4) Advertisement Section. Their activities are as under :—

#### (1) Licence Section :—

This section issues licences under Section 394/412A of B. M. C. Act, for storages of goods/chemicals which are inflammable/combustible/corrosive/poisonous, etc., and for trades or processes which are hazardous and have a nuisance value from public health point of view. Permits under Section 393 of B. M. C. Act are also issued for controlling Steam Vessels and Steam Trumpets, etc.

Revised Schedule 'M', listing licensable commodities and trades has come into effect from 26th November, 1979 which includes several new commodities and trades. There was a stiff opposition from Trading Community to implement this Schedule as the Trading Associations including Indian Merchants' Chamber, feel that implementation of this schedule will cause harrassment to the Trading Community. However, this department has already started implementing the same.

The Experts Committee appointed by the Government of Maharashtra to look into the grievances of the Trading Communities has since submitted its report to the Government and the same is under consideration of the Government and the decision is awaited.

**(2) Encroachment Removal Section :—**

A :— (i) This wing controls hawkers and squatters on Municipal roads and footpaths either by issuing licences at suitable places or by removing goods of unauthorised hawkers from roads and footpaths. The total amount recovered from hawkers by way of redumption and demurrage charges works out Rs. 62,60,828.00 for 1986-87 as against Rs. 47,32,392.00 for 1985-86.

(ii) The Corporation, on the recommendation of Hawkers Committee, have accorded their sanction to tolerate the hawkers by sufferance by charging them uniform fee of Rs. 3/- per day per hawkers on the roads other than prohibited areas where the hawkers will not cause obstruction to the traffic. Accordingly, the scheme has been implemented in Westerns and Eastern Suburbs from 1984.

(iii) The Corporation, on the recommendation of the Hawkers Committee have accorded their sanction to tolerate the hawker by sufferance by charging them uniform fee of Rs. 3/ per day per hawker on the roads other than prohibited areas where the hawkers will not cause obstruction to the traffic. Accordingly, the Scheme has been implemented in Western and Eastern Suburbs from 1984. An amount of Rs. 24,65,194 has been recovered by implementing this scheme from 1-4-1986 to 31-3-1987 as against Rs. 20,48,322 for 1985-86. Drastic removal actions are taken against the hawkers doing business unauthorisedly in the area which is prohibited for hawking.

(2) B :— As per judgement of the Supreme Court *vide* Writ Petitions Nos. 5602 — 5605 of 1983, Scheme of 'Hawking and Non-Hawking Zones' has been formulated in consultation with the Municipal Councillors of the area and representatives from the Hawkers Union and implementation has been started in Zone-I (*i.e.* A to E Wards) from February 1986 on trial basis and same has been implemented in T Ward and P/South Wards recently and the scheme will be implemented in other wards gradually after gaining experience of implementation of the scheme in Zone—I *i.e.* A to E Wards and T and P/S Wards. According to judgement, licensed hawkers in Non-Hawking Zones are to be shifted in the Hawking Zones. This could not be implemented as the matter is pending in high court.

**(3) Stall Board Section :—**

This wing deals with issue of permission for various types of projections, *viz.*, Stall boards, Weather Frames, Over Hanging Awnings, Show-cases, Cupboards, Steps, etc., under Section 313(1)(b)(c) of the B. M. C. Act.

**(4) Advertisement Section :—**

This wing regulates various types of advertisements and Sky-signs in City and Suburbs under the provision of Section 328/328A of the B. M. C. Act.

**(5) Mass Raid Section :—**

There are five Mass Raid Squads for detecting unauthorised storage of inflammable and explosive goods/chemicals. As a result of their detections of unauthorised storages and trades and infringement in case of licensed premises, 975 courts cases have been launched in addition to forfeiture of Security Deposits of Rs. 95,685 paid by the licensees.

**(6) Flying Squad Section :—**

A Flying Squad consisting of Officer of the Bombay Fire Brigade Department and the Licence Department, has been created from 1-8-1983 under the overall control of respective Dy. Municipal Commissioner to detect the unauthorised explosive and highly inflammable storages of chemicals, petrochemicals which are of potential fire hazard and to lodge a complaint with the police and to seize such highly inflammable/explosive goods. The squad is required to move especially in A to E Wards to detect unauthorised hazardous storages so as to put a check on even temporary storages of such materials which are likely to result into big fire.

For the period from 1-4-1986 to 31-3-1987, this Squad has detected 63 cases of unauthorised storages of inflammable/hazardous chemicals and complaints have been lodged with police and actions under Section 516AA of the B.M.C. Act, have been taken. The Squad has seized 2,47,931 Kgs. of such chemicals in the year under review. Total charges recovered for storing in the Municipal godown the goods so seized are Rs. 1,91,120,52 Court cases have been finalised resulting into conviction. In addition to this, they are attending calls from fire brigade Officer and other complaints from the public regarding unauthorised storages of such materials throughout Greater Bombay and at any odd hours. Science graduates are appointed on this squad.

**LICENCE DEPARTMENT**  
STATEMENT SHOWING THE REVENUE POSITION FOR THE YEAR 1986-87

Sr. No.	Particulars.	No. of licences.	Actual collection for the year 1986-87.
			Rs.
1.	Licences for Storages & Trades under Section 394 of the B. M. C. Act.	1,14,417	3,99,50,958
2.	Licences for Stall Board projection under Section 313(1)(b)(c) of the B. M. C. Act.	41,132	96,23,522
3.	Licences for Advertisement under Section 328/328A of the B. M. C. Act.	6,681	81,91,158
4.	Licences for hawkers & squatters under Section 313(A)(B) of the B. M. C. Act.	12,370	82,22,092
5.	Recovery of Daily fees from hawkers of Rs. 3/- per day per hawker.	—	24,65,194
6.	Redemption Charges (Lorry collection)	—	62,60,828
7.	Miscellaneous Receipts.	...	89,769
8.	Ground Rent.	...	18,90,732
Total :—		1,74,600	7,66,94,253

**APPENDIX — 'A'**

STATEMENT SHOWING THE NUMBER OF LICENCES AND PERMITS ISSUED AND FEES RECEIVED IN THE YEAR 1984 TO 1986-87

DESCRIPTION	YEAR	NUMBER OF LICENCES			AMOUNT OF FEES REALISED (IN Rs.)		
		CITY	WESTERN SUBURBS	EASTERN SUBURBS	CITY	WESTERN SUBURBS	EASTERN SUBURBS
		DIV. I	DIV. II	DIV. III	DIV. I	DIV. II	DIV. III
(1) Commodities & Trades							
including	1984-85	59,572	29,980	14,714	1,89,73,579	1,21,06,870	79,87,415
Milk and its products.	1985-86	61,805	36,137	15,010	2,05,22,227	1,33,03,094	88,71,240
(Section 394 and 412A)	1986-87	62,067	31,356	19,331	1,86,29,553	1,36,15,805	73,62,995
(2) Blowing Steam							
Whistles.	1984-85	135	12	75	2,710	4,715	13,142
(Section 393)	1985-86	40	22	75	2,462	4,725	15,805
	1986-87	41	21	74	2,800	4,375	17,243
TOTAL :—	1984-85	59,707	29,992	14,789	1,89,76,289	1,21,11,585	80,00,557
	1985-86	61,845	36,159	15,085	2,05,24,689	1,33,07,809	88,87,045
	1986-87	62,108	31,377	19,405	1,86,32,353	1,36,20,180	73,80,238
(3) Transfer of fees.	1984-85	851	255	249	55,344	53,052	38,343
	1985-86	746	603	298	1,02,219	1,04,887	50,901
	1986-87	668	668	191	1,64,999	97,756	55,432
Grand Total :—	1984-85	60,258	30,247	15,038	1,90,31,633	1,21,64,637	80,38,900
	1985-86	62,591	36,762	15,383	2,06,26,908	1,34,12,696	89,37,946
	1986-87	62,776	32,045	19,596	1,87,97,352	1,37,17,936	74,35,670

## APPENDIX — 'B'

STATEMENT SHOWING THE NUMBER OF PERMITS FOR ADVERTISEMENT ISSUED AND AMOUNT OF FEES COLLECTED DURING THE YEAR 1984-85 TO 1986-87

DESCRIPTION	YEAR	NUMBER OF PERMITS			AMOUNT OF FEES REALISED (IN Rs.)		
		CITY	WESTERN SUBURBS	EASTERN SUBURBS	CITY	WESTERN SUBURBS	EASTERN SUBURBS
		Div. I	Div. II	Div. III	Div. I	Div. II	Div. III
(1) Wall Posters, Hoardings and Boards.	1984-85	4689	1757	663	62,28,654	14,74,271	6,13,787
(2) Moveable Boards and Hand Carts.	1985-86	3844	1867	724	70,05,396	19,38,820	7,44,450
(3) Illuminated Advertisements, Sky-signs.	1986-87	4276	1778	627	77,35,575	13,91,433	9,54,882
(4) Non-illuminated Sky-signs.							
Total :—	1984-85	4689	1757	663	62,28,654	14,74,271	6,13,787
	1985-86	3844	1867	724	70,05,396	19,38,820	7,44,450
	1986-87	4276	1778	627	77,35,575	13,91,433	9,54,882

## APPENDIX — 'C'

STATEMENT SHOWING THE NUMBER OF HAWKERS LICENCES ISSUED AND AMOUNT OF FEES COLLECTED DURING THE YEAR 1984-85 TO 1986-87.

DESCRIPTION	YEAR	NUMBER OF LICENCES ISSUED			AMOUNT OF FEES COLLECTED (IN Rs.)		
		CITY	WESTERN SUBURBS	EASTERN SUBURBS	CITY	WESTERN SUBURBS	EASTERN SUBURBS
		DIV. I	DIV. II	DIV. III	DIV. I	DIV. II	DIV. III
(1) Squatters fees collected from licenced Hawkers	1984-85	9411	2373	1236	60,74,738	13,34,629	6,40,757
	1985-86	9622	2241	928	51,56,015	12,97,004	7,50,115
	1986-87	8152	2737	1085	57,07,946	16,72,643	7,85,197
(2) Fees received from itinerant hawkers licences (under Section 313).	1984-85	338	11	...	2,016	120	90
	1985-86	69	659	93	1,619	2,03,207	33,829
	1986-87	46	125	225	2,927	2,819	50,560
Total of Item No. 1 & 2 :—	1984-85	9749	2384	1236	60,76,754	13,34,749	6,40,847
	1985-86	9691	2900	1021	51,57,634	15,00,211	7,83,944
	1986-87	8198	2862	1310	57,10,873	16,75,462	8,35,757
(3) Recovery of expenses under Section 490 for removal of encroachment under Section 314.	1984-85	...	...	...	29,64,358	7,92,474	2,74,554
	1985-86	...	...	...	24,47,917	14,40,352	8,44,123
	1986-87	...	...	...	27,76,263	26,71,961	8,12,604
GRAND TOTAL :—	1984-85	9749	2384	1236	90,41,112	21,27,223	9,15,401
	1985-86	9691	2900	1021	76,05,551	29,40,563	16,28,067
	1986-87	8198	2862	1310	84,87,136	43,47,423	16,48,361

## APPENDIX — 'D'

STATEMENT SHOWING THE NUMBER OF LICENCES ISSUED IN RESPECT OF STALL BOARD, ETC.,  
PROJECTION IN CITY, SUBURBS AND EXTENDED SUBURBS DURING THE YEAR  
1984-85 to 1986-87 UNDER SECTION 313(1)(b)(c)

YEAR	NUMBER OF LICENCES ISSUED			AMOUNT OF FESS COLLECTED (In Rs.)		
	CITY	WESTERN SUBURBS	EASTERN SUBURBS	CITY	WESTERN SUBURBS	EASTERN SUBURBS
1984-85	42,072	2071	1220	84,99,053	3,67,129	2,03,078
1985-86	41,940	2,316	1,010	79,43,350	4,64,570	2,31,365
1986-87	37,687	2,224	1,221	89,57,859	4,47,795	2,17,868

## SHOPS & ESTABLISHMENTS ACT. 1948

### Salient Features

Revenue Receipts	34,22,444.45
Expenditure on different activities (Exclusively of Provident Fund and Supervision charges)	45,23,272.29
Number of establishments registered	2,73,463
Number of employees working therein	8,27,065 <sup>d</sup>
Complaints received	1,237
Complaints disposed of	1,278
Prosecution Launched	13,489
Cases decided	12,367
Total fine realised	Rs. 10,91,467.00
Benefit realised for workmen by filing claims under payment of Wages Act	Rs. 23,327.65
Grant-in-aid received during the year for the year 1985-86.	NIL
Amount of Trade Refuse Charges collected	36,23,232.50

### Working under Minimum Wages Act :

1) No. of establishments visited	8,770
2) No. of employees benefited	1,558
3) Amount of benefit given	11,51,943.35

This department administers Bombay Shops & Establishments Act, 1948, Payment of Wages Act, 1936, Minimum Wages Act 1948 and Maternity Benefit Act 1961 throughout the Greater Bombay on behalf of the State Government.

This department consist of following staff.

1. Chief Inspector	1
2. Dy. Chief Inspector	4
3. Sr. Inspectors	29
4. Jr. Inspectors	56
5. Indoor staff	44
6. Sr. Shop Attendants	7
7. Shop Attendants & Peon	45

The total number of establishments registered under the Bombay Shops & Establishments Act, 1948 were 2,73,463 and their classification is shown in Appendix 'A'.

The number of complaints pending at the beginning of the year were 194. The total number of complaints received during the year were 1237, making a total of 1431 out of which 1278 were disposed of as detailed in Appendix 'B' Similarly, total number of prosecutions launched under the Bombay Shops & Estts. Act, 1948 during the year were 13489 out of which 12367 prosecutions were decided resulting in infliction of fine of Rs. 10,91,467/-

In the year 1986-87 there was excess of expenditure over income on the administration of the Shops & Establishments Act, 1948. The total expenditure incurred on different activities of the department during the year was Rs. 45,23,272.29 (exclusive of provident fund, leave contribution and supervision charges) as against the total income by way of Registration fees etc. during the year was Rs. 34,22,444.45.

The total number of visits paid to the estts. for the purpose of enforcement of Minimum Wages Act, 1948 during the year under report were 8770 out of which 4652 were Shops, 2978 commercial establishments, 908 for residential hotels, eating houses and restaurants and 232 for theatres.

As a result of intervention of Inspectors of this department 1558 employees are benefitted by way of arrears in wages due to revision of special allowances etc. to the tune of Rs. 11,51,943.35.

In all 1514 Mass Raids were carried out during the year for the purpose of the enforcement of the provisions of Bombay Shops & Establishments Act, 1948 and Minimum Wages Act.



The total number of prosecutions filed under Minimum Wages Act is 185, and fine inflicted is Rs. 25,355/-

Also 2 claims under Sec. 15 of Payment of Wages were filed and the agrived employees are benefited to the tune of Rs. 23,327.65.

As per administrator's resolution No. 752 of 22-10-1984 employers of the establishment registered under Bombay Shops & Establishments Act, 1948 have to pay trade refuse charges equal to the fees of registration/renewal. The work of collecting, these charges have been assigned to this department by S. W. M. During the year 1986-87, the Inspectors have collected Rs. 36,23,232.50 on this account and have been credited to that Department.

### APPENDIX 'A' Registered Establishments

Category	City	Western Subs.	Eastern Subs.	Total
Shops	81,408	42,458	29,922	1,53,788
Commercial Estts.	72,999	22,159	11,738	1,06,896
Residential Hotels	526	179	49	754
Restaurants & Eating Houses	6,201	2,983	2,609	11,793
Theatres	124	68	40	232
<b>Total :</b>	<b>1,61,258</b>	<b>67,847</b>	<b>44,358</b>	<b>2,73,463</b>

### APPENDIX 'B' Complaints Received

Category	Outstanding at the beginning of the year			Received during the year			Investigated during the year			Pending at the end of the year		
	City	W. Sub.	E. Sub.	City	W. Sub.	E. Sub.	City	W. Sub.	E. Sub.	City	W. Sub.	E. Sub.
Shops & Estts. Act, 1948	171	8	15	968	180	89	999	180	99	140	8	5
Payment of Wages Act, 1936	4	—	—	5	9	3	5	9	3	4	—	—
Minimum Wages Act, 1948.	602	—	—	70	1	3	672	1	3	—	—	—

## MUNICIPAL GARDENS

(1) Income	Rs. 6,68,965
(2) Expenditure	Rs. 2,95,67,066
(3) Amount spent on Zoo	Rs. 23,62,191
(4) Expenditure on Special Repairs & New Works	Rs. 27,87,787
(5) Recreation activities added during the year 1986-87.	

	VJBU	City	W. S.	E. S.	Total
(1) Gardens		1 increased (—2 gardens converted into P. G.)	2	3	6
(2) Playgrounds		+ 2 (by conversion of Garden) (increased —3 (3 dismantled).	3	2	7
(3) Fountains		— 3 (dismantled).	...	2	2
(4) Gardens attached to Municipal Bldg.		...	...	...	...
(5) Bandstand		...	...	...	...
(6) Traffic Islands		+ 22	8	5	35
(7) Nurseries		...	...	...	...
(8) Plant Sale Counters		...	...	...	...
(9) Plants distributed	12617	675	9000	16000	38292
(10) Trees planted	35	885	3409	2972	7301

The Gardens department looks after the recreational activities of the Corporation and is at present having 281 gardens, 158 playgrounds, 35 gardens attached to the Municipal Building, 132 traffic islands gardens, 60 water fountains, 13 bandstand, 22 nurseries and 3 sale counter all over Greater Bombay.

Veermata Jijabai Bhosle Udyan which is centrally located has remained one of the best attractions to the visitors as was in the past. Joy rides, shady trees and modern play apparatus installed in the Garden regaled the childrens and visitors.

A Japanese Garden is constructed by Yokohama City landscape consortium on behalf of the city council of Yokohama at a centrally located plot of about 2,400 Sq.M. near fountain. At the centre of the Japanese Garden, there is a pond which is surrounded by a stream, a water-fall and a pergola. Another interesting feature of the garden is the Kabulki Gate which is made up of teak wood. It is one of the most picturesque beauty spot in the V. J. B. Udyan. The pond is skirted by a passage from one where can observe different facets of the garden while walking around it. There are tasteful artistic stones, stepping stones and wooden bridge. Besides there is a snow view stones lantern installed in the garden which represents its symbolic meaning as originally being used for lighting.

During the year 1986-87, 5 spotted deers, 4 Samber deers, 1 white Ibis, 1 Cockateel, 1 Hippopotamus, 3 Jackal and 1 Barking deer were borned in the Zoo. In addition 2 stripped Hyena (Cub) one spotted deer, 14 Military Macaws were donated by the visitors, by Ganeshpuri Ashram and by the Regional Deputy Director (Wildlife), Govt. of India respectively. Similarly one Samber deer was donated to the Prime Minister of India for giving a gift to the President of Zimbabwe from this Zoo. In addition to the above, 7 Samber deers (4 male and 3 female), 6 Indian Goose, 4 White Ibis, 2 painted stork and 2 pond Heron have been shifted to Powai/Vihar Park in March 1987.

Similary 20 Nos. of Budgerigers, 12 Indian Cobras, 208 Water Snakes and 9 Sandboa snakes were purchased during the year under report.

The work of construction of bird cage 10 units which glass fronts have now been completed satisfactorily.

#### Anna Bhau Sathé Open Air Theatre :

The Open Air Theatre has been closed since June, 1984.

#### Recreation Activities :

During the year under report 6 Gardens, 7 Playgrounds and 35 Traffic Islands Gardens are added. The existing gardens and playgrounds in the City, Eastern Suburbs and Western Suburbs having beautiful trees, shrubs, green lawns and flower beds were maintained properly.

During the year under report 2 gardens converted in to P. G., 3 Playgrounds dismantled and 3 fountain dismantled.

#### Fountains :

There are 60 fountains in Greater Mumbai Limit which have added to the beauty of the city with their cascading water and multi coloured lights.

#### Tree Plantation :

During the year 1986-87 a mass tree plantation programme was undertaken to combat the evil effects of Air pollution. 920 trees in the City, 3,409 trees in the Western Suburbs and 2,972 trees in Eastern Suburbs were planted. As a part of grow more campaign 38,292 plants were distributed to the public free of cost.

#### Maintenance of Gardens and Playgrounds :

Sr. No.	Description	VJBU & CITY	W. S.	E. S.	Total
1.	Gardens	142	72	67	281
2.	Playgrounds	90	35	30	161
3.	Gardens attached to Municipal Buildings	16	16	9	41
4.	Fountains	31	12	17	60
5.	Band Stands	7	3	3	13
6.	Box Hedges	1	1	—	2
7.	Statues	14	2	4	20
8.	Traffic Islands Gardens	93	24	15	132
9.	Nurseries	9	8	7	24
10.	Sale Counters	1	1	1	3
11.	Plantation of trees	920	3409	2972	7301
12.	Existing trees	31681	27909	38654	98244

Supdt. of Gardens.

## MUNICIPAL FREE READING ROOM AND LIBRARIES

There are 31 Municipal Free Reading Rooms and Libraries, (including one circulating library). Out of these 26 Libraries (20 on Div. I, 3 on Div. II (W-Sub) and 3 on Div. II (E-Sub) are being managed by the Mumbai Marathi Granthasangrahalaya as per C. R. No. 1822 of 17-3-81. The remaining five libraries [4 on Div. I and 1 on Div. II (W-Sub)] are being conducted by the Municipal Corporation Greater Bombay.

Periodical insecticide treatment was given during the year to the library premises.

The details of books purchased, number of visitors, income and expenditure etc.

Particulars	Division I		Division II (W-S)		Division II (E-S)	
	1985-86	1986-87	1985-86	1986-87	1985-86	1986-87
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Books Purchased	333	**	217	**	---	---
Cost of the books (excluding discount)	6711	**	5697	**	---	---
Number of visitors	23249	25352	27916	16979	---	---
Income	43367	21603	9203	12863	3240	†12960
Expenditure excluding grant paid to the M. M. Grantha Sangrahalaya	159182	184775	48676	49723	182	---
Grant paid to the M. M. Grantha Sangrahalaya.	240000	240000	36000	36000	36000	36000

During the course of the year, Sobani Municipal Free Reading Room and Library remained closed as per M. C.'s order under No. MDB/1065 of 22-12-83. The premises of Halai Memon Muni. F. R. R. and Library is handed over to the owners/trustees of Minara Masjid Trust for repairs/reconstruction after obtaining registered undertaking from them.

\* No new books were purchased for want of sufficient furniture articles to store the books.

† The figures include the recovery from Mumbai Marathi Grantha Sangrahalaya of arrears of compensation for the use and occupation of the library premises at the revised rate.

Chief Librarian i/c.,  
Muni. F. R. R. and Libraries.

## ADMINISTRATION REPORT FOR THE YEAR, 1986-87. DR. BHAU DAJI LAD MUSEUM (ESTD. 1985)

The Museum formerly known as Victoria and Albert Museum was handed over to the Corporation by the Bombay Government in 1885. It was renamed on 1st November, 1975 as Dr. Bhau Daji Lad Museum.

The exhibits in the Museum are classified in different sections, such as Agriculture & Village-Life, Armoury, Cottage-Industries, Ethnology, Fine-Arts, Fossils, Indian-Coins, Minerals, Miscellaneous-Collection, Old-Bombay Collection, Pre-History & Geology and Religion & Mythology. A Coin-Cabinet contains Ancient Indian Coins. The Reference Library of the Museum contains books on Art, Archaeology, Old-Bombay, History etc. Eighteen volumes contain specimens of Indian Textile. These are made available for reference/perusal on request.

Regular Soil-Treatment against the White Ants was continued during the year.

Special efforts were made to enrich the Old-Bombay Section of the Reference Library by purchasing rare books.

National Museum New Delhi has extended their help to restore Non Indian Origin Art Work & Literature under the Scheme of Government of India and Art work on Himalayan Paintings and Six Books have been sent to National Museum, New Delhi. They have also agreed to restore Marble and Bronze Statues damaged in riots which are kept in the vicinity of Museum premises. It is likely that the work of restoration of these Statues will be taken in hand in October/November, 1987.

Necessary help was rendered to the Scholars and Persons interested in the different sections of the exhibits in bringing out articles, thesis etc.

New Brief Guide to the Museum was got printed at the Municipal Printing Press and the same is made available to the public at Rs. 2/-.

Steps were taken to appoint Qualified Curator. However, no suitable candidate was available and hence the Office Superintendent appointed in the Museum has been entrusted with the work of looking after the duties of the Curator.

The Grant of Rs. 31,057/- sanctioned by the Government of India during the year 1983-84 for the work of Water-Proofing the Terrace of the Museum with bitumen felt was received in May, 1986.

The grant of Rs. 4,350/- was also received in May, 1986 being the first instalment of Grant sanctioned by the Government of India during the year 1985-86 for replacing Iron Angle Supports of the Cornice.

(M. D. MISTRY),

Curator, I/c

Dr. Bhau Daji Lad Museum.

### THE DETAILS REGARDING THE NUMBER OF VISITORS, SALE PROCEEDS OF ADMISSION - TICKETS, TOTAL EXPENDITURE ETC.

PARTICULARS.	1985-86.	1986-87
The Number of days Museum was kept open.	267 *	144 *
Total Number of visitors	6,93,160 *	3,47,063 *
Sale proceeds of Admission Tickets.	1,07,273.90	1,13,404.00
Sale proceeds of Museum Guides and Minor Receipts.	766.00	796.50
Fees for taking photographs	958.00	1,058.00
Sale proceeds of Scrap, Waste papers etc.	---	---
Receipt of grant from the Central Government.	---	35,407.00 @
Total expenditure (excluding the amount spend from the grant from the Central Government.	3,09,657.00	3,18,210.00

#### NOTES : -

\* Dr. Bhau Daji Lad Museum was kept closed for the painting purpose from 10-2-1986 to 15 10 1986.

\*\* Rate of the Admission Tickets has been revised from 00.20 Paise to 00.50 Paise, with effect from 16-12-1985.

@ The grant of Rs. 31,057/- and Rs. 4,350/- (total Rs. 35,407/-) sanctioned by the Government of India received for the work of Water Proofing the Terrace of the Museum with Bitumen felt and for replacing Iron Angle supports of the cornice of the Museum Building respectively.

## MUNICIPAL SWIMMING POOLS

All the Municipal Swimming Pools in Greater Bombay viz., Mahatma Gandhi Memorial Olympic Swimming Pool at Dadar, Ghatkopar Lions Municipal Swimming Pool at Ghatkopar, Nirlon Olympic Municipal Swimming Pool at Goregaon, Municipal Swimming Pool at Mulund Sports Complex, were fully utilised by the public during the year under report. The number of casual swimmers and the regular members are on the increased scale from year to year. Concessional facilities for the school were adequately utilised by schools. Sardar Vallabhai Patel Municipal Swimming Pool at Knadivli is closed for repair, since November 1984.

At Mulund Sports Complex Swimming Pool, the membership has not been started. The admissions to the casual swimmers are being given.

34th Anniversary of the M. G. M. O. Swimming Pool was observed on 27th April 1987 by holding swimming competitions amongst the members of all Municipal Swimming Pools.

Junior National Aquatic Championship was held at Banglore from 27th to 30th August 1986, 3 members were participated in the meet.

M. G. M. O. Water Pole League Tournament held at M. G. M. O. Swimming Pool during August 1986.

### FINANCIAL

Swimming Pool		Income	Expenditure
		Rs.	Rs.
1.	M. G. M. O. Swimming Pool, Dadar.	10,49,889	6,73,170
2.	M. O. M. Swimming Pool, Goregaon.	3,10,472	4,44,523
3.	S. V. P. Swimming Pool, Kandivali.	18,200	3,61,876
4.	Ghatkopar Lions Municipal Swimming Pool, Ghatkopar.	7,67,509	4,45,454
5.	Mulund Swimming Pool.	2,91,742	9,56,300

### SWIMMERS

Swimming Pool	New Adm.	Casual Swimmers	School Children	No. of Institution	Private reservation
1. M. G. M. O. S. Pool, Dadar.	9752	13,128	2900	44	645 Hours Rs. 47,900/-
2. N. O. M. S. Pool, Goregaon.	1048	63,072	345	7	39 Hours Rs. 4,095/-
3. S. V. P. Swimming Pool, Kandivli.	—	—	—	—	—
4. G. L. M. S. Pool, Ghatkopar.	2726	80,000	694	6	103 Hours Rs. 11,072/-
5. Mulund Swimming Pool.	—	1,35,464	—	—	—

sd/-  
Manager,  
M. G. M. O. Swimming Pool.

N. B. —The expenditure in respect of M. G. M. O. S. Pool, is exclusive of following charges :—

- (1) Water supply made by H. E. to Swimming Pool, Dressing room, staff quarters, Manager's Bunglow.
- (2) Service charges for the service rendered by —
  - (i) A. E. (Design) workshops.
  - (ii) A. E. (Workshop).
  - (iii) A. E. (Elec. Int.) M. Workshop.
  - (iv) Municipal Analyst.
  - (v) A. E. Water Worker (Maint.), including supply of chlorine cyclinder.
  - (vi) A. H. S. G/N.
  - (vii) P. C. O. (G/N).
- (3) Establishment cost or Security Guards.

## RAJA DR. BALDEV DAS BIRLA KREEDA KENDRA

Raja Dr. Baldevdas Birla Kreedā Kendra, has a multipurpose auditorium, fully Air-conditioned and equipped with normal electrical accessories viz., flood lights, spot lights, solar lights, full set of Loud Speakers with six mikes etc., required for staging dramas or Musical concerts. The auditorium has a seating capacity 625 push back type chairs. The auditorium is rented to various organisations and individuals for staging dramas, Musical entertainments, social functions meeting etc.

Children Hall and Boat house are also rented for drama rehearsal and meeting. Municipal departments arrange their programmes at Birla Kreedā Kendra. These included.

- (a) One Act plays of Welfare Centres of Labour Department.
- (b) Inter-Ward and Inter Departmental Dramatic competition organised by Labour Department.
- (c) Sports and Guide meetings of Education Department.
- (d) Prize Distribution functions of Education Department and Health Department.
- (e) Mayors Award and other functions organised by Municipal Secretary, Public Relation Department and Hospitals and Medical Colleges.
- (f) Fare well functions in honour of staff.
- (g) Gathering and other functions of Municipal Medical Colleges and Hospitals.

Birla Kreedā Kendra has a first Grade Restaurant on its premises. It is open to the audience as well as to the public. Terrance Garden is visited by the public for sight seeing. The garden is also rented for marriage reception, lunches and dinners.

During the year under report the auditorium, Boat House, children Hall, Garden were booked as under : —

(1) Auditorium	(a) For Programme	191 Sessions
	(b) For Rehearsal	—
(2) Boat House	602 Sessions	(Birla Kreedā Kendra was closed for major
(3) Children Hall	728 Sessions	structural repairs from 9-2-85 to 17-1-87).
(4) Garden for Parties Reception etc.	344 Sessions	

The expenditure was restricted to the Budgetary provisions whereas the programme conducted and the income derived therefrom were more than anticipated figure in the performance Budget.

An amount of Rs. 4,40,120/- was collected by way of revenue and an amount of Rs. 3,97,780/- was expended on salary of staff and other items of maintenance.

## Ward Officer (Removal of Encroachments)

Functions of Removal of Encroachments Department.

- (1) Arranging mass demolition works as and when required by the administration to (1) clear up project sites for construction and training of nallas (2) Sewer lines (3) Water mains (4) Plots under reservations for play-ground and garden.
- (2) Demolition of specific cases in sensitive areas as and when required by the Administration.
- (3) Investigation of cases referred to this department by M.C./A.M.C. (W)/D.M.C. (Z-I) and submitting detailed and factual reports.
- (4) Providing police assistance from Naigaum to different wards by preparing weekly programmes.
- (5) Detecting unauthorised constructions on mass scale or individual cases, referring such cases to wards and getting them demolished through ward by providing them police assistance and by follow up.
- (6) Specific complaints are also received in this office about non action of the ward staff for a considerable long period. This office will investigate the case and follow up with the ward upto proper conclusions.

W.O. (R.E.) I/c.

-D. M. C. (Z-I)

### Demolitions done by W.O. (R.E.)'s Dept. 1986-87

Date	Ward	Demolitions carried out
7th-8th May 86.	G/N	Demolition of 1000 godowns at Dharavi near Jogleka Nallah. Demolition was done at project site to facilitate construction of and training of Nalla.
24 April 86	M/E	Demolition of Religious places like Shabbir & Saibaba Temple at Baganwadi Deonal.
15th-16th May 86.	F/N	Demolition of unauthorised structures on the banks of project site of J. K. Chemical Nalla to facilitate construction and training of Nalla. 500 structures demolished on 15th May 1986. Demolition on 16th could not be done due to political interference.
21st-22nd May 1986	L	Demolition of unauthorised structures along the banks of Mithi river to facilitate the training and desilting of the river before monsoon.
26th, 28th 30th June, 1st July 1986.	M/E	Demolition of unauthorised construction of first floors at Shivaji Nagar, Baiganwadi. Demolition of 1-7-1986 could not be carried out as there was a strong morcha to M/E ward office against demolition.
8th July 86.	P/N	Demolition of 34 unauthorised rooms constructed by slum-lords at Iraniwadi, Valnai, Marve Road, Malad (West).
15th July 1986.	L	Demolition of unauthorised Shiv Sena Office at Mohili village, Near Vihar pipeline.
10th July 1986.	R/N	Demolition of 24 unauthorised rooms at Magthane, Borivli (E).
22nd July 1986.	F/S	Demolition of unauthorised party office of Shri Sharad Khatu, MLA, at Lalbaug.
20th Aug. 1986.	M/E	Demolition of unauthorised godowns at Zakhir Hussain Naggar, Opp-Deonar Dumping Ground.
23rd Sept. 1986.	P/N	Demolition of 34 unauthorised rooms at Iraniwadi, Valnai, Marve Road, Malad (W) For which injunction was vacated on 22nd September 1986.
16th Oct. 1986.	M/E	Demolition of 150 unauthorised structure on plot No. 50 at Shivaji Nagar, Bainganwadi. The plot had to be cleared for original allottees given alternate accommodation.
19th Oct. 1986.	A	Removal of vagrants near Oval and shifting them to Mankhurd. 35 vagrants removed.



Date	Ward	Demolition carried out
21st, 22nd & 23rd Oct. 1986.	M/W	Demolition of 50 unauthorised structures on 21st and 55 on 22nd for which notice formalities under section 351 of BMC Act, were completed by K/W on 23rd Oct. demolition could not be carried out as there was a Morcha against the demolition done on previous days.
10th Nov. 1986.	P/N	Demolition of unauthorised structures at Valnai and at Bombay talkies. 45 Nos.
13th Nov. 1986	P/N	Demolition of unauthorised rooms at Iraniwadi, Valnai. 17 rooms were demolished for which injunctions were vacated on 12th November 1986.
19th Nov. 1986.	P/N	Demolition of unauthorised rooms. 8 Nos. Newly construction and vacant at Datta Mandir Road.
22nd Nov. 1986.	R/S	Demolition of 30 unauthorised structures at Poisar, Kandivali (East).
26th Nov. 1986.	L	Demolition of 300 unauthorised structures at Rahul Nagar, Opp. R. C. F. Plot reserved for Botanical garden.
28th Nov. 1986.	L	Demolition of 100 unauthorised structures at Rahul Nagar Opp. R. C. F. Plot reserved for botanical garden.
10th Dec. 1986.	A	Demolition of unauthorised 300 structures at Rajiv Nagar, Nariman point, Plot reserved for garden.
12th Dec. 1986.	L	Demolition of unauthorised structures re-erected at Rahul Nagar. 100 Nos. Plot reserved for Botanical Garden.
16th Dec. 1986.	L	Demolition of unauthorised structures at Gandhi Maidan. 100 structures. Plot reserved for play-ground.
23rd Dec. 1986.	G/S	Demolition of 35 unauthorised structures on E. Mose Road, G/S Ward.
23rd Dec. 1986.	L	Demolition of unauthorised structure on Match Factory Lane coming in the set back of the road as per specific orders of A.M.C. (R).
8th Jan. 1987.	G/N	Demolition of 310 unauthorised structures on L.B.S. Marg, Near Sion Station.
12th Jan. 1987.	C & D	Removal action along Maulana Shaukat Ali Road on both sides of the footpath.
13th Jan. 1987.	L	Demolition of 30 rooms at Asalfa village Kurla.
15th Jan. 1987.	L	Demolition of unauthorised 70 structures along Mithi river behind Lion Garden.
28th Jan. 1987.	R/N	Demolition of 3 unauthorised bungalows at Gorai, Borivli (W).
30th Jan. 1987.	A	Demolition of 200 unauthorised structures at Machhimar, plot reserved for garden.
5th Feb. 1987	R/S	Demolition of 4 unauthorised huge commercial structures at Singh Estate, Samta Nagar, Kandivali (East).
20th, 21st, 23rd, 24th & 25th, Feb. 1987.	G/S	Removal of unauthorised structures on the banks of Lovegrove Nalla to facilitate the construction of Nalla.
9th March to 13th march 1987.	F/N	Demolition of 35 unauthorised structures at Vardaraj Nagar, Antop Hill to facilitate construction of Nalla. Structures obstructing construction of Sidewalls and filling work.
18th March 1987.	M/E	Removal of vagrants from Nepean Sea road to Chembur, about 200 vagrants shifted.
27th March 1987	R/N	Demolition of unauthorised bungalows at Gorai.