

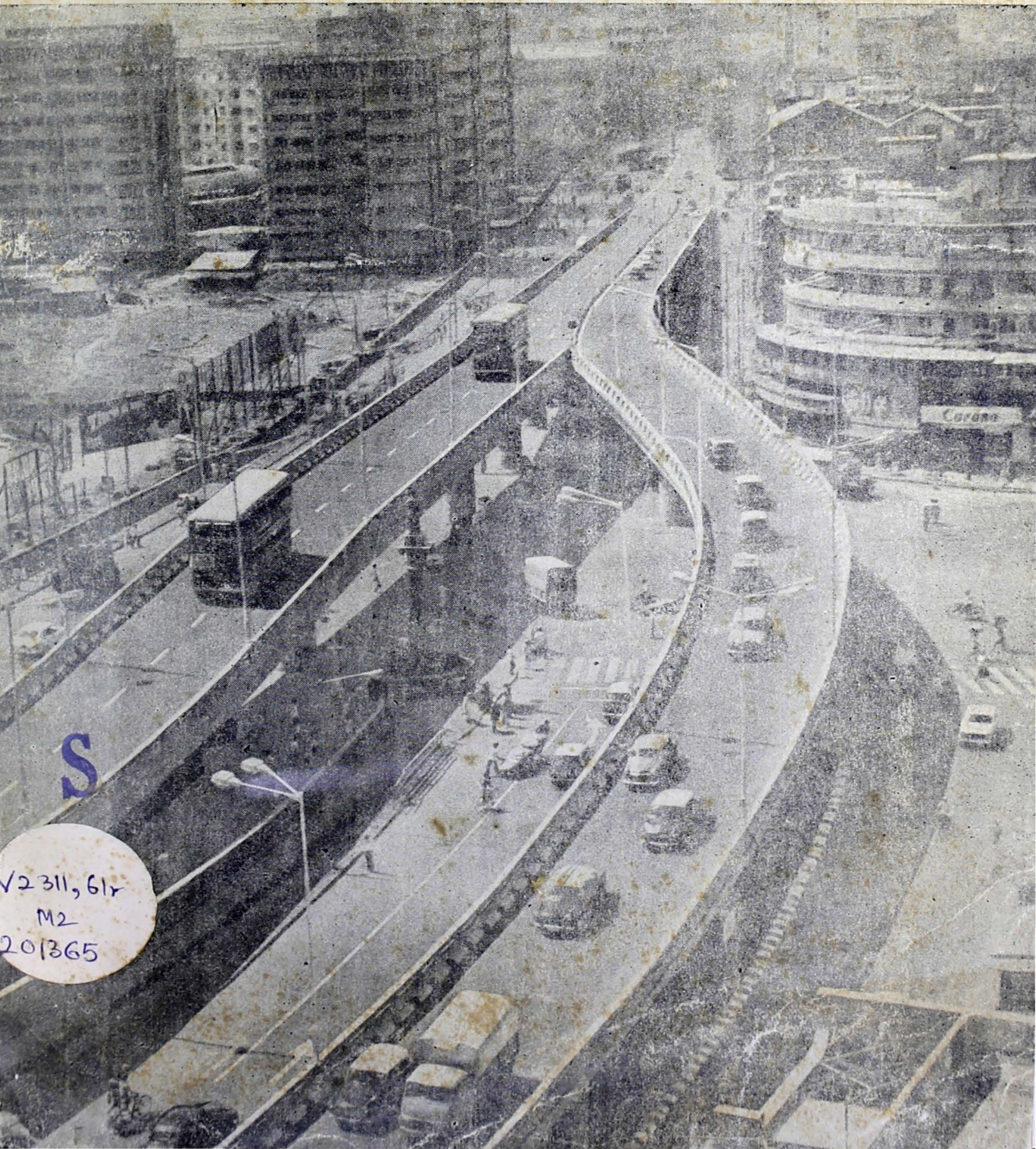


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Administration Report of the Municipal Commissioner for Greater Bombay 1981-82

City, Suburbs and Extended Suburbs



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Administration Report of the Municipal Commissioner for Greater Bombay 1981-82

City, Suburbs and Extended Suburbs

CONTENTS

	PAGE
COMMISSIONER'S REPORT	i
ACCOMPANIMENTS	
1.—GENERAL	1-9
GENERAL ADMINISTRATION—	
2.—Ward Offices	10
3.—Central Control Room	10
4.—O. & M. Division	11-12
5.—Public Relations and Civic Journal	13-14
6.—W. O. (B. C. Cell)	15-17
7.—Vigilance Branch of Engg.	18
8.—Labour Department	19-21
9.—Legal Department	22-23
10.—Central Stores	24
11.—Enquiries	25
12.—Security Force	26-27
13.—Printing Press	28-29
14.—Rota Printing Unit	30
15.—FINANCE	31-78
16.—REVENUE AND ELECTIONS	79-88
17.—EDUCATION	89-98
18.—PUBLIC HEALTH	99-116
MEDICAL RELIEF AND EDUCATION—	
19.—K. E. M. Hospital and Seth G. S. M. College	117-162
20.—B. Y. L. Nair Charitable Hospital and T. N. M. College	163-214
21.—L. T. M. G. Hospital and Medical College	215-236
22.—Nair Hospital Dental College	237-246
23.—G. T. B. Hospital and Clinics	247-252
24.—Seth A. J. Bankebihari E. N. T. Hospital	253-254
25.—Rajawadi Hospital, Ghatkopar	255-266
26.—K. B. Bhabha Hospital, Bandra	267-274
27.—R. N. Cooper Hospital, Juhu	275-290
28.—H. B. M. G. Hospital, Borivali	291-294
29.—ENGINEERING	295-334
30.—ESTATE & LAND MANAGEMENT (W. O. (E.))	335-344
31.—FIRE BRIGADE	345-356
MARKETS & SLAUGHTER HOUSES—	
32.—W.O. Markets	357-358
33.—Deonar Abattoir	359-360
34.—LICENCES DEPARTMENT	361-364
35.—SHOP & ESTABLISHMENT DEPARTMENT	365-366
RECREATIONAL ACTIVITIES—	
36.—Gardens and Open Spaces	367-368
37.—Libraries	369
38.—Museum	370
39.—Swimming Pools	371
40.—Birla Krida Kendra	372

**ADMINISTRATION REPORT OF
MUNICIPAL CORPORATION OF GREATER BOMBAY
FOR THE YEAR 1981-82**

"I am presenting herewith the Administration Report for the year 1981-82 in pursuance of section 124 of the Bombay Municipal Corporation Act.

This year too, every effort was made to render Civic services and to complete Civic projects as effectively and as efficiently as possible within the available resources, subject of course to the limitation of Law and Socio Economic constraints."

D. M. SUKTHANKAR,
Municipal Commissioner.

GENERAL

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

CORPORATION :

Dr. A. U. Memon, who was elected Mayor at the First Meeting of the Corporation held on 2nd April 1981, held that Office throughout the year.

One hundred and fifty-five Meetings of the Corporation, including fourteen Special Meetings and adjourned Special Meetings, One hundred and three Meetings of Special Committees and Seventeen Meetings of the Consultative Committees were held during the year.

The total number of Councillors has been reduced from 140 to 139 as Shri S. S. Patel ceased to be a Municipal Councillor with effect from 20th March 1982 due to expiry of maximum leave of absence permissible under provisions of Section 17(d) of the B. M. C. Act.

STANDING COMMITTEE :

Shri P. S. Sharma, who was elected Chairman of the Standing Committee at the Committee Meeting held on 10th April 1981 held that Office throughout the year.

Shri D. B. Nare was elected on 17-9-1981 *vide* Dr. A. U. Memon resigned.

One hundred and seventy-four Meetings, including regular and Adjourned Meetings and Special Meetings and Adjourned Special Meetings, were held during the year. No Meeting of the Sub-Committee was held during the year.

IMPROVEMENTS COMMITTEE :

Shri N. K. Baria, who was elected Chairman of the Improvements Committee at their Meeting held on 11th April 1981, held that office throughout the year.

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

Sixty-two Meetings including Regular, Adjourned and Special Meetings were held during the year. No Meeting of the Sub-Committee was held during the year.

EDUCATION COMMITTEE :

Shri A. K. Dabholkar who was elected Chairman of the Education Committee at their Meeting held on 8th April 1981, held that Office throughout the year.

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

Twenty-eight Meetings including regular and Adjourned Meetings and Special Meetings and Adjourned Special Meetings were held during the year. One Meeting 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.

Four Meetings of the Tree Authority were held during the year.

Shri K. N. Kolhatkar continued to hold the post of Municipal Secretary during the year under Report.

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

There was no separate Award of Adjudication during the Year 1981-82 so far as this department is concerned.

LIST OF MEMBERS WHO HELD OFFICE AS ON 31ST MARCH 1982.

CORPORATION

DR. A. U. MEMON, *Mayor.*SHRI P. S. SHARMA, *Chairman, Standing Committee.*SHRI N. K. BARIA, *Chairman, Improvements Committee.*SHRI A. K. DABHOLKAR, B.SC., LL.B., *Chairman, Education Committee.*SHRI R. P. LAUD, *Chairman, B. E. S. & T. Committee.*

AMIN, SHRI B.H.
 ACHARYA, SHRI S.N.
 ANKLESWARIA, SHRI R. C., B.SC., B.T., S.T.C., M.ED.
 AMBRE, SHRI S.S.
 OOMMACHEN, SHRI C.D.
 KADAM, SHRI P.R.
 KADAM, SHRI R.T.
 KAVTHE, SHRI M.N.
 KAZI PROF. A.A., M.A., LL.B.
 KANDALGAONKAR, SHRI M.K.
 QURESHI, SHRI G.G.
 KULKARNI, SMT. SHALINI P.
 KOPARDE, SHRI E. R., B.A.
 KOLI, SHRI Y.P.
 CONTRACTOR, SHRI A.S.
 KHADYE, SHRI V.P.
 KHAN, SHRI F.A., M.A., LL.B.
 KHAN, DR. H.R., B.T.M.B.
 KHANDWANI, SHRI M.A.
 GAJMAL, SHRI G.D.
 GAIKWAD, SHRI V.B.
 GAWDE, SHRI B.R.
 GOYAL, SMT. CHANDRAKANTA V.
 GAMBHIR, SHRI S.A.
 GANDHI, SHRI V.R.
 CHATURVEDI, SHRI M.M.
 CHAVAN, SHRI M.G.
 CHAVAN, SHRI R.N.
 CHAVAN, SHRI S.S.
 CHAVAN, SHRI S.B.
 CHAPHEKAR, SHRI A.M.
 CHARNIA, SHRI J.V.
 CHIMBULKAR, SHRI R.K.
 CHOPRA, SHRI B.M.
 CHADDA, SHRI V.M.
 CHHABRIYA, SHRI K.P.
 JADHAV, SHRI B.K.
 JADHAV, SHRI L.M.
 JANI, SHRI D.D., B.A., LL.B.
 JEELANI, SHRI K.G.
 ZARAPKAR, SHRI D.G.
 ZUTE, SHRI B.D.
 THAKARE, SHRI G.S., B.COM.
 THANEKAR, SHRI K.B.
 D'CRUZ, SHRI C.R.
 D'MELLOW, SHRI V.C.
 TANNA, SHRI J.M.
 TARIQ, SHRI S.A.
 DALAL, SHRI B.C.
 DALVI, SHRI V.S.
 DUTIA, SHRI G.B.
 DUBE, SHRI O.M.
 DURE, SHRI R.M.
 DESAI, SMT. ALKA A., S.T.C. T.D.
 DHARAP, SHRI V. G., B.A., LL.B.
 NARE, SHRI D.B.
 NALAWDE, SHRI DATTA.
 NAIK, SHRI B.A.
 NAIK, SHRI M.R.
 NARVEKAR, SHRI S.M.
 NIKLANKAR, SHRI P.D.
 NEVREKAR, SHRI K.R.
 PATEL, SMT. INDUMATI T., B.A.
 PATEL, SHRI M.H.S.
 PATHAN, SHRI M.N.
 PADWAL, SHRI C.S.
 PADWAL, SHRI R.V.

PADWAL, SHRI H.P.
 PARMAR, SHRI N.D.
 PARIHAR, SMT. PARVATI L.
 PAWAR, SHRI N.B., B.A., LL.B., ADVOCATE, HIGH COURT.
 PARVATKAR, SHRI V.M.
 PATIL, SHRI A.W.
 PATIL, SHRI J.M.
 PATIL, SHRI B.H.
 PATIL, SMT. MANORAMA D.
 PAREKH, SHRI P.R.
 PAREKH, SHRI M.C.
 PASHTE, SHRI A.P., B.A. LL.B.
 PASI, SHRI N.M.
 PUJARI, SHRI N.L., B.A., LL.B.
 PAI, DR. P.S.
 PRADHAN, SHRI D. S.
 PRABHOO, DR. R.Y., M.B.B.S. (BOM.)
 FALNIKAR, SMT. NEELA V.
 BACHHAV, SMT. PRAMILA S.
 BEDI, SHRI M.H.
 BOMAN-BEHRAM, SHRI B.K., M.A., LL.B.
 BHAVE SHRI M.G.
 BHUJBAL, SHRI C.C., L.M.E.
 MERCHANT, SHRI Y.M.
 MADHUKUNTA, SHRI D. K.
 MAYEKAR SHRI R. S.
 MAHAJAN, DR. (SMT.) BAKHTAVER S.
 MAHADIK, SHRI V. S. B.A (HON.), L.S.G.D.
 MAHALKARI, SHRI G. G.
 MANE SHRI A. G.
 MANJREKAR, SHRI V. S.
 MAJUMUNDAR, DR. S. R., G.F., A.M.
 MULAKWAD, SHRI L. F.
 MENON, SHRI C. B.
 MEHTA, SHRI C. S., B.Com., F.C.A.
 MEHTA, SHRI RUSI M.
 MHATRE, SHRI P. A.
 YADAV, SHRI B. M.
 RANE, SMT. SUGANDHA M.
 RAO, SHRI SHARAD.
 WAGLE, SMT. PUSHPALATA M.
 WAGHELA, SHRI R. Z.
 VANU, SHRI NIYAZ A. L.
 WELKAR, SMT. ASHA S.
 VAIDYA, SHRI P. V., B.A., LL.B. Advocate.
 SHAH, SHRI N. M.
 SHAH, SHRI R. S.
 SHAH, SHRI H. G.
 SHIRKE, SHRI G. G.
 SHETE, SHRI B. H.
 SHETTY, SHRI K. D.
 SHETTY, SHRI S. B.
 SHETTY, SHRI S. C.
 SHETTY, SHRI R. J.
 SHETH, SHRI G. H.
 SHELAR, SHRI K. B.
 SHELAR, SHRI B. S.
 SHRINGI, DR. V. G, M.A., M.B. (Delhi)
 SAMANT, DR. (SMT.) VINITA D.
 SING, SHRI R. R.
 SOOFI SHRI A. R.
 SEHGAL, SHRI P. H.
 SAYYAD, SHRI M. H.
 SONAWANE, DR. (SMT.) SHALINI M., M.B.B.S.
 SOLANKI, SHRI T. G.
 SANGHAVI, SHRI R. J., B.SC. (HONS.).
 SHRI S. RAMCHANDRAN.

LIST OF THE MEMBERS OF THE STANDING COMMITTEE WHO HELD OFFICE AS ON 31ST MARCH 1982

SHRI P. S. SHARMA, (*Chairman*).

KADAM, SHRI R. T.
 KOPARDE, SHRI E. R.
 KHADYE, SHRI V. P.
 DABHOLKAR, SHRI A. K.
 DESAI, SMT. ALKA A.
 DUBE, SHRI R. M.
 NARE, SHRI D. B.
 PATIL, SHRI J. M.

PASHTE, SHRI A. P.
 PRABHOO, DR. R. Y.
 BHUJBAL, SHRI C. C.
 MAJUMUNDAR, DR. S. R.
 MHATRE, SHRI P. A.
 RAO, SHRI S. J.
 SHETTY, SHRI S. B.
 SANGHAVI, SHRI R.

**LIST OF THE MEMBERS OF THE IMPROVEMENTS COMMITTEE WHO HELD OFFICE
AS ON 31ST MARCH 1982.**

SHRI N. K. BARIA, (Chairman).

ANKLESWARIA, SHRI R. C.
TANNA, SHRI J. M.
THANEKAR, SHRI K. B.
NAIK, SHRI M. R.
DUTTA, SHRI G. B.
PATEL, SMT. INDUMATI T.
PARIHAR, SMT. PARVATI L.
PARVATKAR, SHRI V. M.

PRADHAN, SHRI D. S.
FALNIKAR, SMT. NEELA V.
MANE, SHRI A. G.
MANJREKAR, SHRI V. S.
SHAH, SHRI R. S.
SHETTY, SHRI K. D.
SEHGAL, SHRI P. H.

**LIST OF THE MEMBERS OF THE EDUCATION COMMITTEE WHO HELD OFFICE
AS ON 31ST MARCH 1982.**

SHRI A. K. DABHOLKAR, (Chairman).

KUNTE*, SHRI P. K.
GAIKWAD, SHRI V. B.
GAMBHIR, SHRI S. A.
CHAVAN, SHRI R. N.
CHAVAN, SHRI S. B.
CHOPRA, SHRI B. M.
JOSHI*, SHRI R. G.
TARIQ, SHRI S. A.

DESAI*, SHRI R. D.
NAIK, SHRI B. A.
PATIL, SHRI A. W.
PAI, DR. P. S.
BORICHA*, SHRI P. H.
WAGLE, SMT. PUSHPALATA M.
SAYYAD, SHRI M. H.

* Non-Councillor Members.

**LIST OF THE MEMBERS OF THE TREE AUTHORITY WHO HELD OFFICE AS ON
31ST MARCH 1982.**

DR. A. U. MEMON, (Chairman).

ANKLESWARIA, SHRI R. C.
KAMTEKAR†, SHRI S. K.
KHADYE, SHRI V. P.
KHAN, SHRI F. A.
GAMBHIR, SHRI S. A.
CHAVAN, SHRI M. G.
DALAL, SHRI B. C.
DESAI, SMT. ALKA A.
SHETTY, SHRI R. J. (Chairman, M. & G. C.).

MAHAJAN, DR. (SMT.) BHAKTAWER S.
MAHADIK, SHRI V. S.
MHATRE, SHRI P. A.
WAGLE, SMT. PUSHPALATA M.
VAIDYA†, SHRI S. D.
SANGHAVI, SHRI R. J.
SAMPAT†, SHRI S. V.
SAMANT, DR. (SMT.) VINITA D.

† Non-Councillor Members co-opted by the Tree Authority

MUNICIPAL COMMISSIONER'S OFFICE

The designation and names of the Officers holding the post of Municipal Commissioner, Dy. Municipal Commissioner etc. together with the period from which the posts were held by each of them are given below :

Serial No.	Designation	Name of the Officer and Qualifications	Period		Remarks
			From	To	
1	Municipal Commissioner	Shri B. K. Chougale, B.A. (Hons.)/L.L.B. I.A.S.	1-4-81	8-5-81	Repatriated to Government of Maharashtra from 8th May 1981 (A.N.) On E.L. from 9th May 1981 to 22nd July 1981.
		Shri D. M. Sukthankar, M.Com. I.A.S.	9-5-81	31-3-82	Appointed as Municipal Commissioner from 9th May 1981 (B.N.) for a period of 3 years.
2	Director, (Engineering Services and Projects). Dy. Municipal Commissioner (Engineering).	Shri J. R. Patwardhan, B.E. (Civil), M.E. (P.H.), A.M.I.E.	1-10-81	31-3-82	Appointed as Director (E. S. & P.) with effect from 1st October 1981 in the newly created post of Director (E.S. & P.) in the grade of Rs. 2,250-100-2,750- <i>plus</i> usual allowances.
			1-4-81	30-9-81	
3	Dy. Municipal Commissioner (Improvements).	Shri P. P. Kamdar, B.A. (Spl.), B.Com. LL.B.	1-4-81	31-3-82	
4	Dy. Municipal Commissioner (Personal).	Shri V. D. Vaidya, B.A. (Spl.), M. Com.	1-4-81	31-3-82	Appointed as Special Officer (Census) for Census work held during the year 1980-81.
5	Dy. Municipal Commissioner (Zone-I)	Shri S. V. Gambhir, A.M.I.E.	1-4-81	31-3-82	
6	Dy. Municipal Commissioner (Zone-II).	Smt. Kumud Bansal, M.A., I.A.S.	1-4-81	31-3-82	
7	Dy. Municipal Commissioner (Zone-III).	Smt. K. S. Kadam, B.A., LL.B.	12-4-81	31-3-82	
8	Dy. Municipal Commissioner (Zone-IV).	Dr. K. K. Soman, M.B.B.S., D.P.H. D.I.H.	1-4-81	31-3-82	
9	Dy. Municipal Commissioner (Zone-V).	Shri G. A. Prabhuchimulkar, B. E. (Civil) 2nd class A.M.I.E.	1-4-81	31-3-82	

Other Heads of Departments

Serial No.	Designation	Name of the Officer and Qualification.	Period		Remarks
			From	To	
1	Personal Secretary to Municipal Commissioner.	Shri D. A. Pinto, M.A., LLB. L.S.G.D.	1-4-81	31-3-82	
2	Personal Assistant to Municipal Commissioner.	Shri D. D. Alekar, B.Sc. (Hons.) L.S.G.D.	1-4-81	30-11-81	Retired from Municipal service from 1st December 1981 (B.N.) On E.L. from 2nd November 1981 to 30th November 1981.
2A	Administrative Officer (Municipal Commissioner).	Shri R. D. Vaidya, B.A. (Hons.), L.S.G.D.	2-11-81	31-3-82	Appointed as A.O. (M.C.) in the newly created temporary post from 2nd November 1981.
3	Organisation and Methods Officer.	Shri M. P. Patil, M.A., L.S.G.D. Pravin.	1-4-81	31-3-82	
3A	Do.	Shri V. S. Morye, B.A. (Hons.).	1-6-81	31-3-82	Appointed as O. & M.O. (M.C.) II from 1st June 1981.
4	Committee Officer	Shri S. G. Chandorkar, Matric, L.S.G.D. L.G.S., Hindi Uchha Padvi.	1-4-81	31-3-82	
5	Municipal Medical Examiner (Full-time).	Dr. M. L. Joshi, M.B.B.S., M.D. D.C.H.	1-4-81	31-3-82	
6	Lady Municipal Medical Examiner (Part-time).	Dr. (Smt. S. P. Shroff, M.B.B.S.	1-4-81	31-3-82	
7	Executive Engineer (Vigilance).	Shri S. K. Dharap, B.E. (Civil).	1-4-81	31-3-82	
8	Ward Officer (Special Officer) for Backward Class Cell.	Shri G. B. Prasad, B.Com.	1-4-81	31-3-82	
9	Administrative Officer (Personnel)	Shri Y. P. Donde, Matric, L.S.G.D.	1-4-81	30-11-81	Retired from Municipal service from 1st December 1981.
9A	Do.	Shri V. S. Gokhale, B.A. (Spl.), L.S.G.D. Pravin, LL.B.	1-12-81	31-3-82	Appointed as A.O. from 1st December 1981.
10	Administrative Officer D.M.C. (Z-I)'s Office.	Shri S. S. Rajadhyaksha, B.Sc., LL.B. (2nd class).	1-4-81	30-11-81	Retired from Municipal Service from 1st December 1981.
		Shri S. A. Thakur, Matric	1-12-81	31-3-82	Appointed as A.O. from 1st October 1981.
11	Administrative Officer D.M.C. (Z-II)'s Office.	Shri M. D. Naik, B.Sc. (Hons.).	1-4-81	31-3-82	
12	Administrative Officer D.M.C. (Z-III)'s Office.	Shri G. N. Jambhekar, Matric, L.S.G.D.	1-4-81	31-3-82	
13	Administrative Officer D.M.C. (Z-IV)'s Office.	Shri K. M. Ruikar, Matric	1-4-81	31-3-82	
14	Administrative Officer D.M.C. (Z-V)'s Office.	Shri B. D. Patil, Matric, L.S.G.D.	1-4-81	31-3-82	
15	Administrative Officer D.M.C. (I)'s Office.	Shri V. V. Kulkarni, B.A. (Spl.) L.S.G.D.	1-4-81	30-4-81	Transferred from 1st May 1981 as A.O. (APP).
15A	Do.	Shri J. A. S. Pinto, Upto Inter Arts, L.S.G.D.	3-5-81	31-7-81	From 3rd May 1981 transferred from 1st August 1981.
15B	Do.	Smt. S. M. Gorakshakar, B.A., L.S.G.D.	3-8-81	31-3-82	
16	Administrative Officer D.M.C. (P)'s Office.	Shri D. D. Raje, Matric, L.S.G.D.	1-4-81	31-3-82	

MUNICIPAL CHIEF AUDITOR

The post of Municipal Chief Auditor was held by Shri R. G. Godbole, B.Com., F.C.A., F.C.M.A., F.C.I.S., A.M.B.I.M. during the year 1st April 1981 to 31st March 1982 except his 13 days Leave from 14th April 1981 to 26th April 1981. Shri B. R. Panthaki, M.A., B.Com. (IMC), Hindi (M.H.B.) was appointed as i/c. M.C.A.

Other Heads of Department.

Serial No.	Designation	Name of the Officer and Qualifications	From	To	Remarks
1	2	3	4	5	
1	City Engineer	Shri S. M. Parulkar, B.E. (Civil), A.M.I.E.	1-4-81	31-3-82	13 days Earned Leave with L.T.A. from 8th March 1982 to 20th March 1982. No substitute arrangement was made within Leave period.
2	Chief Accountant	Shri M. V. Kanekar, B.Com., F.C.A. Shri R. B. Desai B. A. (Spl.) B. Com. L.S.G.D.	1-4-81 10-4-81	9-4-81 31-5-81	Expired on 9th April 1981. Shri R. B. Desai, Jt. C. A. was asked to look after the work of C. A.
		Shri R. S. Pednekar, B.A. (Hons.), M. Com., L.S.G.D.	1-6-81	31-3-82	Appointed as C./A. i/c. from 1st June 1981 and C. A. from 14th August 1981.
2:A	Joint C. A.	Shri R. B. Desai B. A. (Spl.) B.Com., L.S.G.D.	1-4-81	12-7-81	Expired on 12th July 81 post is vacant from 12th July 1981 till today.
3	Hydraulic Engineer	Shri K. D. Mulekar, B.E. (Civil) (Hons.), M.E./ (P.H.), M/E.	1-4-81	31-3-82	Throughout the year.
4	Ex. Health Officer	Dr. M. N. Gurnani, M.B.B.S., D.P.H.	1-4-81	31-3-82	Throughout the year.
5	Dean, K.E.M. Hospital and G.S.M. College.	Dr. C.K. Deshpande, M.D. (Path), F.R.C. (Path).	1-4-81	31-3-82	13 days leave from 8th June 1981 to 16th June 1981. No substitute arrangement was made with in leave period.
6	Dean, BYL Nair Ch. Hospital and T.N. Medical College.	Dr. J. V. Bhatt, M.D.,			Throughout the year.
7	Dean, LTMG Hospital LTMM College.	Dr. M. B. Kher, M.B.B.S., M.Sc. (Med.). Dr. B. R. Kalke, M.B.B.S. (Bom.), M.S.F.C.P.S., P.F.D. (U.S.A.).	1-4-81 20-7-81	19-7-81 31-3-82	Dean LTMG Hospital i/c. He was appointed as Dean from 20th July 1981.
8	Dean, Nair Hospital Dental College.	Dr. S. T. Talim, M.D.S. ...			Throughout the year.
9	Chief Fire Officer	Shri L. S. D. Mehervanjee, Sr. Cambridge. (Hons.), M.I. Fire E. (India).			Throughout the year.
10	Medical Supdt. (GTB Hospital).	Dr. A. P. Rao, M.D., T.D.D., F.C.C.P. (USA), M.I.P.H.A. (C.A.L.).			Throughout the year except the leave period from 20th April 1981 to 2nd May 1981. No substitute arrangement was made, Work was managed by departmentally.
11	Assessor and Collector	Shri S. S. Murkute, B. Com., L.L.L.B., L.S.G.D. Shri P. B. Mhaskar, B.A. (Hons.) II Class, L.S.G.D.	1-4-81 1-6-81	31-5-81 31-3-82	Retired from 1st June 1981. He was appointed as A. & C. from 1st June 1981.
12	Education Officer	Smt. K. N. Kamat, M.A.-M.Ed. Smt. S. S. Nimbalkar, M.A.M.Ed.	1-4-81 15-6-81 2-6-81	1-6-81 31-3-82 14-6-81	Earned Leave from 2nd June 1981 to 14th June 1981. Education Officer incharge.
13	Sr. Ward Officer (Law Officer).	Shri S. N. Phadke, B.A., L.L.B. Smt. M. V. Shetty, B.A., L.L.B.	1-4-81 1-8-81	31-7-81 31-3-82	Retired from 1st August 1981. She was appointed as Law Officer from 1st August 1981.
14	Chief Engineer (Water Supply Project).	Shri T. M. Kandawala, B.E. (Civil), F.I.E. (India). Shri V. M. Sidhaye, D.C.E., F.I.E., F.I.W.W.A.	1-4-81 1-2-82	31-12-81 31-3-82	Retired from 1st January 1982. He was appointed on 1st February 1981.
14A	Chief Engineer (Sewerage Project).	Shri G. F. Khambati, B.E. (Civil), A.M.I.E., M.E. (P.H.). Shri V. M. Sidhaye, D.C.E.-F.I.E., F.I.W.W.A. Shri V. G. Sawant, B.E. (Civil).	1-4-81 1-12-81 1-1-82	30-11-81 31-12-81 31-3-82	Retired from 1st December 1981. Taken over the charge of Ch. E. (W.S.P.) from 1st January 1982. He was appointed on 1st January 1982.

Serial No.	Designation	Name of the Officer and Qualifications	Period		Remarks
			From	To	
14B	Chief Engineer, (Common Services).	Shri B. R. Gole, B.E. (Civil), F.I.E. (India), A.M.A.W.W.A., F.E.D.I. (Washington).			Throughout the year.
15	Controller of Stores	Shri C. H. Khubchandani, B.E. (Civil), M.I.E.	1-4-81 20-1-82	20-12-81 31-3-82	
		Shri N. S. Gurnani, D.C.E., A.M.I.E. Part A and B.	21-12-81	19-1-82	Worked as Controller of Stores in charge.
16	Supdt. of Markets and Slaughter Houses.	VACANT			Throughout the year.
16A	General Manager, Deonar Abattoir.	Dr. D. M. Bailur, B.Sc. (Vet.), M.R.C., V.S. (London).	1-4-81	11-8-81	Voluntarily retired from 12th August 1981.
		Dr. S. N. Brahme, B.Sc. (Vet.).	12-8-81	31-3-82	General Manager, Deonar Abattoir in charge.
16B	Ward Officer (Markets)	Shri A. Y. Kulkarni, B.E. (Civil).	1-4-81 1-3-82	28-3-82 28-3-82	Transferred as W.O.F./S, from 1st March 1982. However he was looking after the post of W.O.F./S and W.O. (Markets).
		Shri M. A. Shaikh, M.A., L.L.B.	29-3-82	31-3-82	Transferred from 'S' Ward from 29th March 1982.
17	Administrative Officer (Enquiries).	Shri K. R. Dixit, B.A., L.G.S., D.I.A.S.	1-4-81 29-11-81	15-11-81 31-3-82	
		Shri G. S. Karve, B.A., L.L.B.	16-11-81	28-11-81	Administrative Office (Eng.) incharge.
18	Security Officer	Shri G. H. Salunkhe, B.A. (Special).	1-4-81	28-2-82	Retired from 1st March 82.
		Shri C. W. Zambre, B.A. (Hons.), L.G.S.	1-3-82	31-3-82	Security Officer incharge.
19	Sr. Ward Officer (Estates)	Shri N. N. Lalit, B.A. (Hons.).	1-4-81	31-8-81	
		Shri S. M. Taraporwalla, B.E. (Mech. & Elec.).	1-9-81	31-3-82	
20	Labour Officer	Shri G. S. Saudagar, B.A. (Hons.), L.L.B., D.I.W.	1-4-81 19-6-81	18-5-81 31-3-82	
		Shri G. S. Shringarpure, B.A. (Hons.), B.Com., L.L.B., L.S.G.D.	19-5-81	18-6-81	Labour Officer incharge.
21	Public Relations Officer and Editor Bombay Civic Journal.	Shri J. B. Mahajan, M.A., L.L.B.			Throughout the year.
22	Dy. Accessor and Collector (Octroi).	Shri G. P. Parulkar, M.A., B.Sc., L.S.G.D.	1-4-81	31-3-82	On leave from 4th January 1982 to 16th January 1982. No Substitute arrangement was made.
23	Supdt. of Licences	Shri D. N. More, B.A., L.L.B., L.G.S.	1-4-81	30-6-81	Retired from 1st July 1981.
		Shri D. A. Padgaonkar, B.A., L.S.G.D.	1-7-81 6-10-81	5-10-81 31-3-82	Supdt. of Licence in charge. Supdt. of Licences.
24	Supdt. of Garden	Shri J. C. Garkhel, B.Sc. (Hons.) Agri.			Throughout the year.
25	Manager, Municipal Printing Press. 3	Shri M. M. Kamat, P.T.G., D.B.M.			Throughout the year.
26	Asstt. Medical Officer, (ENT Hospital).	Dr. (Smt.) S. C. Basrur, M.B.B.S., D.G.O.	1-4-81 7-1-82	16-12-81 31-3-82	Leave period from 17th December to 6th January 1982.
		Dr. Shri Dilip Rout, M.B.B.S., D.O.R.L., M.S.(ENT)	17-12-81	6-1-82	
27	Curator, Dr. B. D. Lad, Museum and Chief Librarian.	Shri V. N. Barve, B.A. (Hons.), Special, L.S.G.-D., Hindi Pravin.	1-4-81	31-3-82	The post was held in abeyance and hence was not filled up. Shri V. N. Barve, Curator, Dr. Bhau Daji Lad Museum looked after the duties of the Chief Librarian in addition to his own duty.
28	Manager, Mahatma Gandhi Memorial Olympic Swimming Pool.	Shri P. K. Hirlekar, B.A., L.S.G.D.	1-4-81	31-1-82	Transferred to Dinanath Mangesh-Natyagriha from 1st February 1982.
		Shri R. S. Rane, S.S.C., L.S.G.D., L.G.S.	1-2-82	31-3-82	Appointed from 1st February 1982 as incharge.
29	Manager, Raja Baldeoas Birla Kreedra Kendra.	Shri J. S. Satam, B.A. (Hons.).	1-4-81	31-3-82	Throughout the year.

○

SUBURBS AND EXTENDED SUBURBS

Serial No.	Designation	Name of the Officer and Qualifications	Period		Remarks
			From	To	
1	Dy. Health Officer (W.S.) D.E.H.O. (H.Q.)	Dr. S. S. Sabnis, M.B.B.S., D.P.H.			Throughout the year.
		Dr. S. H. Nanavati, M.B.B.S., D.P.H.			Do.
	D.E.H.O. (E. S.)	Dr. G. M. Advani, M.B.B.S., D.P.H.			Do.
		Dr. A.A. Shaikh, M.B.B.S. D.P.H.	1-4-81 1-12-81	30-11-81 31-3-82	As A. H. O. Surveillance. As D.E.H.O. (City).
2	Dy. Accountant (Subs.)	Shri S. M. Chandekar, B.Com.	1-4-81	31-3-82	On leave from 28th March 1981 to 15th April 1981 and from 30th October 1981 to 10th November 1981. No substitute arrangement was made in his place during leave period.
3	Dy. Assessor and Collector (Eastern Suburbs).	Shri B.B. Pol, B.A. Special Pravin, L.S.G.D.	1-4-81	1-5-81	Transferred to Western Suburbs.
		Shri S. V. Moghe, B.Sc., L.S.G.D.	2-5-81 31-1-82	17-1-82 31-3-82	On leave from 18th January 1982 to 30th January 1982. No substitute arrangement was made during leave period.
4	Dy. Assessor and Collector (Western Suburbs).	Shri Manohar M. Nijure, B.A. (Special) External L.S.G.D.	1-4-81	30-4-81	Retired from 1st May 1981.
		Shri B.B. Pol, B.A. (Special) Pravin, L.S.G.D.	1-5-81	13-7-81	
		Shri S. S. Prabhu, Matric L.S.G.D.	14-7-81	28-2-82	Retired from 1st March 1982.
		Shri B. V. Modak, B.A.	1-3-82	31-3-82	
5	Dy. Supdt. of Markets (Eastern Suburbs).	Shri M.D. Collaco, Matric (S.I.)			Throughout the year.
6	Dy. Supdt. of Markets (Western Suburbs).	Shri P.A. Tawade, Inter Arts, S.J.L.S.G.D.			Do.

Ward Officers up to 31st March 1982

Serial No.	Name	Designation	Remarks.
1	Shri S. M. Taraporewalla ..	Senior Ward Officer	
2	Shri A. D. Doctor ..	Do.	
3	Shri N. G. Kabe ..	Do.	
4	Shri S. N. Phadke ..	Do.	Retired from 1st August 1981 (B.N.).
5	Shri M.P. Nerkar ..	Do.	
6	Shri V. G. Godambe ..	Do.	
7	Shri R. R. Desai ..	Do.	Retired from 1st September 1981.
8	Shri S. G. Gavankar ..	Do.	Retired from 1st March 1982.
9	Shri N. N. Lalit ..	Do.	
10	Shri S. C. Malgaonkar ..	Do.	
11	Shri D. A. Pinto ..	Do.	Working as Personal Secretary to the Municipal Commissioner.
12	Shri S. R. Dange ..	Do.	
13	Shri S. B. Muthalia ..	Do.	
14	Shri S. K. Desai ..	Do.	
15	Shri K. M. Joglekar ..	Do.	
16	Shri G. R. Khairnar ..	Do.	
17	Shri V. Balchandran ..	Do.	
18	Shri Y. A. Nadkar ..	Do.	
19	Shri D. R. Talkar ..	Ward Officer	
20	Shri A. N. Dube ..	Do.	
21	Shri R. D. Koli ..	Do.	
22	Shri M. B. Nirgudkar ..	Do.	
23	Shri N. B. Salunke ..	Do.	
24	Shri C. K. Ghone ..	Do.	
25	Shri M. A. Sha kh ..	Do.	
26	Shri A. A. Raisinghani ..	Do.	
27	Shri V. S. Jadhav ..	Do.	
28	Shri I. L. Darji ..	Do.	
29	Shri G. B. Prasad ..	Ward Officer Special Officer for Backward Class cell).	
30	Shri H. L. Gangwani ..	Ward Officer	
31	Shri M. D. Sharma ..	Do.	
32	Shri A. Y. Kulkarni ..	Do.	
33	Shri D. D. Jadhav ..	Do.	
34	Shri M. C. Gandhi ..	Do.	
35	Shri R. B. Veturkar ..	Do.	

Ward Officers

With a view to render efficient civic services to the Citizens numbering over 82 lakhs spread over an area of about 437 sq. kms. the administration of Municipal Departments has been decentralised by setting up Ward Offices which now number 21. Each ward office is in charge of a Ward Officer who has been delegated wide powers. The citizens can approach to him in the respective ward officer for redressal of their grievances in the matter of civic amenities.

The functions carried out at ward level are as under :—

(a) Maintenance of Municipal Properties, Roads, and Drains Inspection of Private Building and factories as also ensuring adequate water supply, (b) collection of taxes and rent of Municipal estates, (c) Regulation of licensable commodities and enforcement of shops and establishment Act, (d) Registration of Births and Deaths, vaccination maintenance of dispensaries and disposal of refuse (e) Post Control, (f) Public sanitation and disposal of refuse, (g) Primary education, (h) Maintaining sanitation and improvement of slum colonies and (i) Preservation of Trees etc.

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 grievances. It remained open on 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 8,853 as detailed in the accompanying statement, as against 9115 in the preceding year. This 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-ordination among various agencies was also brought about on such occasions.

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

Ward	Drainage.	Buildings.	Water Works.	Road.	Refuse	Rat & Mosquito.	Licence	Stray dogs.	Fire.	Miscellaneous (Carcass, Monkey etc.	Flood-ing.	Total
A	949	64	23	18	29	6	5	12	8	38	13	1,165
B	1,152	119	79	52	125	19	24	7	10	46	8	1,641
C	350	129	30	15	42	15	3	3	1	9	1	598
D	983	101	42	17	61	28	4	6	9	50	8	1,309
E	552	91	35	8	26	11	2	5	12	30	10	782
F/South	507	37	15	15	10	8	1	3	11	17	9	633
F/North	370	20	8	12	14	6	2	9	5	29	6	481
G/South	550	34	9	5	7	2	1	1	13	26	6	654
G/North	758	28	19	6	5	7	...	1	10	29	13	876
H/East	12	9	1	..	2	..	..	1	8	2	..	35
H/West	78	25	9	1	9	1	3	5	5	22	8	166
K/East	18	10	4	1	..	2	1	3	6	12	1	58
K/West	33	19	8	4	1	1	..	2	3	10	2	83
L	35	20	..	1	1	9	..	..	8	9	6	89
M	33	11	2	4	4	4	..	1	4	5	1	69
N	10	12	2	..	1	..	..	..	3	11	..	39
P/South	6	3	6	11	..	2	..	1	5	7	..	31
P/North	3	6	..	..	..	..	2	..	3	6	1	21
R	19	13	3	1	..	2	..	1	8	10	4	61
S	4	17	2	..	..	1	..	..	4	8	..	36
T	9	3	3	..	..	..	..	1	1	8	1	26
Total	6,431	771	300	161	337	124	48	62	137	384	98	8,853

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

Organisation and Methods Division

The Organisation and Methods Division is working since 1957 to adopt various methods and systems of working and organise the same in various departments of the Corporation.

During the year, one more post of Organisation and Methods Officer was attached to this division to cope-up with the ever increasing work of the division.

During the year, the following activities were carried out by this division.

1. Standardization of forms and registers.

Standardization of forms and registers was done as and when required by the various departments of the Corporation. Organisation and Methods Officer assisted the Planning Cell of the Municipal Printing Press in preparing "Model Indent" and visited all the departments and dug-out the excess printed matter thereby minimising the wastage of printed matter resulting in corresponding saving of funds.

2. Re-arrangement of Municipal Records.

During the inspection of all the wards and departments, the departments were requested to arrange the records as per the norms laid down and instructions were issued regarding classification of records etc. It was also seen that the records were weeded out periodically.

3. Case Study.

i) Whenever any item on this subject was referred to this division the observations were given to the concerned departments.

ii) The case study of computerization of pay-rolls and its assessment was made and a report to that extent has been sent to Data Processing Officer for further necessary action.

4. Methods Study.

Some of the faulty methods were completely stopped and new methods were introduced e.g. the dispatch was previously being carried to and fro by vans to various departments, wards scattered through out the Greater Bombay limits. This van system is now stopped, and the new scheme being devised in consultation with the Ward Officers, Head of Departments, etc., Card system for attendance for Khada-Badlee employees is under study.

5. Spread of Marathi Language.

Since Marathi is the official language of this Corporation various steps were taken to accelerate the use of Marathi in the day-to-day administration.

6. Inspection of offices.

Inspection of various Municipal Offices etc. An Inspection Unit has been created for inspection of overall activities of various departments and Ward offices and this squad is supervised by Organisation and Methods Officers. All the departments and Wards were visited regularly. Various irregularities were pointed out and they were pursued till they are set right in all respects.

7. Training.

The following training classes were also conducted.

(i) In service training classes.

(ii) Marathi training classes for Non-Marathi employees.

(iii) Lectures were also delivered on some subjects meant for the Head Clerks' Examination conducted by the Productivity Department.

8. Recruitment.

The Organisation and Methods Officers serve as a member of the panel set up for recruitments upto clerical level.

(i) The work of recruitment for the post of Security Guards and Security Assistants is also entrusted and is being processed by O. M. O. (I)

(ii) Worked as a Supervisory Officer during typing test of the candidates called for the posts of Clerk-*cum*-Typists and Typists.

9. General.

- (i) Submission of consolidated weekly reports received from Heads of Departments and Ward Offices to the Dy. Municipal Commissioner.

They are scrutinized and a consolidated report is submitted with comments thereon for perusal of higher authorities.

- (ii) Compilation of Municipal Commissioner's important circulars in order to get them printed into separate books which give the procedure and guide lines to various departments.

Compilation of such circulars issued by the Office of the Municipal Commissioner completed upto the year ending 31-3-1982 and the same is under printing.

- (iii) Suggestions received from the staff for improvements in administration were examined and processed by both the officers.

- (iv) The work of preparation of compendium of qualifications prescribed for various posts in the Municipal Corporation is under process.

- (v) The work of preparation of manual of qualifications of the entry posts, method of recruitment etc., is under preparation.

- (vi) The total number of proposals of furniture and equipment scrutinized thereby reducing the expenditure to the minimum (1374)

- (vii) Number of Establishment Proposals scrutinized 52 Nos.

- (viii) Collection of Data in respect of outstanding P, F./Pension Claims, M. C. A.'s audit notes and expenditure in Medical Institutions required for Dy. Municipal Commissioner (Personnel)'s meetings with Deans.

During the year Shri V. S. Morye, Organisation and Methods Officer-II worked as Liaison Officer to the Honorary Advisor to Municipal Commissioner and assisted him in the matter of revision of pay scales and allowances and other demands submitted by various Unions representing the employees of the Corporation.

Sd/-

V. S. MORYE,

Organization and Methods Officer. (II)
(Municipal Commissioner's Office),

Sd/-

M. P. PATIL,

O. M. O. (I)

M. C. Office.

Public Relations Department And The Bombay Civic Journal

Shri J. B. Mahajan M.A., LL.B., was Public Relations Officer and Editor, Bombay Civic Journal during the year 1981-82.

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 criticisms and suggestions appearing in local newspapers. It also carried out health education work and dissemination of information about Municipal activities to the public through various media.

Two information counters at the Municipal Head Office buildings 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 1982 and the Civic Guide 1982 containing useful information on civic affairs were brought out in attractive form, in English and Marathi. Other publications included "Know Your Ward" and the list of "Municipal Councillors and Officers". In addition to this, Public Relations department has extended active co-operation in bringing out the Municipal Year Book 1981 in an attractive form. Two special coloured folders i.e. (1) Z00 at the Veermata Jijabai Bhosale Udyan and (2) Progress of Municipal Water Supply Projects were also brought out by this department. Special publicity material, such as posters, folders, Cinema slides etc. on various civic activities were also prepared and distributed to the Institutions and individuals all over Greater Bombay. Special publicity was given in connection with Quinquennial Census of the children of compulsory Age organised by the Education Department.

This department took part in the exhibition held at Mount Mary Fair, Bandra, Health Exhibition organised by Central Railway, Crafts India '81 exhibition in aid of Mayor's Fund, Health Exhibition organised by Bandra East Community Centre Slum Colonies, exhibition organised by Maharashtra Women Council at C. J. Hall and erected stalls in the exhibitions on health and civic activities carried out by the Municipal Corporation.

A Press Room equipped with lockers, telephone, typewriter etc. has been provided for the use of press reporters. During the year 1981-82, conferences and Press visits to 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 criticisms, suggestions etc. appearing in newspapers, were also issued promptly.

SPECIAL ACTIVITIES.

The Clean Bombay Green Bombay Campaign was carried out extensively and sustained educative propaganda was undertaken through various media of publicity. Besides the annual competition for the Mayor's Shield was also organised by this department. Similar arrangements for giving due publicity were also made for the receptions given by the Mayor.

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, Fire Campaign, Flag Day and also various other Health Drives and exhibitions organised by various social welfare organisations.

The work of collecting donations for the National Flag Day was carried out in the usual manner. Co-operation was given to the Mayor's Fund Committee in arranging Craft India 1981 Exhibition at Bandra.

BOMBAY CIVIC JOURNAL.

Shri J. B. Mahajan, M.A. LL. B. worked as Editor, Bombay Civic Journal, in addition to being the Public Relations Officer during the year 1981-82.

The celebration of Golden Jubilee of Mayoralty and launching of Bombay City T. B. Control Campaign 1982, were the two important issues which were given full coverage in the journal during the year under review.

Municipal Corporation of Greater Bombay celebrated the Golden Jubilee of the Mayoralty in March 1982. To commemorate this occasion, a special issue of the Journal was brought out. It was mainly devoted to the institution of Mayoralty and throwing some light on the life and achievements of the past Mayors from 1931-32 to 1981-82.

The year 1982 is the Centenary year of the discovery of T. B. causing organism by Robert Koch. The year, therefore, is being celebrated to honour Koch's memory by making greater effort to eliminate T. B. as a serious health threat by the year 2000. The Corporation has launched the Bombay City T. B. Control Campaign 1982 which will endeavour to find out all the hidden cases of T. B. from this city by the end of 1982. The Journal gave wide publicity to this campaign which will cost the civic authorities Rs. 2 1/2 crores.

Three new features have been introduced in the Journal, (1) "Bombayana" collected by Dr. Aroon Tikeker which describes Bombay life in 18th & 19th Centuries. The narration makes an interesting reading; (2) "Featuring Productivity", a series of articles on Productivity in Municipal Administration and (3) Municipal Elections and list of Municipal Councillors and Officers since 1873 which comes in handy for reference purposes.

The feature entitled "Roads named & renamed" was also continued during the year under review.

The cover pages of the journal were brought out with attractive multi-colours showing the progress made by the Corporation in various spheres of public interest. Special efforts were made to improve the designing of the cover pages and also improve the lay-out and contents of the journal. The Diwali number of the journal contained articles and features written by prominent writers on various topics of civic interest.

Other issues of the journal were devoted to inform and enlighten the readers on various projects and programmes of the Corporation and other important events from far and near, which included Balakotsav, World Health Day Celebration, Silver Jubilee of Mayor's Fund, World Environment Day, Family welfare programme, Clean Bombay Green Bombay Campaign Tree Plantation programme, Teachers and Nurses Awards, Quinquennial Census of the Children of the age of compulsion" (6 to 11 years), Programme of Improvement of House Gullies, Golden Jubilee of Indian Sound Cinema, Civic Reception to V. I. P. S., Filaria Survey in Suburbs, felicitations to Editors and Proprietors of old newspapers and other subjects of civic interest.

BACKWARD CLASS CELL

The Backward Class Cell has been created under the control and supervision of Dy. Municipal Commissioner (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 effectively implemented in the Corporation.

Accordingly, during the year under report, the departments viz. (1) C.E.; (2) C.A. and (3) W.O.; (Markets) were inspected and the reports pointing out irregularities and lapses were submitted to D. M. C. (P) who directed the departments to take necessary action and report compliance.

The statements showing the position of Backward Class employees and the backlog in recruitment and at the stage of promotion in the departments inspected are at Appendix 1 to 7.

During the inspection proper guidance regarding 100 point roster and 50 point roster for the purpose of recruitment and promotion respectively is given to the departments. Similarly the departments are advised the sources from which suitable B. C. candidates could be obtained in case of non-availability of the same inspite of advertising the vacancies. Periodical inspections are taken to see that suggestions, instructions issued at the time of inspection are followed and backlog is wiped out while filling future vacancies by the departments.

Besides 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. 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, 215 proposals involving the question of reservation were referred to the cell for advice, scrutiny etc.

37 complaints and grievances of Backward Class employees about the reversion, promotion seniority etc., were attended to by the department.

Ward Officer (Special Officer for Backward Class) serves as a member on the panel of recruitment of clerks, teachers, etc.

G. B. PRASAD,

WARD OFFICER

(Special Officer for Backward Class).

APPENDIX-1.

CITY ENGINEER'S OFFICE

Position of Reservation in Recruitment as on 30-6-1980

Category	No. of posts (Total strength)	Reservation as per roster				Actual Position				Backlog.				Remarks.
		S.C.	S.T.	D.T. N.T.	OBC	S.C.	S.T.	D.T. N.T.	OBC	S.C.	S.T.	D.T./N.T.	OBC	
		13%	7%	4%	10%									
S. E. (Civil) Budget 'G'	300 (as on 30-06-80).	39	21	12	30	10	..	3	28	29	21	09	02	
S. E. (Civil) Budget A&B	416 (as on 30-6-80).	54	30	17	42	5	..	2	28	49	30	15	14	
	716	93	51	29	72	15	..	5	56	78	51	24	16	
S. E. (Mech./ Elect.)	111 (as on 31-5-1980)	15	8	5	11	1	..	1	15	14	8	4	..	
Jr. Eng. (Civil)	806 (as on 31-12-1979)	105	57	33	81	23	..	4	70	83	57	29	11	Total posts work- ed out on the basis of recruit- ment made since 1-7-1970.
Jr. Eng. (Elect.)	82 (as on 31-12-1979)	11	6	4	8	..	..	..	8	11	06	04	..	
Jr. Eng. (Mech.)	106 (as on 31-12-1979).	14	8	5	11	3	..	..	17	11	08	05	..	

APPENDIX-2.

CITY ENGINEER'S OFFICE.

Position of Reservation in Promotion as on 1-1-1981.

Category	No. of vacancies filled in from 23-5-74 to 31-12-80.	Reservation as per Roster			Actual Position.			Backlog.			Remarks
		S.C.	S.T.	D.T./N.T.	S.C.	S.T.	D.T./N.T.	S.C.	S.T.	D.T./N.T.	
(1) A. E. (Civil)	200	28	16	8	11	1	4	17	15	4	
(2) A. E. (Elect / Mech.)	53	8	5	3	1	..	..	7	5	3	
(3) E. E. (Civil)	73	10	6	3	1	..	1	9	6	2	
(4) E.E. (Elect./Mech.)	16	2	2	1	..	..	..	2	2	1	

APPENDIX-3.

CITY ENGINEER'S OFFICE.

Position of Reservation in Promotion in Administrative Staff as on 31-12-81.

Category	No. of posts	No. of vacancies filled in from 23-5-74 to 31-12-81.	Reservation as per roster.			Actual Position.			Backlog.			Remarks.			
			S.C.	S.T.	D.T./ N.T.	S.C.	S.T.	D.T./ N.T.	S.C.	S.T.	D.T./ N.T.	Vacancies lapsed as on	S.C.	S.T.	D.T./ N.T.
A. O.	34	5	3	2	..	..	..	4	2	1	1-1-80 1-1-81	..	..	..
A. E. O.	.. 7	21	1	1	1	..	1	..	1	..	1	..	..	..	..
O. S.	98	13	8	4	4	1	..	9	7	3	1-1-80 1-1-81	..	..	1
H. C.	341	48	27	14	26	1	..	22	15	7	1-1-80 1-1-81	..	8	5
Head D'Man	..	14	2	1	1	..	1	..	1	..	..	1-1-80 1-1-81	..	..	..
D'Man	58	8	5	3	4	..	..	3	3	1	1-1-80 1-1-81	..	..	..
T. K.	38	4	3	2	12	1	..	..	1	1	1-1-80 1-1-81	..	..	..
Havildar	6	1	1	1	..	..	..	..	..	..	1-1-80 1-1-81	..	..	..
Naik	19	3	2	1	4	..	..	1	1	..	1-1-80 1-1-81	..	..	..

APPENDIX—4
CHIEF ACCOUNTANT

Position of Reservation in Promotion as on 31-12-1981

Category	No. of Vacancies filled in from 23-5-74 to 31-12-1981	Reservation as per Roster			Actual Position			Backlog			Remarks			
		S.C.	S.T.	D.T./N.T.	S.C.	S.T.	D.T./N.T.	S.C.	S.T.	D.T./N.T.	Backlog lapsed as on	S.C.	S.T.	D.T./N.T.
D. A.	10	2	1	1	..	..	..	2	1	1	1-1-1980 1-1-1981	..	..	..
Sr. A. A.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
A. A. I	56	8	5	3	5	..	..	3	4	2	1-1-1980 1-1-1981	..	1	1
A. A. II	90	12	7	4	7	..	..	5	4	2	1-1-1980 1-1-1981	..	2	1
O. S.	81	11	7	4	6	..	..	5	4	2	1-1-1980 1-1-1981	..	2	1
H. C.	196	27	16	8	13	2	1	7	5	2	1-1-1980 1-1-1981	3	7	4

APPENDIX—5
CHIEF ACCOUNTANT

Position of Reservation in Recruitment as on 31-12-1981

Category	No. of posts	Reservation as per Roster				Actual Position				Backlog			
		S.C.	S.T.	D.T./N.T.	O.B.C.	S.C.	S.T.	D.T./N.T.	O.B.C.	S.C.	S.T.	D.T./N.T.	O.B.C.
Jr. Audit and 304 Accounts Assistants since Nov. 1979 till 31-12-1981.	40	22	13	31	15	..	3	62	25	22	10	31	(Excess)

APPENDIX—6
MARKET DEPARTMENT

Position of Reservation in Promotion as on 31-12-1980

Category	No. of vacancies filled in from 23-5-1974	Reservation as per roster			Actual Position			Backlog		
		S.C.	S.T.	D.T./N.T.	S.C.	S.T.	D.T./N.T.	S.C.	S.T.	D.T./N.T.
Dy. S. M.	1	1	..	..	..	..	..	1	..	..
Head Inspectors	16	2	2	1	2	1	..	..	1	1
Naik	9	2	1	1	..	..	..	2	1	1
Jamadar	6	1	1	1	..	..	..	1	1	1
Mukadam	4	1	1	1	4	..	..	3	1	1

APPENDIX—7
MARKET DEPARTMENT

Position of Reservation in Recruitment as on 31-12-1981

Category	No. of posts (Total strength)	Reservation as per Roster				Actual Position				Backlog			
		S.C.	S.T.	D.T./N.T.	O.B.C.	S.C.	S.T.	D.T./N.T.	O.B.C.	S.C.	S.T.	D.T./N.T.	O.B.C.
(1) Inspectors	217	29	16	9	22	13	2	1	34	16	14	8	12
(2) Labourers	326	44	23	13	33	257	..	..	10	213	23	13	23
(3) Halalkhor	36	..	..	..	..	36	..	..	..	..	..	..	..

Vigilance Branch of Engineering Department

SPECIAL TECHNICAL UNIT :-

The Special Technical Unit under the Executive Engineer (Vigilance) is a branch of the Municipal Commissioner's Establishment. At present, the E. E. (V.) is assisted by three A. B.s, three S.E.s and other administrative staff.

This unit gives surprise visits to Municipal works of all departments which are in progress to determine whether the works are being executed as per the approved design and specifications. One A. B. and one Sub-Engineer are engaged in checking the works carried out through P. W.C.'s in all wards.

In addition, this unit keeps a watch over all technical matters. Besides, the unit examines complaints of technical nature forwarded by the M. C. or received from the Councillors and the public.

The unit functions as a co-ordinating agency among the different units of the Engineering Sections and assists the Administration in the matters requiring policy revision and implementation thereof. It also keeps a watch on the results arrived at the materials testing laboratory where the building materials, and the cubes of cement concrete are tested and also on the results of checking of samples of hot mix asphalt macadam and asphalt concrete used on Municipal works at the asphalt testing laboratory. Whenever considered necessary, this unit suggests hammer tests and load tests on construction works.

Some of the details of the work done during the year 1981-82 are as follows :-

(1) Number of visits paid to Municipal Works :-

(a) Building Construction Works	...	...	...	216
(b) Road Construction Works	...	...	...	240
(c) Water supply and S. D. Works	...	...	...	70
(d) Slum Improvement Works	...	...	...	23
(e) P. W. C. Works	...	...	...	735
(2) Number of final bills checked	...	...	...	94
(3) Number of Miscellaneous visits	...	...	...	171
(4) Number of cases investigated and examined, referred by the M. C., D. M. C. and C. B.	...	...	...	70
(5) Amount recovered from the Civic Contractors by way of detection of excess payment, penalties imposed on sub-standard work, etc. pointed out at the time of checking the works in progress and/or while checking the final bills.				Rs. 2,62,073.73

S. K. DHARAP,
Executive Engineer (Vigilance)

LABOUR DEPARTMENT

High Lights : —

(1)	Expenditure —				
	(i) Establishment	..	..	..	.. Rs. 7,29,527.11
	(ii) Other than Establishment...	..	..	..	.. Rs. 3,17,414.00
					40
(2)	Recognised Unions	..	..	..	9
(3)	Joint Councils	..	..	..	49
(4)	Welfare Centres	..	..	..	21813
(5)	Grievances attended	..	..	..	4550
(6)	Average daily attendance of Welfare Centre—				
	(i) Adults	..	..	..	5550
	(ii) Children	..	..	..

Trade Unions :—

The Trade Union activities among Labour and other Staff members were mostly confined to 40 Unions recognised by the Municipal Commissioner as per rules and covered about 48000 members.

Labour Relations :—

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

(i) Joint Councils : The total number of Joint Councils constituted by the end of the year under report were 9.

(ii) Grievance procedure : A Four stage grievances procedure continued to redress the grievances of the employees in all the Departments. The grievance Committee consists of the representatives of the Labour and the Management which investigate into the grievances of the employees.

(iii) Individual Grievances : Individual Grievances Received from the employees and the Unions are as under:—

1. Recruitment and retrenchment.
2. Promotions, Transfer, Confirmation and annual increments.
3. Fines, reversions, Suspensions, removals, Dismissals and other punishments.
4. Delay in payment of wages (wages of leave O. T. etc.) and allowance.
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 : Disputes were referred to the Government Labour Officers, the Assistant Commissioner of Labour and the Conciliation Officers Labour Court and Industrial Tribunal during the period (See Appendix 'A')

Scholarships to the Children of the Municipal employees : During the year 1981-82, 483 applications for Scholarship were received in this department out of them 411 applications for scholarship were sanctioned. 80 scholarships were granted to the applicants for higher education, 174 for Higher Secondary Education and 157 for Secondary Education. The Total amount paid by way of scholarships to the Municipal employees was Rs. 59,895.

Medical Assistance Scheme to the Municipal employees : Under the above scheme 32 deserving employees suffering from T. B. and other disease were given Medical assistance amounting to Rs. 5,775. Under the new scheme for grant of medical assistance during major illness, 12 deserving employees were given the medical assistance amounting to Rs. 27,260.95 for municipal employees, and the direct dependents of the Municipal employees during the year under report.

A new scheme of granting immediate Cash Assistance of Rs. 500 each for the direct dependent of the municipal employees who die while in service. 296 direct dependents of the deceased Municipal employees had been given same assistance and total amount of disbursed was Rs. 1,48,000 during the year under report.

Inter Ward/Inter Departmental Dramatic Competitions : 27 Departments participated in the Inter Ward/Inter Departmental dramatic competitions held at the Birla Kreedra Kendra.

First three dramas were awarded with rotating trophies. One consolation prize was also awarded for the drama. Prizes of Rs. 101 each were awarded to the Best Actor, the Best Actress, the Best Director, the Best Art Director and for the Best lighting arrangement and 46 Consolation prizes of Rs. 51 each were awarded for acting. Three Consolation prizes were also awarded for the lighting, direction and setting.

State Dramatic Competition : During the year under report, the Corporation took part in the State Dramatic Competition, as well as Parshwanath Altekar and the Chintamanrao Kolhatkar Dramatic Competition. The Drama won second prize in the Regional Round of the State Drama Competition and selected for final round at Ravindra Natya Mandir. One of the Male Actor received Silver Medal in acting in final competition. Besides 4 individual prizes were won in the different competitions.

Statistical Branch : Statistical Cell collected the statistical information from all the Municipal Departments in respect of quarterly staff position and the Establishment cost thereof till the quarter ending March 1982.

The income from various Sources and the expenditure towards the various services to the city is also collected and furnished to the outside agencies, such as State Governments, Government of India and other metropolis in India on their request.

Recruitment of Telephone Operators' Section :— The Work of recruitment, Promotion, Confirmation of Telephone Operators is entrusted to this department from 1-10-1980.

(1) Posts of T. O. 'B' Grade were advertised in the year under report and nearly 50 candidates selected for the same.

(2) 23 Telephone Operators 'B' grade are appointed so far.

(3) 24 Telephone Operators 'B' grade are promoted as 'A' grade.

(4) About 12 Telephone Operators 'B' grade are regularised.

Welfare Branch : 49 Welfare Centres are seen by the department during the year under report :—

(i) **Inter Centre Tournaments and Competitions :** Volley Ball, Carrom, Kabaddi, Table Tennis, Boxing Tournaments Best Physique, and Elocution competitions were held during the year. The prizes and certificates were given to the winners.

(ii) **Inter Centre Folk Dance Competitions :** The Competition was held at the open Air Theatre at the Jijamata Udyan. Seven Dance Ballets were also presented.

(iii) **Inter Centre Dramatic Competitions :** Inter Centre Dramatic Competitions were held at the Balgandharva Mandir, Bandra in the month of January 1982 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 and the cash prizes were given to the best Actor, Actress, Supporting Actor Actress and Director, and 14 Consolation prizes were also given to encourage the artists, Shri Dabholkar the Chairman of Education Committee distributed the prizes.

(iv) **Film Shows :** Documentary and full length films of the Educational and Social importance were shown daily at different Welfare Centres during the year.

(v) **Daily Attendance :** The average daily attendance of adult and children at the different welfare centres during the year was 4550 adults and 5550 children as against 4500 adults and 5500 children in the previous year.

(vi) **Excursion for Nursing Staff :** The excursion for Nursing Staff was organised in the month of March 1982 to Nainital and Agra. 33 Nurses of different hospitals and Maternity homes participated in the excursion.

(vii) **Band Activities :** Scouts Band is organised at the Walpakhadi Welfare Centre and brass Band is organised at Umarchady Welfare Centre.

(viii) **Balwadi :** Six Balwadies are conducted at the Bapty Road, Palton Road, Colaba and Chembur and 1 Gujrathi and 1 Marathi at Gautam Nagar Municipal Conservancy Chawls at Dadar. Nearly 260 children of the Municipal Employees took advantage of the Balwadies.

(ix) **Different Functions :** Combined Ganpati Festival was organised at K. E. M. Hospital Welfare Centre. Cultural items were presented during the festival and the prizes were distributed to the participants for taking part in the programmes. Haldi Kumkum functions were organised at 35 centres and Buddha Jayanti functions were organised at 10 welfare Centres. The National days such as 26th January and 15th August functions were also celebrated at all Welfare Centres.

During the Handicapped year 1981, a programme was arranged at Approach Road Welfare Centre to help the Handicap children and adults. A special arrangement were made to take a handicapped persons to authoptic centre at Haji Alli for treatment.

(x) **Television sets :** 30 Television sets had been provided to 30 Welfare Centres under the contributory Community T.V. Scheme through the Director of Rural Broadcasting, Government of Maharashtra for the benefits of the participants of the centres.

(xi) **Guiding :** The total strength of the Guides and bulbul section were 1091. The organisation rendered services by maintaining law and order at the time of several public celebration.

(xii) **Yoga Kendra :** A yoga Kendra at Municipal Head Office was conducted for the benefit of Municipal employees. 100 participants have taken advantage of the Yoga Classes during the year under report.

A new Yoga Kendra was also started in 'M' Ward for the benefit of the Municipal employees working in offices in the Eastern Suburb from January 1982.

G. S. SAUDAGAR,
Labour Officer.

APPENDIX 'A'

Disputes referred to the Government Labour Officers during the year 1981—1982:

Sr. No.	Name of the Union	Department concerned	Categories attached	Referred to	Nature of Disputes
1	2	3	4	5	6
1.	Maharashtra State Nurses Welfare Association.	Hospitals	Sisters	Dy. Commissioner of Labour.	Reduction of duty of Sisters
2.	—do—	—do—	Asstt. Matron.	Asstt. Commissioner of Labour	Fixing of duty hours of Matron.
3.	Municipal Mazdoor Union	H. S.	Sweepers (Conservancy)	—do—	Sweeping by gang system.
4.	—do—	E. O. (Secondary Schools)	Peon	—do—	Termination of service of Peon in Secondary Schools.
5.	Individual	W. O. (Estate)	Rent Collector.	Government Labour Officer.	Complaint against punishment by Shri Auti, Rent Collector.
6.	—do—	G. B.	Labourer	—do—	Re-instatement in service of Shri Waghmare
7.	—do—	S. O.	Security Guard.	Shri Shinde Presiding Officer of Labour Court.	Approval cases under Section 33 (2) (b) of I. D. Act.
8.	—do—	S. O.	—do—	—do—	Shri K. S. Dhumal under Section 33 (2) (b) of the I. D. Act.
9.	—do—	—do—	—do—	—do—	Shri Ekbal Munna-war, under Section 33 (2)(b) of the I.D. Act.
10.	—do—	—do—	—do—	—do—	Shri S. S. Gawade, under Section 33 (2) (b) of the I. D. Act.
11.	—do—	F/S (C.A.'s Unit.)	Jr. Pay Master	Shri B. V. Chavan Industrial Tribunal	Shri B. B. Bhosle, under Section 33 (2) (b) of the I. D. Act.
12.	—do—	S. O.	Security Guard	Shri Shinde, Presiding Officer of Labour Court	Shri B. T. Auti, under Section 33 (2) (b) of the I. D. Act.
13.	—do—	Nair Hosp. (Dean N.)	Technician	Asstt. Commissioner of Labour.	Reinstatement in service of Shri Parulekar.
14.	—do—	H.O. (Family Welfare Unit).	Store Keeper	Asstt. Commissioner of Labour, Shri Saxena.	Shri M. B. Pattar, removed after Departmental Enquiry.
15.	—do—	W.O. 'D.' Ward	Labourer	Govt. Labour Officer,	Grant of E.L. etc,

LEGAL DEPARTMENT

Legal Department deals with all the litigations filed by or against the Corporation in various Courts and Tribunals. In addition to this, Legal Department gives opinion to various departments of the Corporation on the references made to it. Legal Department also does the work of drafting Conveyance and other legal documents. It also deals 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
I—Supreme Court Appeals.	38	10	48	5	43
II—High Court:					
(1) First Appeal :	264	53	317	47	270
(2) Appeals from Order.	185	279	464	282	182
(3) Letters Patent Appeals.	18	13	31	17	14
(4) Civil Applications.	371	324	695	375	320
(5) Civil Revision Applications.	14	8	22	12	10
(6) Writ Petition. (Appellate Side)	83	23	106	46	60
(7) Long Causes Suits.	121	11	132	24	108
(8) Arbitration Suits.	7	2	9	..	9
(9) Insolvency matters and company petitions	186	28	214	110	104
(10) Appeals before Division Bench. (O. S.)	69	46	115	18	97
(11) Writ Petitions. (O. S.)	984	231	1215	89	1126
(12) Pauper Petitions.	..	..	..	..	..
(13) Notices of Motion.	60	36	96	78	18
(14) Land Acquisition References.	59	..	59	..	59
(15) Allahabad High Court Insolvency matters.	1	..	1	..	1
(16) Jodhpur, High Court Insolvency matters.	1	..	1	..	1
III.—City Civil Court :					
(1) Suits filed by the Corporation	42	2	44	4	40
(2) Suits filed against the Corporation.	2246	1190	3436	730	2706
(3) Miscellaneous Appeals.	83	75	158	24	134
IV.—Small Causes Court :					
(1) Suits filed by the Corporation.	35	10	45	13	32
(2) Suits filed against the Corporation.	149	35	184	35	149
(3) Garnishes notices.	..	3	3	3	..
(4) Notices in Suits.	11	26	37	12	25
(5) Full Court Applications	1	4	5	3	2
(6) Licence Appeals.	127	69	196	58	138
(7) Set-back Appeals.	11	..	11	..	11
(8) Appeals against rateable value.	1798	711	2509	96	2413
(9) References under Section 503 of the B. M. C. Act.	145	45	190	31	159
V.—Labour and Industrial Court :					
(1) Labour Court Applications, Workmen's compensation and Authority under payment of wages Act.	22	14	36	8	28
(2) Motor Accidents	64	16	80	9	71
VI.—Police Court :					
(1) Case under B.M.C. Act. in M. M's courts*	52199	27827	80026	27256	52770
(2) I. P. C. cases.	7	10	17	..	17
(3) P. F. A. cases.	157	91	248	22	226
(4) Traffic cases.	9	11	20	4	16
(5) Cruelty to Animals Act.	..	..	..	..	..
(6) Cases under Section 515 of the B.M.C. Act.	24	40	64	13	51
(7) Lunatic matters in Bombay and Poone.	8	3	11	1	10
(8) Charity Commissioner Matters.	1	1	2	1	1
(9) Co-operative Court matters.	2	1	3	1	2
(10) Supreme Court Appeals.	1	..	1	..	1
(11) Contested cases under B. M. C. Act.	14	16	30	7	23
(12) M. R. T. P. Act.	48	6	54	1	53
(13) Tree cutting.	1	1	2	1	1
(14) High Court Appeals.	9	5	14	1	13
(15) Criminal Revision Applications. (High Court)	26	15	41	10	31
(16) Sessions Court Appeals	29	12	41	10	31
(17) Criminal Revision Applications (Sessions Court)	38	11	49	5	44
(18) Shops & Estt. Act.	6	4	10	..	10
(19) Slum Tribunal.	1	..	1	..	1
(20) Criminal Procedure Code	..	5	5	3	2
(21) Total amount of fine recovered.	..	..	..	..	Rs. 27,39,690.75

* M. M. S. Metropolitan Magistrates Courts.

VII.—Municipal Enquiry Courts :
(Section 105B of the B.M.C. Act),

(1) Cases pending as on 1-4-1981.	.. .. .	4259.
(2) New cases referred to Enquiry Officers from 1-4-1981 to 31-3-1982	.. .. .	8430
(3) Total number of cases disposed of during the year under report.	.. .. .	8467
(4) Cases pending as on 31-3-1982.	.. .. .	4222

VIII.—Documents Completed during the year :

(1) Conveyance.	.. .. .	44
(2) Agreements for handing over possession.	.. .. .	12.
(3) Certificates of Sale	.. .. .	12
(4) Deed of Exchange.	.. .. .	4
(5) Deed of Rectification.	.. .. .	6.
(6) Agreements.	.. .. .	49
(7) Indemnity Bond.	.. .. .	42
(8) Cases for Compensation for set back (Sub).	.. .. .	32
(9) Cases for compensation of set back City and Town Planning	.. .. .	10
(10) Advice matters in respect of stamp Duty, Town Planning, set-back, P. F. Claims, Agreement, Lease matters.	.. .. .	1407
(11) Indenture of Mortgage and Deed of Receipts (Municipal Housing Society)	.. .. .	42
(12) Further charges (Municipal Housing Society).	.. .. .	8
(13) Appeal matters in respect of C. T. S. R. T. S. Charity Commissioner, sales Tax, Tribunals etc.	.. .. .	45
(14) Assignment.	.. .. .	63
(15) Indemnity. (Leases. matter)	.. .. .	31
(16) Draft Lease	.. .. .	29
(17) Draft Licence and Deed of Covenant.	.. .. .	28
(18) Power of Attorney	.. .. .	9
(19) Purchase	.. .. .	9
(20) Declaration.	.. .. .	3.
(21) Letters of Administration.	.. .. .	2.
(22) Appointment of New Trustees.	.. .. .	6
(23) Drafting Legal Notices	.. .. .	25
(24) Release Deed.	.. .. .	Nil
(25) Partition	.. .. .	9.
(26) Consent Terms.	.. .. .	Nil
(27) Gift Deed.	.. .. .	2
(28) Sale Certificate.	.. .. .	5
(29) Partnership Deed.	.. .. .	2
(30) Draft Licence to Assign.	.. .. .	10
(31).—References received from other Departments and parties.	.. .. .	338

Smt. M. V. SHETTY
Law Officer.

CENTRAL STORES

SALIENT FEATURES :-

The Stores Department acts as a Central Purchasing and Stores Agency of the Corporation for procuring, storing and supplying various items to all departments. There are about 267 schedules covering 3,000 items. The purchases are made by inviting tenders by Public Advertisement and/or by circular letters to the known dealers.

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

During the year the expenditure incurred on Establishment was Rs. 12,33,652.00, Advertisement Rs. 80,302.00; Printing and Stationery Rs. 18,132.00 Misc. viz. Clothing, Books and Dead Stock etc. was Rs. 1,55,232.00 and Maintenance and Repairs was Rs. 15,230.00.

During the year all together tenders invited were 236, Quotations invited were 341, Contracts executed were 135 and Purchase orders placed were 1912.

During the year 74 notices were served on defaulting suppliers and in 3 cases tender deposits were forfeited. In delayed supplier penalties were also recovered.

During the course of the year, scrap and unserviceable articles valued at Rs. 14,999.92 were disposed off by sale.

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. In order to achieve this objective and to optimise investment in material, it has been decided to computerise the stock accounting, inventory control and suppliers accounting. In the final phase of computerisation, the stores activities viz. Purchase function, Stores function, material planning and Inventory control function and accounting function will be segregated in separate wings and the ward stores and other department stores will be brought under the control of the Central Stores Department.

As a first phase, all 26 ward stores are proposed to be taken over under the Main stores at Byoulla for inventory control purposes and the staff in substores will continue to work under the control of the respective Ward Officers at present. Master files for the main Stores and the Ward Stores are ready and Data Processing Unit is busy preparing computer formats. It is proposed to start computerisation from 1st April 1983 in the first phase.

STATEMENT 'A'

Showing the transactions during the year 1981-82.

Particulars	Capital Stores		General Stores		Total of Columns 2 & 3	
	1	2	3	4	5	6
	Rs.	P.	Rs.	P.	Rs.	P.
Value of stores as on 1st April 1981	22,85,149.16		65,71,344.20		88,56,493.36	
Value of stores received including transfers during the year 1981-82.	8,50,84,066.25		2,82,61,956.87		11,33,46,023.52	
		8,73,69,215.41		3,48,33,301.07		12,22,02,516.48
Less—Value of stores issued including transfers during the year 1981-82.	8,39,47,429.09		2,73,89,381.42		11,13,36,810.51	
Balance on 1st April 1982	34,21,786.32		74,43,919.65		1,08,65,705.97	
Average annual inventory	28,53,467.70		70,07,182.72		78,60,650.42	
Ratio of Average inventory level to monthly Issue.		0.408		3.070		1.03

C. H. KHUBCHANDANI,
Controller of Stores

ADMINISTRATIVE OFFICER (ENQUIRIES)

The Department carries out the following functions :—

- (a) Investigation of complaints against Municipal employees, complaints of corruption malpractices, defalcation, misappropriation and other serious misconducts.
- (b) Conduct of Departmental Enquiries against the Municipal Employees.
- (c) Giving advice and instructions in the matter of investigations and Departmental Enquiries to the other Departments.
- (d) Work pertaining to the installation of telephone at the various Municipal offices and residence of Municipal officers.

2. During the year, the Deptt. conducted 1427 investigations, paid 902 surprise visits to various Municipal Institutions and mustering places and disposed off 5130 cases of miscellaneous nature including some important cases of confidential nature. The details of investigations are as under :—

(a) Cases of alleged acceptance of illegal gratification and misappropriation of Municipal money.	77
(b) Cases of irregularities of major nature.	360
(c) Cases of irregularities of minor nature.	990

In all 563 departmental enquiries were held against whom prima facie cases were established

	No. of cases
The details of action taken are as under —	
1. Dismissal	4
2. Removal	15
3. Withholding of increments	220
4. Fines imposed [	246
5. Censure, Caution and Warnings	141
6. Suspension for 3 days	126
7. Recovery on account of loss to the Corporation	40
8. Exonerated as the charges were not proved	35

The furniture Inspector of this office has checked 23000 furniture articles out of which 18400 articles were approved and 4600 articles were rejected.

A total amount of Rs. 94,500 was distributed to the victims of fire, flood, House collapse, etc., from Mayor Fund Relief Committee.

During the course of investigations of a case, it was revealed that one of the petty works contractors appointed for the year 1978-79 submitted for payment a bill containing bogus charges for removing debris silt etc. from common house gullies and transporting it to Dharavi Dumping Ground and thus attempted to cheat the Corporation. A complaint is therefore lodged with the Police who have filed "First information Report" and the matter is under police investigations.

At the time of routine inspection during the year, this office detected shortage of cement bags in the cement godown in the L. T. M. G. Hospital premises. The investigations prima facie revealed that the P. W. C. Contractors had unauthorisedly removed 100 cement bags to his private godown after they were lifted from the Controller of Stores godown. Action against the contractors concerned for breach of contract conditions have been initiated. Departmental actions against the staff concerned for the alleged defaults on their part are also being taken.

On general survey of the stock position taken by Chief Accountant's department during the year, it was noticed that the stores staff of five wards viz. 'E', 'G/North', 'P/North', 'S' and 'N' Ward had indented timber far in excess of their annual requirements and had committed other serious irregularities. As directed, this office started investigations coverig these wards. The investigations pertaining to 'E' Ward were finalised during the year which prima facie established the extent of over indenting done by the stores staff and the excess payment made to the contractors to the tune of Rs. 98,865.95 on account of the fact that the rates admitted for payment in some quantity of timber were higher than these admissible under the contract entered into with the contractors. Departmental action against the staff responsible for the serious irregularities is in progress.

K. R. DIXIT,
Administrative Officer (Enquiries)

BOMBAY MUNICIPAL SECURITY FORCE

SAVIENT FEATURES :—

I—Income & Expenditure—					
(i) Income	..	...	...	...	Nil.
(ii) Expenditure	...	...	...	...	Rs. 1,92,76,283.95
II—Departmental Enquiries completed					
Preliminary Enquiries completed	...	...	...	...	131
III—Theft etc. cases reported					
	...	...	...	...	438
IV—Value of Municipal property involved					
	...	...	...	...	79,722.20
V—Cases detected					
	...	...	...	...	81
VI—Value of property recovered					
	...	...	...	...	21,516.99
VII—Formation of a Security Cell for Water Supply & Sewerage.					

Department Installations : There are 3213 men working on the Establishment of Security Force. A separate Security wing for guarding the installations of Water Supply & Sewerage Department has been formulated. This Unit is functioning under the administrative control of Security Officer, and functional control of Ch. Engineer (C. S.) Out of the total employees of the Security Force the following are working under that unit.

Asstt. Security Officers	..	..	..	..	5
Security Assistants	..	..	..	..	14
Head Security Guards	..	..	..	..	29
Security Guards	..	..	..	..	711

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

From 1-7-1977, Departmental Enquiries are transferred to Administrative Officer (Enquiries). However, the departmental enquiries pending with this deptt. to that date are completed by the Asstt. Security Officers.

The Security Asstts. have completed 131 preliminary enquiries during the year, in the cases, of desertion of duty, sleeping while on duty, unauthorised absence from duty for long periods, theft pilferage and assaults etc.

The Classification of the Preliminary Enquiries is as under :—

Cases of desertion of duty sleeping while on duty unauthorised absence etc.	Theft and pilferage Cases.	Other cases such as assault, misbehaviour	Total
78	42	11	131

As a result of the Departmental Enquiries completed by A. O. (E)'s Deptt. against the Security Guards, action was taken against 14 Security Guards during the year.

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.
		Rs.		Rs.
Hospital	.. 56	15,851.99	24	9,542.00
Others	.. 382	63,870.21	57	11,974.00
Total	.. 438	79,722.20	81	21,516.99

The Security Force has also been engaged in special Bandobast at Corporation Meetings at the Corporation Hall, The Officers of the Security Force are called on Special Duty round the clock in case of emergencies like "Strikes", Bandh 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 168 Security Guards (including Recruits) were imparted training.

Security Force is in-charge of Industrial Home Guards Unit of the Municipal employees. It has 109 members enrolled on it.

The Bombay 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. Under a training Scheme Officers and men of the Security Force are being imparted training in Self-Defence Arts like Judo, Karate etc. under the guidance of an Expert Tutor.

There were 3213 men working on the Establishment which includes Officers, Subordinates and Labour Staff. The Security Force recruited 200 candidates as Security Guards during the year.

C. W. ZAMBRE,
Security Officer I/C.

MUNICIPAL PRINTING PRESS

HIGH LIGHTS :

(1) Expenditure :

(a) Establishment Rs. 68,21,948. (b) Other Items Rs. 60,28,352.

(2) Jobs : (a) Printing 10260. (b) Supply of Stationery 1,953.

(3) Printed pages for Corporation and their various Committees 67,054

(4) Amount Charged :—(a) To Department Rs. 1,20,31,922 (b) To Private Parties Rs. 94,985.

During the year, the Press carried out 10260 printing jobs both Department and Private in addition to supply of Stationery jobs at a total cost of Rs. 1,20,31,922. Department undertook 33 Private Printing Jobs and 4 jobs of stationery and earned Rs. 94,985. There was a surplus of Rs. 6,73,718 against the last year's surplus Rs. 8,99,992. In order to meet the requirements, department purchased 567 Metric Tons of various kinds of paper from the market and consumed total quantity of 578.1/2 Metric Tons which included old stock.

The comparative statement of jobs carried out and paper purchased during 1980-81 and 1981-82 is furnished below :

Statement I (Jobs carried out)

Description	1980-81		1981-82	
	Jobs	Pages	Jobs	Pages
(i) Departmental (Printing)	10168	..	10227	..
(ii) Departmental (Stationery)	2324	..	1949	..
(iii) Private Parties Printing	35	..	21	..
(iv) Private Parties Stationery	9	..	4	..
(v) B. E. S. & T. Undertaking	12	..	12	..
(vi) Corporation & Committees	..	42319 E 7701 M	..	39337 E 8920 M
(vii) Corporation Record	..	1963 M 16189 E	..	3574 M 15223 E

('E' denotes English and 'M' denotes Marathi.)

Statement II (Paper consumed).

Description	1980-81		1981-82	
	Rate per Kgs.	Quantity in M. T.	Rate per Kgs.	Quantity in M. T.
(i) White	Rs. 8.74	441	Rs. 9.62	349
(ii) Nepa	6.52	34.1/2	6.36	59.1/2
(iii) Other kinds	9.08	166	10.09	170
Total		641.1/2		578.1/2

Certain jobs were carried out through Outside Agencies at a cost of Rs. 1,11,521/- as against Rs. 37,377/- in the previous year. In addition to regular work, the Press carried out printing of (i) Marathi Budget and Establishment Schedule comprising 3062 pages and (ii) Budget 'G' both Marathi and English in time against heavy odds.

In response to the Incentive Bonus Scheme for C. L., 49 workers responded as against 23 in the previous year. The Press is working in two shifts with a total strength of the 488 workers as on 28th February 1982 against 485 as on 28th February 1981. 37 Apprentices under Apprenticeship Act 1961 were engaged in this year as against 19 on 28th February 1981. The labour relations were very cordial and their grievances were redressed on spot wherever practicable.

As the present premises at Carnac Bridge is not adequate to meet the print requirement of the Corporation, extension of the present building was taken in hand which is in progress to the Southern Side. The same is likely to be completed by end of December 1982.

Plans for an additional Printing Press at Chembur are being finalised in consultation with Shri J. G. Deokule, who has been appointed as Consultant for this project. He is also appointed as a Consultant for re-organisation of the Printing Press including working out requirements of new machinery, internal arrangements etc. The Consultants have already submitted their report and its implementation is in progress. As a first step of it we have already installed Phototypesetting Machine and work is also started on the same. The training in the operation of this machine is over. Training of the other staff such as Machine Minder, etc., will be given to the working staff from the Press at present. The work of composing Year Book of the Corporation both in English and Marathi have been started on Photo Composing Machine.

Tenders for procuring new Offset Printing Machines were invited and accordingly orders were placed to purchase R. O.—62, Webfed Offsets Printing Machine and Chief 25 Offsets Printing Machine. Both these machines are likely to be installed in the Press by the 2nd week of July 1982

To minimise the wastage of stationery items supplied to the various departments, the work of preparation of Model Indents of all departments were taken in hand, on the basis of actual consumption for last three years and the same is in last phase.

The present Schedule of the printing items was prepared some twenty years back. Since then there is considerable increase in the requirement of the department and certain forms were deleted from the requirement of the departments. The work of new Schedule of printing item is also taken in hand and the same will be ready shortly.

M. M. KAMAT,
Manager
Municipal Printing Press.

The summary of Advances Departmental Works-Municipal Printing Press recoveries for the year 1981-82.

Description	Amount		Total		Description	Amount		Total	
	Rs.	P.	Rs.	P.		Rs.	P.	Rs.	P.
Opening Balance as per Subsidiary	77,46,004.65				Recovery during 1981-82	1,05,67,469.40			
Material in hand	24,66,139.58				Misc. Revenue	1,14,485.68			
Work in Progress	19,98,270.73					1,06,81,955.08		1,06,81,955.08	
	1,22,10,414.96				Material in hand	24,12,413.21			
Less—Profit during 1980-81	8,99,992.20				Work in Progress	25,29,356.75			
	1,13,10,422.76		1,13,10,422.76		Outstanding Bills	92,10,715.16			
Expenditure during 1981-82						1,41,52,485.12		1,41,52,485.12	
I—Establishment	68,21,948.29								
II—Contingencies	2,58,954.55								
III—Repairs and Maintenance	2,09,259.04								
IV—Stores	49,85,395.54								
V—Electric Power	85,923.11								
VI—Work through Outside Agencies	1,11,520.67								
VII—Provident Fund Charges	79,491.14								
VIII—Debt Charges	2,14,862.93				Total			2,48,34,440.20	
IX—Transport	82,944.55								
	1,28,50,299.82		1,28,50,299.82		Profit			6,73,717.62	
			2,41,60,722.58					2,41,60,722.58	

ROTA PRINTING UNIT

Important Features :

The Rota Printing Unit carry out the work of printing and supplying copies of M.C.'s and M.C.A.'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 papers of the Primary and Secondary Schools of the Corporation in 11 different languages viz., Marathi, Gujarati, Hindi, English, Urdu, Kannad, Tamil, Telugu, Sindhi Devanagari Sindhi Arabic and Malayalam and printing work of other departmental jobs such as Reports, Different Formats, circulars etc.

Expenditure :

(A) Establishment	..	Rs.	5,96,394.18
(B) Others	..	Rs.	6,69,461.54

Work Load Summary :

	Pages	Cost (Rs.)
(a) Printing of Administration Reports of M. C. and M.C.A. in Marathi.	.. 665	13,871.28
(b) Departmental printing jobs such as Formats, circulars, reports, etc.	.. 1218	3,31,763.99
(c) Urgent Items and Accompaniments and the Agenda of the Corporation and its various Committees	.. 1045	83,874.79
(d) Annual Examination papers of Primary and Secondary Schools.	.. 82.59	5,55,910.24
(Lakh Impressions)		

In the reporting year, 48 employees were on the establishment of the Rota Printing Unit.

In the Reporting Year one Tradel Operated perforation machine, spring action, size 18" and one wire stitching machine were purchased at the total cost of Rs. 14,364/-.

In the Reporting Year the printing of booklets of Ready Reckoner of C. A. s Deptt. was entrusted to the Rota Printing Unit.

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

The printing work of the annual examination etc., papers of the E. O.'s Department is of confidential nature and the same is executed very punctually and accurately.

B. M. GHARPURE,
Superintendent,
Rota Printing Unit.

FINANCE

Report from the Chief Accountant on the accounts of the General Municipal Administration, the Improvement Schemes and the Education Fund for the year 1981-82.

GENERAL MUNICIPAL ADMINISTRATION

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

Revenue Account Budget 'A'	1981-82			1980-81
	Budget Estimates	Revised Estimates	Actuals	Actuals
	Rs.	Rs.	Rs.	Rs.
Opening Balance	13,03,19,000	7,22,19,952	7,22,19,952	10,52,12,031
Income ..	1,61,03,58,920	1,58,07,83,450	1,58,95,97,424	1,34,93,17,036
Expenditure ..	1,72,45,27,230	1,64,02,11,930	1,56,68,56,293	1,37,55,19,529
Balance ..	11,41,68,310 (Deficit)	5,94,28,470 (Deficit)	2,27,41,131 (Surplus)	2,62,02,493 (Deficit)
Balance ..	1,61,50,690	1,27,91,482	9,45,61,083	8,00,09,538
Increase (—) Decrease (+) in Reservation for Advances etc...	..	..	—9,28,58,202	—77,89,586
Closing Balance	1,61,50,690	1,27,91,482	21,02,881	7,22,19,952

2. The Details of reservation of Advances etc.

	Rs.	Rs.
Increase—		
In Advances, Miscellaneous Advances ..	10,28,74,280	
In Reserve Stores ..	9,83,922	
Total Increase ..	10,38,58,202	
Decrease in Renewed Grant ..	1,10,00,000	
Net Increase ..		9,28,58,202

Comparative Statement showing the actual position of Surplus Cash Balance as on 31st March 1982 and that as shown in the Revised Estimates for 1981-82 in Corporation's Budget.

Revenue Account Budget 'A'	As adopted by the Corporation (R.E.)		Actuals	Variation Compared with Estimates of the Corporation
	Rs.	Rs.	Rs.	
	Rs.	Rs.	Rs.	Rs.
Opening Balance ..	722.20	722.20	722.20	..
Income ..	1,58,07.83	1,58,95.97	1,58,95.97	88.14 (Increased by)
Expenditure ..	1,64,02.12	1,56,68.56	1,56,68.56	733.56 (Short fall)
Deficit/Surplus for the year (—)(+)	—594.29	+227.41	+227.41	821.70 (Excess by)
Deficit/Surplus ..	+127.91	+949.61	+949.61	821.70
Deduct—Increase in Reservation for Advances ..	..	..	—928.58	—928.58
Net Deficit/Surplus (—)(+)	+127.91	+21.03	+21.03	—106.88

3. The net unhyponthecated Surplus Cash Balance on 31st March 1982 was as under :—

Liabilities		Assets	
		Rs.	Rs.
Reserve Stores Account ..	81,37,539	Surplus Fund as per Appendix No. 2.	28,45,70,374
Advances for plant and Machinery	11,576		
Miscellaneous Advances ..	27,43,18,378		
Minimum required by law ..	1,00,000		
Surplus Cash Balance ..	20,02,881		
	28,45,70,374		28,45,70,374

RESERVE STOCK AND CAPITAL STORES

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

Name of the account	Opening Balances as on 1-4-1981	Receipts during the year	Total	Issues during the year	Closing balances as on 31-3-1982
	Rs.	Rs.	Rs.	Rs.	Rs.
1) Advances Reserve Stores. ..	1,90,93,789	2,72,92,978	4,63,86,767	1,75,02,889	*2,88,83,878
2) Advances Reserve Stores F. R. D.	6,43,067	8,18,363	14,61,430	9,55,974	**5,05,456
3) Advances Capital Stores. ..	3,08,19,361	8,42,33,871	11,50,53,232	6,84,41,887	4,66,11,345
4) Advances Capital Stores F. R. D.	2,11,822	2,46,805	4,58,627	3,03,279	1,55,348
Total ..	5,07,68,039	11,25,92,017	16,33,60,056	8,72,04,029	7,61,56,027

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 1981	Loan raised during the year	Repayment during the year	Loan Outstanding as on 31st March 1982
	Rs.	Rs.	Rs.	Rs.
Division I ..	75,34,48,463	12,16,13,897	2,37,21,724	85,13,40,636
Division II ..	92,48,34,833	13,25,00,000	1,32,84,090	1,04,40,50,743
Total ..	1,67,82,83,296	25,41,13,897	3,70,05,814	1,89,53,91,379

Break up of the Loans raised during the year were as under :—

	Rs.	Rs.	
1) Division— I ..	6,60,00,000		Being the loan amount towards Rs. 1,350 lakhs plus 10 per cent. issued at par with the currency of 15 years at 7½ per cent. interest per annum and Sinking Fund improving at 7 per cent. basis per annum raised by Public subscription out of Rs. 1,750 lakhs (Rs. 650 lakhs 1st instalment plus Rs. 1,100 lakhs 2nd instalment) loan sanctioned under G. R. Nos. LON/3281/569/81/BUD-16, dated 23rd July 1981 and LON/3281/1027/81/BUD-16, dated 4th December 1981 in response to Corporation's Loan application for Rs. 2,400 lakhs underlying C. R. No. 231 of 16th July 1981.
Division—II ..	8,25,00,000	14,85,00,000	

* This includes Rs. 2,14,39,958 shown under unadjusted Reserve Stores Account.

** This includes Rs. 1,88,163 shown under unadjusted Reserve Stores A/c. Foras Road Depot.

(2) Division— I ..	5,00,00,000			Being the loan amount towards Rs. 1,100 lakhs issued at par with a currency of 25 years at 7% interest per annum and Sinking Fund improving at 6½ per cent. basis per annum, raised by internal funds. Loan sanctioned under C. R. No. 231 of 16th July 1981 and G. R. No. LON/3281/569/81/BUD-16, dated 23rd July 1981.
Division—II ..	5,00,00,000	10,00,00,000		
(3) Division—I ..	56,13,897	56,13,897		Being the Loan received from World Bank through B. M. R. D. A. out of total loan of U. S. Dollars, 45,40,000 (Approximate Rs. 3,63,20,000 at Rs. 8 per Dollar) at the rate of 9.2 per cent. interest p.a. allocated to B. M. C. vide C. R. No. 772, dated the 29th November 1976 and 828 of 17th December 1975 and G. R. No. BMC/7676/313-UD-3, dated the 18th January 1977.
Total ..		25,41,13,897		

The repayments during the year were as under :—

		Rs.	
Division—I	(1)	27,10,462	Repayment of 9.2 per cent. IBRD (World Bank) Loan through B.M.R.D.A. for Traffic Operations.
	(2)	1,57,50,962	Repayment of 6 per cent. Rs. 550 lakhs B. M. C. Loan 1969 excluding Rs. 4,58,47,037.91 paid by Budget 'G'.
	(3)	52,50,300	Repayment of 4 per cent. Rs. 130 lakhs Internal Loan 1956-57 excluding Rs. 77,39,700 paid by Budget 'G'.
Division—II		1,32,84,090	Repaid to Debenture holders out of Sinking Fund investment.
Total		3,70,05,814	

SINKING FUND

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

Budget 'A'	Amount of Fund on 1st April 1981	Interest etc. received	Sinking Fund Instalments	Withdrawn for repayment of Loans	Excess accumulation withdrawn	Amount of Fund on 31st March 1982
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Division-I ..	42,32,25,904	2,25,82,507	3,97,42,781	7,45,98,000	1,50,00,000	39,59,53,192
Division II	24,97,41,905	1,08,88,670	4,74,10,280	1,92,50,000	1,50,00,000	27,37,90,855
Total	67,29,67,809	3,34,71,177	8,71,53,061	9,38,48,000	3,00,00,000	66,97,44,047

Budget 'A'	Book value of securities and cash as on 31-3-1982	Market value of securities, interest accrued upto 31-3-82, and cash as on 31-3-1982	Amount of Sinking Fund which should have accumulated upto 31-3-1982	Excess in Sinking Fund as on 31-3-82
	Rs.	Rs.	Rs.	Rs.
Div.-I	39,59,53,192	39,88,52,774	38,40,84,709	1,47,68,065
Div.-II	27,37,90,855	27,68,52,915	26,44,90,814	1,23,62,101
Total	66,97,44,047	67,57,05,689	64,85,75,523	2,71,30,166

REVENUE INCOME

For Division I and II

6. The estimated Income for the year was Rs. 1,61,03,58,920 and Revised Estimate was Rs. 1,58,07,83,460. The Actuals amounted to Rs. 1,58,95,97,424 resulting in decrease of Rs. 2,07,61,496 on the Budget Estimates and increase of Rs. 88,13,964 on the Revised Estimates.

* Out of this Rs. 20,91,07,603 and Rs. 3,93,64,905 pertaining to Division I & II respectively relate to Budget 'G'.

OCTROI

6A. The gross collections for the year were estimated at Rs. 89,50,00,000, the refunds and Commission charges at Rs. 7,50,00,000 and the net revenue at Rs. 82,00,00,000. The revenue collected and paid into the Municipal Treasury in the year amounted to Rs. 93,72,09,581 and after deducting the amount of Rs. 10,07,28,201 (on account of refunds Rs. 8,87,14,963 and on account of fees for collection Rs. 1,20,13,238 credited to the separate Revenue Head), the net receipts amounted to Rs. 83,64,81,380 showing an increase of Rs. 14,50,53,690 as compared with the actuals of the previous year (i.e. Rs. 69,14,27,690).

REVENUE EXPENDITURE

For Division I and II

7. The final sanctioned grants amounted in the aggregate to Rs. 1,87,84,79,282.

	Rs.
Budget Grants	.. 1,72,45,27,230
Unexpended Grants for previous years renewed for expenditure	.. 6,51,78,085
Additional Grants	.. 8,87,73,967
	Final sanctioned grants .. 1,87,84,79,282

The transfers from one Budget Head to another without affecting the total Budget Provisions for the year amounted to Rs. 5,39,64,915.

8. Against the final sanctioned grants for the year aggregating to Rs. 1,87,84,79,282 as stated above the actuals amounted to Rs. 1,56,68,56,293 leaving an unexpended balance of Rs. 31,16,22,989 at the close of the year. Out of this balance the amount of Rs. 6,40,00,000 is being renewed for expenditure during 1982-83 as against Rs. 7,50,00,000 in 1981-82 and the remaining balance of Rs. 24,76,22,989 is being allowed to lapse.

9. The percentage of establishment expenditure to the total expenditure for 1981-82 and the previous year is as given below :—

Budget 'A'	Establishment Cost	Percentage of Establishment cost to total Expenditure during	
		1981-82	1980-81
	Rs.		
Division—I	.. 43,04,51,664	41.15	37.12
Division—II	.. 20,98,53,442	40.30	37.63
Total	64,03,05,106	40.87	37.28

LOAN FUND AND LOAN WORKS EXPENDITURE

(City)

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

O. B. as on 1-4-1981	New Loans raised during 1981-82	Reimbursement of loan from B.M.R.D.A.	Repayment of advance granted for purchase of P. & M.	Grant-in-aid from Govt.
Rs.	Rs.	Rs.	Rs.	Rs.
6,03,60,783	11,60,00,000	56,13,897	2,23,34,657	26,36,152
Total loan fund available	Total expenditure incurred	Recoupment of advance-from Surplus Monies	C. B. as on 31-3-1982	
Rs. 20,69,45,489	Rs. 20,83,09,569	Rs. 56,474	Rs. *13,07,606 (Deficit)	

* This deficit was met by taking an advance from Surplus Monies.

CAPITAL ACCOUNT

15. Position of Capital Account was as under :-

	Opening balance as on 1-4-1981	Receipt on A/cof sale proceeds of lands and buildings	New Loan raised during the year	Total funds available	Expenditure during the year	Deficit of General A/c. Transferred to Capital A/C.	Closing Balance as on 31-3-1982
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Improvement Schemes	-3,98,90,512 (Deficit)	14,75,120	..	-3,84,15,392	1,04,75,131	89,04,911	-5,77,95,434 (Deficit)
Slum Clearance City Section	-67,79,234 (Deficit)	..	..	-67,79,234	19,77,964	40,50,261	-1,28,07,459 (Deficit)
Slum Clearance Suburban-Section	-88,49,401 (Deficit)	1,47,986	..	-87,01,415	1,05,879	56,26,100	-1,44,33,394 (Deficit)
Slum Improvement	-2,22,27,403 (Deficit)	* 72,11,833	..	-1,50,15,570	1,32,90,534	..	-2,83,06,104 (Deficit)
Total	-7,77,46,550 (Deficit)	88,34,939	..	-6,89,11,611 (Deficit)	2,58,49,508	1,85,81,272	-11,33,42,391 †

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 1981	Loan raised during the year	Repayment of Loan during the year	Loan outstanding on 31st March 1982
	Rs.	Rs.	Rs.	Rs.
Improvement Schemes	16,15,28,000	..	45,00,000	15,70,28,000
Slum Clearance City Section	6,10,04,400	..	11,99,043	5,98,05,357
Slum Clearance Suburban Section	5,28,13,400	..	1,14,038	5,26,99,362
Slum Improvement	2,00,00,000	..	..	2,00,00,000
Total	29,53,45,800	..	58,13,081	28,95,32,719

SINKING FUND

17. The Position of Sinking Fund was as under :-

Budget 'B'	Amount of Sinking Fund as on 1-4-1981	Interest etc. received during the year	Sinking Fund Instalments	Withdrawn for repayment of Loans	Amount of Sinking Fund as on 31-3-1982
	Rs.	Rs.	Rs.	Rs.	Rs.
Improvement Schemes	8,77,80,746	45,45,704	25,78,479	45,00,000	9,04,04,929
Slum clearance City Section	1,76,94,509	10,60,500	11,20,858	10,00,000	1,88,75,867
Slum clearance Suburban Sec.	1,16,14,127	7,09,015	9,85,606	..	1,33,08,748
Slum Improvement	15,98,717	97,922	3,64,534	..	20,61,173
Total	11,86,88,099	64,13,141	50,49,477	55,00,000	12,46,50,717

* Reimbursement of Capital expenditure from Bombay Housing and Area Development Board.
 † The deficit was met by taking an advance from Surplus Monies of Budget 'A' Div.-I.

	Book value of Securities and cash as on 31-3-1982	Market value of Securities interest accrued upto 31-3-82 and cash as on 31-3-1982	Amount of Sinking Fund which should have accumulated upto 31-3-1982	Excess in Sinking Fund as on 31-3-1982
	Rs.	Rs.	Rs.	Rs.
Improvement Schemes ..	9,04,04,929	9,09,04,484	8,08,17,560	1,00,86,924
Slum clearance City Section ..	1,88,75,867	1,89,88,980	1,75,46,397	14,42,583
Slum Clearance Suburban Section	1,33,08,748	1,33,72,663	1,25,00,560	8,72,103
Slum Improvement	20,61,173	20,61,500	20,55,257	6,243
Total ..	12,46,50,717	12,53,27,627	11,29,19,774	1,24,07,853

EDUCATION FUND

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

Revenue Budget 'E'	1981-82			Actuals for 1980-81
	Budget Estimates	Revised Estimates	Actuals	
	Rs.	Rs.	Rs.	Rs.
Opening Balance ...	24,57,190	49,31,238	49,31,238	60,740
Income ...	30,95,21,000	31,71,38,500	32,06,47,466	27,97,80,695
Expenditure ...	31,19,53,220	32,20,03,490	31,90,89,894	26,89,49,299
Surplus or Deficit during the year (+) (-)	-24,32,220	- 48,64,990	+ 15,57,572	+ 1,08,31,396
Balance ...	+ 24,970	+ 66,248	+ 64,88,810	+ 1,08,92,136
Add—Decrease or Increase in Reservations as shown in (ii) below ...	...	...	-64,21,384	- 59,60,898
Closing Balance ...	+ 24,970 (Surplus)	+ 66,248 (Surplus)	+ 67,426 (Surplus)	+ 49,31,238 (Surplus)

Statement showing the comparative position between the Revised Estimates and the Actuals for the year 1981-82.

(Rs. in Lakhs)

Revenue Budget 'E'	Revised Estimates for 1981-82	Actuals for 1981-82	Difference Increase (+) Decrease (-)
	Rs.	Rs.	Rs.
Opening Balance ...	49.31	49.31	...
Income ...	31,71.38	32,06.48	+ 35.10
Expenditure ...	32,20.03	31,90.90	- 29.13
Surplus/Deficit (+) (-)	+ 0.66	+ 64.89	+ 64.23

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

Increase/Decrease (+) (-)	1981-82 Rs.	1980-81 Rs.
In Miscellaneous Advances ...	+ 33,21,384	+ 1,66,60,898
In Renewed Grants ...	+ 31,00,000	- 1,07,00,000
Net Increase or Decrease (+) (-)	+64,21,384	+59,60,898

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

Year	LOAN FUNDS			Percentage of Actuals to Budget Estimates	Percentage of Actuals to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.		
1979-80 ..	34,83,29,527	30,44,04,020	7,48,59,977	22	25
1980-81 ..	44,02,46,350	40,23,13,845	13,00,58,939	29	32
1981-82 ..	52,37,99,400	52,60,55,650	20,83,09,569	40	40

(Suburbs)

O. B. as on 1-4-1981	New loans raised during 81-82	Repayment of advance granted for purchase of P. & M.	Total loan funds available for expenditure	Total expenditure incurred	C. B. as on 31-3-1982
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
6,92,50,106	13,25,00,000	56,15,193	20,73,65,299	22,89,87,965	\$2,16,22,666 (Deficit)

A balance of Rs. 97,808 was in Trust Fund at the close of the year.

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

Year	LOAN AND TRUST FUNDS			Percentage of actuals to Budget Estimates	Percentage of actuals to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.		
1979-80 ..	39,40,65,300	37,07,11,050	11,72,72,734	30	32
1980-81 ..	43,89,06,650	47,70,15,895	14,17,77,131	32	30
1981-82 ..	55,31,88,115	61,43,43,800	22,89,87,965	41	37

CONSOLIDATED LOAN WORKS EXPENDITURE

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

Year	LOAN AND TRUST FUNDS			Percentage of actuals to Budget Estimates	Percentage of actuals to Revised Estimates
	Budget Estimates	Revised Estimates	Actuals		
	Rs.	Rs.	Rs.		
1979-80 ..	74,23,94,827	67,51,15,070	19,41,04,047	26	29
1980-81 ..	87,91,53,000	87,93,29,740	27,18,36,070	31	31
1981-82 ..	*1,07,69,87,515	@1,14,03,99,450	43,72,97,534	40	38

£ This deficit was met by taking an advance from Surplus Monies.

* Includes Rs. 13,15,000 on account of Trust Fund Div. II.

@ Includes Rs. 6,21,000 on account of Trust Fund Div. II.

INVESTMENT

11. The position of investment was as under :—

	Investment in Fixed Deposits	Investment in current A/C Deposits	Aggregate investment	Interest on Fixed Deposits	Interest on current A/C Deposits	Total interest realised
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
City	1,57,36,67,700	77,95,98,498	2,35,32,66,198	10,65,73,278	1,44,797	10,67,18,075
Suburbs	..	31,32,26,182	31,32,26,182	..	1,07,892	1,07,892
Total	1,57,36,67,700	1,09,28,24,680	2,66,64,92,380	10,65,73,278	2,52,689	10,68,25,967

STREET IMPROVEMENT

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

	Provision in the Revised Loan Works Budget Estimates for 1981-82 for acquisition of set backs	Expenditure during 1981-82	Balance out of the Provision	Amount of undischarged Commitments upto 31-3-1982
	Rs.	Rs.	Rs.	Rs.
City	85,00,000	24,99,190	60,00,810	1,02,54,128
Suburbs	1,10,00,000	67,88,044	42,11,956	..
Total	1,95,00,000	92,87,234	1,02,12,766	1,02,54,128

Housing Loan

13. The position of Housing Loans to the Co-op. Housing Societies of the Municipal Employees, was as under :—

Loan balance as on 1-4-1981	Amount of Loans granted during the year	Repayments of Loans during the year	Loans balance as on 31-3-1982
Rs.	Rs.	Rs.	Rs.
11,04,14,556	81,00,045	65,74,883	11,19,39,718

BUDGET 'B' General Account

14. Position of General Account during the year 1981-82 was as under :—

	Income	Expenditure	Surplus	Deficit
	Rs.	Rs.	Rs.	Rs.
Improvement Schemes	4,68,75,284	5,57,80,195	..	89,04,911
Slum Clearance (City Section)	29,41,594	69,91,855	..	40,50,261
Slum Clearance (Suburban Section)	8,99,449	65,25,549	..	56,26,100
Slum Improvement	* 5,14,32,835	5,14,32,835	..	..
Total	10,21,49,162	12,07,30,434	..	1,85,81,272

* Rs. 3,86,34,176 Contribution from Budget 'A' and Rs. 1,27,98,659 income from Hutment Colonies.

(iii) The net unhyponthecated Surplus Cash Balance on 31st March 1982 was as under :—

Liability		Assets	
Miscellaneous Advance ...	Rs. 2,33,43,657	Surplus Revenue Fund as per Appendix No. 59 ...	Rs. 2,34,11,083
Minimum required by Law ...	20,000		
Surplus Cash Balance ...	47,426		
Total ...	2,34,11,083	Total ...	2,34,11,083

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

Opening Debt on 1st April 1981	Loan raised during the year	Repayment of Debt during the year	Outstanding Debt on 31st March 1982
Rs. 19,86,50,000	Rs. 2,10,00,000	Rs. 27,50,000	Rs. 21,69,00,000

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

Amount of Fund on 1st April 1981	Interest etc. realised	Sinking Fund instalments	Total Sinking Fund	Withdrawal for Repayment of Loans	Amount of Fund on 31st March 1982
Rs. 4,97,25,501	Rs. 30,10,355	Rs. 90,57,943	Rs. 6,17,93,799	Rs. 027,50,00	Rs. 5,90,43,799

Book value of securities and Cash as on 31-3-1982	Market value of securities Interest accrued upto 31-3-1982 and cash as on 31-3-1982	Amount of Sinking Fund which should have accumulated upto 31-3-1982	Excess in Sinking Fund as on 31-3-1982
Rs. 5,90,43,799	Rs. 5,97,64,065	Rs. 4,82,19,062	Rs. 1,15,45,003

The value of Securities held in Sinking Fund Account on the basis of Market rates prevailing on 31st March 1982 including accrued interest and cash exceeded the actuarial amount of the Sinking Fund by Rs. 1,15,45,003 which is held in the Sinking Fund Account.

Income

(vi) The Estimated Income for the year was Rs. 30,95,21,000 and that as per the Revised Estimates was Rs. 31,71,38,500. The Actuals amounted to Rs. 32,06,47,466 resulting in increase of Rs. 1,11,26,466 on the Budget Estimates and Rs. 35,08,966 on the Revised Estimates, respectively. The increase as per revised Estimates is mainly due to the Education cess Rs. 29,96,982, and Rent and other Proceeds of Properties Rs. 13,77,441 which is counter balanced by decrease in Grant-in-aid from Government Rs. 8,24,884.

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

Expenditure

(vii) The final sanctioned Grants amounted in the aggregate to Rs. 35,01,53,160 as follows :—

Budget Grants ...	Rs. 31,19,53,220
Unexpended Grants for previous years renewed for Expenditure ...	2,00,00,000
Additional Grants ...	1,81,99,940
Final sanctioned Grants ...	35,01,53,160

The transfers from one Budget Grant to another without affecting the total Budget provision of the year amounted to Rs. 3,80,000.

(viii) Against the Final Grant of the year aggregating to Rs. 35,01,53,160 as stated above, the Actually amounted to Rs. 31,90,89,894 leaving an unexpended balance of Rs. 3,10,63,266 at the close of the year. of this a sum of Rs. 2,31,00,000 is being renewed for expenditure during 1982-83 against Rs. 2,00,00,000 in 1981-82, and balance of Rs. 79,63,266 is being allowed to lapse as savings.

(fr) The percentage of Establishment cost inclusive of expenditure Fund, and Pension etc., charges to the total expenditure for 1981-82 as percentage is given below :—

Establishment	Establishment Cost	Percentage	
	1981-82	1981-82	1980-81
	Rs.		
(1) Supervisory and Subordinate	24,36,57,061	76.36	76.92
(2) Labour Technical and Others	2,61,91,113	8.28	8.30
Total	26,98,48,174	84.64	85.22

Loan Funds

(x) The opening balance on 1st April 1981 on account of Loan Funds excluding the Trust Fund was Rs. 89,14,673. The amount of new loan proposed in the Budget for 1981-82 was Rs. 200 lacs. A loan of Rs. 210 lacs was raised during the year. The total Loan Fund available for expenditure during the year thus amounted to Rs. 2,99,14,673.

The expenditure incurred on Loan Works during the year amounted to Rs. 2,83,16,428. Leaving an unexpended balance of Rs. 15,98,245 at the close of the year.

(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.	Rs.	Rs.		
1979-80 ...	7,73,05,800	5,38,94,200	1,52,11,864	19.7	28.2
1980-81 ...	6,33,70,900	6,30,50,400	1,85,70,757	29.3	29.5
1981-82 ...	8,19,74,000	9,44,08,000	2,83,16,428	34.5	30.0

R. S. PEDNEKAR,
Chief Accountant.

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

Particulars.	1977-78.	1978-79	1979-80.	1980-81.	1981-82.
<i>General</i>					
1. Area of the Greater Bombay (in sq. Kms.)...	438,1963	433,1963	438,2256	464,79	466,35
2. Population ...	*§59,70,575	*§ 59,70,575	*§ 59,70,575	† 82,92,542	†† 82,27,332
<i>Rates and Assessments.</i>					
3. Rateable value Rs.	1,36,11,55,271	1,37,76,35,838	1,46,14,18,814	1,56,01,40,556	1,65,66,84,247
4. Rateable value Rs. per head of population.	Rs. 227.98	Rs. 230.74	Rs. 244.77	Rs. 188.14	Rs. 201.36
5. Properties registered in the Assessment Book	2,17,461	1,97,632	1,97,073	2,04,293	2,08,748
<i>Income.</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
6. General Tax (@24% of R.V.) ...	29,63,69,649	29,21,51,377	31,87,11,960	33,87,68,724	36,90,69,740
7. Income from other sources ...	75,29,68,546	81,18,07,994	93,53,67,521	1,01,05,48,312	1,22,05,27,684
Total Income	1,04,93,38,195	1,10,39,59,371	1,25,40,79,481	1,34,93,17,036	1,58,95,97,424
8. Incidence of Taxation per head	§§ 142.99	§§ 152.43	§§ 175.62	§§ 133.51	§§ 156.73
<i>Loans.</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
9. Debt outstanding ...	1,03,85,04,450	1,21,08,93,799	1,42,19,18,260	1,67,82,83,296	1,89,53,91,379
10. Redemption and Sinking Funds in hand or invested ...	25,69,70,703	26,36,65,127	28,60,38,239	39,51,26,097	42,12,71,539
11. Net Loan Debt ...	78,15,33,747	94,72,28,672	1,13,58,80,021	1,28,31,57,199	1,47,41,19,840
12. Net Debt per head of population ...	130.90	158.65	190.25	154.74	179.17
<i>Expenditure</i>					
	Rs.	Rs.	Rs.	Rs.	Rs.
13. Primary Education ...	14,10,33,928	13,93,09,854	14,23,58,157	18,73,28,729	21,96,02,120
14. Medical Relief ...	21,41,48,410	22,46,79,071	25,48,05,751	28,31,45,017	33,03,92,650
15. Other City services ...	60,70,32,041	58,32,79,672	59,50,40,103	74,14,92,576	82,10,24,953
16. Debt Charges ...	9,17,37,674	11,19,62,551	14,75,47,068	16,35,53,207	19,58,36,570
Total Expenditure ...	1,05,39,52,053	1,05,92,31,148	1,13,97,51,079	1,37,55,19,529	1,56,68,56,293

* As per Census 1971. § (As Finally intimated by Dy. Director of Census)

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

† As per Census 1981 as intimated by H. O.

†† As finally intimated by the Director of Census.

APPENDIX No. 2.

(Consolidated)

Revenue Account for the year ended 31st March 1982

Particulars		Total	Particulars		Total
		Rs. P.			Rs. P.
To Revenue Expenditure	...	1,56,68,56,293.35	By Revenue Receipts	...	1,58,95,97,424.43
Surplus for the year	...	2,27,41,131.08			
		1,58,95,97,424.43			1,58,95,97,424.43
	Rs. P.			Rs. P.	
To Revenue Expenditure to be incurred in 1982-83 and provided for as renewed grants	... 6,40,00,000.00		By Surplus Revenue Fund as at 1st April 1981	... 25,08,29,242.59	
		6,40,00,000.00	By Surplus for the year	... 2,27,41,131.08	
To Balance being Surplus Revenue Fund as at 31st March 1982 as per Appendix No. 5 of Division I	+ 1,43,75,02,900.02				27,35,70,373.67
.. II	- 1,15,29,32,526.35		By Revenue of previous years reserved for the year 1981-82	... 7,50,00,000.00	
		28,45,70,373.67			7,50,00,000.00
		34,85,70,373.67			34,85,70,373.67

Appendix No 5

(Consolidated)

Revenue Account, Balance Sheet as at 31-3-1982.

Liabilities	Amount		Assets	Amount.	
	Rs. P.	Rs. P.		Rs. P.	Rs. P.
(A) Outstanding liabilities—					
Cash Bill Outstanding			Cash at Bank—		
Budget 'A' Div. I ..	10,71,561.79		Div. I .. Cr ..	13,81,87,925.98	
" II ..	6,08,466.01		Div. II .. Cr ..	2,18,63,796.66	
		16,80,027.80	Cash in Office—		16,00,51,722.64
Cheques Payable A/c			Div. I ..	6,33,30,515.39	
Budget 'A' Div. I ..	88,91,562.01		Div. II ..	5,55,05,664.64	11,88,36,180.03
" II ..	70,56,333.13	1,59,47,895.14			
Stores Purchase Outstanding A/c.		22,83,122.56	Municipal Loans-Interest Warrant Payable Account ..		
Stock Adjustment A/c. ..		2,05,670.41	Budget 'A' Div. I ..	47,464.07	
Capital Stores Purchase A/c (Foras Rd.) ..		6,80,180.47	" II ..	85,135.50	1,32,599.57
Outstanding charges for 1981-82 and previous year			B. I. T. Loans Interest Warrant Payable Account ..		6,054.55
Budget 'A' Div. I ..	3,65,00,000.00		Interest on B. I. T. Loans payable Account ..		760.00
" II ..	2,75,00,000.00	6,40,00,000.00	Current Account with State Bank of India for payment of Interest on Suburban Loan ..		90,223.97
Outstanding charges in respect of Interest Accrued but not paid Budget 'A' Div. I ..	76,47,308.01		Budget 'A' Div. II ..		
Div. II ..	1,41,24,003.32	2,17,71,311.33	Current Account with State Bank of India for repayment payable A/c.		10,500.00
Deposit in Cash and Public Securities from contractors and Private Parties			Due for Stores Sold ..		5,32,03,940.24
Budget 'A' Div. I ..	41,48,69,422.01		Advances Recoverable Account		
" II ..	57,81,36,015.02	99,30,05,437.03	Budget 'A' Div. I ..	26,65,59,873.59	
			" II ..	8,55,34,796.30	35,20,94,669.89
Interest on loans payable A/c.			Reserve Stores purchase A/c.		3,07,841.63
Budget 'A' Div. I ..	2,51,750.50		Capital Stores Purchase A/c. ..		44,01,452.94
" II ..	14,06,570.20	16,58,320.70	Capital Store Stock A/c. ..		1,57,91,983.70
			Unadjusted Reserve Stores A/c. Stock		2,14,39,958.50
Amount Payable to Budget 'E'		2,33,07,557.26	Unadjusted Reserve Stores A/c. Stores (F. R.)		Cr. 1,88,162.95
Amount Payable to Budget 'G'		38,75,90,423.15	Advance from Surplus Moneys for financing Capital work Expenditure—		
			Budget 'A' Div. I ..	13,07,606.13	
			" II ..	2,16,22,666.51	
			Budget 'B' Improvement Scheme SI, CI, City/Subs. & SI, Impt. ..	11,33,42,390.19	13,62,72,662.83
Total—Outstanding Liabilities		151,21,29,945.85	Deposit in Securities from Public with State Bank of India—		
			Budget 'A' Div. I ..	2,25,650.00	
			" II ..	10,58,290.12	12,83,940.12
			In Office—		
			Budget 'A' Div. I ..	1,16,12,830.00	
			" II ..	18,44,785.00	1,34,57,615.00
			Investment of Surplus Moneys in Public Securities ..		38,013.14
			Investments of Balance held—		
			In Securities) ..	11,34,61,477.18	
			In Fixed Deposits ..	83,33,08,900.00	
			In Interest bearing Current A/c. ..	80,85,573.24	
			In Cash with S. B. I. ..	1,45,484.91	95,50,01,435.33
Total C. F. ..		151,21,29,945.85	Total C. F. ..		151,21,29,945.85

Appendix No. 5 —Contd.

(Consolidated)

LIABILITIES	AMOUNT		ASSETS	AMOUNT	
Total—B. O. ..		1,51,21,29,945.85	Total—B. O. ..		1,51,21,29,945.85
(B) Special Fund Account'			Investment of Special Funds in Securities'		
Municipal Fire and Accident Insurance Fund A/c. ..		65,37,705.14	Provident Fund ..		63,27,82,373.81
Net Premia Fund Account ..		18,36,770.61	Fidelity Guarantee Ins. Fund ..		8,53,900.00
Provident Fund Account ..		63,27,82,419.83	Motor Vehicles (Third Party) Ins. Fund ..		11,50,000.00
Hospital Fund Account— Budget, 'A' Div. I ..	20,14,383.72		Endowment Fund ..		13,61,288.89
" II ..	2,36,191.87		Public Monument Maintenance Fund ..		
		22,50,575.59	Budget 'A' Div. I ..	1,22,873.34	
Welfare Fund ..			" II ..	16,300.00	1,39,173.34
G. S. M. College, K. E. M. Hospital Research Fund Account ..		9,44,446.76	Hospital Fund— Budget 'A' Div. II ..	2,36,100.00	2,36,100.00
Fidelity Guarantee Insurance Fund A/c. ..		8,53,981.23	Total—Inv. in Securities ..		63,65,22,836.04
Motor Vehicles (Third party) Insurance Fund A/c ..		12,00,000.00	Investment of Special Fund in Fixed Deposit and Cash etc. ..		
Land R. A. Fund Account ..		1,86,67,310.75	Municipal Fire and Accident Insurance Fund ..		65,37,705.14
Pension Fund Account ..		26,27,54,846.44	Net Premia Fund ..		18,36,770.61
Gratuity Fund Account ..			Provident Fund ..		46.02
Public Monument Maintenance Fund Account— Budget 'A' Div. I ..	1,22,965.34		Hospital Fund Budget 'A' Div. I ..	2,14,383.72	
" II ..	16,317.94		" II ..	91.87	20,14,475.59
		1,39,283.28			
Endowment Fund Account ..		14,26,502.04			
Fire Brigade Employees (Operational Staff) Accident Compensation Fund ..		2,73,676.17			
Mechanically Propelled Vessels (T. P.) Insurance Fund A/c. ..		5,17,291.67			
Development Fund for Secondary Schools ..		52,38,496.75			
Tree Authority Fund ..		20,41,194.21			
Total—Special Fund A/c. ..		93,74,64,500.47			
Total—C. F. ..		2,44,95,94,446.32	Total—C. F. ..		1,03,88,997.36
			Total—C. F. ..		2,14,86,52,781.89

Div.—I.

Appendix No 5;
(Consolidated)

Revenues Account, Balance Sheet as at 31-3-1982.

Liabilities	Amount		Assets	Amount.	
	Rs.	P.		Rs.	P.
Total—B.O. ..		244,95,94,446.32	Total—B.O. ..		214,86,52,781.89
			Total—B.O. ..		1,03,88,997.36
			G. S. M. College and K. E. M. Hospital Research Fund		9,44,446.76
			Fidelity Guarantee Insurance Fund		81.23
			Land R. A. Fund		1,86,67,310.75
			Motor Vehicle (Third Party, Insurance Fund ..)		50,000.00
			Pension Fund ..		26,27,54,846.44
			Gratuity Fund ..		..
			Endowment Fund ..		65,213.15
			Public Monuments Maintenance Fund Budget 'A' div. I ..	92.00	
			" II ..	17.94	109.94
			Fire Brigade Employees (Operational Staff) Accident Compensation Fund ..		2,73,676.17
			Mechanically propelled vessels (T. P.) Insurance Fund ..		5,17,291.67
			Development Fund for Secondary Schools ..		52,38,496.75
			Tree Authority Fund		20,41,194.21
			Total Investment in Fixed Deposits and in Cash ..		30,09,41,664.43
			Total Investment Special Fund		3,74,64,500.47
(G) Surplus Revenue Fund A/c.			Investment of Surplus Revenue Fund'		
Budget 'A' Div. I ..	143,75,02,900.02		General Reserve Stores Account Stock—(App. 17) ..		81,37,538.99
Deficit " II ..	115,29,32,526.35	28,45,70,373.67	Plant & Machinery Purchased out of S. C. B. Div. III ..		11,576.33
			Advances out of S. C. B.—		
			Budget 'A' Div. I ..	15,52,34,919.43	
			" II ..	11,90,83,459.05	27,43,18,378.48
			Investments of Balance held—		
			In Securities ..		
			In Fixed Deposits ..	21,00,000.00	
			In Interest bearing Current A/c.	2,879.87	21,02,879.87
			Total Surplus Revenue Fund ..		28,45,70,373.67
Grand Total ..		273,41,64,819.99	Grand Total ..		273,41,64,819.99

Investments in Surplus Fund.

Budget 'A'	Paper Securities	Fixed Deposit	Interest bearing Current A/c.	State Bank of India. Cash Deposits	Total
	Rs.	Rs.	Rs.	Rs.	Rs.
Division I ..	3,84,86,639.98	83,54,08,900.00	79,51,292.36	1,08,596.56	88,19,55,428.90
Division II ..	7,49,74,837.20	..	1,37,160.75	36,888.35	7,51,48,886.30
Total ..	11,34,61,477.18	83,54,08,900.00	80,88,453.11	1,45,484.91	95,71,04,315.20

APPENDIX No. 7 (Consolidated)

CAPITAL FUND BALANCE SHEET AS AT 31ST MARCH 1982 (Budget 'A')

PARTICULARS	LIABILITIES				ASSETS				
	Div. I		Div. II	TOTAL		PARTICULARS	Div. I	Div. II	Total
	Rs.	Rs	Rs	Rs	Rs		Rs.	Rs.	Rs.
Loan Outstanding Due to Public		85,13,40,636.39	1,04,40,50,743.00		1,89,53,91,379.39	BLOCK ACCOUNT—			
Advances from Surplus monies		13,07,606.13	2,16,22,666.51		2,29,30,272.64	Loan Funds—			
Trust Fund Account—						Property and Assets at original cost	1,17,53,05,050.83	1,16,76,26,134.52	2,34,29,31,185.35
Donation from—									
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				
Reserve Bank of India for construction of a ward of 38/40 beds for accommodating their sick employees in K. E. M. Hospital		46,577.39			46,577.39	TRUST FUND—			
					48,271.89	Expenditure	83,23,829.47	3,27,408.00	86,51,23.47
SURPLUS—						MUNICIPAL LAND AND BUILDINGS FUND—			
Capital Assets at Original Cost Over Liabilities Sinking Fund on Loans		39,59,53,192.12	27,37,90,854.79		66,97,44,046.91	Land purchased and Buildings erected	43,03,043.42		43,03,043.42
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	39,59,53,192.12	27,37,90,854.79	66,97,44,046.91
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 S etc.	3,09,74,708.96		3,09,74,708.96
Do. Government for widening the Love 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		97,800.00	97,800.00
Do. Development Fund		1,29,89,110.46			1,29,89,110.46	In Fixed Deposits	48,200.00		48,200.00
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	71.89	7.69	79.58
Do. Trustees Gokuldas Tejpal Charities		18,123.64			18,123.64		48,271.89	97,807.69	1,46,079.58
Do. Budget 'A' Division I			3,00,000.00		3,00,000.00				
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				
Loan Redemption Fund	39,72,01,044.53		10,19,24,659.57	49,91,25,704.10					
Less : Assets written off	6,14,94,664.23		2,71,934.56	6,17,66,598.79					
		33,57,06,380.30	10,16,52,725.01	43,73,59,105.31	1,13,83,80,377.77				
Grand Total		1,61,49,08,096.69	1,44,18,42,205.00	3,05,67,50,301.69		Grand Total	1,61,49,08,096.69	1,44,18,422,05.00	3,05,67,50,301.69

APPENDIX No. 8
(CONSOLIDATED)
Capital Works Expenditure Budget 'A' (Summary).

CAPITAL ACCOUNT	TOTAL CAPITAL WORKS EXPENDITURE UPTO 31ST MARCH 1981.				CAPITAL WORKS EXPENDITURE DURING THE YEAR 1981-82				TOTAL CAPITAL WORKS EXPENDITURE UPTO 31ST MARCH 1982.			
	Div. I	Div. II	Div. III	Total Budget 'A'	Div. I	Div. II	Div. III	Total Budget 'A'	Div. I	Div. II	Div. III	Total Budget 'A'
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
(1) Loan Funds—												
I.—General Supervision etc.	4,02,14,001	1,68,79,079	58,33,231	6,29,26,311	85,82,668	54,28,944	...	1,40,11,612	4,87,96,669	2,81,41,254	...	7,69,97,923
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	2,58,91,354	1,01,71,158	1,37,65,968	4,98,28,480	52,19,896	Cr. 5,39,846	...	46,80,050	3,11,11,250	2,33,97,280	...	5,45,08,530
IV.—S. W. Drains etc.	27,03,63,956	23,90,76,104	11,19,16,433	62,13,56,493	1,11,32,078	1,56,64,630	..	2,67,96,708	28,14,96,034	36,66,57,167	...	64,81,53,201
V.—Mechanical	23,83,949	50,501	17,075	24,51,525	...	..	..	...	23,83,949	67,576	...	24,51,525
VI.—Bldgs. Land Acqn. etc.	11,15,80,656	4,25,84,060	1,18,23,531	16,59,88,247	1,57,05,868	1,03,19,061	...	2,60,24,929	12,72,86,524	6,47,26,652	...	19,20,13,176
VII.—Fire Brigade	98,32,782	49,19,304	54,94,470	2,02,46,556	2,92,875	9,23,375	...	12,16,250	1,01,25,657	1,13,37,149	...	2,14,62,806
Licensing, Removal of Encroachments	10,24,371	..	..	10,24,371	2,23,057	..	...	2,23,057	12,47,428	..	...	12,47,428
IX.—Gardens & Open Spaces	2,56,97,695	1,42,80,431	99,09,081	4,98,87,207	8,36,585	1,98,51,854	...	2,06,88,439	2,65,34,280	4,40,41,365	...	7,05,75,646
X.—Markets & Slaughter Houses	4,37,81,516	2,50,54,776	39,49,360	7,27,85,652	86,62,732	9,87,295	...	96,50,027	5,24,44,248	2,99,91,431	...	8,24,35,679
XI.—Deonar Ab. toir	5,53,29,024	..	..	5,53,29,024	15,43,182	..	...	15,43,182	3,68,72,206	..	...	5,68,72,206
Slum Service	50,75,492	..	..	50,75,492	..	..	...	..	50,75,492	..	...	50,75,492
XII.—Village Amenities	..	46,23,397	14,49,972	60,73,369	..	10,95,192	...	10,95,192	..	71,68,561	...	71,68,561
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	1,65,72,979	80	..	1,05,73,059	12,010	..	...	12,010	1,05,84,989	80	..	1,05,85,069
XIV.—Centenary Celebration Works	..	63,93,383	53,58,127	1,17,51,510	..	38,49,762	...	38,49,762	..	1,56,01,272	...	1,56,01,272
Municipal Power Laundry	1,632	..	..	1,632	348	..	...	348	1,980	..	...	1,980
Discount & Other charges on Loans	2,00,351	..	45,223	2,45,574	Cr. 78,980	..	...	Cr. 78,980	1,21,371	45,223	...	1,66,594
XV.—Traffic Operations	12,85,41,645	16,86,31,706	11,62,41,785	41,34,15,136	7,85,48,734	14,55,94,027	...	22,41,42,761	20,70,90,379	43,04,67,518	...	63,75,57,897
XXI.—Public Health Department	1,97,96,434	1,07,93,454	20,63,074	3,26,52,962	10,61,781	35,90,685	...	46,52,466	2,08,58,215	1,64,47,213	...	3,73,05,428
XXII.—Medical Relief & Education	14,96,40,255	6,25,53,238	2,52,45,619	23,74,39,112	2,18,82,668	92,03,528	..	3,10,86,196	17,15,22,923	9,70,02,385	..	26,85,25,308
XXIII.—Measures to control environmental air pollution in Greater Bombay.	61,85,298	..	..	61,85,298	40,47,271	..	...	40,47,271	1,02,32,569	..	...	1,02,32,569
Suspense Account, Mechanical Transport	12,12,625	1,05,30,068	..	1,17,42,693	16,47,332	28,90,225	...	45,37,557	28,59,957	1,34,20,293	...	1,62,80,250
Plant and Machinery out of different Special Funds	55,823	..	..	55,823	..	..	...	..	55,823	..	...	55,823
Plant and Machinery out of Loan Funds	7,71,92,852	95,30,636	48,77,974	9,16,01,462	2,65,75,827	45,14,040	...	3,10,89,867	10,37,68,679	1,89,22,650	...	12,26,91,329
Total (1) Loan Fund	98,94,09,118	62,62,62,439	31,79,90,923	1,93,36,62,480	18,58,95,932	22,33,72,772	...	40,92,68,704	1,17,53,05,050	1,16,76,26,134	...	2,34,29,31,184
(2) Trust Fund												
Works executed	83,23,829	3,27,408	..	86,51,237	..	..	..	..	83,23,829	3,27,408	..	86,51,237
Land Bldg. Fund	..	..	..	..	..	..	..	..	..	..	..	..
Land purchased and Buildings erected	43,03,044	..	..	43,03,044	..	..	..	..	43,03,044	..	..	43,03,044
Grand Total	1,00,20,35,991	62,65,89,847	31,79,90,923	1,94,66,16,761	18,58,95,932	22,33,72,772	...	40,92,68,704	1,18,79,31,923	1,16,79,53,542	...	2,35,58,85,465

APPENDIX No. 11
(CONSOLIDATED)

Outstanding Balances of Loans on 31st March 1982 pertaining to Budget 'A'

Serial No.	Particulars of Loans	Rate of Interest per annum	Outstanding Loan Balance on 31st March 1982	Serial No.	Particulars of Loans	Rate of Interest per annum	Outstanding Loan Balance on 31st March 1982.
1	2	3	4	1	2	3	4
	BUDGET 'A' DIV. I Loans raised from Public		Rs.		BUDGET 'A' DIV. II Loans raised from Public		Rs.
1	Rs. 100 lakhs Loan 1957-58	4½%	1,00,00,000.00	41	Rs. 10 lakhs Loan 1960-61	4½%	10,00,000.00
2	Rs. 100 lakhs Loan 1958-59	4½%	1,00,00,000.00	42	Rs. 50 lakhs Loan 1961-62	4½%	50,00,000.00
3	Rs. 170 lakhs Loan 1960-61	4½%	1,70,00,000.00	43	Rs. 50 lakhs Loan 1963-64	4½%	50,00,000.00
4	Rs. 225 lakhs Loan 1961-62	4½%	2,25,00,000.00	44	Rs. 70 lakhs Loan 1964-65	4½%	70,00,000.00
5	Rs. 150 lakhs Loan 1962-63	4½%	1,50,00,000.00	45	Rs. 50 lakhs Loan 1965-66	6%	50,00,000.00
6	Rs. 235 lakhs Loan 1963-64	4½%	2,35,00,000.00	46	Rs. 50 lakhs Loan 1966-67	6%	50,00,000.00
7	Rs. 100 lakhs Loan 1964-65	4½%	1,00,00,000.00	47	Rs. 50 lakhs Loan 1967-68	6%	50,00,000.00
8	Rs. 300 lakhs Loan 1965-66	6%	3,00,00,000.00	48	Rs. 50 lakhs Loan 1968-69	6%	50,00,000.00
9	Rs. 200 lakhs Loan 1965-66	6%	2,00,00,000.00	49	Rs. 220 lakhs Loan 1970-71	6%	2,20,00,000.00
10	Rs. 400 lakhs Loan 1966-67	6%	4,00,00,000.00	50	Rs. 170 lakhs Loan 1970-71	6%	1,70,00,000.00
11	Rs. 250 lakhs Loan 1966-67	6%	2,50,00,000.00	51	Rs. 350 lakhs Loan 1971-72	6%	3,50,00,000.00
12	Rs. 800 lakhs Loan 1967-68	6%	8,00,00,000.00	52	Rs. 150 lakhs Loan 1972-73	6%	1,50,00,000.00
13	Rs. 300 lakhs Loan 1968-69	7%	3,00,00,000.00	53	Rs. 100 lakhs Loan 1972-73	6%	1,00,00,000.00
14	Rs. 325 lakhs Loan 1968-69	6%	3,25,00,000.00	54	Rs. 100 lakhs Loan 1973-74	6%	1,00,00,000.00
15	Rs. 600 lakhs Loan 1969-70	7%	6,00,00,000.00	55	Rs. 100 lakhs Loan 1973-74	6%	1,00,00,000.00
16	Rs. 100 lakhs Loan 1970-71	6%	1,15,41,000.00	56	Rs. 150 lakhs Loan 1974-75	6½%	1,50,00,000.00
17	Rs. 370 lakhs Loan 1971-72	6%	4,07,00,000.00	57	Rs. 100 lakhs Loan 1974-75	6%	1,00,00,000.00
18	Rs. 260 lakhs Loan 1972-73	6%	2,86,00,000.00	58	Rs. 150 lakhs Loan 1975-76	6½%	1,50,00,000.00
19	Rs. 200 lakhs Loan 1972-73	6%	2,00,00,000.00	59	Rs. 250 lakhs Loan 1975-76	6½%	2,50,00,000.00
20	Rs. 400 lakhs Loan 1972-73	6%	4,00,00,000.00	60	Rs. 200 lakhs Loan 1976-77	6½%	2,00,00,000.00
21	Rs. 400 lakhs Loan 1973-74	6%	4,40,00,000.00	61	Rs. 300 lakhs Loan 1976-77	6½%	3,00,00,000.00
22	Rs. 250 lakhs Loan 1973-74	6%	2,50,00,000.00	62	Rs. 250 lakhs Loan 1976-77	6½%	2,50,00,000.00
23	Rs. 250 lakhs Loan 1974-75	6½%	2,50,00,000.00	63	Rs. 600 lakhs Loan 1977-78	6½%	6,00,00,000.00
24	Rs. 150 lakhs Loan 1974-75	6½%	1,65,00,000.00	64	Rs. 450 lakhs Loan 1978-79	6½%	4,95,00,000.00
25	Rs. 100 lakhs Loan 1975-76	6½%	1,10,00,000.00	65	Rs. 250 lakhs Loan 1978-79	6½%	2,50,00,000.00
26	Rs. 100 lakhs Loan 1975-76	6½%	1,00,00,000.00	66	Rs. 850 lakhs Loan 1979-80	6%	9,35,00,000.00
27	Rs. 225 lakhs Loan 1976-77	6½%	2,47,50,000.00	67	Rs. 450 lakhs Loan 1980-81	7%	4,95,00,000.00
28	Rs. 300 lakhs Loan 1976-77	6½%	3,00,00,000.00	68	Rs. 250 lakhs Loan 1980-81	6½%	2,50,00,000.00
29	Rs. 400 lakhs Loan 1977-78	6½%	4,40,00,000.00		Total Div. II		62,04,00,000.00
30	Rs. 400 lakhs Loan 1977-78	7½%	4,00,00,000.00		BUDGET 'A' Div. III		
31	Rs. 80 lakhs Loan 1978-79	6½%	88,00,000.00	69	Loan raised from Public—		
32	Rs. 150 lakhs Loan 1978-79	6½%	1,50,00,000.00		Rs. 25 lakhs Loan 1957-58	4½%	25,00,000.00
33	Rs. 500 lakhs Loan 1978-79	8%	5,00,00,000.00	70	Rs. 20 lakhs Loan 1958-59	4½%	20,00,000.00
34	Rs. 150 lakhs Loan 1979-80	6%	1,65,00,000.00	71	Rs. 10 lakhs Loan 1960-61	4½%	10,00,000.00
35	Rs. 550 lakhs Loan 1979-80	7%	5,50,00,000.00	72	Rs. 25 lakhs Loan 1964-65	4½%	25,00,000.00
36	Rs. 450 lakhs Loan 1980-81	7%	4,95,00,000.00	73	Rs. 50 lakhs Loan 1965-66	6%	50,00,000.00
37	Rs. 800 lakhs Loan 1980-81	6½%	8,00,00,000.00	74	Rs. 40 lakhs Loan 1966-67	6%	40,00,000.00
38	Rs. 600 lakhs Loan 1981-82	7½%	6,60,00,000.00	75	Rs. 20 lakhs Loan 1967-68	6%	20,00,000.00
39	Rs. 500 lakhs Loan 1981-82	7%	5,00,00,000.00	76	Rs. 165 lakhs Loan 1970-71	6%	1,81,50,000.00
40	US \$ 4.54 Millions Loan from World Bank (IBRD) thro. BMRDA	9.2%	1,71,94,515.22	77	Rs. 115 lakhs Loan 1970-71	6%	1,26,50,000.00
	Total I		1,24,45,83,515.22	78	Rs. 150 lakhs Loan 1971-72	6%	1,65,00,000.00
	Less: Loan amount transferred to Budget 'C'		39,32,44,873.83	79	Rs. 150 lakhs Loan 1972-73	6%	1,65,00,000.00
	Total Div. I		85,13,40,636.39	80	Rs. 100 lakhs Loan 1972-73	6%	1,00,00,000.00
				81	Rs. 100 lakhs Loan 1973-74	6%	1,10,00,000.00
				82	Rs. 50 lakhs Loan 1973-74	6%	50,00,000.00
				83	Rs. 50 lakhs Loan 1974-75	6½%	55,00,000.00
				84	Rs. 50 lakhs Loan 1974-75	6½%	50,00,000.00
				85	Rs. 100 lakhs Loan 1975-76	6½%	1,10,00,000.00
				86	Rs. 50 lakhs Loan 1975-76	6½%	50,00,000.00
				87	Rs. 150 lakhs Loan 1976-77	6½%	1,37,50,000.00
				88	Rs. 125 lakhs Loan 1976-77	6½%	75,00,000.00
				89	Rs. 75 lakhs Loan 1976-77	6½%	1,50,00,000.00
				90	Rs. 400 lakhs Loan 1977-78	6½%	4,40,00,000.00
				91	Rs. 300 lakhs Loan 1978-79	6½%	3,30,00,000.00
				92	Rs. 425 lakhs Loan 1979-80	6%	4,67,50,000.00
				93	Rs. 450 lakhs Loan 1980-81	7%	4,95,00,000.00
				94	Rs. 150 lakhs Loan 1980-81	6½%	1,50,00,000.00
					Total Div. III		35,98,00,000.00
					Budget 'A' Div. II		7,15,00,000.00
							1,10,00,000.00
							5,00,00,000.00
					Total		1,11,27,80,000.00
					Less: Loan amount transferred to Budget 'C'		6,81,49,257.00
					Total Div. II & III		1,04,46,30,743.00
					Grand Total Budget 'A'		1,89,53,91,379.39

APPENDIX—15

(Consolidated)

Budgets 'A' and 'B'

Statement showing Receipts and Expenditure during the year 1981-82 and balance to the credit of the Municipal General Fund at the close of the year i. e. 31st March 1982.

Account Heads	Division I		Division II		Division III		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
BUDGET 'A' (Part I)								
RECEIPTS								
A) Revenue Account Receipts								
1 General Tax, Indirect Taxation and Miscellaneous Revenue								
A—General Tax.	19,05,77,251.86		17,84,92,487.50				36,90,69,739.36	
B—Octroi.	84,60,85,000.23		..				84,60,85,000.23	
BB—Theatre Tax	18,40,937.75		17,02,707.23				35,43,644.98	
C—Other Receipts								
(a) Grant-in-Aid of Fees for land conveyance, Music etc. Licenses	3,394.00		..				3,394.00	
(b) Grant-in-Aid in respect of Fines for Offences against the Law	4,34,086.60		..				4,34,086.60	
(c) Interest and Profit on Investment of Surplus Loan and Other Balances	3,92,55,774.38		30,25,428.57				4,22,81,202.95	
(d) Miscellaneous	1,15,82,780.76		18,09,877.54				1,33,92,658.30	
(e) Receipts on account of Municipal Journal	9,448.02		..				9,448.02	
D—Receipts on account of proportionate Cost of Collection of Education Cess	5,05,260.43		3,75,331.85				8,80,592.28	
E—Rebate from Govt. on account of collection of Education Cess	..		..				..
	<u>1,09,02,93,934.03</u>		<u>18,54,05,832.69</u>				<u>1,27,56,99,766.72</u>	
2. Museums.	54,377.22		..				54,377.22	
3. Free Reading Rooms and Libraries.	425.85		4,936.05				5,361.90	
4. Municipal High School	2,86,41,620.56		..				2,86,41,620.56	
5. Street Cleansing, Conservancy and Halalkhore Service	31,64,950.82		20,61,267.53				52,26,218.35	
6. S. W. Drains etc.	1,120.72		15,461.39				16,522.11	
7. Mechanical and Electrical	2,67,835.31		71,654.54				3,39,489.85	
8. Buildings, Land Acquisition and Management.								
A—Sale Proceeds of Surplus Land.	7,11,260.33		1,300.90				7,12,561.23	
B—Other Receipts.								
(a) Rent of Buildings.	43,05,656.46		3,88,100.18				46,93,756.64	
(b) Ground Rent.	7,88,595.65		26,865.50				8,15,461.15	
(c) Miscellaneous	1,07,24,659.85		4,28,09,592.20				5,35,34,252.05	
C—Contribution from Capital Funds on account of Special Land Acquisition Staff.	1,90,222.99		..				1,90,222.99	
	<u>1,67,20,395.28</u>		<u>4,32,25,858.78</u>				<u>5,99,46,254.06</u>	
9. Fire Brigade								
A—Fire Tax	1,21,65,439.76		1,10,95,970.52				2,32,61,410.28	
B—Other Receipts	1,04,333.08		5,654.54				1,09,987.62	
	<u>1,22,69,772.84</u>		<u>1,11,01,625.06</u>				<u>2,33,71,397.90</u>	
10. Licensing, and Removal of Encroachments on Public Streets.								
A—Licences for Dangerous and Offensive Trades	89,74,158.52		86,73,395.37				1,76,47,553.89	
B—Removal of Encroachments on Public Streets etc.	81,69,437.22		23,21,571.38				1,04,91,008.60	
C—Miscellaneous	61,08,525.81		15,13,395.17				76,21,920.98	
	<u>2,32,52,121.55</u>		<u>1,25,08,361.92</u>				<u>3,57,60,483.47</u>	
11. Administration of Shops and Establishment Act 1948.	17,71,507.69		9,29,544.50				27,01,052.19	
12. Gardens and Open Spaces	14,25,064.10		11,00,716.92				25,25,781.02	
13. Market	1,53,06,712.75		42,26,951.64				1,95,33,664.39	
14. Deonar Abattoir.	2,90,40,619.51		..				2,90,40,619.51	

APPENDIX—15—(Contd.)
(CONSOLIDATED)

Account Heads	Division I		Division II		Division III		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
Budget 'A' Receipts—(Contd.)								
15. Traffic Operations, Roads and Bridges—								
A—Wheel Tax ..	1,38,84,763.70		55,04,735.53				1,93,89,499.23	
B—Contributions from Govt. in lieu of Tolls ..	24,927.00		20,637.00				45,564.00	
C—Other Receipts ..	36,07,582.84		59,56,311.11				95,63,893.95	
D—Ferry Receipts ..			1,23,136.73				1,23,136.73	
	1,75,17,273.54		1,16,04,820.37				2,91,22,093.91	
16. Contribution from Capital Funds to Revenue Account of Loan Works Staff ..	48,54,507.60		52,51,859.51				1,01,06,367.11	
17. Extra Ordinary Receipts ..	1,51,52,661.90		1,50,00,000.00				3,01,52,661.90	
18. Transfer from the B. E. S. & T. Fund ..	...		..				..
19. Rebate from Government on Account of Collection of U. I. P. Tax etc. ..	52,37,863.96		6,13,228.93				58,51,092.89	
20. Receipts from Government on Account of Urban Immoveable Property Tax etc. ..	..		14,182.53				14,182.53	
21. Share in Entertainment Tax etc. ..	1,85,25,424.00		..				1,85,25,424.00	
Total—Part I ..	1,28,34,98,189.23		29,31,36,242.36				1,57,66,34,431.59	
Budget 'A' (Part II)								
31. Public Health Department ..	31,70,155.93		22,79,294.80				54,49,450.73	
32. Medical Relief and Education ..	31,12,230.86		2,84,886.82				33,97,117.68	
33. Measures to Control Environmental Air Pollution in Greater Bombay. ..	15,15,701.78		26,00,722.65				41,16,424.43	
Total—Part II ..	77,98,088.57		51,64,904.27				1,29,62,992.84	
Total—(A) Revenue Receipts ..	1,29,12,96,277.80		29,83,01,146.63				1,58,95,97,424.43	
(B) Capital Account Receipts—								
Loan Funds—Capital Receipts—								
Debt Principal—New Loans of 1981-82 ..	12,16,13,896.86		13,25,00,000.00				25,41,13,896.86	
Advance from Surplus Monies for Financing Loan Works Expenditure Special Funds ..	13,07,606.13		2,16,22,666.51				2,29,30,272.64	
Recoupment of Advances from Loan Funds for Purchase of Plant and Machinery ..	2,23,34,657.07		56,15,192.92				2,79,49,849.99	
Non-recurring grant in aid for infrastructural Feed Compost Plant ..	26,36,152.00		..				26,36,152.00	
Total—(B) Capital Receipts ..	14,78,92,312.06		15,97,37,859.43				30,76,30,171.49	
(C) Suspense Account Receipts—								
I—Sinking and Special Fund Accounts—								
Sinking Fund Account (Municipal) ..	6,27,64,159.84		5,87,62,452.81				12,15,26,612.65	
Special Fund Account ..	24,73,88,832.50		..				24,73,88,832.50	
Total—I (S. and S. Funds) ..	31,01,52,992.34		5,87,62,452.81				36,89,15,445.15	
II—Paper and Cash Accounts—								
1. Sinking Fund ..	10,30,47,157.83		3,27,42,060.54				13,57,89,218.37	
2. Special Funds ..	12,11,24,782.61		..				12,11,24,782.61	
3. Surplus Fund ..	28,75,42,558.98		5,67,91,010.22				34,43,33,569.20	
4. Loan Fund ..	82.89		6,20,74,405.74				6,20,74,488.63	
State Bank of India and Other Local Banks on Account of Sundry Deposits ..	1,34,94,86,836.01		15,34,29,805.57				1,50,29,16,641.58	
Total—II (Paper&Cash) ..	1,86,12,01,418.32		30,50,37,282.07				2,16,62,38,700.39	
III—Other Suspense Accounts—								
Deposits Account ..	4,35,72,28,915.09		44,19,40,871.12				4,79,91,69,786.21	
Reserve Stores Account ..	7,02,47,801.15		..				7,02,47,801.15	
Capital Stores Accounts.. ..	15,80,52,233.65		..				15,80,52,233.65	
Purchase of Petrol and Diesel Oil ..	37,12,671.07		29,33,499.77				66,46,170.84	
Advances to Public including Co-operative for Housing purposes. ..	65,74,882.50		..				65,74,882.50	
Advances Departmental Works ..	42,91,931.91		38,68,877.83				81,60,809.74	
Advances Dept. Works—Traffic Amenities ..	..		45,289.47				45,289.47	
Advances Municipal Workshops ..	20,44,164.60		9,72,428.46				30,16,593.06	
Municipal Foundry ..	13,72,591.00		..				13,72,591.00	
Worli Crushers ..	..		..				..
Mechanical Transport ..	3,03,08,597.59		1,54,12,031.50				4,57,20,629.09	
Asphalt Plant ..	38,95,531.97		..				38,95,531.97	

APPENDIX--15 (Contd.)

(CONSOLIDATED.)

Account Heads	Division-I		Division-II		Division-III		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
Budget 'A' Receipts (Contd.)								
Municipal Printing Press	1,06,81,955.08						1,06,81,955.08	
Rota Printing Unit	4,21,773.92						4,21,773.92	
Advances Private Works	48,29,419.26		5,066.24				48,34,485.50	
Advances Private Works-Traffic Amenities			58,142.04				58,142.04	
Reinstatement of Trenches	97,81,090.81		18,28,478.56				1,16,09,569.37	
Advances Special Funds	36,98,611.94						36,98,611.94	
Municipal Contractors	3,21,838.40		24,413.77				3,46,252.17	
Municipal Tenderers								
Sundry Advances Miscellaneous	6,48,30,413.18		4,12,65,217.15				10,60,95,630.33	
Advances for Demolition of Unauthorised Structures and for removal of unsafe Buildings	27,27,876.10		21,387.60				27,49,263.70	
Advances for conversion of Basket Privies etc.								
Advances to Municipal Officers	7,95,449.53		14,101.00				8,09,550.53	
Interest accrued But Not Paid	10,35,250.00		20,40,500.00				30,75,750.00	
Interest receivable Account								
Provident Fund	9,31,97,720.51		3,13,60,919.52				12,45,58,640.03	
Welfare Fund								
Fines Fund	6,992.48						6,992.48	
Fidelity Guarantee Insurance Fund	2,244.65						2,244.65	
B.M.C. Loans Interest Warrants Payable A/c....	2,14,90,405.24		4,80,61,607.26				6,95,52,012.50	
Dishonoured Cheques	2,90,64,424.98		2,26,38,071.40				5,17,02,496.38	
Cash Bills Outstanding Accounts	12,01,179.39		2,08,528.16				14,09,707.55	
Cheques Payable	6,16,04,61,470.21		97,22,07,063.56				7,13,26,68,533.77	
Wages Deposit Account	3,10,12,245.30		1,22,62,237.05				4,32,74,482.35	
Loan Redumption Fund Municipal	2,37,21,724.03		1,32,84,090.00				3,70,05,814.03	
Repayment of Loans			59,65,910.00				59,65,910.00	
Interest on B.M.C. Loans Payable Account	2,51,750.50		11,79,674.93				14,31,425.43	
Municipal Power Laundry	30,29,394.45						30,29,394.45	
Advances from Surplus Monies for financing Loan Works Expenditure	56,474.50						56,474.50	
Plant & Machinery Purchase out of Surplus Cash Balance								
Pension Fund	4,17,35,072.48						4,17,35,072.48	
Gratuities Fund	60,68,603.67						60,68,603.67	
Amounts transferred within Budget 'A' Divns.	31,84,87,429.31		47,93,22,199.09				79,78,09,628.40	
Amounts transferred to Budget 'G'	48,04,03,941.41						48,04,03,941.41	
Improving Common House Gullies	67,47,890.46						67,47,890.46	
Contribution Receivable from Budget 'B'	32,20,18,870.00						32,20,18,870.00	
Advance for Deposit with outside bodies								
Unadjusted Reserve Stores Account Stock	1,27,74,197.52						1,27,74,197.52	
Halalkhore Services			2,53,66,615.11				2,53,66,615.11	
Advances Special Funds for Purchase of Plant and Machinery.								
Municipal Debt Interest			6,53,75,111.07				6,53,75,111.07	
Advances for Improvemnet of Private Streets								
Total III—(Other Sup.) ..	12,28,85,85,029.84		2,18,76,62,331.66				14,47,62,47,361.50	
Total (C) Suspense Receipts	14,45,99,39,440.50		2,55,14,62,066.54				17,01,14,01,507.04	
Total Receipts Budget 'A'	15,89,91,28,030.36		3,00,95,01,072.60				18,90,86,29,102.96	
Tree Authority Budget ..	18,75,660.82						18,75,660.82	

APPENDIX—15—(Contd.)
(CONSOLIDATED)

Account Heads	Improvement Scheme		Slum Improvement		Slum Clearance (City)		Slum Clearance (Suburbs & Extd. Suburbs)		Total Budget 'B'	
	Ra.	P.	Ra.	P.	Ra.	P.	Ra.	P.	Ra.	P.
BUDGET 'B' RECEIPTS										
(A) General Account Revenue										
I Rent and other Proceeds of Properties.	1,68,82,219.49		1,27,46,759.89		29,41,594.39		7,42,329.30		3,33,12,903.07	
II Contribution from B. M. C. under section 125 (2) (d) of the B.M.C. Act.	2,62,40,855.60		..		..		..		2,62,40,855.60	
IV Interest and Profit on Investments.	Dr. 17,401.49		..		..		..		Dr. 17,401.49	
V Miscellaneous Receipts.	37,69,610.51		51,899.16		..		1,57,120.42		39,78,630.09	
VI Grant Assistance from Govt. of India for Improvement Slums.	..		..		..		..		..
VII Appropriation from Capital Account to meet the deficit	89,04,911.33		..		40,50,260.62		56,26,099.77		1,85,81,271.72	
Contribution from Budget 'A'	..		3,86,34,176.13		..		..		3,86,34,176.13	
Total (A) General Account Revenue.	5,57,80,195.44		5,14,32,835.18		69,91,855.01		65,25,549.49		12,07,30,435.12	
(B) Capital Account Receipts										
Sale Proceeds of Lands, Building etc.	14,75,119.80		..		..		1,47,986.11		16,23,105.91	
Transfer of Revenue Surplus from General Account	..		..		..		..		..
New Loans raised during 1981-82.	..		..		..		..		..
Advances from Surplus Monies.	1,79,04,922.07		60,78,700.59		60,28,225.55		55,83,993.17		3,55,95,841.38	
Reimbursement from Maharashtra Slum Improvement Board	..		72,11,833.00		..		..		72,11,833.00	
Total (B) Capital Receipts	1,93,80,041.87		1,32,90,533.59		60,28,225.55		57,31,979.28		4,44,30,780.29	
(C) Suspense Account Receipts										
I. Sinking and Special Funds Accounts										
(a) Sinking Fund Account.	72,18,087.34		4,62,456.24		21,87,438.23		16,96,501.53		1,15,64,483.34	
(b) Investment Reserve Fund Accounts	18,93,653.30		..		..		..		18,93,653.30	
(c) Rent Equalisation Fund Account	9,85,274.05		..		..		..		9,85,274.05	
(d) Amenities Fund Account	3,25,754.85		..		..		..		3,25,754.85	
Total I (S. and S. Funds)	1,04,22,769.54		4,62,456.24		21,87,438.23		16,96,501.53		1,47,69,165.54	
II Paper and Cash Account.										
(a) Sinking Fund.	87,21,699.08		166.00		14,63,998.61		6,094.76		1,01,91,958.45	
(b) Capital Fund.	..		..		..		..		..
(c) Investment Reserve Fund.	..		..		..		..		..
(d) Rent Equalisation Fund.	..	70.25	..		..		..		..	70.25
(e) Amenities Fund.	..	8.75	..		..		..		..	8.75
Total II—(Papers & Cash)	87,21,778.08		166.00		14,63,998.61		6,094.76		1,01,92,037.45	
III—Other Suspense Accounts.										
Loan Redemption Fund	45,00,000.00		..		11,99,043.39		1,14,037.87		58,13,081.26	
B. L. T. Loans Interest Warrants Payable Account	..		..		..		..		..
Total—III (Other Susp.)	45,00,000.00		..		11,99,043.39		1,14,037.87		58,13,081.26	
Total (C) Suspense Receipts	2,36,44,547.62		4,62,622.24		48,50,480.23		18,16,634.16		3,07,74,284.25	
Total Receipts—Budget 'B'	9,88,04,784.93		6,51,85,991.01		1,78,70,560.79		1,40,74,162.93		19,59,35,499.66	

APPENDIX—15—(contd.)
(CONSOLIDATED)

Account Heads	Division I		Division II		Division III		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
BUDGET 'A' (Part I)								
EXPENDITURE								
A) Revenue Account—								
I—General Supervision, Collection of Revenue, etc.								
A—General Superintendence	5,23,04,372.85		67,70,780.98				5,90,75,153.83	
B—Collection of Revenue	2,77,32,322.05		1,24,22,309.58				4,01,54,631.63	
C—Upkeep and guarding of Municipal Offices..	43,79,245.85		27,28,256.25				71,07,502.10	
D—General Stores	16,83,261.49		....				16,83,261.49	
E—Legal Department	29,27,467.62		1,34,861.18				30,62,328.80	
F—Miscellaneous Charges	18,50,261.51		13,62,066.10				32,12,327.61	
G—Election Expenses	76,179.99		....				76,179.99	
H—Provident Fund Charges	5,68,422.11		1,56,640.00				7,25,062.11	
I—Debt Charges	43,80,536.18		28,59,568.80				72,40,104.98	
J—Encouraging sports activities	91,063.11		..				91,063.11	
	9,59,93,132.76		2,64,34,482.89				12,24,27,615.65	
Deduct : Proportion of General Superintendence	2,62,97,909.40		88,73,285.68				3,51,71,195.08	
	6,96,95,223.36		1,75,61,197.21				8,72,56,420.57	
II—Museums—								
A—Dr. Bhau Daji Lad Museum.	1,53,239.87		..				1,53,239.87	
B—Provident Fund Charges	2,400.00		....				2,400.00	
C—Debt Charges .. .. .	..		....				....
	1,55,639.87		....				1,55,639.87	
III—Free Reading Rooms and Libraries—								
A—Municipal Free Reading Rooms & Libraries ..	17,66,498.03		20,22,655.93				37,89,153.96	
B—Provident Fund Charges	2,071.00		....				2,071.00	
C—Debt Charges	1,46,841.95		1,448.63				1,48,290.58	
	19,15,410.98		20,24,104.56				39,39,515.54	
IV—Municipal High Schools.								
A—Municipal High Schools	3,63,18,316.19		..				3,63,18,316.19	
B—Provident Fund Charges	22,596.00		..				22,596.00	
C—Pension Fund	91,592.69		..				91,592.69	
	3,64,32,504.88		..				3,64,32,504.88	
V—Street Cleansing, Conservancy and Halalkhore Service—								
A—Street Cleansing and Conservancy	1,15,15,842.88		88,68,100.37				2,03,83,943.25	
B—Collection, Loading, Removal and Disposal of Town Refuse.	11,34,40,566.91		5,41,72,876.61				16,76,13,443.52	
C—Halalkhore Service	69,98,841.36		1,69,10,613.77				2,39,09,455.13	
D—Provident Fund Charges	19,501.78		1,68,339.89				1,87,841.67	
E—Debt Charges	28,15,357.36		34,56,183.08				62,71,540.44	
	13,47,90,110.29		8,35,76,113.72				21,83,66,224.01	
VI— S.W. Drains—								
A—Maintenance of S.W. Drains	70,82,000.43		1,88,04,477.60				2,58,86,478.03	
B—Provident Fund Charges	Cr. 50,698.31		Cr. 8,675.11				Cr. 59,373.42	
C—Debt Charges	33,16,180.15		1,01,52,822.70				1,34,69,002.85	
	1,03,47,482.27		2,89,48,625.19				3,92,96,107.46	
VII—Mechanical and Electrical								
A—Mechanical Engineer's Office Establishment	26,71,388.28		4,06,673.97				30,78,062.25	
B—Maintenance of Electric Installations ..	....		4,96,172.62				4,96,172.62	
C—Provident Fund Charges	30,668.39		6,095.00				36,763.39	
D—Debt Charges	Cr. 11,492.34		3,572.57				Cr. 7,919.77	
E—Contribution to Motor Vehicle (T.P.) Insurance Fund	50,000.00		....				50,000.00	
	27,40,564.33		9,12,514.16				36,53,078.49	

APPENDIX—15—(Contd.)
(CONSOLIDATED)

Account Heads	Division I		Division II		Division III		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
BUDGET 'A' EXPENDITURE—(Contd.)								
VII—Buildings, Land, Acquisition and Management								
A—City Engineer's Central Office Establishment	41,61,877.09		43,09,194.10				84,71,071.19	
B—Inspection and Supervision of Private Buildings	39,86,686.44		19,50,377.42				59,37,063.86	
C—Architectural	3,58,156.00		....				3,58,156.00	
D—Land Acquisition and Management ..	40,38,510.81		3,68,014.38				44,06,525.19	
E—Inspection and Supervision of Factories, Workshops and Work Places.	3,75,569.04		4,85,276.70				8,60,845.74	
F—Industrial Estates	1,62,595.21		....				1,62,595.21	
G—Provident Fund Charges	1,22,347.47		72,623.00				1,94,970.47	
H—Debt Charges	75,12,918.18		56,82,365.97				1,31,95,284.15	
	2,07,18,660.24		1,28,67,851.57				3,35,86,511.81	
Deduct—2½ Percent Supervision chargeable to Imp. Scheme A/c. ..	2,36,728.25		..				2,36,728.25	
	2,04,81,931.99		1,28,67,851.57				3,33,49,783.56	
IX—Fire Brigade—								
A—Maintenance	1,02,82,935.23		39,09,178.98				1,41,92,114.21	
B—Provident Fund Charges	17,945.00		2,088.00				20,033.00	
C—Pension, Gratuities and Compassionate Allowances.	6,510.00		....				6,510.00	
D—Proportion of General Supervision and Collection of Revenue.	7,35,615.61		3,60,808.85				10,96,424.46	
E—Debt Charges	32,48,753.10		20,16,696.81				52,65,449.91	
F—Contribution to Fire Brigade Employees Accident Compensation Fund ..	40,000.00		..				40,000.00	
	1,43,31,758.94		62,88,772.64				2,06,20,531.58	
X—Licensing and Removal of Encroachments on Public Streets,								
A—Licensing Establishment	29,84,504.60		22,84,194.67				52,68,699.27	
B—Removal of Encroachment on Public Streets	36,76,953.77		19,57,495.80				56,34,449.57	
C—Provident Fund Charges	72,560.45		62,754.00				1,35,314.45	
D—Debt Charges	1,17,902.82		..				1,17,902.82	
	68,51,921.64		43,04,444.47				1,11,56,366.11	
XI—Administration of Shops and Establishment Act 1948.								
A—Administration of Shops and Establishment Act 1948. ..	16,76,236.25		9,75,461.30				26,51,697.55	
B—Provident Fund Charges.	49,101.00		11,804.00				60,905.00	
	17,25,337.25		9,87,265.30				27,12,602.55	
XII—Gardens, Recreation Centres and Open Spaces								
A—Gardens	96,95,118.36		70,57,154.84				1,67,52,273.20	
B—New Gardens, Recreation Grounds, etc. ..	58,860.35		1,04,961.31				1,63,821.66	
C—Open Air Theatres	1,19,696.13		1,24,768.84				2,44,464.97	
D—M. G. M. O. Swimming Pool	3,58,112.14		..				3,58,112.14	
E—Krida Kendra and Social Welfare Centres ..	3,34,010.71		....				3,34,010.71	
F—Sardar V. P. S. Pool Kandivali. .. .. .	..		2,49,828.68				2,49,828.68	
G—Ghatkopar Lion's Municipal Swimming Pool ..	..		2,47,781.63				2,47,781.63	
H—L. Dinanath Mangeshkar Natya Mandir ..	..		6,51,517.74				6,51,517.74	
I—S. Pool Siddharth Nagar Goregaon .. .. .	..		2,15,210.21				2,15,210.21	
J—Provident Fund Charges	40,913.00		6,278.00				47,191.00	
K—Debt Charges	19,12,743.35		29,41,464.93				48,54,208.28	
	1,25,19,454.04		1,15,98,966.18				2,41,18,420.22	
XIII—Markets								
A—Markets	1,31,58,259.87		54,91,354.80				1,86,49,614.67	
B—Provident Fund Charges	44,317.00		21,939.00				66,256.00	
C—Pension, Gratuities and Compassionate Allowance.	18,970.00		26,000.00				44,970.00	
D—Proportion of General Supervision	13,34,539.83		2,76,594.93				16,11,134.76	
E—Debt Charges.	52,38,973.82		32,73,235.80				85,12,209.62	
	1,97,95,060.52		90,89,124.53				2,88,84,185.05	

APPENDIX—15—(contd)
(CONSOLIDATED)

Account Heads	Division I		Division II		Division III		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
BUDGET 'A' EXPENDITURE—(Contd.)								
XIV—Deonar Abattoir	2,58,06,222.06		..		..		2,58,06,222.06	
A—Deonar Abattoir								
B—Provident Fund Charges.	20,953.00		..		..		20,953.00	
C—Pension, Gratuities and Compassionate Allowance.	9,200.00		..		..		9,200.00	
D—Proportion of General Supdt.	13,34,539.82		..		..		13,34,539.82	
E—Debt Charges	46,56,957.95		..		..		46,56,957.95	
	3,18,27,872.83		..				3,18,27,872.83	
XV—Traffic Operations, Roads and Bridges—								
A—General	36,12,687.53		53,62,031.49		..		89,74,719.02	
B—Traffic Planning and Operation	18,52,455.35		8.00		..		18,52,463.35	
C—Road, Bridge Planning and Design	25,341.95		4,616.63		..		29,958.58	
D—Road and Bridge Maintenance	6,02,45,731.76		7,27,58,843.00		..		13,30,04,574.76	
E—Rebate on account of compounded wheel tax permissible under section 185 of the B.M.C. Act	..		..		..		..
F—Provident Fund Charges	1,60,000.00		20,512.01		..		1,80,512.01	
G—Debt Charges	3,02,35,067.86		5,36,09,374.00		..		8,38,44,441.86	
H—Proportionate Cost of Collection of Wheel Tax.	8,37,317.00		6,25,428.17		..		14,62,745.17	
I—Lumpsum provision for payment of Commission charges and interest on I.B.R. D.Loan	17,97,007.05		..		..		17,97,007.05	
J—Lumpsum provision for repayment of I B R D Loan No. 1335 I. N.	24,00,000.00		..		..		24,00,000.00	
	10,11,65,608.50		13,23,80,813.30		..		23,35,46,421.80	
XVI—Contribution to—								
(a) Budget 'B' under section 125(2)(d) of the Bombay Municipal Corporation Act.	1,34,94,595.60		1,27,46,260.00		..		2,62,40,855.60	
(b) Budget 'E' under section 126C (e) of the Bombay Municipal Corporation Act.	3,37,36,490.00		3,18,65,630.00		..		6,56,02,120.00	
(c) Budget 'E' (Special Contribution) under section 126C (c.1) of the Bombay Municipal Act.	15,40,00,000.00		..		..		15,40,00,000.00	
(d) Fines and Welfare Fund	29,26,932.16		..		..		29,26,932.16	
(e) Tree Authority Fund	16,93,843.62		..		..		16,93,843.62	
(f) Contribution to P.F. to meet the difference in interest allowed and that actually realised on investment of P. F.	43,67,882.79		12,00,000.00		..		55,67,882.79	
(g) Special Contribution to Slum Improvement to meet deficit in General Account	3,08,19,024.00		..		..		3,08,19,024.00	
	24,10,58,768.17		4,58,11,890.00		..		28,68,50,658.17	
XVII—Miscellaneous—								
(a) Pension Fund	Cr. 3,744.84		8,535.36		..		Cr. 4,790.52	
(b) Gratuity Fund	10,79,730.00		6,57,000.00		..		17,36,730.00	
Deduct: Proportionate Share	34,680.00		..		..		34,680.00	
	10,41,305.16		6,65,535.36		..		17,06,840.52	
XVIII—Measures for Civil Defence	1,37,542.31		..		..		1,37,542.31	
XIX—Contribution to Bombay Building Repairs and Reconstruction Board.	2,40,00,000.00		..		..		2,40,00,000.00	
XX—Village amenities.								
A—Maintenance	..		..		..		..
XXI—Lump Sum Provision for Staff, contingencies, etc.	..		..		..		..
Lump sum provision for the payment of arrears on account of revision of grade	..		..		..		..
XXII—Lump-sum Provision for up-keep of old and Historical monumental Btgs. in the City.	..		..		..		..
XXIII—Lump sum provision for Deposit linked Insurance Scheme	7,47,354.46		2,86,733.16		..		10,34,087.62	
XXIV—Lump-Sum provision for unforseen works at Rs. 1,00,000 in each constituency	2,97,838.13		1,56,045.84		..		4,53,883.97	
Total—Part-I	73,20,38,689.92		35,74,59,997.19		..		1,08,94,98,687.11	

APPENDIX—15—(Contd.)
(CONSOLIDATED)

Account Heads	Division I		Division II		Division III		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
BUDGET 'A' EXPENDITURE (Contd.)								
Budget 'A' (Part II)								
XXXI—Public Health Department—								
A—General Superintendence	2,56,79,076.80		1,98,28,789.49		..		4,55,07,866.29	
B—Supply of Milk to the under nourished needy children attending Municipal Schools	50,08,273.71		60,76,269.73		..		1,10,84,543.44	
C—Provident Fund Charges	1,98,247.00		1,10,926.00		..		3,09,172.00	
D—Malaria Eradication Programme	5,51,772.91		14,46,790.43		..		19,98,563.34	
E—Impounding Stray Cattle	5,84,159.79		..		..		5,84,159.79	
G—Census	13,23,141.09		..		..		13,23,141.09	
I—Debt Charges	9,16,692.01		17,07,006.13		..		26,23,698.14	
H—Filaria Programme	..		4,70,069.27		..		4,70,069.27	
	3,42,61,362.31		2,96,39,851.05		..		6,39,01,213.36	
XXXII—Medical Relief and Education—								
A—Hospitals	18,25,26,576.37		9,62,26,887.87		..		27,87,53,464.24	
B—Maternity Homes	74,04,061.88		1,11,50,702.57		..		1,85,54,764.45	
C—Dispensaries	98,03,737.01		1,04,45,553.26		..		2,02,49,290.27	
D—Medical Education	3,52,13,197.06		..		..		3,52,13,197.06	
E—Statutory Contributions to Government Medical Institutions	4,14,500.04		..		..		4,14,500.04	
F—Clinic for treatment of Leprosy Cases	9,41,824.13		43,128.00		..		9,84,952.13	
G—Grant-in-Aid to Public Institutions	99,18,417.83		9,33,615.25		..		1,08,52,033.08	
H—Provident Fund Charges	4,95,369.52		88,277.00		..		5,83,646.52	
I—Debt Charges	2,92,69,827.11		1,47,86,091.64		..		4,40,55,918.75	
	27,59,87,510.95		13,36,74,255.59		..		40,96,61,766.54	
XXXIII—Measures to Control Environmental Pollution in Greater Bombay—								
A—Dy. City Engineer (Mech. & Elec.) Air pollution prevention office	1,90,169.65		..		..		1,90,169.65	
B—Airpollution Prevention cell	15,71,241.30		..		..		15,71,241.30	
C—Health Survey Unit	4,43,735.38		..		..		4,43,735.38	
D—Debt Charges	15,89,480.01		..		..		15,89,480.01	
	37,94,626.34		..		..		37,94,626.34	
Total—Part II	31,40,43,499.60		16,33,14,106.64		..		47,73,57,606.24	
Total—(A) Revenue Expenditure	1,04,60,82,189.52		52,07,74,103.83		..		1,56,68,56,293.35	
(B) Capital Account—								
I—General Supervision, Collection of Revenue, etc.	85,82,667.97		54,28,943.57		..		1,40,11,611.54	
II—Free Reading Rooms and Libraries	..		..		..		..
III—Street Cleansing and Conservancy etc.	52,19,895.79		Cr. 5,39,845.55		..		46,80,050.24	
IV—S. W. Drains etc.	1,11,32,077.56		1,56,64,630.44		..		2,67,96,708.00	
V—Mechanical and Electrical	..		..		..		..
VI—Buildings Land Acquisition and Management	1,57,05,867.78		1,03,19,060.93		..		2,60,24,928.71	
VII—Fire Brigade	2,92,875.21		9,23,374.69		..		12,16,249.90	
VIII—Licensing, Removal of Encroachment etc.	2,23,056.84		..		..		2,23,056.84	
IX—Gardens and Open Spaces	8,36,584.86		1,98,51,853.70		..		2,06,88,438.56	
X—Markets	86,62,732.19		9,87,295.45		..		96,50,027.64	
XI—Deonar Abattoir	15,43,181.78		..		..		15,43,181.78	
XII—Village Amenities	..		10,95,192.53		..		10,95,192.53	
XIII—Industrial Estates	12,010.53		..		..		12,010.53	
XIV—Centenary Celebration Works	..		38,49,761.55		..		38,49,761.55	
XV—Traffic Operations, Roads and Bridges	7,85,48,734.00		14,55,94,027.05		..		22,41,42,761.05	
Power Laundry	..		348.50		..		348.50	
Plant and Machinery out of Loan Funds	4,89,10,484.13		79,13,102.65		..		5,68,23,586.78	
Suspense Account	..		16,29,225.23		..		32,76,557.30	
Plant and Machinery Purchased out of different Special Funds	16,47,332.07		..		..		Cr. 78,979.93	
Assets written off	78,979.93		..		..		78,979.93	
Recoupment of Advance for Purchase of Capital Stores	78,979.93		..		..		..
Compost Plant	..		12,61,000.00		..		12,61,000.00	
Total—Part I	18,13,17,849.21		21,39,77,622.24		..		39,52,95,471.45	
XX—Public Health Department	10,61,781.55		35,90,684.64		..		46,52,466.19	
XXI—Medical Relief and Education	2,18,82,667.52		92,03,527.72		..		3,10,86,195.24	
XXII—Measures to Control environmental Air Pollution in Greater Bombay.	40,47,271.17		..		..		40,47,271.17	
Plant and Machinery out of Loan Fund	..		22,16,130.57		..		22,16,130.57	
Total—Part II	2,69,91,720.24		1,50,10,342.93		..		4,20,02,063.17	
Total—(B) Capital Expenditure	20,83,09,569.45		22,89,87,965.17		..		43,72,97,531.62	

APPENDIX—15—(contd.)
(CONSOLIDATED)

Account Heads	Division I		Division II		Division III		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
BUDGET 'A' EXPENDITURE—(Contd.)								
C) Suspense Account								
I—Sinking and Special Fund Accounts								
Sinking Fund Account—Municipal ..	9,00,36,871.63		3,47,13,503.13				12,47,50,374.76	
Special Fund Account. ..	17,26,50,771.01		..				17,26,50,771.01	
Loan Redemption Fund ..	..		..				..
Total—I (S. and S. Funds)	26,26,87,642.64		3,47,13,503.13				29,74,01,145.77	
II—Paper and Cash Account								
Sinking Fund. ..	7,57,74,446.04		5,67,91,010.22				13,25,65,456.26	
Special Fund. ..	18,08,20,144.10		..				18,08,20,144.10	
Surplus Fund. ..	28,57,32,587.53		12,48,49,269.03				41,05,81,856.56	
Loan Fund. ..	..		..				..
State Bank of India and Other Local Banks on account of Sundry Deposits. ..	1,15,33,73,885.11		14,63,83,604.54				1,29,97,57,489.65	
Total—II (Papers and Cash)	1,69,57,01,062.78		32,80,23,883.79				2,02,37,24,946.57	
III—Other Suspense Accounts								
Deposit Account ..	4,32,56,79,313.53		29,11,66,038.14				4,61,68,45,351.67	
Reserve Stores Account ..	8,85,62,685.48		..				8,85,62,685.48	
Capital Stores Account ..	17,04,28,615.00		..				17,04,28,615.00	
Capital Stores Account (Foras Road Depot) ..	2,46,805.03		..				2,46,805.03	
Advances for purchase of Petrol and Diesel Oil. ..	47,62,061.98		30,95,228.78				78,57,290.76	
Advances for Departmental Works. ..	79,64,828.48		48,85,491.35				1,28,50,319.83	
Advances for Private Works. ..	31,98,187.47		5,76,671.91				37,74,859.38	
Advances Private Works—Traffic Amenities ..	..		1,16,883.64				1,16,883.64	
Advances Departmental Works—Traffic Amenities ..	..		3,30,004.33				3,30,004.33	
Municipal Workshop. ..	47,30,477.02		24,45,820.28				71,76,297.30	
Municipal Foundry ..	11,14,743.19		..				11,14,743.19	
Worli Crusher ..	Cr. 16,500.00		..				Cr. 16,500.00	
Mechanical Transport. ..	3,20,12,361.98		2,23,30,193.30				5,43,42,555.28	
Asphalt Plant. ..	50,84,110.76		..				50,84,110.76	
Municipal Printing Press ..	1,28,50,299.82		..				1,28,50,299.82	
Rota Printing Unit. ..	12,88,470.50		..				12,88,470.50	
Advances Special Funds. ..	36,98,611.94		..				36,98,611.94	
Municipal Contractors. ..	7,63,032.80		64,870.19				8,27,902.99	
Municipal Tenderers. ..	..		..				..
Advances for Demolition of Unauthorised Structures and Removal of unsafe Buildings. ..	74,17,101.77		2,17,302.48				76,34,404.25	
Advances to Public including Co-operatives for Housing purposes ..	81,13,325.00		..				81,13,325.00	
Municipal Power Laundry ..	51,02,417.51		..				51,02,417.51	
Advances to Municipal Officers ..	12,50,523.83		51,271.12				13,01,794.95	
Advances, Sundry Advances Miscellaneous ..	13,91,26,551.74		6,97,51,506.26				20,88,78,058.00	
Provident Fund. ..	9,31,97,720.51		3,13,60,919.52				12,45,58,640.03	
Pension Fund. ..	4,17,35,072.48		..				4,17,35,072.48	
Gratuity Fund. ..	60,68,603.67		..				60,68,603.67	
Welfare Fund ..	..		..				..
Fines Fund. ..	6,992.48		..				6,992.48	
Fidelity Guarantee Insurance Fund. ..	2,244.65		..				2,244.65	
Reinstatement of Trenches ..	53,46,285.99		48,65,773.68				1,02,12,059.67	
Advances from Surplus Monies for Financing Capital Works Expenditure. ..	3,69,03,447.51		2,16,22,666.51				5,85,26,114.02	
Total—(C)—III—(Other Susp.) C/F	5,00,66,38,392.12		45,28,80,641.49				5,45,95,19,033.61	

APPENDIX—15—(Contd.)
(CONSOLIDATED)

Account Heads	Division I		Division II		Division III		Total Budget 'A'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
Budget— 'A' Expenditure—(Contd.)								
Total—(C) III (Other Susp.) B/F ...	5,00,66,38,392.12		45,28,80,641.49				5,45,95,19,033.61	
Dishonoured cheques. ..	2,90,64,424.98		2,26,38,071.40				5,17,02,496.38	
Advances for Halalkhore Service. ..	..		..				..
Improving common House Gullies in the city... ..	2,99,25,648.89		..				2,99,25,648.89	
Advances for Improvement of Private streets. ..	..		..				..
Advances for Deposit with Outside Bodies. ..	60,000.00		24,000.00				84,000.00	
Advance for Security Deposit with S. B. I. ..	..		..				..
Interest accrued but not paid ..	4,83,681.31		3,75,155.35				8,58,836.66	
Interest receivable Account. ..	..		..				..
Interest on Loans Payable Account ..	3,12,154.00		83,079.25				3,95,233.25	
B. M. C. Loans Interest Warrants Payable Account. ..	2,14,98,365.24		4,81,17,298.51				6,96,15,663.75	
Repayment of B. M. C. Loans ..	2,37,21,724.03		1,92,50,000.00				4,29,71,724.03	
Cash Bill Outstanding Account ..	11,92,807.41		1,14,182.01				13,06,989.42	
Cheques Payable ..	6,15,65,17,641.51		97,81,43,359.80				7,13,46,61,001.31	
Wages Deposit Account ..	3,10,12,245.30		1,22,62,237.05				4,32,74,482.35	
Amount Transferred from Mun. General fund Budget A Div. I to Budget 'E' ..	35,42,59,628.91		31,54,62,863.92				66,97,22,492.83	
Amount transferred to Budget 'G' ..	57,76,39,063.03		..				57,76,39,063.03	
Amount transferred within Budget 'A' Divisions ..	48,23,46,764.48		..				48,23,46,764.48	
Unadjusted Reserve Stores Account Stock. ..	2,14,39,958.50		..				2,14,39,958.50	
Unadjusted Reserve Stores (Foras Road Depot) ..	..		..				..
Municipal Debt. Interest. ..	..		6,53,75,111.07				6,53,75,111.07	
Advances Suspense Account accumulated Surplus Balance payable to Budget 'G' ..	..		..				..
Compost Plant debt. charges ..	..		18,054.20				18,054.20	
Advances for consolidation of Passgein Pvt. Compounds. ..	..		..				..
Total—III (Other Susp.) ..	12,73,61,12,499.71		1,91,47,44,054.05				14,65,08,56,553.76	
Total (C) Suspense Expenditure ..	14,69,45,01,205.13		2,27,74,81,440.97				16,97,19,82,646.10	
Total Expenditure Budget 'A' ..	15,94,88,92,964.10		3,02,72,43,509.97				18,97,61,36,474.07	
Tree Authority Budget ...	18,75,660.82		..				18,75,660.82	

Appendix—15 (Contd.)

(CONSOLIDATED)

Account Heads	Improvement Scheme		Slum Improvement		Slum Clearance (City.)		Slum Clearance (Suburbs & Extd. Suburbs)		Total Budget 'B'	
	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
BUDGET 'B' EXPENDITURE										
IMPROVEMENT SCHEME ACCOUNT										
(A) General Account Expenditure										
A—Maintenance of Properties and Streets ..	4,46,53,846.44		4,98,18,301.18		22,56,908.03		22,99,810.49		5,90,28,866.14	
B—Cost of Management and Establishment ..	1,36,84,166.13		...		...		...		1,36,84,166.13	
C—Proportionate Charges on account of Municipal Supervision ..	48,86,362.10		...		...		...		48,86,362.10	
Deduct—Proportionate Share of Cost of Management & Establishment—										
(a) General Account ..	Cr. 1,75,64,528.01		...		...		...		Cr. 1,75,64,528.01	
(b) Capital Account ..	Cr. 10,06,000.22		...		...		...		Cr. 10,06,000.22	
D—Debt Charges ..	1,11,26,349.00		16,14,534.00		47,34,946.98		42,25,739.00		2,17,01,568.98	
Total (A) General Account Expenditure	5,57,80,195.44		5,14,32,835.18		69,91,855.01		65,25,549.49		12,07,30,435.12	
(B) Capital Account Expenditure										
Improvement and Street etc. Schemes Expenditure ..	94,69,130.32		1,32,90,533.59		19,77,964.93		1,05,879.51		2,48,43,508.35	
Proportionate Share of Cost of Management and Establishment ..	10,06,000.22		...		...		...		10,06,000.22	
Deficit in General Account—	89,04,911.33		...		40,50,260.62		56,26,099.77		1,85,81,271.72	
Total (B) Capital Expenditure	1,93,80,041.87		1,32,90,533.59		60,28,225.55		57,31,979.28		4,44,30,780.29	
(C) Suspense Account Expenditure										
I—Sinking etc. Fund Account										
(a) Sinking Fund Account ..	45,93,903.71		...		10,06,080.16		1,880.52		56,01,864.39	
Total—I (S. Fund)	45,93,903.71		...		10,06,080.16		1,880.52		56,01,864.39	
II—Paper and Cash Accounts										
(a) Sinking Fund ..	1,13,45,882.71		4,62,622.24		26,45,356.68		17,00,715.77		1,61,54,577.40	
(b) Capital Fund ..	...		..		..		..		..
(c) Investment Reserve Fund ..	53.30		..		..		..		53.30	
(d) Rent Equalisation Fund ..	44.30		...		...		...		44.30	
(e) Amenities Fund ..	63.60		...		...		...		63.60	
Total—II (Papers and Cash)	1,13,46,043.91		4,62,622.24		26,45,356.68		17,00,715.77		1,61,54,738.60	
III—Other Suspense Account										
Repayment of B. I. T. etc. Loans ..	45,00,000.00		...		11,99,043.39		1,14,037.87		58,13,081.26	
B. I. T. Interest Warrants Payable Account ..	...		...		...		...		...
Total—III (Other Susp.)	45,00,000.00		...		11,99,043.39		1,14,037.87		58,13,081.26	
Total—(C) Suspense Expenditure	2,04,39,947.62		4,62,622.24		48,50,480.23		18,16,634.16		2,75,69,684.25	
Total Expenditure Budget 'B'	9,56,00,184.93		6,51,85,991.01		1,78,70,560.79		1,40,74,162.93		19,27,30,899.66	

Appendix No. 15 (Contd.)
(CONSOLIDATED)

RECEIPTS				SUMMARY	DISBURSEMENTS			
DIVISION I	DIVISION II	DIVISION-III	Total	ACCOUNTS	DIVISION I	DIVISION-II	DIVISION III	Total
Rs. P.	Rs. P.	Rs. P.	Rs. P.		Rs. P.	Rs. P.	Rs. P.	Rs. P.
Dr. 2,80,71,426.85	5,32,47,140.35		2,51,75,713.50	Opening Balance as at 1st April 1981				
				Budget 'A'				
1,29,12,96,277.80	29,83,01,146.63		1,58,95,97,424.43	(A) Revenue Account	1,04,60,82,189.52	52,07,74,103.83		1,56,68,56,293.35
14,78,92,312.06	15,97,37,859.43		30,76,30,171.49	(B) Capital Account	20,83,09,569.45	22,89,87,965.17		43,72,97,534.62
14,45,99,39,440.50	2,55,14,62,066.54		17,01,14,01,507.04	(C) Suspense Account	14,69,45,01,205.13	2,27,74,81,440.97		16,97,19,82,646.10
15,89,91,28,030.36	3,00,95,01,072.60		18,90,86,29,102.96	Total—Budget 'A'	15,94,88,92,964.10	3,02,72,43,509.97		18,97,61,36,474.07
18,75,660.82	..		18,75,660.82	Tree Authority Budget	18,75,660.82	..		18,75,660.82
12,07,30,435.12	..		12,07,30,435.12	Budget 'B'				
4,44,30,780.29	..		4,44,30,780.29	(A) General Account	12,07,30,435.12	..		12,07,30,435.12
3,07,74,284.25	..		3,07,74,284.25	(B) Capital Account	4,44,30,780.29	..		4,44,30,780.29
19,59,35,499.66	..		19,59,35,499.66	(C) Suspense Account	2,75,69,684.25	..		2,75,69,684.25
16,09,69,39,190.84	3,00,95,01,072.60		19,10,64,40,263.44	Total—Budget 'B'	19,27,30,899.66	..		19,27,30,899.66
..	..		..	Total Budgets 'A' + 'B'+TA.	16,14,34,99,524.58	3,02,72,43,509.97		19,17,07,43,034.55
16,06,88,67,763.99	3,06,27,48,212.95		19,13,16,15,976.94	Closing Balance as at 31st March 1982 as reconciled below* with the Cash Position	Dr. 7,46,31,760.59	3,55,04,702.98		Dr. 3,91,27,057.61
				GRAND TOTAL	16,06,88,67,763.99	3,06,27,48,212.95		19,13,16,15,976.94
				*Bank Reconciliation :				
				Balance as per Bank's Pass Book	Dr. 2,39,23,120.03	1,26,14,865.73		Dr. 1,13,08,254.30
				Add : Revenue sent to the Bank on 31st March 1982 but acknowledged on 1st April 1982	35,84,334.63	67,91,696.25		1,03,76,030.88
				Less : Uncashed Cheques	Dr. 11,78,49,140.58	Dr. 4,12,70,358.64		Dr. 15,91,19,499.22
				Total-Bank Position	Dr. 13,81,87,925.98	Dr. 2,18,63,796.66		Dr. 16,00,51,722.64
				Balance in Bank as per Day Book (Column No. 10)—				
				Balance in Office, in Government Promisory Notes etc.	2,25,650.00	18,62,835.00		20,88,485.00
				Balance in Office in Cash	6,33,30,515.39	4,911.91		6,33,35,427.30
				Collection kept in office	..	5,55,00,752.73		5,55,00,752.73
				Total—Office Position	6,35,56,165.39	5,73,68,499.64		12,09,24,665.03
				Closing Balance as at 31st March 1982 as shown at *above.	Dr. 7,46,31,760.59	3,55,04,702.98		Dr. 3,91,27,057.61

APPENDIX No. 27.

IMPROVEMENT SCHEMES

General Account for the year ending 31st March 1982.

Particulars	Amounts	Particulars	Amounts
	Rs.		Rs.
To Revenue Expenditure as per Appendix No. 35 ...	5,57,80,196	By Revenue Receipts as per Appendix No. 31 ...	4,68,75,286
		Balance being deficit transferred to Capital Account Balance Sheet ...	89,04,910
Total ...	5,57,80,196	Total ...	5,57,80,196

APPENDIX No. 28

Slum Clearance Account—(City) General Account for the year ending 31st March 1982.

Particulars	Amount	Particulars	Amount
	Rs.		Rs.
To Revenue Expenditure as per Appendix 36 ...	69,91,855	By Revenue Receipts under— I—Rent and other proceeds of properties ...	29,41,594
		II—Interest and Profits on Investments ...	...
		IV—Transfer of excess in Sinking Fund ...	..
		Balance being Deficit transferred to Capital Account Balance Sheet ...	40,50,261
Total ...	69,91,855	Total ...	69,91,855

APPENDIX No. 29.

Slum Clearance Account—(Suburbs and Extended Suburbs) General Account for the year ending 31st March 1982.

Particulars	Amount	Particulars	Amount
	Rs.		Rs.
To Revenue Expenditure as per Appendix 37 ...	65,25,549	By Revenue Receipts under— I-(a) Rents and other proceeds of properties ...	7,27,747
		(b) Receipts from Social Welfare Centre at S. G. Barve Nagar ...	14,582
		II— Interest and Profits on Investments ...	..
		III— Miscellaneous Receipts ...	1,57,120
		Balance being Deficit transferred to Capital Account Balance Sheet ...	56,26,100
Total ...	65,25,549	Total ...	65,25,549

APPENDIX NO. 30.

Improvement schemes A/c. sum Improvement General Account for the year ending 31st March 1962.

Particulars	Amount	Particulars	Amount
	Rs.		Rs.
To Revenue Expenditure as per Appendix No. 38 ..	5,14,32,835	By Revenue Receipts under (i) Hutment Colony ..	1,27,98,639
		(ii) Contribution from Budget A' ..	3,86,34,176
		(iii) Subsidy for meeting the deficit ..	..
Total ..	5,14,32,835	Total ..	5,14,32,835

APPENDIX No. 39

IMPROVEMENT SCHEMES

Balance Sheet—(Capital Account) as on 31st March 1982.

LIABILITIES		Amount.		ASSETS		Amount.	
Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
LOANS OUTSTANDING—				BLOCK ACCOUNT—			
(Vide details as shown in appendix No. 52)	...	15,70,28,000.00		Property & Assets at original cost as per Appendix No. 43	...	39,24,73,230.23	
Loan Redemption Fund	...	12,34,82,489.06		LESS—ASSETS CREDITED BY—			
Advance from Surplus Monies	...	5,77,95,434.20		(1) Transfer of Sinking Fund Accumulations in respect of Rs. 370 lakhs loan †	25,07,830.00		
				(2) Special grants from the Govt. 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 & Buildings	8,94,57,603.76		
						9,78,95,433.76	
Book value of land comprised in Schedules "W" and "X"	...	47,58,490.00		Book value of lands comprised in Schedules "W" & "X" as per Appendix No. 47 (Section 97A of B. M. C. Act.)	...	47,58,490.00	
Sinking Fund on Loans	...	9,04,04,929.50					
SPECIAL FUNDS—				INVESTMENT—			
Investment Reserve Fund	...	2,42,61,470.98		Sinking Fund - In paper & Cash as per Appendix No. 48	...	9,04,04,929.50	
Amenities Fund	...	34,67,255.53		Investment Reserve Fund - In Fixed Deposit & Cash	...	2,42,61,470.58	
Rent Equalisation Fund	...	1,05,04,249.22		Amenities Fund - In Fixed Deposit & Cash	...	34,67,255.53	
				Rent Equalisation Fund - In Fixed Deposit & Cash	...	1,05,04,249.22	
Less†			47,17,02,318.49				
REVENUE DEFICIT—				CAPITAL FUND—			
Deficit upto 31st March 1981	3,48,23,215.46			In Fixed Deposits	...	...
Add—Deficit during 1981-82	89,04,911.33			In Cash	...	...
			4,37,28,126.79				
			42,79,74,191.70				42,79,74,191.70

* For Face, Book and Market Values of Securities held in the Sinking Funds on 31st March 1982, please see Appendix No. 55.

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† Being the Sinking Fund accumulations in respect of the Loan of Rs. 370 Lakhs taken by the late Bombay Improvement Trust out of Bombay Development Loan transferred to Capital Account as the Loan is converted into a fresh Loan repayable in equated annual instalments (vide C. R. No. 94 of 4th May 1956)

Appendix No. 40

Slum Clearance City

Balance Sheet Capital Account as on 31st March 1982.

LIABILITIES	Amount		ASSETS.	Amount	
	Rs.	P.		Rs.	P.
LOAN OUTSTANDING—			Block Account—		
Vide details as shown in Appendix No. 53)	5,98,41,356.58		Property and Assets at original cost as per Appendix No. 44	4,81,71,624.24	
Subsidy from Government	1,06,52,426.00		Investment—		
Sale proceeds up to 31st March 1982	33,028.68		Sinking Fund as per Appendix No. 49	1,88,75,866.75	
Sinking Fund on Loans	1,88,75,866.75		CAPITAL FUND—		
Loan Redemption Fund	27,59,559.42		In Fixed Deposit	...	
Advance from Surplus monies	1,28,07,458.94		Cash	...	
		10,49,69,696.37			
Less—					
Revenue Deficit					
Deficit upto 31st March 1981	3,38,71,944.76				
Add—Deficit during 1981-82	40,50,260.62				
		—3,79,22,205.38			
Total		6,70,47,490.99	Total		6,70,47,490.99

Appendix No. 41

Slum Clearance Suburbs & Extended Suburbs.

Balance Sheet Capital Account as on 31st March 1982.

LIABILITIES.	Amount		ASSETS.	Amount	
	Rs.	P.		Rs.	P.
Loan Outstanding (Appendix No. 53)	5,26,99,362.48		Block Account—		
Subsidy from Government	57,82,779.00		Property and Assets at original cost as per Appendix No. 45	4,54,50,967.19	
Sinking Fund on loans	1,33,08,748.08		Investment—		
Sale proceeds upto 31st March 1982	37,96,740.65		Sinking Fund as per App. 50	1,33,08,748.08	
Loan Redemption Fund	9,93,614.52		Capital Fund—		
Advance from Surplus monies	1,44,33,393.11		In Fixed Deposits	...	
		9,10,14,637.84	Cash	...	
Less :					
Revenue Deficit					
Deficit upto 31st March 1981	2,66,28,822.80				
Add—Deficit during 1981-82	56,26,039.77				
		—3,22,54,922.57			
Total		5,87,59,715.27	Total		5,87,59,715.27

Appendix No. 42

Slum Improvement

Balance Sheet Capital Account as on 31st March 1982

LIABILITIES.	AMOUNT		ASSETS.	AMOUNT	
	Rs.	P.		Rs.	P.
Loan Outstanding (Appendix No. 54)	2,00,00,000.00		Block Account—		
Sinking Fund on Loan	20,61,173.02		Property and Assets at original cost as per Appendix No. 46	9,80,70,208.15	
Grant-in-Aid from Govt.	4,97,64,104.21		Investment—		
Advance from Surplus monies	2,83,06,103.94		Sinking Fund as per App. 51	20,61,173.02	
		10,01,31,381.17	Capital Fund—		
Total		10,01,31,381.17	In Fixed Deposits	...	
			Cash	...	
			Total		10,01,31,381.17

Appendix No. 43

IMPROVEMENT SCHEMES

Block account showing details of Capital Expenditure upto 31st March 1982.

Particulars	Total Capital Expenditure upto 31st March 1981	Expenditure during 1981-82	Total Capital Expenditure upto 31st March 1982	Particulars	Total Capital Expenditure upto 31st March 1981	Expenditure during 1981-82	Total Capital Expenditure upto 31st March 1982
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
CAPITAL ACCOUNT				Brought over ...			
Improvement and Street Scheme.				Housing Accommodation ...			
Schedule W Lands ...	13,45,571	...	13,45,571	Acquisition of land at Mogra for shifting potter from Dharavi to Jogeshwari ...	1,20,02,877	1,17,105	1,21,19,982
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. ...	5,74,146	—	5,74,346
Schedule Z Lands ...	8	...	8	Acquisition of Land in survey No. 129, Hissal, Squatters Nos. 130-136 of Eksar Pahad for housing of dishoused tenants as well as displaced Industries in execution of its sanctioned Schemes ...	28,08,780	—	28,08,780
Scheme No.				Acquisition of land and at Borla village ...	94,140	1,46,070	94,149 26,46,460
1 First Nagpada ...	29,16,099	...	29,16,099	Acquisition of land bearing C.S. No. 1325 (Part) and 1/325 Lower Parel Division for housing dishoused persons as a result of Municipal Scheme ...	1,82,329	—	1,82,329
2 Princess Street ...	85,08,865	...	85,08,865	Acquisition of land at Poisar and Kandivli in Survey No. 94 and 95 (Part) of Poisar Survey Nos. 126, 128 and 129 (Part) of Kandivli ...	3,51,977	—	3,51,977
3 Sandhurst Road ...	1,16,02,375	...	1,16,02,375	Taking over explosion victim tenements S. P. Sheds at Shantinagar Arthur Road, etc. ...	4,84,801	...	4,84,801
4 Gamdevi ...	22,88,002	...	22,88,002		36,43,89,686	1,04,75,131	37,48,64,817
5 Dadar-Matunga ...	1,00,53,384	Cr. 36,176	1,00,53,384	Police Accommodation Schemes.			
6 Sion-Matunga ...	2,06,59,727	...	2,06,23,551	Scheme No.			
7 Colaba Reclamation ...	4,78,538	...	4,78,538	14 First Nagpada ...	84,450	...	84,450
8 Mandvi-Koliwada ...	26,52,501	...	26,52,501	16 Wodehouse Road ...	3,22,667	...	3,22,667
11 Agripada ...	3,127	...	3,127	17 Duncan Road ...	53,981	...	53,981
13 Souther Street Extension—				18 Shepherd Road ...	36,223	...	36,223
East-wards ...	68,102	...	68,102	19 Agripada ...	1,79,120	...	1,79,120
27 Mathew Road ...	14,11,129	...	14,11,129	23 Connaught Road ...	79,495	...	79,495
29 Nowroji Hill ...	86,57,482	...	86,57,482	24 Princess Street ...	2,65,953	...	2,65,953
30 Souther Street Extension—				25 Gamdevi ...	1,29,407	...	1,29,497
West-wards ...	1,30,512	...	1,30,512	34 Lamington Road ...	4,61,024	...	4,61,024
31 Parel Suparibaug Estate ...	91,42,350	...	91,42,350	35 Sandhurst Road West ...	1,46,104	...	1,46,104
32 East Agripada ...	50,59,050	...	50,59,050	39 Sandhurst Road East ...	7,58,893	...	7,58,893
33 Bhatwadi ...	3,28,433	...	3,28,433	40 Byculla ...	8,28,411	...	8,28,411
36 Lamington Road ...	2,91,191	...	2,91,191	44 Maharbaudi ...	2,71,434	...	2,71,434
37 Sydenham Road ...	1,40,51,180	...	1,40,51,180	45 Palton Road ...	5,71,492	...	5,71,492
41 Undria Street ...	5,72,800	...	5,72,800	46 Naigaum ...	5,69,142	...	5,69,142
43 Parel Road Central ...	38,97,348	...	38,97,348	48 Mahim ...	4,53,032	...	4,53,032
47 Parel Road North ...	52,96,220	...	52,96,220	55 Chinchbunder Road ...	4,32,656	...	4,32,656
49 Nepean Sea Road—Reclamation	3,053	...	3,053	55A Mazagaon ...	4,53,560	...	4,53,560
50 Mazagaon Street ...	40,68,206	...	40,68,206	63 King's Circle (Matunga) ...	4,82,185	...	4,82,185
52 Worli Street ...	2,80,89,520	6,933	2,80,96,453	67 Naigaum (for Armed Police and Recruits) ...	24,42,031	...	24,42,031
53 Foras Road ...	36,82,045	...	36,82,045	70 Arthur Road ...	1,58,357	...	1,58,357
54 Kolbhatwadi ...	21,79,254	...	21,79,254		91,84,617	...	91,84,617
55 Bellasis Road ...	4,51,352	6,55,930	11,07,282	Mill Company's Chawl Schemes			
56 Dharavi Street ...	1,82,89,668	5,44,658	1,88,34,346	Scheme No.			
57 Sewri-Wadala ...	5,59,68,594	13,05,022	5,72,73,616	42 Spring Mills ...	5,18,990	...	5,18,990
58 Worli-Extension ...	1,71,69,755	...	1,71,69,755	51 Century Mills ...	1,29,980	...	1,29,980
59 Sewri-Koliwada ...	6,91,392	...	6,91,392	65 David Mills ...	2,96,852	...	2,96,852
60 Naigaum Street ...	76,18,685	...	76,18,685		9,45,822	...	9,45,822
61 Fergusson Road ...	15,68,030	...	15,68,030	Carried forward ...	34,53,90,037	1,02,11,956	35,56,01,993
62 Love Lane ...	16,18,731	...	16,18,731		37,45,20,125	1,04,75,131	38,49,95,256
66 Mahalaxmi ...	4,86,705	...	4,86,705				
69 Widening of Byculla Bridge ...	7,20,290	...	7,20,290				
71 Chaupati Street ...	24,085	...	24,085				
Chaupati Reclamation ...	1,889	...	1,889				
East Chaupati Estate ...	4,380	...	4,380				
Lump Sum Provision for granting loans to erect buildings on Imp. Scheme lands as provided under Section 354W of the Municipal Act ...	15,040	...	15,040				
72 Tripartite Road ...	2,26,684	...	2,26,684				
73 Palton Road ...	10,37,510	...	10,37,510				
74 Sion Overbridge ...	92,457	...	92,457				
Lump Sum Provision for Acquisition in all Schemes ...	6,136	...	6,136				
Lump Sum provision for Housing Accommodation for poorer classes including revision for acquisition. ...	8,63,31,843	77,35,589	9,40,67,432				
Housing of squatters on land Near Mankurd 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—For Fishermen at Mahim Causeway ...	Cr. 44,351	...	Cr. 44,351				
Housing of Squatters Acquisition ...	6,29,401	...	6,29,401				
Housing of Squatters at Vikroli ...	151	...	151				
Construction of Dormitories ...	6,92,736	...	6,92,736				
Acquisition of land at Govandi ...	7,03,035	...	7,03,035				

Appendix No. 43—(Concl.)

Particulars	Total Capital Expenditure upto 31st March 1981	Expenditure during 1981-82.	Total Capital Expenditure upto 31st March 1982.	Particulars	Total Capital Expenditure upto 31st March 1981	Expenditure during 1981-82.	Total Capital Expenditure upto 31st March 1982
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Brought over ...	37,45,20,125	1,04,75,131	38,49,95,256	Brought over ...	37,49,83,436	1,04,75,131	38,54,58,567
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 244 tenements, etc. ...	2,58,843	...	2,58,843	Provision of a lift in the Improvement Trust Building at Napier Road near Queens Statue ...	12,267	...	12,267
(ii) Construction of 210 tenements etc. ...	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 ...	195	...	19,504
Administrative Offices, etc.—				Expenses in connection with the loan raised in 1957-58 ...	62,048	...	62,048
Building on Esplanade Road near Queen's Statue ...	3,21,562	...	3,21,562	Repayment of Rs. 40 lakhs loan of 1919 ...	26,83,469	...	26,83,469
Engineer's Office at Matunga ...	1,38,468	...	1,38,468	Part payment of Rs. 25 Lakhs loan of 1926 ...	19,08,494	...	19,08,494
Central Stores at the back of Frere Fitcher School ...	15,656	...	15,656		61,39,101	...	61,39,101
Store yard at Agripada, etc. ...	83,801	...	83,801				
Workshop for Motor Lorries at Agripada ...	90,368	...	90,368				
Tools and Plant ...	559	...	559				
	7,56,460	...	7,56,460				
Carried forward...	37,49,83,436	1,04,75,131	38,54,58,567	Grand Total ...	38,19,98,099	*1,04,75,131	39,24,73,230

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

Div.—I

APPENDIX No. 44.

IMPROVEMENT SCHEMES—SLUM CLEARANCE—CITY.

Block account showing details of Capital Expenditure upto 31st March 1982.

PARTICULARS	Total Capital Expenditure upto 31st March 1981	Expenditure during 1981-82	Total Capital Expenditure upto 31st March 1982
	Rs.	Rs.	Rs.
A—Works to be carried out from Municipal Fund			
Acquisition of land within, adjoining or surrounded by clearance Areas for housing or other development works ..	10,47,243	..	10,47,243
Transit Camps for providing temporary alternative housing accommodation to facilitate Slum Clearance ..	5,33,767	..	5,33,767
Permanent Housing for Slum Population ..	13,54,259	..	13,54,259
Providing Sewerage arrangement in Kamathipura Area ..	1,71,857	..	1,71,857
Discount and other charges on the loan of Rs. 10 lakhs raised in 1956-57 ..	10,108	..	10,108
Discount and other charges on the loan of Rs. 20 lakhs raised in 1957-58 ..	45,160	..	45,160
Do. on the loan of Rs. 10 lakhs raised in 1958-59 ..	17,721	..	17,721
Miscellaneous expenses including Preliminary expenses (Staff and contingencies in connection with Slum Clearance) ..	37,90,196	49,652	38,39,848
Construction of bid.g. at Bhat Chawl compound at Werli ..	4,756	3,27,042	3,31,798
Total A—Works to be carried out from Municipal Fund ..	69,75,067	3,76,694	73,51,761
B.—Works to be carried out with the Government Aid—			
Acquisition of land within, adjoining or surrounded by Clearance Areas for—rehousing or other development works ..	43,84,741	10,88,852	54,73,593
Permanent Housing for Slum Population ..	3,48,33,651	5,12,419	3,53,46,070
Total B—Works to be carried out with the Government Aid ..	3,92,18,392	16,01,271	4,08,19,663
Grand Total* ..	4,61,93,459	19,77,965	4,81,71,424

* 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 1982.

PARTICULARS	Total Capital Expenditure upto 31st March 1981	Expenditure during 1981-82	Total Capital Expenditure upto 31st March 1982
	Rs.	Rs.	Rs.
Slum Clearance—Suburbs.			
A.—Works to be carried out from Municipal Fund.			
Miscellaneous expenses including Preliminary Expenses (Staff and Contingencies) ..	1,76,21,724	2,698	1,76,24,422
Total A.—Works to be carried out from Municipal Fund ..	1,76,21,724	2,698	1,76,24,422
B.—Works to be carried out with the Government Aid			
(b) Chawl and S. P. Chawls ..	2,77,23,363	1,03,182	2,78,26,545
Total B.—Works to be carried out with the Government Aid ..	2,77,23,363	1,03,182	2,78,26,545
Grand Total ..	4,53,45,087	1,05,880	4,54,50,967

APPENDIX No. 46.

IMPROVEMENT SCHEMES SLUM IMPROVEMENTS

Block account showing details of Capital Expenditure upto 31st March 1982.

PARTICULARS	Total Capital Expenditure upto 31st March 1981	Expenditure during 1981-82	Total Capital Expenditure upto 31st March 1982
	Rs.	Rs.	Rs.
(a) Construction.			
(1) Providing Civic amenities under the environment all improvements Scheme to the existing and newly created hutment Colonies such as Concrete passages, Drainage Lighting Sanitary conveniences including Washing places and Water supply arrangement ..	5,25,41,019	50,92,848	5,84,43,867
(2) Providing additional amenities to Slum population Scheme ..	3,22,38,655	73,87,686	3,96,26,341
TOTAL ..	8,47,79,674	1,32,90,534	9,80,70,208

APPENDIX No. 52—(Consolidated)

Statement showing outstanding balances of Loans on 31st March 1982, pertaining to Budget 'B'.

Serial No.	Particulars of Loans	Rate of Interest per annum.	Outstanding Loan Balance on 31st March 1982.	Serial No.	Particulars of Loans	Rate of Interest per annum.	Outstanding Loan Balance on 31st March 1982
1	2	3	4	1	2	3	4
			Rs.				Rs.
	Improvement Scheme—				Programme No. 10		
	Loans Raised from the Government.			45	Ra. 1,62,343 Loan, 1966-67	5½%	1,39,649.31
				46	Ra. 2,108 Loan, 1967-68	5½%	1,815.79
				47	Ra. 1,146 Loan, 1967-68	5½%	988.03
				48	Ra. 58,984 Loan, 1968-69 Prog. 10...	5½%	50,789.28
					Total—		1,93,242.41
1	Ra. 172 lakhs Loan 1922	4½%	1,72,00,000.00		Programme No. 11		
2	Ra. 89 lakhs Loan 1923	4½%	89,00,000.00	49	Ra. 69,426 Loan, 1968-69	5½%	59,783.64
3	Ra. 100 lakhs Loan 1924	4½%	1,00,00,000.00	50	Ra. 75,936 Loan, 1969-70	5½%	65,384.56
4	Ra. 70 Lakhs Loan 1925	4½%	70,00,000.00	51	Ra. 13,725 Loan, 1970-71	6½%	12,003.13
	Total—Govt. Loans		4,31,00,000.00		Total—Prog. 11 ..		1,37,171.33
	Loans raised from Public—				Total—Govt. Loans		63,05,356.58
5	Ra. 19.28 Lakhs Debenture Loan out of Ra. 19.39 Lakhs Loan, 1956-57.	4%	19,28,000.00	52	Loan raised from the Public		
6	Ra. 50 Lakhs Loan, 1959-60	4%	50,00,000.00	53	Ra. 20 Lakhs Loan, 1957-58	4½%	20,00,000.00
7	Ra. 70 Lakhs Loan, 1960-61	4½%	70,00,000.00	54	Ra. 10 Lakhs Loan, 1958-59	4%	10,00,000.00
8	Ra. 50 Lakhs Loan, 1961-62	4½%	50,00,000.00	55	Ra. 25 Lakhs Loan, 1959-60	4%	25,00,000.00
9	Ra. 100 Lakhs Loan 1962-63	4½%	1,00,00,000.00	56	Ra. 50 Lakhs Loan, 1961-62	4½%	50,00,000.00
10	Ra. 50 Lakhs Loan, 1963-64	4½%	50,00,000.00	57	Ra. 30 Lakhs Loan, 1964-65	4½%	30,00,000.00
11	Ra. 100 Lakhs Loan, 1965-66	6%	1,00,00,000.00	58	Ra. 50 Lakhs Loan, 1966-67	6%	50,00,000.00
12	Ra. 50 Lakhs Loan, 1966-67	6%	50,00,000.00	59	Ra. 25 Lakhs Loan, 1971-72	6%	25,00,000.00
13	Ra. 50 Lakhs Loan, 1967-68	6%	50,00,000.00	60	Ra. 50 Lakhs Loan, 1972-73	6%	50,00,000.00
14	Ra. 75 Lakhs Loan, 1968-69	6%	75,00,000.00	61	Ra. 50 Lakhs Loan, 1973-74	6%	50,00,000.00
15	Ra. 250 Lakhs Loan 1976-77	6½%	2,50,00,000.00	62	Ra. 75 Lakhs Loan, 1975-76	6½%	75,00,000.00
16	Ra. 275 Lakhs Loan 1977-78	6½%	2,75,00,000.00	63	Ra. 100 Lakhs Loan, 1976-77	6½%	1,00,00,000.00
	Total—Public Loans		11,39,28,000.00	64	Ra. 50 Lakhs Loan 1977-78	6½%	50,00,000.00
	Total—Improvement Scheme		15,70,28,000.80		Total—Public Loans		5,35,00,000.00
	Slum Clearance—City—				Total—Slum Clearance (City)...		5,98,05,356.00
	Loans raised from the Govt.				Slum Clearance—Suburbs		
	Programme No. 1				& Extd. Suburbs—		
17	Ra. 9,50,997 Loan, 1957-58	4½%	7,09,938.95	65	Loan raised from the Govt.—		
18	Ra. 6,12,000 Loan, 1958-59	4½%	4,56,870.73	66	Programme No. 2		
19	Ra. 2,73,000 Loan, 1959-60	4½%	2,03,802.46	67	Ra. 307,000 Loan, 1959-60	4½%	2,59,799.00
20	Ra. 1,85,000 Loan, 1960-61	4½%	1,38,106.40	68	Ra. 5,84,000 Loan, 1960-61	4½%	4,94,295.13
21	Ra. 5,04,000 Loan, 1961-62	4½%	3,49,371.68	69	Ra. 3,54,375 Loan, 1962-63	5½%	3,05,147.20
22	Ra. 2,64,529 Loan 1962-63	5½%	2,02,940.05	70	Ra. 1,67,625 Loan, 1963-64	5½%	1,44,340.43
23	Ra. 2,50,971 Loan, 1963-64	5½%	1,92,538.69		Ra. 2,43,364 Loan, 1964-65	5½%	2,09,560.97
24	Ra. 47,250 Loan, 1964-65	5½%	36,249.08		Ra. 11,599 Loan, 1966-67	5½%	9,989.73
25	Ra. 2,20,355 Loan, 1964-65	5½%	1,69,050.90		Total—Prog. 2 ...		14,23,043.23
26	Ra. 50,504 Loan, 1965-66	5½%	38,611.43	71	Programme No. 3		
27	Ra. 73 Loan, 1965-66	5½%	55.87	72	Ra. 1,62,000 Loan, 1960-61	4½%	96,300.34
28	Ra. 568 Loan 1968-69	5½%	434.35	73	Ra. 9,72,000 Loan, 1961-62	4½%	5,77,800.78
	Total—Prog. 1...		24,97,970.59	74	Ra. 1,00,182 Loan, 1962-63	5½%	62,036.15
	Programme No. 2				Ra. 7,818 Loan, 1963-64	5½%	4,841.90
29	Ra. 94,500 Loan, 1961-62	4½%	79,965.66		Total—Prog. 3...		7,40,979.17
	Total—Prog. 2...		79,965.66		Programme No. 4		
	Programme No. 3			75	Ra. 4,65,300 Loan 1963-64	5½%	4,00,671.40
30	Ra. 9,00,000 Loan 1960-61	4½%	5,35,010.35	76	Ra. 1,08,900 Loan 1964-65	5½%	93,775.59
31	Ra. 62,037 Loan 1962-63	5½%	38,415.57	77	Ra. 4,75,911 Loan 1964-65	5½%	4,09,796.37
32	Ra. 9,963 Loan 1963-64	5½%	6,169.78	78	Ra. 1,31,267 Loan 1965-66	5½%	1,13,030.45
	Total—Prog. 3		5,79,595.70	79	Ra. 1,53,917 Loan 1965-66	5½%	1,32,535.43
	Programme No. 4			80	Ra. 1,07,739 Loan 1965-66	5½%	92,770.26
33	Ra. 3,69,600 Loan, 1963-64	5½%	3,18,265.15	81	Ra. 1,06,343 Loan 1965-66	5½%	91,567.78
34	Ra. 1,84,800 Loan, 1964-65	5½%	1,59,132.59	82	Ra. 1,28,865 Loan 1966-67	5½%	1,10,962.42
	Total—Prog. 4 ..		4,77,397.74	83	Ra. 66,705 Loan 1967-68	5½%	57,440.69
	Programme No. 6			84	Ra. 12,159 Loan, 1967-68	5½%	10,473.23
35	Ra. 1,53,900 Loan, 1966-67	5½%	1,17,674.16	85	Ra. 22,388 Loan 1968-69	5½%	19,281.55
36	Ra. 10,190 Loan, 1967-68	5½%	7,790.50	86	Ra. 3,519 Loan 1968-69	5½%	3,031.08
37	Ra. 6,910 Loan, 1967-68	5½%	5,282.77		Total Prog. 4 ..		15,35,340.08
38	Ra. 57,000 Loan, 1968-69	5½%	43,577.88		Total Govt. Loan...		36,99,362.40
	Total—Prog. 6 ..		1,74,325.31		Loans raised from the Public—		
	Programme No. 9			87	Ra. 50 Lakhs Loan 1962-63	4½%	50,00,000.00
39	Ra. 6,10,818 Loan, 1966-67	5½%	5,25,959.92	88	Ra. 50 Lakhs Loan 1966-67	6%	50,00,000.00
40	Ra. 5,73,838 Loan, 1967-68	5½%	4,94,116.45	89	Ra. 50 Lakhs Loan 1967-68	6%	50,00,000.00
41	Ra. 7,28,110 Loan, 1968-69	5½%	6,26,952.08	90	Ra. 25 Lakhs Loan 1968-69	6%	25,00,000.00
42	Ra. 1,00,518 Loan, 1968-69	5½%	86,557.55	91	Ra. 40 Lakhs Loan 1973-74	6%	40,00,000.00
43	Ra. 1,04,516 Loan, 1969-70	5½%	89,985.33	92	Ra. 100 Lakhs Loan 1975-76	6½%	1,00,00,000.00
44	Ra. 3,91,298 Loan, 1970-71	6½%	3,42,106.51	93	Ra. 125 Lakhs Loan 1976-77	6½%	1,25,00,000.00
	Total—Prog. 9..		21,65,687.84	94	Ra. 50 Lakhs Loan 1977-78	6½%	50,00,000.00
					Total—Public Loans		4,90,00,000.00
					Total—Slum Clearance (Subs. & Extd. Subs.)		5,26,99,362.48
					Slum Improvement—		
					Loans raised from Public :-		
				95	Ra. 200 Lakhs Loan 1976-77	6½%	2,00,00,000.00
					Total—Slum Improvement.		2,00,00,000.00
					Grand Total—Budget 'B' ...		28,95,32,719.06

APPENDIX No. 59

EDUCATION FUND

Revenue Account for the year ended 31st March 1982.

Particulars	Total		Particulars	Total	
	Rs.	P.		Rs.	P.
To Revenue Expenditure ...	31,90,89,894.05		By Revenue Receipts ...	32,06,47,466.23	
To Surplus during the year ...	15,57,572.18				
Total ...	32,06,47,466.23		Total ...	32,06,47,466.23	
To Revenue Expenditure to be incurred in 1982-83 and provided for as Renewed Grants...	2,31,00,000.00		By Surplus Revenue Fund as at 1st April 1981 ...	2,49,53,510.55	
			By Revenue of previous years reserved for the year 1981-82 ...	2,00,00,000.00	
To Balance being Surplus Revenue Fund as at 31st March 1982 ...	2,34,11,082.73		By Revenue Surplus during the year 1981-82 ...	15,57,572.18	
Total ...	4,65,11,082.73		Total ...	4,65,11,082.73	

Div.—I.

APPENDIX No. 62

EDUCATION FUND

Revenue Account Balance Sheet as at 31st March 1982.

Liabilities.		Assets		
	Rs.	P.	Rs.	P.
Due on Cheques Payable ...	38,10,820.95		Cash at Bank Rs. —18,21,734.74	
			Cash in Office Rs. 97,73,565.39	79,51,830.65
Due on Outstanding Charges on account of Interest Accrued but Not Paid (Appendix—69) ...	29,10,249.58		Education Loan Interest Warrants Payable Account.	850.25
Unclaimed Dues & Deposits (Refundable) Account (Appendix—67) ...	5,09,454.70		Advances—Recoverable	
			Municipal Officers Rs. 5,96,551.18	
			Sundries—Miscellaneous advances Rs. 2,27,47,105.84 (Appendix—67)	2,33,43,657.02
Deposits in Cash and Public Securities from Contractors and Private Parties.. (Appendix—68)	1,89,38,205.68		Deposits—	
			In Securities ... Rs. 25,000.00	25,000.00
			In Office ...	
Interest on Loans Payable A/c. ...	1,76,331.25		Amount held in Budget 'A' Div.—I** ...	2,42,51,892.79
Endowment Fund (Appendix—71) ...	4,91,200.64		Investments—	
			Endowment Fund— (Appendix—71)	
			In securities Rs. 4,75,135.45	
			In Fixed Deposit Rs. 16,000.00	
			In cash Rs. 65.19	4,91,200.64
Due on Outstanding Charges for 1980-81 and previous year ...	2,31,00,000.00		Surplus Fund—	
			In Securities* Rs. 1,72,68,600.00	
Surplus Revenue Fund (Vide Appendix No. 59) ...	2,34,11,082.73		In Call Deposit ...	
			In Cash at Bank Rs. 14,314.18	1,72,82,914.18
Total ...	7,33,47,345.53		Total ...	7,33,47,354.53

* Details of Securities held in Surplus Fund

	Face Value	Book Value
	Rs.	Rs.
7% Rs. 100 Lakhs B.M.D. Budget E (Internal) Loan 1981-82 ..	1,00,00,000	1,00,00,000
6½% Rs. 150 Lakhs B.M.D. Budget E (Internal) Loan 1976-77) ..	72,68,600	72,68,600
	1,72,68,600	1,72,68,600

** An amount of Rs. 5,99,568.14 being contribution towards Gratuity Fund for the year 1980-81 payable to Budget
 - A Division-I will be adjusted during the year 1982-83.

Div.—I

APPENDIX No. 63

EDUCATION FUND

Capital Fund Balance Sheet as at 31st March 1982.

Liabilities		Assets		
	Rs.	P.	Rs.	P.
Loans Outstanding—			Block Account—Appendix 64	
Due to Public	21,69,00,000.00		Loan Funds	28,81,57,260.53
Trust Fund		694.31	Trust Fund	2,08,755.42
Surplus—			Investment—	
Sinking Fund	5,90,43,798.69		Sinking Fund—Appendix 66 and 71	
Contribution from Trust Fund	2,08,755.42		In Securities Rs. 5,90,43,741.23	
Contribution from Government	10,00,000.00		In cash at Bank Rs. 57.46	5,90,43,798.69
Advance from Surplus Monies for meeting Capital Expenditure pending raising of Loans			Trust Fund	
Loan Redemption Fund			In Cash	694.31
Rs. 7,21,00,000.00			Loan Fund	
Less—			In Securities Rs. 15,98,200.00*	
Assets written off Rs. 2,44,495.14	7,18,55,504.86		In cash at Bank Rs. 44.33	15,98,244.33
Grand Total	34,90,08,753.28		Grand Total	34,90,08,753.28

* 6½% Rs.150 Lakhs B.M.D. Budget 'E' Loan 1976-77.

APPENDIX No 64

Statement showing Capital Works Expenditure upto 31st March 1982.

Education Fund.			
Capital Account	Total Capital Works Expenditure upto 31st March, 1981.	Capital Works Expenditure during 1981-82.	Total Capital Works Expenditure upto 31st March 1982.
	Rs.	Rs.	Rs.
City Section	10,46,27,532.57	71,20,380.99	11,17,47,713.56
Suburban and Extended Suburban Section	15,52,13,499.91	2,11,96,047.06	17,64,09,546.97
Total-Loan Fund	25,98,40,832.48	2,83,16,428.05	28,81,57,260.53
Trust Fund	2,08,755.42		2,08,755.42
Grand Total	26,00,49,587.90	2,83,16,428.05	28,83,66,015.95

Div.—I

APPENDIX No. 65
EDUCATION FUND

Statement showing outstanding Loans due by the Bombay Municipal Corporation the Interest out standing on 1st April 1981 on the different Loans, the amount payable for the year 1981-82, the amount paid by the State Bank of India during that year and the balances outstanding on 31st March 1982.

Particulars of Loans.	Rate of Interest percent. p.a.	Balance due on 1-4-1981	Amount raised in 1981-82	Total	Amount repaid in 1981-82	Balance due on 31st March 1982	Interest outstanding on 1-4-1981	Interest payable in 1981-82	Total Interest due	Deduct Interest paid by the State Bank of India and in Office.	Interest Outstanding as on 31st March 1982.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Loans from Public											
(1) Rs. 27.5 Lakhs Loan (1969-70)	6	27,50,000	...	27,50,000	27,50,000	...	600.00	1,65,000.00	1,65,600.00	1,65,600.00†	...
(2) Rs. 16.5 Lakhs Loan (1970-71) (1st issue)	6	16,50,000	...	16,50,000	...	16,50,000	...	99,000.00	99,000.00	99,000.00	...
(3) Rs. 16.5 Lakhs Loan (1970-71) (2nd issue)	6	16,50,000	...	16,50,000	...	16,50,000	...	99,000.00	99,000.00	99,000.00	...
(4) Rs. 33 Lakhs Loan (1971-72)	6	33,00,000	...	33,00,000	...	33,00,000	...	1,98,000.00	1,98,000.00	1,98,000.00	...
(5) Rs. 82.5 Lakhs Loan (1972-73)	6	82,50,000	...	82,50,000	...	82,50,000	2,940.00	4,95,000.00	4,97,940.00	4,95,765.00	2,175.00
(6) Rs. 110 Lakhs Loan (1973-74)	6	1,10,00,000	...	1,10,00,000	...	1,10,00,000	...	6,60,000.00	6,60,000.00	5,40,000.00	1,20,000.00
(7) Rs. 110 Lakhs Loan (1974-75)	6½	1,10,00,000	...	1,10,00,000	...	1,10,00,000	...	6,87,500.00	6,87,500.00	6,87,500.00	...
(8) Rs. 55 Lakhs Loan (1975-76)	6½	55,00,000	...	55,00,000	...	55,00,000	48,156.25	3,43,750.00	3,91,906.25	3,38,937.50	52,968.75
(9) Rs. 55 Lakhs Loan (1976-77)	6½	55,00,000	...	55,00,000	...	55,00,000	1,781.75	3,43,750.00	3,45,531.75	3,44,344.21	1,187.50
(10) Rs. 220 Lakhs Loan (1977-78)	6½	2,20,00,000	...	2,20,00,000	...	2,20,00,000	...	13,75,000.00	13,75,000.00	13,75,000.00	...
(11) Rs. 253 Lakhs Loan (1978-79)	6½	2,53,00,000	...	2,53,00,000	...	2,53,00,000	...	16,44,500.00	16,44,500.00	16,44,500.00	...
(12) Rs. 275 Lakhs Loan (1979-80)	6½	2,75,00,000	...	2,75,00,000	...	2,75,00,000	...	18,56,250.00	18,56,250.00	18,56,250.00	...
(13) Rs. 55 Lakhs Loan (1980-81)	7	55,00,000	...	55,00,000	...	55,00,000	...	3,85,000.00	3,85,000.00	3,85,000.00	...
(14) Rs. 110 Lakhs Loan (1981-82)	7½	...	1,10,00,000	1,10,00,000	...	1,10,00,000	...	...	...	...	...
Total Loans from Public		13,09,00,000	1,10,00,000	14,19,00,000	27,50,000	13,91,50,000	53,478.00	83,51,750.00	84,05,228.00	82,28,896.71	1,76,331.25
Loans from Internal Funds											
(15) Rs. 10 Lakhs Loan (1960-61)	4½	10,00,000	...	10,00,000	...	10,00,000	...	42,500.00	42,500.00	42,500.00	...
(16) Rs. 10 Lakhs Loan (1961-62)	4½	10,00,000	...	10,00,000	...	10,00,000	...	42,500.00	42,500.00	42,500.00	...
(17) Rs. 25 Lakhs Loan (1962-63)	4½	25,00,000	...	25,00,000	...	25,00,000	...	1,12,500.00	1,12,500.00	1,12,500.00	...
(18) Rs. 12.5 Lakhs Loan (1963-64)	4½	12,50,000	...	12,50,000	...	12,50,000	...	59,375.00	59,375.00	59,375.00	...
(19) Rs. 25 Lakhs Loan (1966-67)	6	25,00,000	...	25,00,000	...	25,00,000	...	1,50,000.00	1,50,000.00	1,50,000.00	...
(20) Rs. 25 Lakhs Loan (1967-68)	6	25,00,000	...	25,00,000	...	25,00,000	...	1,50,000.00	1,50,000.00	1,50,000.00	...
(21) Rs. 20 Lakhs Loan (1968-69)	...	20,00,000	...	20,00,000	...	20,00,000	...	1,20,000.00	1,20,000.00	1,20,000.00	...
(22) Rs. 20 Lakhs Loan (1971-72)	...	20,00,000	...	20,00,000	...	20,00,000	...	1,20,000.00	1,20,000.00	1,20,000.00	...
(23) Rs. 100 Lakhs Loan (1971-73)	6	1,00,00,000	...	1,00,00,000	...	1,00,00,000	...	6,00,000.00	6,00,000.00	6,00,000.00	...
(24) Rs. 50 Lakhs Loan (1974-75)	6½	50,00,000	...	50,00,000	...	50,00,000	...	3,12,500.00	3,12,500.00	3,12,500.00	...
(25) Rs. 50 Lakhs Loan (1975-76)	6½	50,00,000	...	50,00,000	...	50,00,000	...	3,12,500.00	3,12,500.00	3,12,500.00	...
(26) Rs. 150 Lakhs Loan (1976-77)	6½	1,50,00,000	...	1,50,00,000	...	1,50,00,000	...	9,37,500.00	9,37,500.00	9,37,500.00	...
(27) Rs. 50 Lakhs Loan (1976-77)	6½	50,00,000	...	50,00,000	...	50,00,000	...	3,12,500.00	3,12,500.00	3,12,500.00	...
(28) Rs. 30 Lakhs Loan (1977-78)	7½	30,00,000	...	30,00,000	...	30,00,000	...	2,25,000.00	2,25,000.00	2,25,000.00	...
(29) Rs. 100 Lakhs Loan (1978-79)	6½	1,00,00,000	...	1,00,00,000	...	1,00,00,000	...	6,50,000.00	6,50,000.00	6,50,000.00	...
(30) Rs. 100 Lakhs Loan (1981-82)	7	...	1,00,00,000	1,00,00,000	...	1,00,00,000	...	...	...	...	...
Total Loans from Internal Funds		6,77,50,000	1,00,00,000	7,77,50,000	...	7,77,50,000	...	41,46,875.00	41,46,875.00	41,46,875.00	...
GRAND TOTAL		19,86,50,000	2,10,00,000	21,96,50,000	27,50,000	21,69,00,000	53,478.00	1,24,98,625.00	1,25,52,103.00	1,23,75,771.71	1,76,331.25
											0.04*

* Treated as Saving.

† Including amount of Rs. 2040 credited to unclaimed dues & deposit A/C refundable.

* E Div.—I.

APPENDIX No.—70

EDUCATION FUND

Statement showing the amounts of Receipts and Expenditure respectively credited and debited to the Education Fund during the year 1981-82 and the balance at the credit of the Fund at the close of the year 1981-82 (i.e., 31st March 1982).

	Rs.	P.
RECEIPTS—A.—REVENUE ACCOUNT		
(1A) Education Cess	6,29,96,982	61
(2) Contribution towards Primary Education from Municipal Corporation under Section 126C(c) of the Bombay Municipal Corporation Act—		
(i) From Budget 'A' Div. I	3,37,36,490	00
(ii) From Budget 'A' Div. II	3,18,65,630	00
(2A) Special Contribution from—		
(i) From Budget 'A' Division I	15,40,00,000	00
Contribution from Government under Clause 2(e) of Schedule BBA of the Bombay Municipal Corporation Act	3,44,35,116	00
Interest on Endowment and Investments	13,285	56
Rent and other proceeds of properties	30,77,440	51
Interest and Profits on Investments of Surplus, Loan and other balances	1,52,549	69
Miscellaneous Receipts	3,69,971	86
Total—Revenue Receipts	32,06,47,466	23
RECEIPTS—B.—CAPITAL ACCOUNT		
(1) New Loans	2,10,00,000	00
(2) Trust Fund	...	...
(3) Advance from Surplus Monies for meeting Capital work Expenditure pending raising of New Loans	...	...
Total—Capital Receipts	2,10,00,000	00
RECEIPTS—C.—SUSPENSE ACCOUNT		
Advances to Municipal Officers—		
(a) Standing Advances for Contingent Expenditure	15,331	70
(b) Motor Cars and Motor Cycles to Officers	36,092	00
(c) Dishonoured Cheques	9,951	00
(d) Loan scholarships to Municipal Teachers Under Training	60	00
Advances for meeting the cost of repairs to private buildings housing municipal schools under Section 489/499 recoverable from the landlords.	1,92,34,619	88
Sundries—Miscellaneous Advances	...	...
Total—Advances	1,92,96,054	58
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	27,71,519	51
(2) Endowment Fund (Paper and Cash) Account	...	...
(3) Loan Fund (Paper and Cash) Account	...	...
(4) Surplus Fund (Paper and Cash) Account	1,36,88,061	57
(5) Sundry Deposits Account	...	...
Total—Paper and Cash	1,64,59,581	08
Deposit Account	1,26,71,237	20
Provident Fund	2,77,01,570	44
Pension Fund	1,04,52,790	18
Gratuity Fund	11,52,862	22
Cheques Payable	30,84,74,493	57
Wages Deposit Account	...	...
Endowment Fund Account	7,000	00
Sinking Fund Account—Education	1,21,50,244	55
Amount Transferred from Municipal General fund Budget A to Education Fund A/c...	36,14,89,961	52
Education Loan Interest Warrants Payable Account	82,36,311	71
Interest Receivable Account	...	...
Interest Accrued but not paid	1,13,361	11
Investment of Surplus Monies in Public Securities	...	...
Loan Redemption Fund Account	27,50,100	00
Unclaimed Dues and Deposits (Refundable) Account	40,040	00
Advances from surplus monies for financing Capital Work Expenditure pending raising of New Loans	...	...
Interest on Loans Payable Account.	1,25,202	50
Total—Deposit etc.	74,53,657	00
Total—Suspense Receipts	78,11,20,710	66

APPENDIX No. 70—(Contd.)

EXPENDITURE—A. REVENUE ACCOUNT		Rs.	P.
A.—General Supervision and Administration	...	74,77,175	16
B.—Municipal Primary Schools	...	24,75,90,262	73
C.—Private Primary Schools	...	81,70,875	30
D.—Medical Inspection of School Children	...	32,39,350	09
E.—Enforcement of Compulsion	...	3,25,733	09
F.—Educational Activities	...	28,33,992	26
G.—Pension and Provident Fund	...	2,51,39,914	71
I.—New Works	...	1,91,443	26
I.—Debt Charges	...	2,18,29,773	06
K.—Training Facilities for Municipal Teachers	...	98,194	47
L.—Proportionate Cost of Collection of Education Cess	...	8,29,480	00
M.—Extra-Curricular Activities	...	5,93,309	25
O.—Proportionate Cost of C.E.'s Central Planning Staff	...	4,33,301	85
P.—Lumpsum provision for payment of arrears on account of Revision of grades	...	...	...
T.—Lumpsum provision for Deposit tenked Insurance Scheme	...	3,37,088	82
U.—Lumpsum provision Languge Development Project at Gilder Tank	...	..	..
Total—Revenue Expenditure	...	31,90,89,894	05
EXPENDITURE—B.—CAPITAL ACCOUNT			
(1) Loan Funds—	...	2,83,16,428	05
(2) Trust Fund	...	...	...
Total—Capital Expenditure	...	2,83,16,428	05
EXPENDITURE—C.—SUSPENSE ACCOUNT			
Advances to Municipal Officers—			
(a) Standing Advances for Contingent expenditure	...	60,917	16
(b) Motor Cars and Motor Cycles to Officers	...	52,361	00
Dishonoured Cheques	...	9,951	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	...	2,24,94,209	25
Total—Advances	...	2,26,17,438	41
Paper and Cash Account—State Bank of India and other Local Banks including paper Deposits in Office Custody—			
Sinking Fund (Paper and Cash) Account	...	1,20,89,817	24
Endowment Fund (Paper and Cash) Account	...	...	...
Loan Fund (Paper and Cash) Account	...	15,98,244	33
Surplus Fund (Paper and Cash) Account	...	2,77,75,329	01
Sundry Deposits Account	...	7,000	00
Total—Paper and Cash	...	4,14,70,390	58
Deposit Account	...	96,67,602	71
Provident Fund	...	2,77,01,570	44
Pension Fund	...	1,04,52,790	18
Gratuety Fund	...	11,52,862	22
Cheques Payable	...	30,84,70,897	96
Wages Deposit Account	...	...	...
Amount transfered from Education Fund A/c is Municipal General Fund Budget A	...	33,01,93,538	14
Endowment Fund Account	...	...	...
Sinking Fund Account Education	...	28,31,946	82
Education Loan Interest Warrants—Payable Account	...	82,34,562	46
Interest Accrued but not paid	...	81,125	00
Interest Receivable Account	...	...	...
Investment of Surplus Monies in Public Securities	...	...	...
Advance from Surplus Monies for financing Capital Works Expendit ure pending raising of New Loans	...	...	...
Repayment of Loan Account	...	27,50,000	00
Unclaimed Dues and Deposits (Refundable) Account	...	51,340	00
Interest on Loans Payable A/c	...	2,349	25
Total—Deposits etc.	...	70,15,90,585	18
Total—Suspense Expenditure	...	76,56,78,414	17

APPENDIX No. 70—(Concl.)
SUMMARY

Receipts		Account	Disbursements	
Rs.	P.		Rs.	P.
—	17,30,915 66	Opening Balance on 1st April 1981—		
32,06,47,466	23	A.—Revenue Account	31,90,89,894	05
2,10,00,000	00	B.—Capital Account	2,83,16,428	05
78,11,20,710	66	C.—Suspense Account	76,56,78,414	17
1,12,27,68,176	89	Closing Balance on 31st March 1982.	1,11,30,84,736	27
			+79,52,524	96*
1,12,10,37,261	23	Total	Total	1,12,10,37,261 23
			Rs.	P.
*Banks Reconciliation—				
Balance as per Bank's Pass Book			78,099	76
Add—Revenue sent to the Bank on 31st March 1982 but acknowledged on 1st April 1982.			6,435	76
Total			84,535	52
less Uncashed cheques			19,06,270	26
Balance as per Day Book (Col. No. 10)			—18,21,734	74
			Rs.	P.
Balance in Office in Government Promissory Notes etc.			4,005	29
Balance in Office in Cash			97,70,254	41
Collection kept in office			97,74,259	70
Closing Balance as shown at above			+79,52,524	96

REVENUE AND ELECTIONS

(Assessment and Collection Department)

HIGH LIGHT—

I—Money spent on—

(Rs. in lacs).

	City	Suburbs & Extended Subs.	Octroi	Total.
	Rs.	Rs.	Rs.	Rs.
(i) Establishment.	129.72	107.31	100.80	337.83
(ii) Other Expenditure.	36.71*	9.61	9.30	55.62
(iii) Commission to collecting agencies.	..	—	120.13	120.13

* This includes the cost of Rs. 23.91 lacs for billing and accounting on Computer of property tax, water charges and wheel tax bills for City, Suburbs and Extended Suburbs.

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 21.59 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 1980-81.	Collection made in 1981-82.	Excess	Collection made in 1980-81.	Collection made in 1981-82.	Excess.	
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
93.25	100.48	7.23	79.61	93.97	14.36	21.59

The property taxes and 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 is a marked improvement in the total tax collection including Government taxes during the year under report in as much as the Department brought Rs. 115.57 Crores as against Rs. 106.38 Crores during the previous year.

The total demand of Municipal Property taxes, including water charges and wheel tax is Rs. 162.23 Crores whereas the total outstanding which includes arrears of past and previous years is Rs. 61.75 Crores. These arrears include settled demand as well as unsettled demand. 50% of these arrears is generally recovered during the subsequent year and balance amount remains locked up on account of various reasons shown under the statement (Appendix No. 8).

The finalisation of Rateable Value of Railway properties for the period from 1st April 1959 onwards is under process. The Railway authorities, in the meantime, have agreed to make an *ad-hoc* payment of Rs. 14.35 lacs for every year. (Rs. 8.95 lakcs for Central Railway and Rs. 5.40 lacs for Western Railway).

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

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

Building Repairs Cess :—Repairs Cess collected during the year 1981-82 is Rs. 5.94 Crores.

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

Under the aforesaid Act, the State Government has levied from 1-4-74 retrospectively a tax on residential premises having floorage of more than 125 Sq. Mtrs. and the Rateable Value thereof being more than Rs. 1,500/- at the rate of 10% of the Rateable value per year. The work of levy and recovery of this tax is entrusted to Assessment & Collection Department. The department has collected Rs. 1,03,10,000/- during the year 1981-82.

Octroi :—In 1981-82, the rates of Octroi continued to be the same as those for the period from 1-4-80 to 31-3-81, except for the two items, i.e. No. 16 and 37 of the Schedule 'H'.

Octroi collection during the year 81-82 amounted to Rs. 93.97 Crores as against the amount of Rs. 79.61 Crores during the year 1980-81. This shows an increase of Rs. 14.36 Crores in Octroi collected on 1981-82 over the Octroi collection for the preceding year.

Figures are shown hereunder for comparison :—
(Figures in Crores).

	Years			Increase over 1980-81
	1979-80	1980-81	1981-82	
	Rs.	Rs.	Rs.	Rs.
(1) Gross Collection	73.31	79.61	93.97	+14.36
(2) Less Refunds.	5.99	7.57	8.28	+0.71
(3) Net Revenue	67.32	72.04	85.69	+13.65
(4) Fees for stamping.	0.014	0.009	0.006	-0.003
(5) Fees in respect of Refunds.	0.63	0.84	0.92	+0.08
(6) Departmental Collection.	49.12	56.57	64.42	+7.85

1,25,330 claims for refund of Octroi on goods exported out of Greater Bombay, were received during 1981-82, as compared to 1,10,040 claims received in the year 1980-81.

Election :—An Election Department on temporary basis was created from 20-1-82 for making preparations for the ensuing Municipal General election due in January to March 1983. It was working with a skeleton staff from 20-1-1982 to 31-3-1982.

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

Against the results declared of the Municipal General Elections 1978, 31, Election Petitions were filed in the Small Cause Court under the provision of Section 33 of The Bombay Municipal Corporation Act. Out of these 31 petitions, 12 petitions were disposed of in the year of 1979-80 and 14 petitions were disposed of during 1980-81 and 3 petitions were disposed of during the year under report. Two Petitions had remained undisposed as on 31-3-1982.

P. B. MHASKAR,
Assessor and Collector.

APPENDIX No. 1
RATES OF TAXATION.

Nature of tax.	Percentage	Remarks.
(1) General Tax (including Fire Tax 1½%--2%)	25½ %	In the areas of City, subs. and Extd. subs.
(2) Water Tax	7%	Do.
(3) Water Benefit Tax	5%	Do.
(4) Sewerage Tax	4%	Do.
(5) Sewerage Benefit Tax	3%	Do.
(6) Education Cess.	½% 2½% 3% 5%	For Rateable Value between Rs. 1/- and Rs. 74/- For R. V. between Rs. 75/- and Rs. 299/- For R. V. between Rs. 300/- and Rs. 4,999/- For R. V. Rs. 5,000/- and above.
(7) State Education Cess :-		
Slabs of annual letting value.	In respect of land or bldgs. used or intended to be used for residential purposes.	In respect of land or bldgs. used or intended to be used for non-residential purposes.
(1) On R. V. Rs. 1/- to 74/-.	.. Nil.	.. Nil.
(2) Rs. 75/- or more but no more than Rs. 150/-.	.. 2% of the annual letting value.	.. 4% of the annual letting value.
(3) More than Rs. 150/- but less than Rs. 300/-.	.. 3% of the annual letting value.	.. 6% of the annual letting value.
(4) Rs. 300/- or more but less than Rs. 3,000/-.	.. 4% of the annual letting value.	.. 8% of the annual letting value.
(5) Rs. 3,000/- or more but less than Rs. 6,000/-.	.. 5% of the annual letting value.	.. 10% of the annual letting value.
(6) Rs. 6,000/- or more.	.. 6% of the annual letting value.	.. 12% of the annual letting value.
(8) Water Chrges by Meter measurement in case of properties metered.	The rates chrged for supply of Water by meter measurement ranged between Rs. 2.50 to Rs. 30/- per 10,000 litres according to the user of property.	
(9) Sewerage charges in case of properties metered and sewerd.	50% of the amount of water charges bills.	
(10) Employment Guarantee Cess.	.. At ¼ the rate at which State Education Cess is levied for non-residential portion of lands and buildings.	

APPENDIX No. 2

Statement showing the position of properties during the year 1981-82.

Properties.	City	Subs. and Extd. Subs.	Total
(1) Properties as on 31-3-1982.	.. 61,237	1,52,241	2,13,478
(2) Properties exmpted from G. T.	.. 4,480	2,957	7,437
s newly assessed.	.. 330	5,876	6,206
(4) Properties enlarged.	.. 1,297	2,828	4,125
(5) Properties demolished.	.. 176	371	547

APPENDIX No. 3

Statement of Rateable Value as on 31-3-82. rates of R. V. per head etc.

	City	Subs. & Extd. Subs.	Total
	Rs.	Rs.	Rs.
(1) Rateable Value	.. 85,70,26,696/-	83,53,41,837/-	1,69,23,68,533/-
(2) Population (1981 Census).	.. 32,58,117	49,69,215	82,27,332
(3) Rate per head of population.	.. 263.04	168.10	205.70
(4) Complaints against R. V.	.. 1,744	5,464	7,208
(5) Percentage of Reduction in R. V.	.. 4.97%	13.15%	9.48%
(6) Appeals received against R. V.	.. 789	1,306	2,095
(7) Appeals pending against R. V.	.. 688	1,265	1,953

(2) Water Charges by Meter Measurement including Sewerage Charges (Amount shown in lacs).

Period	Out standings as on 1-4-1981	Amount of bills issued during the year	Gross Demand	amount of bills recalled during the year 1981-82.	Net Demand.	Less : Unsettled demand.	Effective demand.	Collection during the year 1981-82.	Out-standings as on 31-3-1982	Percentage of collection to effective demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Div.-I-City.										
Upto and 1979-80	318.18	70.94	389.12	70.96	318.16	..	..	86.13	232.03	
1980-81	294.47	62.81	357.28	122.09	235.19	..	..	156.25	78.94	
1981-82	..	1,760.96	1,760.96	50.97	1,709.99	..	..	1,371.88	338.11	
Total	612.65	1,894.71	2,507.36	244.02	2,263.34	..	..	1,614.26	649.08	

Div.-II-Subs. and Extd. Subs.

Upto and 1979-80	557.34	60.83	618.17	115.76	502.41	..	..	144.38	358.03	
1980-81	274.06	148.09	422.15	83.66	338.49	..	..	230.32	108.17	
1981-82	..	1,905.30	1,905.30	222.32	1,682.98	..	..	1,355.48	327.50	
Total ..	831.40	2,114.22	2,945.62	421.74	2,523.88	..	..	1,730.18	793.70	

(3) Sewerage Charges (Amount in Lacs)

Upto and 1979-80	76.90	17.08	93.58	8.98	84.60	..	..	26.31	58.29	..
1980-81	52.45	10.23	62.68	5.22	57.46	..	..	39.23	18.25	..
1981-82	..	475.73	475.73	7.15	468.58	..	..	386.31	82.27	..
Total ..	128.95	503.04	631.99	21.35	610.64	..	..	451.85	158.79	..

Div.-II-Subs. and Extended Subs.

Upto and 1979-80	109.62	5.74	115.36	21.24	94.13	..	..	16.08	78.09	..
1980-81	33.23	11.89	45.12	6.80	38.32	..	..	21.38	16.94	..
1981-82	..	265.00	265.00	16.89	248.11	..	..	159.76	88.35	..
Total :	142.85	282.63	425.48	44.93	380.55	..	..	197.17	183.38	..

(4) Wheel Tax (Amount in Lacs).

Div.-I-City.

Upto and 1979-80	281.78	4.11	285.89	7.75	278.14	..	..	13.54	264.60	..
1980-81	81.09	6.94	88.03	2.30	85.73	..	..	16.32	69.41	..
1981-82	..	199.78	199.78	3.94	195.84	..	..	103.94	91.90	..
Total ..	362.87	210.83	573.70	13.99	559.71	282.00	277.71	133.80	425.91	48.10

Div.-II-Subs. / Extd. Subs.

Upto and 1979-80	199.62	2.31	201.93	1.57	200.36	..	..	7.60	192.76	..
1980-81	56.64	3.60	60.24	1.11	59.13	..	..	9.87	49.26	..
1981-82	..	96.22	96.22	1.27	94.95	..	..	35.41	59.54	..
Total :	256.26	102.13	358.39	3.95	354.44	203.20	151.24	52.88	301.56	34.96

(5) Water Tax (Amount in Lacs)

Div.-I-City.

Upto and 1979-80	71.84	2.38	74.22	6.95	67.27	..	..	15.33	51.94	..
1980-81	48.49	4.68	53.17	10.59	42.58	..	..	18.51	24.07	..
1981-82	..	251.23	251.23	27.61	223.62	..	..	164.90	58.72	..
Total :	120.33	258.29	378.62	45.15	333.47	..	..	198.74	134.73	..

Div.-II-Subs. and Extended Subs.

Upto and 1979-80	58.00	0.33	58.33	4.80	53.53	..	..	0.83	52.70	..
1980-81	11.49	0.37	11.86	1.21	10.65	..	..	1.20	9.45	..
1981-82	..	37.84	37.84	0.60	37.24	..	..	23.52	13.72	..
Total ..	69.49	38.54	108.03	6.61	101.42	..	..	25.55	75.87	..

(6) Water Benefit Tax (Amount in Lacs).

Period	Out standings as on 1-4-1981	Amount of bills issued during the year	Gross Demand	amount of bills recalled during the year 1981-82.	Net Demand.	Less : Unset- tled demand.	Effect- tive demand.	Collection during the year 1981-82.	Out- standings as on 31-3-1982	Percentage of collection to effective demand.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Div.-I-City.										
Upto and 1979-80	109.44	9.62	119.06	11.61	107.45	..	..	36.60	70.85	..
1980-81	65.41	6.62	72.03	9.88	62.15	..	..	33.62	28.53	..
1981-82	..	457.86	457.86	35.94	421.92	..	..	360.33	61.59	..
Total ..	174.85	474.10	648.95	57.43	591.52	..	..	430.55	160.97	..
Div.-II-Subs. and Extended Subs.										
Upto and 1979-80	287.03	15.27	302.30	11.48	290.82	..	..	33.49	257.33	..
1980-81	127.18	25.70	152.88	27.08	125.80	..	..	45.08	80.72	..
1981-82	..	438.83	438.83	46.21	392.62	..	..	273.35	119.27	..
Total ..	414.21	479.80	894.01	84.77	809.24	..	..	351.92	457.32	..

(7) Sewerage Tax
(Amount in Lacs)

Div.-I- City										
Upto and 1979-80.	116.03	1.98	118.01	4.33	113.68	..	..	32.72	80.96	..
1980-81	55.19	2.92	58.11	6.75	51.36	..	..	20.64	30.72	..
1981-82	..	191.96	191.96	17.12	174.84	..	..	122.12	52.72	..
Total ..	171.22	196.86	368.08	26.20	339.88	..	..	175.48	164.40	..
Div.-II-Subs. & Extended Subs.										
Upto and 1979-80	241.92	3.28	245.20	17.61	227.59	..	..	25.24	202.53	..
1980-81	78.25	17.01	95.26	17.47	77.79	..	..	24.24	53.55	..
1981-82	..	264.36	264.36	30.48	233.88	..	..	160.33	73.55	..
Total ..	320.17	284.65	604.82	65.56	539.26	..	..	209.81	329.45	..

(8) Sewerage Benefit Tax
(Amount in Lacs)

Div.-I-City										
Upto and 1979-80	77.50	6.05	83.55	6.99	76.56	..	..	24.56	52.00	..
1980-81	40.45	4.44	44.89	6.56	38.33	..	..	22.26	16.07	..
1981-82	..	276.33	276.33	22.62	253.71	..	..	209.28	44.43	..
Total ..	117.95	286.82	404.77	36.17	368.60	..	..	256.10	112.50	..
Div.-II-Subs. & Extended Subs.										
Upto and 1979-80	199.00	9.38	208.38	13.34	195.04	..	..	39.88	155.16	..
1980-81	74.68	15.91	90.59	14.56	76.03	..	..	33.20	42.83	..
1981-82	..	268.34	268.34	28.49	239.85	..	..	172.60	67.25	..
Total ..	273.68	293.63	567.31	56.39	510.92	..	..	245.68	265.24	..

APPENDIX No. 6

Statement showing Total Demand, Collection and outstandings of Government Taxes and Cess during 1981-82

(1) State Education Cess

(Amount in Lacs)

Period	Out-standings as on 1-4-81	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 1981-82	Out-standings as on 31-3-82	Percentage of collection to effective demand.
Div.-I—City.										
Upto and 1979-80	202.40	10.24	212.64	16.31	196.33	..	..	47.05	149.28	..
1980-81	123.04	14.33	137.37	20.47	116.90	..	..	67.52	49.38	..
1981-82	..	788.34	788.34	67.48	720.86	..	..	587.66	133.20	..
Total	..	325.44	812.91	104.26	1,034.09	..	..	702.23	331.86	..
Div.-II—Subs. & Extd. Subs.										
Upto and 1979-80	493.46	7.81	501.27	57.24	444.03	..	..	53.18	390.85	..
1980-81	193.56	45.82	239.38	52.40	186.98	..	..	54.61	132.37	..
1981-82	..	635.12	635.12	72.16	562.96	..	..	401.43	161.53	..
Total	..	687.02	688.75	1,375.77	1,193.97	..	..	509.22	684.75	..

(2) Urban Immovable Property Tax

(Amount in Lacs)

Div.-I—City										
Upto and 1962-63	0.48	..	0.48	..	0.48	..	..	0.05	0.43	..
Div.-II—Subs. & Extended Subs.										
Upto and 1962-63	2.84	..	2.84	..	2.84	..	..	0.07	2.77	..

(3) Statement showing demands collection and outstandings of Employment Guarantee Cess during 1981-82.

(Figures in Lacs)

Div.-I—City										
Upto and 1979-80	14.84	2.79	17.63	3.76	13.87	..	..	1.87	12.00	..
1980-81	31.23	3.35	34.58	4.55	30.03	..	..	15.90	14.13	..
1981-82	..	151.73	151.73	13.29	138.44	..	..	112.13	26.31	..
Total	..	46.07	157.87	203.94	182.34	..	..	129.90	52.44	..
Div.-II—Subs. & Extended Subs.										
Upto and 1979-80	50.96	0.89	51.85	1.07	50.78	..	..	2.83	47.95	..
1980-81	25.91	6.10	32.01	4.68	27.33	..	..	7.24	20.09	..
1981-82	..	84.22	84.22	7.36	76.86	..	..	45.27	31.59	..
Total	..	76.87	91.21	168.08	154.97	..	..	55.34	99.63	..

(4) The Additional State Education Cess

(Amount in Lacs)

Div.-I—City										
Upto and 1973-74	0.95	0.02	0.97	0.03	0.94	..	..	0.10	0.84	..
Div.-II—Subs. & Extended Subs.										
Upto and 1973-74	8.16	0.04	8.20	0.05	8.15	..	..	0.40	7.75	..

(5) Total Demand, Collection and Outstandings of Repairs and Reconstruction Cess during the year 1981-82 for the City Wards

(Figures in Lacs)

Past and Previous Years.										
Category 'A'	695.15	71.72	766.87	57.10	909.77	..	..	233.63	476.14	..
'B'	76.44	4.33	80.77	3.92	76.85	..	..	20.86	55.99	..
'C'	117.76	4.19	121.95	2.65	119.30	..	..	29.88	89.42	..
Total	..	889.35	80.24	969.59	63.67	905.92	..	284.37	621.55	..
Current Year 1981-82										
'A'	..	573.98	573.98	70.61	503.37	..	..	252.96	250.41	..
'B'	..	46.69	46.69	4.64	42.05	..	..	21.55	20.50	..
'C'	..	76.21	76.21	8.89	67.32	..	..	35.22	32.10	..
Total	..	696.88	696.88	84.14	612.74	..	..	309.73	303.01	..
Grand Total	..	889.35	777.12	1,666.47	147.81	1,518.66	..	594.10	924.56	..

APPENDIX No. 7

(Bills issued during the year 1981-82)

	City		Subs. and Extd. Subs.		Grand Total	
	Past and Previous Years	Current Year	Past and Previous Years	Current Year	Past and Previous Years	Current Year
	No. of Bills	No. of Bills	No. of Bills	No. of Bills	No. of Bills	No. of Bills
(1) Property Taxes	3,726	1,21,618	11,401	2,97,453	15,127	4,19,071
(2) Water charges by Meter Measurement including Meter Hire	3,490	74,231	35,249	2,27,549	38,739	3,01,780
(3) Wheel Tax	13,111	1,41,525	7,153	79,061	20,264	2,20,586

APPENDIX No. 8

(A) Break up of arrears of settled and effective demand of Municipal property taxes including Water Charges, Sewerage Charges, Water Benefit Tax, Sewerage Benefit Tax, Wheel Tax but exclusive of State Education Cess and Additional State Education and Employment Guarantee Cess as on 31st March 1982

(Rs. in Lacs)

	City	Suburbs and Extended Subs.	Total
	Rs.	Rs.	Rs.
(1) Government and Dy. Custodian of Evacuee properties	258.17	275.92	534.09
(2) Bombay Port Trust	88.06	4.21	92.27
(3) B.M.C. Impts. and other Municipal Departments	36.73	18.61	55.34
(4) Properties under attachment	202.37	176.98	379.35
(5) Amounts involved in respect of unauthorised structures and hutments	19.62	699.70	719.32
(6) Amounts due from BEST Undertaking	3.72	2.14	5.86
(7) - Instalments allowed	35.84	43.64	79.48
(8) Monthly tenancy structures	9.04	77.57	86.61
(9) Amount held in deposit	15.56	54.05	69.61
(10) Other ratepayers :			
(a) Property taxes	242.22	1,178.40	1,420.62
(d) Wheel Tax	143.68	98.35	242.03
Total	1055.01	2,629.57	3,684.58

- Re: (1) Payment was not received from Government Department before 31st March 1982. The Dy. Custodian of Evacuee properties pays as and when Fund permits.
(2) The payment was not received before 31st March 1982.
(3) The amounts await adjustments.
(4) Properties have been attached and steps have since been taken to expedite the sale of properties attached.
(5) Since the numbering of hutments, recovery has received, further setback and the arrears mounted up. The position may improve only when the question is finally settled and compensation recovered from hutment dwellers is made available.
(6) The matter is under correspondence.
(7) The recovery would be effected in due course.
(8) There are various difficulties for effecting recovery of taxes in respect of monthly tenancy structures.
(9) Amount awaits adjustments.
(10) The recovery is in progress.

(B) Break up of unsettled and provisional demand of Municipal Property Taxes including Water Charges, Sewerage Charges, Water Benefit Tax, Sewerage Benefit Tax, Wheel Tax but exclusive of State Education Cess and Additional State Education Cess and E. G. Cess as on 31-3-1982

(Rupees in lacs)

	City	Suburbs and Hxtd. Suburbs	Total
	Rs.	Rs.	Rs.
(1) Railways	50.17	37.75	87.92
(2) Court Receiver, Official Assignee etc.	28.75	35.37	64.12
(3) Suits Filed, Injunctions, appeals and Writ Petitions against Rateable Value	294.26	154.87	449.13
(4) Complaints against Rateable Value	319.69	270.07	589.76
(5) Disputed Property Taxes	170.86	102.36	273.22
(6) Disputes regarding Wheel Tax	282.00	203.20	485.20
(7) Bills issued at the fag end of the year	288.26	251.69	539.95
(8) Arrears of taxes carried forward from the records of the defunct Local bodies .. .. .	...	1.32	1.32
Total	1433.99	1056.63	2490.62

- Re: (1) The Railways have made on account payment of Rs. 8.95 lacs, during 1981-82. The question of Assessment of Railway properties for the quinquennium 1-4-1959 to 31-3-1964 and for the subsequent quinquennia is still pending and is being pursued with the Railway authorities.
(2) The payments are made when funds are available.
(3) The matter is pending before the Court and recovery would be effected as and when appeals and Writ Petitions before the Court are disposed of.
(4) Complaints are pending and the payments can be demanded after disposal of complaints against R. V.
(5) The matter is under correspondence.
(6) The matter is under correspondence.
(7) The recovery is in progress
(8) Most of the properties no longer exist nor the owners are traceable.

APPENDIX No. 9

(A) Cinema Theatres and Tax

	Class-I	Class-II	Total	1980-81	1981-82
City	63	1	64	Rs. 18,61,388.00	Rs. 18,41,631.00
Subs. and Extd. Subs.	62	..	62	16,78,908.00	16,96,204.00
Total	125	1	126	35,40,296.00	35,37,835.00

(B) Vehicles and Animals taxed under Public Conveyance Act

(a) Hack Victorias (2 Horses each)	201
(b) Labour Carts (With pair of Bullocks)	316
(c) Hand Carts	12,338
Total	12,855

Vehicles and Animals taxed during the year 1981-82

Vehicles or Animals taxed in the year	No.	Vehicles or Animals taxed in the year	No.
(1) Motor Cycle Solo	64,191	(11) Taxis	28,005
(2) Motor Cycle with side car	5,017	(12) Passenger buses	1,428
(3) Trade Certificates	37	(13) Ambulance	106
(4) Motor Lorries	21,677	(14) Others .. .. .	..
(5) Delivery Van	10,176	(15) Four Wheeled vehicles drawn by animals	41
(6) Tractor	477	(16) Two Wheeled vehicles drawn by animals	154
(7) Tanker	514	(17) Hand Carts	12,116
(8) Cranes	373	(18) Horses	95
(9) Motor Tractor	241	(19) Ponies	677
(10) Motor Cars	1,19,424	(20) Bullocks	667
		Total	2,65,416

APPENDIX No. 10

Classification of properties according to Rateable Value

Rateable Value	No. of Properties	
	City	Subs. and Extd. Suburbs
Below Rs. 200	8,362	29,207
Between Rs. 201 and Rs. 300	2,708	17,064
Below Rs. 301 and Rs. 400	2,944	12,788
Between Rs. 401 and Rs. 500	2,689	10,462
Between Rs. 501 and Rs. 750	4,008	12,365
Between Rs. 751 and Rs. 1,000	3,628	9,464
Between Rs. 1,001 and Rs. 1,500	4,419	11,285
Between Rs. 1,501 and Rs. 2,000	3,999	9,872
Between Rs. 2,001 and Rs. 5,000	10,058	12,045
Between Rs. 5,001 and Rs. 10,000	7,248	9,788
Between Rs. 10,001 and Rs. 20,000	4,841	7,094
Between Rs. 20,001 and Rs. 30,000	1,820	3,925
Between Rs. 30,001 and Rs. 40,000	1,077	2,435
Between Rs. 40,001 and Rs. 50,000	685	1,860
Between Rs. 50,001 and Rs. 1,00,000	1,189	1,444
Between Rs. 1,00,001 and Rs. 1,50,000	494	686
Between Rs. 1,50,001 and Rs. 2,00,000	313	206
Between Rs. 2,00,001 and Rs. 2,50,000	167	110
Between Rs. 2,50,001 and Rs. 3,00,000	298	56
Between Rs. 3,00,001 and Rs. 3,50,000	177	42
Between Rs. 3,50,001 and above	113	43
Total	61,237	1,52,241

EDUCATION DEPARTMENT

It is the obligatory duty of the Municipal Corporation of Greater Bombay, as per the Act, to provide of Primary Education to the children of school-going-age of 6-11 and this responsibility is carried out by the Education Department of the Corporation right from 1907.

In addition to Primary Education, just to give helping hand to the Government, the Corporation also undertook to run Secondary School since 1965.

The entire supervision and administration of the Department was carried out by the Education Officer, Smt. K. N. Kamat, M.A.M.Ed. as the Head of the Department, with the assistance of Officers on academic side as well as the administrative staff. Below is given the Organisational Chart of the Department :

Education Officer				
A.O. -Office) & other Office Staff	Superintendents <hr/> Best Inspectors	Research Officer <hr/> Assistant Research Officers	Senior Supervisor, Physical Instruction <hr/> Supervisor, Phy. Instn.	Administrative Officers (Schs.)

The following table gives a bird's eye view of the no. of Schools with Students and teachers language wise which are being run by the Municipal Corporation of Greater Bombay.

As on 31st March 1982.

	No. of Municipal Primary Schools and Teachers									Municipal Recgd. and Aided Schools											
	City			Suburbs			Ext. Suburbs			City				Suburbs				Extd. Suburbs			
	Schs. & Classes.	Pupils.	Trs.	Schs. & Classes.	Pupils.	Tea-chers.	Schs. & Classes.	Pupils.	Trs.	Recg.		Aided		Recgd.		Aided		Recgd.		Aided	
										Schs.	Pupils.	Schs.	Pupils.	Schs.	Pupils.	Schs.	Pupils.	Schs.	Pupils.	Schs.	Pupils.
Marathi ..	462	1,48,456	4,087	192	1,52,582	3,752	199	85,296	2,117	22	10,307	34	11,432	22	3,668	46	18,655	10	2,010	21	6,357
Gujarati ..	72	15,560	455	56	18,311	535	49	21,854	634	27	8,750	35	7,395	22	4,893	18	8,802	17	4,695	..	1,340
Urdu ..	109	39,724	1,054	82	50,051	1,191	24	11,055	278	..	256	11	3,599	5	1,280	3	850	..	..	..	..
Hindi ..	56	23,398	629	71	36,553	938	40	18,958	531	..	..	11	3,671	4	1,052	11	3,536	4	788	7	2,435
Tamil ..	14	4,785	106	14	4,173	99	12	3,566	87	2	156	2	480	..	..	..	..	1	421	..	..
Talugu ..	19	7,470	187	14	2,356	60	12	2,015	56	..	..	..	..	..	..	..	..	..	..	..	..
Kannad ..	20	3,436	105	23	5,844	178	10	3,734	115	1	78	5	612	..	..	..	..	..	..	1	137
English Primary ..	20	6,607	166	12	4,058	107	6	2,134	51	127	44,258	32	12,905	129	58,998	35	11,395	58	19,774	7	78,458
Sindhi ..	1	35	4	2	313	19	3	151	13	1	67	..	..	..	..	1	225	..	..	..	..
Malyalam ..	..	..	..	3	62	1	..	26	..	78	78	1	256	..	..	..	..	1	186	..	..

The population of this Metropolitan City is increasing every year and it also reflects in the growth of student population at all levels. In the month of June/July 1981-82, the Education Department had conducted a quinquennial census of non-attending children of the school going age and under the Census Year it was found that 8,767 children were out of school. During the Census period, the Officials of the Department tried their level best to bring the non-attending children to the schools.

Year of Census

1976-77		1981-82	
No. of non-attending traced.	No. of pupils enrolled.	No. of non-attending traced.	No. of pupils enrolled.
22,099	7,608	13,368	46,01

In the year 1981-82, about 400 children apart for those noted above were also enrolled in the Non-formal Education/Part-time Schools with tailoring as a main subject. Majority of the non-attending children do not get enrolled themselves in the schools because of the socio-economic reason.

In the Census Year of 1976-77, it was found that certain localities of S. T. K/East, K/West, M Wards were badly in need of more schools. During this period, therefore, many more classes/rooms were constructed under the Slum Improvement Scheme and this has helped the children to get themselves enrolled even in regular schools.

SCHOOLS PREMISES

In order to meet the needs of Education of all the children, the Corporation has a planned programme of construction of school buildings. The position of the school premises is shown in the below given statement :

	31st March 1981		31st March 1982	
	No. of premises.	No. of Schools meeting in-	No. of premises.	No. of Schools meeting in
1. Municipal owned	297	898	301	926
2. Rented Buildings	372	395	372	385
3. Rent Free Buildings	22	25	23	22

The construction of additional class-rooms has helped in reducing the congestion in the class rooms.

TEACHERS

Every year, the Department has to recruit new teachers due to increase in the number of students as also for those who are superannuated.

Private Primary Schools :

In addition to our own Municipal Schools, the Department is controlling private primary schools by way of giving them recognition and grant. The No. of students in Private Primary Schools is also increasing.

Special Education :

In addition to the normal school children, the Corporation is conducting special education classes especially for mentally retarded children and 2 Centres for Deaf and Dumb are also conducted with the assistance of Nair Hospital and L.T.M.G. Hospital.

31st March 1981 31st March 1982

No of Classes	14
No of Students	449

In addition to the Primary Schools, the Department is conducting two Junior Colleges of Education for Urdu Teachers-one for males and one for females-at Mahim and Imamwada respectively.

Information regarding Junior Colleges of Education

	No. of students	1st Year D.Ed.	2nd Year D.Ed.		Teaching Staff
Municipal Urdu Teachers Junior College of Education, Mahim.	77	40	37	1	Principal. 4 full-time Instructors. 1 part-time Instructor. 2 Special Teachers. Special Teachers.
Junior College of Education Imamwada.	152		76	1	Head Mistress. 10 full-time Instructors. 2 part-time Instructors for Physical Education. 2 Special Teachers for Sewing, Drawing and Music.

Different activities of the Department organised through different sections-

Name of the Section	Activity	No. of participants/beneficiaries (1981-82)
Physical Education Section.	(i) Annual Sports ..	1,10,000
	(ii) Games Competitions ..	5,555
	(iii) Drill Competitions ..	16,542
	(iv) Mass Drill Display ..	24,000
	(v) Educational Excursionn ..	53,384 pupils. 3,596 teachers.
Mentally Retarded Children.	No. of Classes	14
	No. of Students	449
	Addl. Classes opened during the year 1981-82,	1. Dadar (West) 2. Wachanalaya Marg, Dadar. 3. S. G. Barve Marg, Kurla.
Senior Supervisor, Physical Instruction.	Physical Training Institute ..	300 teachers completed the training in 3 batches from June 1981 to March 1982.
	R.S.P Unit ..	Old Units : 35 New Uni : 35 Pupils : 3,360 Ins'tructors : 70 Pupils : 600
	A training camp was conducted. Training was given with the help of police personnel.	
	Scout Guide Activities ..	Cub : 135 Masters : Cubs : 2,760 Scout : 124 Masters : Scouts : 2,837 Flock : 103 Leaders : Bulbuls : 1,993 Guide : 70 Captains : Guides : 1,659 Companie : 70 Flock : 103
	Mansoon Hikes ..	72 participants,
	Revision Course for D.S.M., D.G.S. & Organisers.	32 participants.
	Patrol Leader Training Camp ..	1,718 Scouts.
	Cub/Bulbul Excussional ..	2,149 alongwith. 356 Teachers.
	Patrol Hikes ..	1,000 children.
	Judges Training Camp ..	121 participants.
Social Service Project ..	1,550 children. 381 teachers.	
Scout/Guide Festivals ..	500	
Balbhavan Centres (No. of Balbhavans : 47).	Programmes :	
	Organizing different games, handicrafts, drawing, painting, floksongs, dramatic eloveation, etc. and othes programmes at all centres after school hours.	45 Centres, 1,690 participants.
Audio Visual Section	Film Shows :	
	No. of film Shows .. No. of students benefitted ..	72,737 4,61,132
Teaching Training ..	Teaching Aid Centre for In-service Teachers.	1 Centre. 300 teachers in 3 batches.
	Teaching Aid Centre at Gilder Tank prepared different teaching aids.	1 Centre. 4,000 teaching aids.
	Printing Section of Teacing Aid Centre printed 'Ankur' and 'Pallav' magazines and different invitation cards for all the activities of the Department for its programmes, etc.	6,000 copies in different languages.

Name of the Section	Activities	No. of participants/beneficiaries
Language Development Project.	(1) Teacher Training consisting of enrichment, programmes in mother tongue teaching and intensive training courses in English, Hindi Marathi as Second Language during Diwali and Summer Vacations.	712
	(2) A two-week training programme in English for Beat Inspectors of the Department.	7
	(3) Work of compilation of Functional Dictionary in Hindi with equivalent words in 7 languages.	14
Language Development Project.	Teacher Training Programme A two-day Workshop on "Notions about grammar and grammar teaching and on "Phrasal Verbs" was conducted with the help of Prof. Frank Palmer, a British Council Consultant.	23
	A three-day Workshop for evolving the tools of "Evaluation" was held.	10
	Production of Instructional materials	
	Preparation of supplementary reading material etc. work books, handbooks and achievement test for Std. V to VII (comprehensive test in English).	30 Unit Tests. 3 Achievement Tests.
	Corrspondence Course for Teaching of English.	42 lessons alongwith taped material.
	Research and Evaluation Activities	
	(1) Study of Koli Language in Versova for Primary Marathi School.	1 (activity carried out throughout the year).
	(2) Comparative Study of :Teluge-Marathi, Kannad-Marathi, Tamil-Marathi in order to help the non-Marathi Teachers for helping them in teaching of Marathi.	3 (projects - continued for 2 years).
	Study of distribution of text books to Municipal Primary Schools :	
Research Unit	A sample survey of distribution of text-books of all languages and in all subjects of the curriculum was undertaken with a view to study the distribution of new and old text-books to children of Municipal Primary Schools.	
	Project of Wastage and Stagnation :	
	Preliminary work regarding the study of the phenomenan of wastage and stagnation in Municipal Primary Schools is started and necessary data is collected.	

Name of the Section	Activities	No. of participants/beneficiaries
Research Unit	<p>Evaluation study of the six-weeks programme</p> <p>Preliminary work regarding the evaluation of the six-weeks programme was undertaken and the data is collected from about 100 different language schools.</p> <p>A small survey-following of students for vocational schools-to know the trend of students of education after completion of primary education was conducted.</p>	
Music and Academy.	<p>Art Imparted training to the regular trainees of the In-service Training Course.</p> <p>Arranged Music Competitions for Municipal School Children.</p> <p>Art Academy :</p> <p>Lecture-cum-demonstration programme</p>	<p>about 300 trs.</p> <p>about 4,471 students.</p> <p>200 trs.</p>

**The School Social Service Project
and
Non-Formal Education Classes**

Activities :

School Social Service Centres at all the 15 I.Y.C. Centre Schools spread over 10 wards (E, F/South, G/North, H/East, K/East, P/North, L, M, N, and S) continued rendering valuable service for the benefit of parents, pupils and schools. A total No of 22 fully-qualified Social Workers and 9 para-professional Workers were engaged in this work which was supervised by Administrative Officer (Schools) (Co-ordination). As in the previous year, *i.e.* 1980-81, the job of providing the Social Service and expert guidance was entrusted to Nirmala Niketan College of Social Work, Bombay 300 020, on contract basis.

The main features of this programme are as follows :

Serial No.	Name of the Activity	Objective	Beneficiaries			Youth of the locality.
			Parents	Pupils	Trs.	
1	Study-Classes (94)	To provide space and guidance to the needy pupils to raise their education achievements.	..	4,000	..	..
2	Non-Formal Education Classes.	To bring non-entrants and school drop-outs to the fold of education and provide them with needbased education with/without vocational bias.	..	4,000	..	..
3	Case-work—					
	(i) School dropouts	To trace, contact and bring the dropouts back to schools.	..	Referred 1,500 Contacted 700 Brought back to schools. 500	..	..
	(ii) Problem cases	To study the behaviour problems and other problems of pupils and to bring about improvement.	..	Referred 700 Improvement shown. 350	..	..

(iii) Medico referral work.	To help the pupils to enjoy better health in collaboration with civic/private Doctors/Hospitals.	..	3,100	..	..
4 Recreation Centres	To provide healthy channel of entertainment and facility to learn skills in Arts and Sports.	..	600	..	..
5 Nutrition Programme	To help the acutely malnourished pupils enjoy better health, raise their standard of edcn. achievement and to minimise the rate of school dropouts.	..	2,500	..	..
6 Vocational Guidance	To help pupils understand employment possibilities and requirements and thereby raise their interest/s'andard in schoolastic achievement.	..	1,200	..	..
7 Day Camps, Sports/Trips for pupils and Fun-fairs for locality.	To establish better report between school and locality. To provide health channel of entertainment-cum-community living to pupils. To involve parents/Local Youths/Outside institutions in school activities.	1,000	2,000	300	500
8 Parents Meetings— (i) With Trs.	To understand the problems of of parents.	1,600	..	500	..
(ii) Group meeting with Social Workers.	To make them aware of their responsibilities towards their Wards and School,				
(iii) Parents Education Programme.	To educate them in Hygeiene, Nutrition, Civic, etc.				
9 Youth Activities	To involve the Youth with school activities and to involve into them a sense of belonging and desire to work responsibly.	..	..	..	500
10 Family Assistance	To provide financial/social help to every acutely needy family through private sponsorship in cash of kind and thereby to restrict the rate of school dropouts.	40	..	..	..

School Health Service for the year 1981-82.

Medical Inspection	2,44,276	children examined.
in	1,103	primary schools.
in	34,084	children examined
	48	secondary schools.
	11,543	case treated at Muni-
		cipal General Dis-
	1,06,790	pensaries.
		cases (New and old)
		treated at school
	16,085	clinics.
		guardians were advised
		to take action re : the
	4,473	treatment.
		children referred to
		OPD to Municipal
		General Hospitals for
	258	expert opinion
		tonsils operations
		performed at school
		clinics.
	688	children supplied with
		spectacles.
	45	children supplied with
		special aids such as
		calipers, hearing aid,
		e*c.
	338	suspected cases of
		leprosv and
	440	of T.B. referred to the
		special clinics.

Major defects noted.

Major Defect	Percentage	Major Defect	Percentage
Dental	55.42	Heart and Circulation	0.27
Throat	11.27	Lungs and Tuberculosis	1.53
Nose	9.16	Spleen	0.07
Eye (External Diseases)	1.94	Skin	5.69
Eye (Vision)	1.14	Deformity of Bones	2.72
Ear Diseases	3.39	General Desability	30.43
Enlarged lymphatic Glands	25.76	Deficiency of Vitamins	11.33
		Other diseases	3.06

Health Education was imparted to about 25,000 parents and teachers, 20,024 domiciliary visits and revisits were paid. Health parade, health ministry and health trophy competition were arranged in schools in different Wards with a view to inculcate health habits amongst the children.

Immunization work done

(a) Diphtheria and Titanus	1 st dose	1,48,139
(b) B. C. G. Vaccination	2nd dose	1,24,655
(c) T.A.B.		2,72,786

Other Programmes and Activities
Teacher Training

Senior Teachers for Dy. H. Ts. posts	100	Marathi Senior Teachers.
Ten-Weeks Sequential Programme for Teachers	300	Teachers participated.
Preparation of school puppets	20	Teachers.
One Week's pre-service training to the newly recruited teachers.		
Training through Correspondence		
Deputation of 1 Instructor and 4 Teachers for one month to Cultural Centre in Delhi for training in puppetry and use of puppetry in regular teaching.		

Drawing Competitions :

About 20,000 students participated.

Elementary and Intermediate Examinations :

No. of students appeared	3,665
No. of students passed	2,150

Scholarship Examinations

No. of Students appeared

High School Scholarship Examination	Middle School Scholarship Examination
2,034	2,944
4,978	

One boy Shri Arshad Huscin stood 11th in order of merit in the Secondary Examination in 1982 from Malwani Municipal Secondary School.

Out of the total No. of 4,978 students, 14 have obtained Government Scholarships securing marks between 82 per cent and 74 per cent in Bombay (proper) and between 61 per cent and 61 per cent in rural areas of Tansa, Modaksagar and Dhamangan. 238 students have obtained 60 per cent and more marks.

Seminars and Conferences :

Conference on 'Value Oriented Education' was organised at departmental level which was inaugurated by His Excellency, the Governor of Maharashtra, Chief Marshall O. P. Mehra.

Total No. of participants 1,000 for general session.

For discussion groups resource persons from different walks of life like film industry, newspapers, literature and from Education Department of Government of Maharashtra and other Social Service Organizations. 200 participants.

Seminars at Beat Level :

Follow-up of the 'Value Oriented Education' Conference in about 29 beats.

Seminars were organised on different types of academic subjects such as Science, Grammar, Arithmetic, English, Essay Writing, Use of Teaching Aids, etc.

Special Seminars for Head Masters were organised in each of the Divisions.

Participation of Officers of the Education Department in different Seminars/Workshops :

(1) Education Officer participated in International Workshop on Long Term Educational Planning organised at NIEP by UNESCO in January 1982.

(2) Seminar on "Applied Psychology" organised by National Association of Applied Psychology was attended in Bombay by Senior Officers.

(3) Education Officer, 3 Superintendents for Marathi and 2 Assistant Research Officers participated in the Conference of Educational Technology organised by Indian Assn. for Educational Technology at Ludhiana.

(4) 3 days Workshop on different Educational Games based on psychological and programmed instructions organised at Staff Training College, Andher'.

Secondary School Section :

No. of Schools	.. ..	51
No. of Classes	.. ..	1,618
No. of Students	.. ..	77,592
Total No. of teaching staff	.. ..	2,500

Different Activities :

Stud. Camp for all the S.S.C. students	.. ..	3,115 participants.
Residential Study Camp for one Week at Nana Chowk.	.. ..	100 participants. (students).

Results of S.S.C. of the Municipal Secondary Schools :

Year	Total result i.e. No. of students passed.	Percentage of passing	No. of students securing more than 70 per cent of marks.
1980-81	2,825	39.59	157
1981-82	3,115	41.01	204

Municipal Award Winner Teachers for 1981-82

Serial No.	Name of the Teacher	Designation	Name of the School
1	Shri Walinjar Haribhau B.	.. Head Tr.	Keshavrao Kadam Marg Vocational UPMS.
2	Smt. Joshi Taramati H. ..	.. Do.	Prabodhankar Thakare UPMS.
3	Shri Kamble Arjun B. ..	.. Dx.	Dr. Babasaheb Ambedkar Marg Municipal School No. 2.
4	Shri Dehlikar Laxman B.	.. Do.	Tilak Marg UPMS.
5	Shri Bholanekar Martand S.	.. Dx.	Shastri Nagar Municipal M.S.
6	Shri Raole Namdeo T. ...	.. Do.	Petit U.P.M.S.
7	Smt. Pandya Tara M. ..	.. Do.	S. L. Marg M.G. S.
8	Shri Pandya Ramlakhan B.	.. Do.	Clerk Road U.P.M.S.
9	Shri Shaikh Ayub Shaikh K.	.. Do.	Pushpa Park Municipal Urdu School
10	Smt. Siddiki Rabia M. ..	.. Do.	Saraswati Baug Municipal Urdu School
11	Smt. Nagarkatti Uma V.	.. Do.	Nanachowk Municipa E.P. School.
12	Shri Usman Gani Ismail ..	.. Dy. H.T.	Khernagar Municipal U.P. Urdu School.
13	Shri Londhe Laxman Y. ..	.. Teacher	Byoulla (W) M.S.
14	Smt. Paranjape Nalini V. ...	.. Do.	Shivaji Park M.S. No. 1.
15	Shri Bhawe Harishchandra Y.	.. Do.	Parel BEST Colony U.P.M.S
16	Smt. Joshi Veena B. ..	.. Do.]	Goxregaon (E) Municipal Primary School No. 1,
17	Shri Ambrite Madhav S. ..	.. To.	Jayantilal Vaishnav U.P.M.S. No.2.
18	Smt. Khedekar Shanta H.	.. Do.	Do.
19	Shri Patel Chotubhai S. ...	.. Do.	J. V. Marg Municipal Guj. School.
20	Shri Bissa Shivkisar ..	.. Do.	Saraswati Bagu U.P.M.S.
21	Smt. Kelkar Padma M. ...	.. Dy. H.T.	G.K. Marg, Municipal Secondary School.
22	Shri Pilankar Bhalchandra N.	.. Drawing Teacher	Prabhadevi Municipal Secondary School
23	Smt. Kulkarni Meena K. ...	.. Spl. Tr.	Agarbazar U.P.M.S.
24	Late Shri Acharekar Sharad B.	.. Spl. Tr.	Pantnagar U.P.M.S. No. 1.

PUBLIC HEALTH

HIGH LIGHTS

Expenditure :	Rs.
(1) Maternity and Child Welfare Centres ..	1,49,43,610
(2) Pre-school and School Health Services ..	1,27,59,064
(3) Prevention and Control of Infectious Diseases, etc. ..	3,28,88,431

Income :—	
Issue of licences, certificates of births, deaths etc. ..	52,17,594
Fines realised ..	..

Control of Food Adulteration :—	
Samples under P. F. A. Act. ..	2,012
Adulterated ..	41
Prosecutions ..	12
Fines realised ..	Nil

Food Establishments :—

	Eating Houses	Bakeries.
Grade I ..	247	3
Grade II ..	889	18
Grade III ..	4,640	403
Without Grade ..	..	..
	5,776	424

Vital Statistics

Births registered		Deaths registered	
(1) Live births ..	2,20,984	(1) Total ..	70,871
(2) Still births ..	6,538	(2) Infant deaths ..	13,449

Notifiable Diseases :—

	Reported Cases	Deaths Registered
Enteric Fever ..	355	35
Polio-myelitis ..	855	107
Infectious Hepatitis ..	1,991	391
Diphtheria ..	91	16
Tuberculosis ..	16,528	8,257
Virus Encephalitis ..	Nil	Nil
Smallpox, Plague and Cholera ..	Nil	Nil
Total ..	19,820	8,806

Immunizations carried out

	1st dose	2nd dose	3rd dose	Booster dose
(1) Anti-typhoid ..	4,66,254	..	..	..
(2) Anti-Cholera ..	2,01,472	..	..	..
(3) B. C. G. ..	1,17,106	..	..	..
(4) Polio ..	1,34,697	98,085	77,157	55,225
(5) Triple ..	1,32,020	94,364	76,513	42,135
(6) Tetanus ..	5,41,541	85,538	34,887	7,008
(7) Diphtheria ..	1,98,984	1,01,450	..	14,160
(8) Measles ..	4,300	..	..	..
(9) Venereal diseases cases treated ..	28,515	..	..	..

HYGIENE :

Maternity and Child Welfare Services :

	Maternity Homes	Maternity Wards	Maternity & Child Welfare Centres
	25	9	39
Deliveries conducted ..	..	..	84,204
Cases treated at Clinics ..	..	..	6,47,739

Family Welfare Units

I. U. C. D. insertions	..	..	..	..	5,536
Vasectomy Operations	..	..	..	..	2,878
Tubectomy Operations	..	..	..	..	16,962
Condoms distributed free	..	..	..	..	10,76,023
Free Dispensaries	152		Mobile Free Dispensaries	20	

Municipal Laboratory

Total samples received	46,234	Water samples	33,832	Samples found unfit for potable purposes.	5,304
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Municipal Hospitals.

	Ind oor	Outdoor
(1) Eye Hospital, Kamathipura—		
(i) New Cases	1,753	38,929
(ii) Total attendance	18,649	1,60,302
(2) 11 Municipal General Hospitals under Executive Health Officer		
(i) New Cases	1,53,017	15,48,016
(ii) Total Attendance	..	54,08,196
(3) Kasturba Hospital for Infectious Diseases		
Total beds	680	..
Admissions	22,633	..

Outside Activities.

New Dispensaries Opened 2

STATISTICS FOR THE YEAR 1981.

	City	Sub urbs	Extended Suburbs	Greater Bombay
(1) Area of Greater Bombay & Island in Sq. Kms.	68.71	192.33	176.67	437.71
(2) Density of population per Sq. Kms. (1981 Census)	47,810	15,983	10,666	18,833
(3) Population Census of 1981	32,85,040	30,73,981	18,84,384	82,43,405
Mid-year estimated (1981)	32,63,000	37,38,000	12,88,000	82,89,000
(4) Total live births registered.	81,441	87,603	51,940	2,20,984
(5) Birth Rate per 1000 population				
} Census of 1981	24.8	28.5	27.6	26.8
} Mid-year estimated (1981)	25.0	23.4	40.3	26.7
(6) Total deaths	34,541	24,039	12,291	70,871
(7) Death rate per 1,000 population				
} Census of 1981	10.5	7.8	6.5	8.6
} Mid-year estimated 1981	10.5	6.4	9.5	8.6
(8) Total deaths among infants (under 1 year.)	5,588	5,116	2,745	13,449
(9) Infant death rate per 1,000 live births.	68.6	58.4	52.8	60.9
(10) Maternal deaths	45	26	22	93
(11) Maternal death rate per 1,000 births	0.6	0.3	0.4	0.4
(12) Still births	2,303	2,766	1,469	6,538
(13) Plague, Cholera, Smallpox, Influenza Deaths.	Nil	Nil	Nil	Nil
(14) Tuberculosis				
} Deaths	4,557	2,537	1,167	8,261
} Death rate	1.4	0.7	0.9	1.0
(15) Acute Anterior Poliomyelitis				
} Deaths	45	41	21	107
} Death Rate	0.0	0.0	0.0	0.0
(16) Diphtheria				
} Deaths	8	4	4	16
} Death rate	0.0	0.0	0.0	0.0
(17) Typhoid				
} Deaths	22	8	5	35
} Death rate	0.0	0.0	0.0	0.0

GENERAL SANITATION

(A) **Food Sanitation** : Food sanitation comprises of control and supervision over the food premises. This control is exercised by imposing a licence under Bombay Municipal Corporation Act, as well as under the Maharashtra Prevention of Food Adulteration Rules, 1962 and by drawing regular samples of food to check adulteration. There is also a special Mobile Van for taking samples at random as a surprise check over the Food Inspectors engaged in sampling work.

(B) **Grading of Eating Houses and Bakeries** : Eating houses and Bakeries are graded as Grade I, II, and III on the basis of marks secured by the Establishments for the observance of the conditions of eating house licences, special arrangements provided and general hygiene. Those who are allotted no grade are prosecuted till they either improve the conditions of their establishment or close down.

(C) **Prevention of Food Adulteration** : This includes sampling of articles of food stored, sold or exposed for sale, etc. for checking adulteration and misbranding of food, under the prevention of Food Adulteration Act, 1954. This work is being done by the Food Inspectors appointed for these purposes. There is a counter check over the Food Inspectors by a Mobile Squad provided with a van for swifter and surprise sampling Establishments of food hawkers also licensed under the Maharashtra Prevention of Food Adulteration Rules, 1962.

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

Solid articles of food including sweets.	Liquid food Litres	Vegetables Kgs.	Fruits Doz.
Kgs.	Litres	Kgs.	Doz.
3,10,410	1,57,390	23,427	27,432

Registration of births and deaths :

Registration of births and 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 1st January 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-Registrars for the respective areas for the purposes of registration of births and deaths.

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

The information of death is required to be given to the Registrar within three days from the date of death. 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 officer of health in the respective ward offices.

VITAL STATISTICS

Births and Birth-rate : Live Births registered during the year were 2,20,984 which were more by 13,476 than for 1980 and above by No. 25,355 over average of the quinquennium 1976-1980. The birth rate was 26.7- per 1000 population.

Death and Death-rate : 70,871 deaths were registered during the year. They were more by 2734 than for 1980 and above by 2859 over the mean mortality of the proceeding 5 years. Deaths from principal causes of deaths are detailed in Table 2. Death rate was 8.6 as against 8.1 for 1980. 19.0 percent of the total deaths were among infants.

Infant Mortality : Deaths among infants under one year of age numbered 13,449 which were less by 184 than in the proceeding year and less by 524 than the annual average of the quinquennium 1976-1980. The infant mortality rate was 60.7 per 1,000 live births against 65.9 in 1980. Details of infant deaths are in Table 3 and 4. The maternal mortality numbered 93, the rate being 0.4 per 1,000 live births as against 0.5 during 1980.

CONTROL OF INFECTIOUS AND COMMUNICABLE DISEASES

Notification : Notifications of infectious diseases numbered 19820 as against 21836 in 1980. Of these 4538 were from the medical practitioners. For details refer Table No. 1. Immunization procedures carried out during the year are detailed in Table No. 1.

Infective Hepatitis caused 1991 attacks (including 95 originating in the other local areas of India) and 391 deaths.

Plague : There was no case of plague.

Rat Control work : Integrated rat control with the employment of combinations of different measures was planned and executed. Total number of rats caught and destroyed was 6,64,843 (including 1,82,681 Rattus Rattus and 2,77,806 Gynoyes Kok) as against 7,65,866 in 1980. No rat was found plague infected.

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

Small-Pox : Small-pox is eradicated from the World as declared by the World Health Organisation. The work of immunization against Small-pox which was hitherto carried out at various centres has been stopped.

Cholera : There was no 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. 201472 persons were inoculated against Cholera.

Influenza : It caused no deaths.

Enteric Fever : The number of notified cases viz. 355 (included 9 originating in other local areas of India) was less by 352 than that in 1980. Number of deaths was 35 as against 68 in 1980.

Acute Anterior Poliomyelitis : 855 cases (including 135 originating in the other local areas of India) and 107 deaths were reported due to this disease.

Diphtheria : 91 cases were notified. Of these 10 were originating in the other local areas of India. 16 cases proved fatal.

Cerebro-spinal Meningitis : No case occurred.

Tuberculosis : T. B. Control Unit continued its activities during the year. Majority of hidden cases have been brought on the register. During the year 16528 T. B. cases were notified and deaths numbered 8257. Services of Health Visitors have been integrated with the services of Treatment Organisers working under Assistant Health Officer (T. B.)

B. C. G. Vaccination : There are two units for B. C. G. Vaccination viz. (1) B. C. G. Technicians carry out vaccination and follow up of vaccinated school children and (2) the Municipal Mat. Homes vaccinate neo-natal cases from private maternity institutions and children with 14 years from the surrounding area.

T. B. Control Campaign : The Jaslok Hospital and Research Centre has organised the T. B. Control Campaign 1982 in Joint Collaboration with the Municipal Corporation of Gr. Bombay, E. S. I. Maharashtra State Anti T. B. Association, Bharatiya Arogya Nidhi etc., to commemorate the centenary of the discovery of Tubercle Bacillus by Robert Koch. The project envisages a massive and intensified campaign for control of pulmonary tuberculosis as well as operational research in the area. The Corporation has agreed to extend full assistance and co-operation of personnel and physical facilities and to bear 50 percent of the cost of drugs X-Ray films in addition to the usual provision for care of T. B. patients.

Dr. A. P. Rao, Medical Superintendent, Group of T. B. Hospitals has been asked to co-ordinate all anti T. B. activities in the City in collaboration with the organisers of the campaign and Dr. P. C. Mehta, Assistant Health Officer T. B. to assist him during the campaign period.

The inauguration ceremony of the Bombay City T. B. Control campaign was arranged in Corporation Hall on 24th March 1982.

Sexually transmitted Diseases

Sexually transmitted diseases were treated at the Municipal sexually transmitted diseases clinic situated at 254, J. B. Boman Behram Marg, Bombay-8 with the latest methods of treatment after proper clinical diagnosis confirmed by Modern Laboratory tests, carried out at the Clinic's Laboratory. As usual a refresher course in S. T. D. was conducted periodically at this clinic. For the benefit of general medical practitioners and Medical Officers i/c. Mun. Gen. Dispensaries. The two medical social workers helped in and Health visitors including the defaulting patients and married partners to take continued and complete treatment. Some female patients willing to be rescued were given aid in rescuing themselves through the Vigilance Branch of the Police Deptt. Blood Samples of urethral smears sent by private Medical Practitioners for examination, were examined and they were furnished the reports confidentially free of charge. Also, 19311 samples of blood were received from the Municipal Hospitals and Municipal Maternity Homes. and Hosp. for opinion. 28534 male and 1271 female cases of S. T. and non S. T. diseases were treated. Out of 28515 S. T. diseases cases 4314 were Syphilis, 4802 were Gonorrhoea 14818 cases for non-syphilitic sores. On an average 748 patients were treated daily at this clinic.

Leprosy : Acworth Leprosy Hospital has 500 beds for indoor patients and conducts 10 clinics in addition to its own clinic, which is well equipped with all the facilities for education, case-detection, treatment inclusive of plastic surgery. Medical social service is also provided. 5870 new cases were treated at the clinics, the total attendance being 1,82,399. Daily average attendance numbered 460. The Corporation bears the entire cost of the out-patients clinics attached to this Hospital and also the additional cost on account of 45 beds for the voluntary patients. 275 beds for the resident domiciled in Bombay committed under the Leprosy Act, Domiciliary service by 6 Health Visitors, sulphone treatment to out-patients Rs. 10,0000 and half of the recurring expenditure and the entire cost of the capital works such as construction etc. on account of Greater Bombay Leprosy control scheme activities. In addition, the Corporation have sanctioned a new scheme of "Detection and control of the Leprosy Cases in Greater Bombay, in the year 1978 under C. R. No. 1534. This scheme is fully financed by the Corporation. Besides, more than 10 voluntary organisations are carrying out the work of leprosy in Greater Bombay.

The Mobile Health Unit : The Mobile Health Unit continued to perform its following stipulated objectives during the year.

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

Medical Examination of 19290 children in 1st to 3rd, 5th and 7th standards of 116 Municipal Schools allotted to this Unit by the Medical Officer, Schools, was done.

(2) Control of communicable diseases : 164947 immunization procedures against various communicable diseases were performed (Table 12).

(3) Health Drives and Family Planning Exhibitions :

In addition to the general health education performed and the mass immunization carried through its units, 465 health drives were carried out when 38361 patients were examined and treated and 153444 patients days of treatment were dispensed.

(4) Film Shows : In all 81 film shows on mass health education and family planning were arranged in different localities.

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 : Campaign against *Aedes Aegypti* the vector for Yellow Fever and dengue diseases was continued throughout the year. *Aedes Aegypti* breeding was detected on 18 occasions and stegomyia index was 0.0006 percent for the year under reference.

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.

National Malaria Eradication Programme : The National Malaria Eradication Programme was started in Bombay, in 1962-63. The Unit is under 'Consolidation Phase' at present. Under this programme, Municipal Corporation of Greater Bombay has 3 Units viz. City, Western Suburbs and Central Suburbs. The city is covered by passive Surveillance only, where as the Western, Central and Extended Suburbs are covered both by active and activated passive surveillance. In the active surveillance, a worker is allotted about 3,000 houses with a population of about 15,000. He visits them twice a month and makes enquiries about fever cases. He collect: blood smears from all persons suffering from fever. In the activated passive surveillance, workers are posted in Municipal and Government dispensaries and hospitals in Greater Bombay to collect blood smears from the fever cases attending Hospitals and dispensaries for treatment. The blood smears collected by the surveillance staff are examined for malaria parasites by specially trained staff in the Laboratory at Andheri. Technical guidance and material supplies are received from the Director of National Malaria Eradication Programme, Delhi, the Deputy Director, Malaria and Filariasis, Poona and Regional Co-ordination Officer, Baroda.

Filaria Control Programme : A pilot project for detection of Filaria cases by collecting blood smear survey at night has been started in H. Ward. Under the project mass survey has been carried out at Khar Danda Village and Filaria night clinic has been established at Khar Danda dispensary.

CEMETERIES

There are on the record, in all 180 cemeteries in use in Greater Bombay. Of these, 27 including the electric crematorium at Chandanwadi and Sion, are Municipal managed.

Electric Crematorium

They are open round the clock for cremation. The charges for cremation are Rs. 50/- per adult dead body and Rs. 25/- per child dead body below 12 years of age. Two more electric crematorium are under construction one at Shivaji Park, Hindu Cemetery and the other at Oshiwara Hindu Cemetery at Jogeshwari (West). The existing cemeteries in city are sufficient, excluding those for communities like Dawoodi Bohras, Jews, Khoja, who do not re-use land for burial. At Municipal managed cemeteries amenities are provided at Municipal cost. At privately managed cemeteries, they are to be provided by their owners/trustees. However, at six private cemeteries certain amenities have been provided at Municipal cost also as provided under Section 63 (k) of the Bombay Municipal Corporation Act, to avoid inconvenience to mourners.

MUNICIPAL LABORATORY

To safeguard public health, samples of various food-stuffs and samples of water from different parts of Greater Bombay were examined (Table No. 14).

	No. of samples examined.	Adulterated/ Unit samples.
1) Chemical Examination.	18,568	688
2) Bacteriological Exam.	27,666	4,616
	46,234	5,304

The water samples from water supply were collected twice a day by the technical staff of the Laboratory.

The Municipal Analyst attended different courts in the City and Suburbs as Public Analyst in 19 cases and the other public analysts attended courts in 12 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.

The Municipal and Public Analyst is a member of 10 different sub-committees of Indian Standards Institution and Central Committee for food standards.

Maintenance of Dhobighat : There is only one Municipal Dhobighat which is existing at the place since about 100 yrs. There are 709 wash stones for washing of cloths by dhobies. Facilities such as water, supply, electricity, land for drying clothes have also been provided. The stones are given to Dhobies for washing at a monthly rent of Rs. 60/-.

Life Guard Service : The Sea shore of Juhu is guarded to save the lives of the persons from drowning. Life Guards are specially posted to watch the area from 6-00 a.m. to 6-00 p.m. and to guide the people not to go for swimming in the prohibited areas and to rescue those who are in danger. The Life Guards are provided with necessary life saving equipments, binoculars, etc. Similar life guard services are also available at Aksa Marve and Erangal beaches on Sundays and Holidays.

Control of Stray Cattles : Stray cattles are seized and impounded by Byculla Cattle Pound under Section 441-A of the B.M.C. Act. In order to have co-operation from the members of the public in this respect, incentive payment of Rs. 80/- per cattle seized and brought to the cattle pound at Byculla and Rs. 30/- per cattle seized and brought to M.O.H. C, D, E, F/N or G/N Ward Office is offered to the members of the public.

Maternity and Child Welfare : The Maternity and Child Welfare Services were rendered through 25 Municipal Maternity Homes, 9 Maternity Wards attached to 9 Municipal General Hospitals and 39 maternity and child welfare centres. The scheduled strength of maternity beds was 1459. The number of deliveries conducted was 84,204. The average stay of mothers in the maternity homes was 5 days. Domiciliary 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 propoganda through posters, leaflets, group-talk demonstrations and film-shows. etc.

Milk was given free to the poor and needy expectant and nursing mothers, 3 months before and 3 months after delivery at the Maternity Homes. Poor mothers who delivered at their homes were also given help, in the shape of milk.

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 lead of the hospital out-patients departments by referring cases for direrent medical care and (iii) to providing a teaching field and education experience in a urban centre to doctors, nurses and allied workers.

Medical Termination of Pregnancy : All Municipal General Hospitals with Maternity Wards and almost all Municipal Maternity Homes are recognised for Medical Termination of Pregnancy under the M.T.P. Act 1971.

Family Welfare Planning : With a view to preventing or minimising maternal and infantile mortality and morbidity instructions in spacing of birth are given by trained doctors, to married man and women at the family welfare centres free of charge. Contraceptives are also given free after demonstration of the use of the same.

These activities are conducted under the supervision of the Special Officer I/c Family Planning, F/South Ward Officers, Dr. Ambedkar Road, Parel, Bombay-400 012.

Summary of work done :

(1) I.U.C.D. Insertions	5,536
(2) Vasectomy Operations	2,878
(3) Tubectomy Operations	16,962
(4) No. of condoms distributed	10,76,023

KASTURBA HOSPITAL FOR INFECTIOUS DISEASES

Dr. (Smt.) R. Prabha, M.D., Associate Professor of Medicine, of Kasturba Hospital has resigned from 25-5-1981,

Dr. (Smt.) S. N. Marathe, M.B.B.S., D.P.H., Dy. Medical Supdt. Kasturba Hospital, has looked after the work of Professor of Medicine in addition to her own.

Admissions	22,633
Expenditure	Rs. 1,14,38,900

Pharmacy Department : After meeting the requirements of I.V. Fluids of the Hospital, the Pharmacy Department started to supply I.V. Fluids to Municipal Maternity Homes and other Hospitals under Public Health Department. About 600 bottles are supplied daily.

Immunization Centre : 840 persons were immunized against Diphtheria, 659 against Enteric Fever, 635 against Cholera, 402 against measles.

Mortuary : A new mortuary block with refrigeration to accommodate 36 dead bodies has been started from 25-9-75 and autopsy room was provided in it. 200 Post-mortem examinations were done at this hospital during the year.

Ward Laboratories : As required by the Bombay University, two ward laboratories have been started for a recognition to house posts for post-graduate studies.

Labour Ward : It was the usual practice to transfer pregnant females patients to general hospitals for delivery. This causes delay in attending these patients. A labour Ward with the minimum staff was, therefore, started at this hospital, from 1-8-1975. Necessary help and guidance in case of emergency is given by the Tutor (Gynaec and Obstetrics of B.Y.L. Nair Hospital on emergency duty.

Intensive Care Unit : To render prompt medical treatment to cases in acute condition requiring very prompt and intensive care, a fully equipped intensive care unit was opened at the hospital from 26-10-1975.

Paying Beds : The paying bed facility was provided to those desiring the same voluntarily.

Teaching : Instructions in Infectious Diseases were given to 767 students including undergraduates of M. B. B. S., Ayurvedic, 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 eleven general hospitals in the Suburbs and Extended Suburbs. Details of the work done thereat are detailed in Table No. 13.

Free Dispensaries : New cases treated at the 152 dispensaries and 20 Mobile dispensaries were 59,70,076 against 5833410 in 1980. The total attendance was 1,75,60,508 as against 1,59,43,746 in 1980.

Clinics for women and children were conducted at 4 dispensaries for two hours thrice a week. New cases treated were 666 women and children as against 1465 in 1980. The total attendance was 2463. These figures include visits by the Lady Doctors to patients at their homes. At the 39 maternity and child welfare clinics, 1,90,603 new cases were treated. The total attendance was 6,47,739.

Municipal Eye Hospital, Kamathipura : The total number of new cases treated and the total attendance at the out-patient department of this hospital was 38929 and 160302 as against 35239 and 174572 respectively during the previous year. The number of indoor patients amongst new cases and total attendance was 1753 and 18649 respectively, as against 2017 and 20483. respectively, in 1980.

The Medico-Social Unit, established in April 1957 at Kherwadi, Bandra, by appointing a medico-social worker in order to carry out an integrated practice of medicine based on the family and community as a Unit continued working. The medical personnel specialising in different fields of medicines and working at the Kherwadi Family and Community Health Centres, a Voluntary Social Organisations, rendered honorary services at the unit.

AMBULANCE SERVICE

1) **Fire Brigade Head Quarters, Byculla :** For removal of cases of maternity and of street accidents Free and non-infectious medical cases on payment within Greater Bombay Municipal Limits.

2) **Ambulance Garage, Sane Guruji Marg :** For infectious Diseases cases free and dead bodies on payment within greater Bombay.

An ambulance is also attached to each of the Municipal Medical Institutions mentioned below. It was made available to public for removal of patients within Greater Bombay Municipal Limits on payment.

Place where ambulance is stationed.

- (1) Municipal Maternity Home, Mahim
- (2) K. B. Bhabha Hospital, Bandra.
- (3) Dr. R. N. Cooper Municipal General Hospital, Juhu,
- (4) Municipal Maternity Home, Malad
- (5) H. B. Municipal General Hospital, Borivali.
- (6) K. B. Bhabha Hospital, Kurla.

- (7) Municipal General Hospital, Rajawadi Ghatkopar.
- (8) Diwalibai Mohanlal Mehta Maa Hospital, Chembur
- (9) Deonar Maternity Home.
- (10) Municipal Maternity Home, Bhandup
- (11) Municipal General Hospital, Mulund.
- (12) Sant. Muktabai Mun. Gen. Hosp. Barve Nagar, Ghatkopar.

Upgraded Dispensaries : There has been considerable over crowding at the outpatient 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. D.s is due to the attendance of a large number of patients requiring dispensary treatment. With a view to relieving the general hospitals of the heavy load of patients. 58 Municipal General Dispensaries were upgraded.

Health Propaganda and Education : Health Propaganda and Education such as enlightening the public about the important of environmental sanitation and immunization against various diseases, etc. was carried out through the Public Relation Department of the Corporation.

Rabies : Anti Rabic treatment is given at the 12 Municipal Hospitals. A Govt. Hospital, and 5 Municipal General Dispensaries.

Integrated Child Development Service Scheme : In pursuance of the National Policy for children, the Government of India have sanctioned the Integrated Child Development Scheme on an experimental basis in the first instance. Each project aims at the delivery of package of services (supplementary nutrition, Immunization health check up, referral services, health and nutrition education and non-formal pre-school education) in an integrated manner to pre-school children upto 6 years of age, expectant and nursing mothers and to women in the age group 15-44 years.

Greater Bombay has been selected amongst the four urban slum projects to be inaugurated throughout India and the department of Social Welfare, Maharashtra State has selected Borivli, Goregaon slum area for implementation of this project. As the project falls within the limits of the Municipal Corporation, the Department of Social Welfare and the state level I. C. D. S. Co-ordination Committee decided to involve the corporation for implementation of the project in Greater Bombay.

The entire expenditure of this scheme is born by the Government of India.

As far as referral services under the scheme are concerned the Municipal dispensaries, Maternity Homes and General Hospitals are taken as Treatment Centres. The patient is provided with the card. The Medical Officer Incharge dispensaries, Maternity Homes etc. see that necessary treatment is given to the patient.

Expanded Programme of Immunisation : As per the directives from the World Health Organisation and the Government, the Scheme of Expanded Programme of immunization has been adopted since May 1978 on permanent basis. Under the scheme, every child in Greater Bombay is contacted and immunized for Diphtheria, Tetanus, whooping cough, Tuberculosis within 1 to 1½ years of its birth.

Multi-purpose Workers Scheme : Multi purpose Workers Scheme has been launched in different parts of India as per recommendations of the Multi-purpose Worker's Committee appointed by the Govt. of India.

The Scheme is an extension of Expanded Programme of Immunization. It aims at switch over of the semi-purpose programme to multi purpose programmes by integrating them. In Greater Bombay, the scheme is in operation in 9 wards viz. F/South, G/South, H/East, H/West, K/East, K/West, L, M, N. Wards on pilot basis and will be extended to other wards in due course. The scheme includes Malaria Control, T.B. Control, Family Welfare Maternal and Child Health Nutrition, Immunization, collection of vital statistical data regarding missing births and deaths etc.

Control of Water contamination and Health Survey Scheme : Greater Bombay receives water supply from artificial impoundage which is augmented by river water. To assess the impacts on health of the present water supply system and the new water purification and treatment plant, a prospective study is undertaken on the request of World Bank to find out whether there are quantifiable changes in the occurrence due to water related diseases in relation to environmental, Social and geographical factors. The study is to go on at least for next 2 years.

Dog Licensing Establishment : Dog Licensing Establishment primarily deals with the abatement of nuisance caused by stray dogs and to reduce the potential of such nuisance by organising dog catching raids on routine basis. These dogs are destroyed by electrocution method if not retrieved by the owners or interested parties within 3 days.

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.

Cinema Theatre, Drama halls etc. are inspected to control them from public health point of view under the provisions of "Maharashtra Cinema (Rules) Regulations, 1966 and Rules for Licensing and controlling places for public amusement" respectively.

Health Education Drive : This is a fundamental aspect in preventive medicine. The various modes of audio-visual publicities are used in vulnerable areas. The talks are also arranged in slums on radio and T.V. Immunization and intensive clinic campaigns are also carried out and the public is enlightened about the importance of environmental sanitation, good habit for healthy living etc.

Registration of Nursing Homes : Nursing Homes *i.e.* premises used for the reception of persons suffering from any sickness, injury or infirmity and providing treatment and nursing to them including maternity 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 is the establishment which provides the services of persons to act as Nurses, Midwives or Health visitors to those requiring such services. Such 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.

Census : The Indian Census to day is universally acknowledged as the most authentic and comprehensive source of information about our land and the people. Information regarding such a variety of aspects of the nation's economy like population growth its distribution urbanisation, manpower employment, literacy, migration, housing and so on and also of the working population fertility patterns, age and educational levels, etc. is collected holding census.

Under Section 63 (h) of the Bombay Municipal Corporation Act, taking of a census of the population of Greater Bombay, is the discretionary duty of the Bombay Municipal Corporation. The work is entrusted to the Public Health department which is collecting the statistical data of births and deaths in Greater Bombay. The census is taken decennially *i.e.* every 10 years.

DR. M. N. GURNANI,
Executive Health Officer.

TABLE I

Notifiable Diseases.	1981	
	Cases.	Deaths.
Plague
Cholera
Small Pox
Diphtheria	..	16
Enteric Fever	..	35
Infectious Hepatitis	..	391
Tuberculosis	..	8257
Meningococcal Infection
Typhus
Puerperal Fever
Anterior Poliomyelitis	..	107
Influenza
Virus Encephalitis
Scarlet Fever
Yellow Fever
Relapsing Fever
Leprosy
Haemorrhagic Fever
Dengue Fever

Immunization		Total during 1981
Dpht Tetanus	.. 1st dose	1,98,984
	.. 2nd dose	1,01,450
	.. Booster dose	14,160
Triple	.. 1st dose	1,32,020
	.. 2nd dose	94,364
	.. 3rd dose	76,513
	.. Booster dose	42,135
Polio	.. 1st dose	1,34,697
	.. 2nd dose	98,085
	.. 3rd dose	77,157
	.. Booster dose	55,225
T. A. B.	..	4,66,254
Cholera	..	2,01,472
Small-pox:	.. Primary	..
	.. Re-vaccinations	..
Tetanus-toxide	.. 1st dose	5,41,541
	.. 2nd dose	85,538
	.. 3rd dose	34,887
	.. Booster dose	7,008
B. C. G. Vaccination	..	1,17,106
Measles	..	7,000

TABLE 2
Deaths and Death rates from Epidemic and Principal Causes 1980

Causes of Death	Average of year 1976-80		1980		1981	
	Deaths.	Death Rate	Deaths	Death Rate	Deaths	Death Rate
<i>Principal Epidemic Diseases</i>						
Smallpox	..	0.0	..	..	..	..
Measles	.. 86	0.0	.. 110	.. 0.0	.. 127	.. 0.0
Plague	..	..	..	..	..	..
Enteric Fever	.. 66	0.0	.. 68	.. 0.0	.. 35	.. 0.0
Malaria Fever	..	..	..	.. 0.0	..	..
Influenza	..	..	..	..	..	..
Cholera	..	..	..	..	..	..
Dysentery	.. 268	0.0	.. 216	.. 0.0	.. 269	.. 0.0
Diphtheria	.. 26	0.0	.. 12	.. 0.0	.. 16	.. 0.0
<i>Other Principal Diseases</i>						
Tuberculosis	.. 86,96	1.0	.. 8,281	.. 1.0	.. 8,261	.. 1.0
Meningococcal Infection	..	..	..	..	..	..
Diseases of nervous system.	.. 1,468	0.2	.. 1,940	.. 0.2	.. 1,345	.. 0.2
Diseases of Respiratory system	.. 10,853	1.4	.. 9,692	.. 1.2	.. 10,592	.. 1.3
Diarrhoea & Enteritis	.. 3,829	0.5	.. 3,350	.. 0.4	.. 3,391	.. 0.4
Puerperal State	.. 115	0.0	.. 97	.. 0.0	.. 93	.. 0.0
Congenital Debility & Diseases of early infancy	.. 6,107	0.8	.. 5,933	.. 0.7	.. 6,557	.. 0.8
Senility Without mention of psychosis	.. 4,130	0.5	.. 4,851	.. 0.6	.. 4,400	.. 0.5
Violence	.. 5,431	0.7	.. 5,925	.. 0.7	.. 6,179	.. 0.7
Other causes.	.. 27,742	3.5	.. 27,662	.. 3.3	.. 29,606	.. 3.6
Total	.. 68,217	8.7	.. 68,137	.. 8.1	.. 70,871	.. 8.6

TABLE 3
Deaths among infants from Principal Causes by Age-period—1981.

Age Period	Small pox.	Measles.	Malarial fever.	Diarrhoea & enteritis.	Dysentery.	Congenital malformation & diseases of early infancy.	Diseases of respiratory system.	Convulsions.	Polio myelitis	Other causes	All causes	Percentage to total of infant deaths.	
1	2	3	4	5	6	7	8	9	10	11	12	13	
Upto 7 days	1	...	35	2	4418	434	...	...	298	5188	38.6
1 to 4 Weeks	235	11	1192	431	...	...	370	2239	16.6
Total under 4 weeks	1	...	270	13	5610	865	...	...	668	7427	55.2
4 weeks to 6 months	7	...	873	30	750	1428	...	17	1039	4144	30.8
6 months to 12 months	22	...	434	19	197	651	...	25	530	1878	14.0
Total	Nil	30	Nil	1577	62	6557	2944	Nil	42	2237	13449	100.0	

TABLE 4
Infant mortality from Principal Causes (1976-1981).

Causes of death.	1976	1977	1978	1979	1980	1976 to 1980 (A)	1981 (B)	Difference between (A) & (B)	
Poliomyelitis	...	24	20	21	24	35	25	42	17
Smallpox
Measles	...	8	20	11	20	17	15	30	15
Malarial Fever
Diarrhoea & Enteritis	...	1925	1348	1810	2269	1730	1816	1577	-239
Dysentery	...	44	64	53	68	62	58	62	+4
Congenital malformation and diseases of early infancy	...	6562	5493	6156	6390	5933	6107	6557	+450
Diseases of Respiratory systems	...	3351	3596	2671	3161	2792	3102	2944	-158
Convulsions
All causes	...	14147	13999	13512	15078	13633	14074	13449	-625

TABLE 5
Cases of Notifiable Diseases reported in 1981.

Wards	Cholera	Small pox	Plague	Enteric Fever	Diphtheria	Typhus	Puerperal Fever	Tuberculosis	Relapsing Fever	Influenza	Spinal Fever	Acute interior Poliomyelitis	Scarlet Fever	Infectious Hepatitis	Leprosy	Total
A	11	4	...	...	343	...	...	...	8	...	81	...	447
B	34	5	...	...	1,023	...	...	...	6	...	84	...	1,152
C	7	1	...	...	705	...	...	...	7	...	36	...	756
D	26	3	...	...	827	...	...	...	22	...	114	...	992
E	113	12	...	...	1,455	...	...	...	78	...	417	...	2,075
F/N	14	3	...	...	652	...	...	...	56	...	152	...	877
F/S	36	7	...	...	2,159	...	...	...	41	...	133	...	2,376
C/N	19	3	...	...	1,446	...	...	...	45	...	93	...	1,606
G/S	50	9	...	...	1,345	...	...	...	30	...	133	...	1,567
H/E	5	3	...	...	746	...	...	...	30	...	56	...	846
H/W	3	2	...	...	410	...	...	...	22	...	47	...	484
K/E	6	2	...	...	508	...	...	...	56	...	60	...	632
K/W	2	3	...	...	439	...	...	...	25	...	29	...	498
L	6	2	...	...	2,034	...	...	...	55	...	93	...	2,190
M	7	5	...	...	580	...	...	...	72	...	137	...	801
N	5	9	...	...	356	...	...	...	75	...	...	...	530
P/N	1	2	...	...	438	...	...	...	27	...	17	...	485
P/S	2	1	...	...	382	...	...	...	17	...	27	...	429
R	2	4	...	...	294	...	...	...	18	...	58	...	376
S	1	1	...	...	288	...	...	...	11	...	18	...	318
T	1	1	...	...	93	...	...	...	19	...	26	...	145
Imported Cases.	4	10	...	...	...	...	...	...	135	...	95	...	244
TOTAL:—	355	91	...	...	16,528	...	...	...	855	...	1,991	...	19,820

TABLE 6
NATIONAL MALARIA ERADICATION PROGRAMME.
Appendix-C

Area.	No. of fever cases detected.	No. of Persons given treatment.	NUMBER OF BLOOD SMEARS			Found Positive	PARASITE SPECIES.				NO. OF PERSONS TREATED.		EPIDEMIOLOGICAL CLASSIFICATION				
			Collected	Examined	Broken		V.	F.	M.	Mixed.	Completely	Partially	Induced	Imported	Relapse	Indigenous	Not treated
I Active—																	
City	...	3,704	3,704	3,704	...	333	331	2	...	...	315	15	...	116	...	164	3
Suburbs	...	17,200	17,200	17,200	...	53	46	7	...	...	48	4	...	38	...	14	1
Extended Suburbs	...	8,196	8,196	8,196	...	19	19	...	...	...	19	...	...	15	...	4	...
Total	...	29,100	29,100	29,100	...	405	396	9	...	...	382	19	...	269	...	182	4
Passive—																	
City	...	1,48,300	1,48,300	1,48,300	...	2,189	2,152	36	...	1	1,521	240	...	1,038	...	723	428
Suburbs	...	48,104	48,104	48,104	...	416	389	25	...	2	287	38	...	275	...	50	91
Extended Suburbs	...	83,468	83,468	83,468	...	310	298	12	...	...	170	32	...	151	...	51	108
Total	...	3,15,872	3,15,872	3,15,872	...	2,915	2,839	73	...	3	1,978	310	...	1,464	...	824	627
3 Mass—																	
City	...	23,621	23,621	23,621	...	270	262	7	...	1	249	10	...	155	...	104	11
Suburbs	...	23,428	23,428	23,428	...	4	3	1	...	...	4	...	...	4	...	...	...
Extended Suburbs	...	10,373	10,373	10,373	...	4	4	...	...	...	4	...	...	3	...	1	...
Total	...	57,422	57,422	57,422	...	278	269	8	...	1	257	10	...	162	...	105	11

111

TABLE 7

Ward-wise Malaria Positive cases with the species and classification for the year (1981).

Ward	No. of positive cases	Malaria Parasites				Classification			
		V.	F.	M.	Mixed	Imported	Indigenous	Untraced	Untreated**
A	619	615	4	...	...	294	260	45	20
B	54	52	2	...	...	35	8	6	5
C	38	37	1	...	...	25	6	3	4
D	118	114	4	...	...	56	22	31	9
E	356	349	6	...	1	192	81	49	34
F	1,118	1,101	16	...	1	524	458	99	37
G	486	474	11	...	1	243	188	34	21
H	143	135	7	...	1	84	14	14	31
K	101	98	3	...	...	62	9	12	18
L	70	68	2	...	...	45	7	6	12
M	92	90	2	...	...	51	9	15	17
N	58	55	3	...	...	27	9	14	8
P	121	116	5	...	...	84	8	11	18
R	114	96	18	...	...	70	22	13	9
S	34	32	2	...	...	11	4	9	10
T	76	72	4	...	...	42	6	16	12
Total	3,598	3,504	90	...	4	1,845	1,111	377	265

Abbreviations used V.—Vivas. F.—Falciparum. M.—Malaria.

** These cases remained to be treated as they left Bombay before administering Radical Treatment. Malaria Officers concerned of the unit were informed accordingly to give radical treatment.

TABLE 8

Admissions, deaths and average number of Patients at Kasturba Hospital, Sans Garaji Marg, Bombay 4000-11.

Month	Small Pox.	Chicken Pox.	Measles	Mumps	Anterior Polio Myelitis	Infective Hepatitis.	Influenza	Cholera	Diarrhoea & Vomiting due to Gastroenteritis.	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 Patient.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
January	..	371	121	34	19	50	..	..	184	..	2	14	..	..	..	2	5	...	745	1,547	1,421	40	407
February	..	686	170	31	25	51	..	..	131	..	9	9	..	..	..	2	2	...	646	1,762	1,645	36	481
March	..	974	159	60	40	90	..	..	256	..	6	16	..	..	..	1	6	2	734	2,344	2,219	58	623
April	..	800	127	59	47	84	..	..	335	..	7	12	..	..	..	4	5	2	719	2,201	2,144	48	590
May	..	335	62	48	67	105	..	..	382	..	3	40	..	..	..	11	4	...	845	1,902	1,923	48	502
June	..	104	26	21	98	186	..	..	470	..	9	64	..	..	..	1	13	...	809	1,801	1,774	51	523
July	..	25	37	13	132	319	..	..	708	..	6	42	..	..	..	..	19	6	995	2,302	2,134	86	588
August	..	27	12	14	168	271	..	..	780	..	12	38	..	..	..	10	28	1	1,259	2,620	3,032	105	640
September	..	27	15	17	108	283	..	..	352	..	3	36	..	..	..	4	7	...	734	1,586	1,814	73	510
October	..	23	5	34	75	226	..	..	348	..	12	29	..	..	..	8	6	2	883	1,651	1,589	74	429
November	..	44	24	40	45	170	..	..	378	..	7	18	..	..	..	2	..	1	790	1,519	1,472	51	367
December	..	149	34	59	31	154	..	..	220	..	14	37	..	..	..	2	...	1	697	1,398	1,421	51	348
Total	..	3,565	792	430	855	1,989	..	..	4,544	..	90	355	..	..	..	47	95	15	9,856	22,633	22,588	721	501

TABLE 9.

Admissions from 1977 to 1981 at the Kasturba Hospital for Infectious Diseases.

Year	Small Pox	Chicken Pox	Measles	Mumps	C. S. Fever.	Diphtheria.	Influenza	Whooping Cough.	Erysipelas	Enteric Fever	B. Dysentery	A. Dysentery	Cholera	Plague	Typhus Fever	Diarrhoea and Vomiting due to Gastroenteritis.	Anterior Polio-myelitis.	Infective Hepatitis.	Other Diseases	Total	Deaths.	Discharge.	Daily Average No. of patients.
1977	...	1,911	711	193	3	256	...	4	...	371	106	212	...	...	...	4,016	629	1,355	8,325	18,092	624	17,468	414
1978	..	2,335	1,020	333	2	195	..	3	...	1,500	32	49	...	...	...	3,990	731	4,424	10,187	24,801	1,194	23,698	667
1979	..	2,484	743	637	..	111	..	52	...	844	72	65	...	...	...	3,263	950	3,338	9,025	21,584	1,024	20,560	555
1980	...	1,708	1,059	247	...	81	...	28	...	706	133	87	...	...	...	3,038	994	1,841	9,191	19,098	736	18,362	455
1981	...	3,565	792	430	...	90	...	15	...	355	47	95	...	...	...	4,544	855	1,989	9,856	22,633	721	22,588	501

TABLE 10

Average weekly Cost per Patient admitted at the Kasturba Hospital for Infectious Diseases, Sane Guruff Marg, Bombay 400 011.

Particulars	Year			
	1978	1979	1980	1981
	Rs.	Rs.	Rs.	Rs.
Drugs, Dressings & Disinfectants ..	29.47	23.31	28.56	37.66
Diet. ..	31.36	18.76	37.17	37.66
Clothings ..	3.50	4.41	10.64	10.15
Stores ..	5.88	8.96	45.50	19.67
Total cost per patient per week ..	70.21	55.44	121.87	105.14
Total No. of patients treated : ...	24,801	21,584	19,098	22,633

TABLE 11

Total cost per Patient per day at the Kasturba Hospital for Infectious Diseases; Sane Guruff Marg, Bombay, 400 011 (including Establishment Charges).

Particulars	Cost per	Infectious Hepatitis
	Indoor Patients	Out-Patient Department
	Rs.	Rs.
Diet. ..	5.38	Nil
Stores and Linen ..	4.25	0.28
Drugs, Dressings Disinfectants etc. ...	4.87	0.55
Lighting, Miscellaneous etc. ...	2.17	0.15
Repairs. ..	2.79	—
Establishment ..	42.37	3.27
Total ..	61.83	4.25

TABLE 12

Immunizations, done By Mobile Health Unit in 198.1 (infield)

		In field	Total
(1) Diph-Tetanus	.. 1st Dose	..	..
	.. 2nd Dose	..	..
Triple	.. 1st Dose	1303	1303
	.. 2nd Dose	1158	1158
	.. 3rd Dose	1545	1545
	.. Booster Dose	1029	1029
Polio	.. 1st Dose	2616	2616
	.. 2nd Dose	1989	1989
	.. 3rd Dose	1554	1554
	.. Booster Dose	1123	1123
T. A. B.	..	1025	1025
Cholera	..	1025	1025
Small pox	..	..	..
T. T.	.. 1st Dose	1011	1011
"	.. 2nd Dose	33	33
Measles as a special activity		1106	1106
Total ..		16,497	16,497
(2) In Health drives	..		
Total No. of patients	..	38,361	
No. of patients days of treatment		1,53,444	

TABLE 15

Work done at the Municipal General Hospitals under the Executive Health Officer.

Accommodation of Beds Ward-wise	Kharabadi Behramji Bhabha Hospital, Bandra.	Vishu Prasad Nandraj Desai General Hospital, Santacruz (East)	Dr. R. N. Cooper Municipal General Hospital, Juhu, Vileparle	Khan Bahadur H. K. Bhabha Hospital, Kurla.	Diwalibai Mohanlal Mehta (M. A. A.) Hospital, Chembur.	V. C. Gandhi & M. A. Vora Municipal General Hospital, Rajawadi, Chhatkopar.	Sant Muktabai General Hospital, Barve Nagar, Vikhroli	Shri M. W. Desai Memorial Hospital, Malad (East)	Shri Harilal Bhagwati Municipal General Hospital, Berivli.	Smt. M. T. Agarwal General Hospital, Mulund. (West)	Municipal General Hospital, Mulund (East)
	1	2	3	4	5	6	7	8	9	10	11
Children Ward	32	23	80	32	20	76	20	25	35	33	20
General Male Ward	32	30	180	80	19	42	30	20	65	40	30
General Female Ward	32	30	140	40	19	37	20	20	35	37	30
Maternity Ward	65	30	120	60	...	108	30	25	30	...	10
Septic & Gynaec Ward	25	68	120	...	12	60	...	20	35	18	10
Others	18	...	...	6	...	236	...	...	90	...	...
Total No. of Beds	204	281	520	178	70	559	100	110	300	128	100

	Annual Attendance	Daily Average	Annual Attendance	Daily Average	Annual Attendance	Daily Average	Annual Attendance	Daily Average	Annual Attendance	Daily Average	Annual Attendance	Daily Average	Annual Attendance	Daily Average	Annual Attendance	Daily Average	Annual Attendance	Daily Average	Annual Attendance	Daily Average	Annual Attendance	Daily Average
In-patients	63,106	173	53,165	145	2,69,413	718	58,923	162	23,876	65	1,81,212	496	5,326	80	3,12,113	855	1,15,940	317	42,002	115	28,115	77
Surgical Operations	11,871	39	6,293	18	25,732	31	1,336	3	2,277	8	15,129	50	665	4	670	2	12,940	83	3,912	13	4,806	12
	New Cases	Total attendance	New Cases	Total attendance	New Cases	Total attendance	New Cases	Total attendance	New Cases	Total attendance	New Cases	Total attendance	New Cases	Total attendance	New Cases	Total attendance	New Cases	Total attendance	New Cases	Total attendance	New Cases	Total attendance
O. P. D.	488,785	913,558	1,24,889	3,83,595	3,51,695	9,32,076	1,78,951	8,39,535	4,23,357	4,94,459	11,69,56	...	64,460	1,13,77,59	61,786	3,12,113	1,57,497	4,78,897	1,04,459	48,460	75,181	3,55,596
In-patients remained on 31-12-1980	161	...	151	...	612	...	169	...	53	...	501	...	92	...	983	...	339	...	106	...	43	...
Admitted in 1981	1,25,43	...	9,635	...	3,76,32	...	1,36,73	...	2,904	...	3,33,66	...	5,594	...	7,184	...	20,931	...	4,821	...	4,732	...
Total No. of patients treated in 1980	63,106	...	53,165	...	2,69,413	...	58,923	...	23,876	...	1,81,212	...	5,326	...	3,12,113	...	1,15,940	...	42,002	...	28,115	...
Discharged - Cured	...	...	9,463	...	3,79,04	...	1,70,00	...	2,869	...	8,430	...	...	...	6,643	...	6,646	...	4,392	...	2,577	...
Otherwise	1,17,87	...	762	...	335	...	42,783	...	84	...	2,33,32	...	56	...	1,20	...	1,522	...	206	...	2,155	...
Died	341	...	245	...	2,125	...	706	...	81	...	1,594	...	92	...	1,41	...	922	...	223	...	131	...
In-patients remaining on 31-12-1981	167	...	127	...	607	...	243	...	62	...	501	...	80	...	45	...	339	...	102	...	70	...
Daily Average	173	...	145	...	718	...	162	...	65	...	496	...	80	...	855	...	317	...	115	...	77	...
	Total Cost	Cost Per pt.	Total Cost	Cost percent	Total Cost	Cost percent	Total Cost	Cost percent	Total Cost	Cost percent	Total Cost	Cost percent	Total Cost	Cost percent	Total Cost	Cost percent	Total Cost	Cost percent	Total Cost	Cost percent	Total Cost	Cost Per pt.
Expenditure	89,93,391	70.13	83,46,000	55.90	1,95,09,838	55.26	64,30,038	30.00	40,31,000	67.50	1,79,66,870	66.10	34,92,827	62.25	26,74,000	98.00	1,28,32,560	45.82	47,15,595	76.91	46,29,500	69.56

TABLE 14

Examination of food and water samples.

I.—Chemical examination :—

(1) Food

(i) Prevention of Food Adulteration Act. 4,651

(ii) Other than the P. F. A. Act-- 5,596

(2) Water Samples 8,235

Chemicals

(3) General Stores. 289

(4) Hospitals 132

(5) Miscellaneous— 265

18,568

II.—Bacteriological Examination :—

(1) Water

(i) From City, Suburbs and Extended Suburbs. 25,597

(ii) From B. P. T. Area. 605

(iii) Private 438

(2) Disinfectants. 17

(3) Foods 225

(4) Ice 41

(5) Miscellaneous. 743

27,666

III.—Chemical Examination :—

(1) Urine, Blood, Stools, Semen— Nil.

TABLE 15

Ward-wise total Confinements in institutions in Greater Bombay doing Maternity Work during 1981.

WARDS.	A	B	C	D	E	F/N	F/S	G/N	G/S	H/E	H/W	K/E	K/W	L	M	N	P/S	P/N	R	S	T	Total
(1) No. of Institutions...	17	6	8	53	18	31	14	35	13	13	32	37	33	9	25	18	16	30	39	10	25	482
(2) Total No. of Beds...	2,930	231	289	1,872	2,900	1,597	2,730	438	983	379	637	1,087	1,421	263	379	912	191	540	1,408	416	903	22,506
(3) No. of Mat. Beds ...	445	153	109	638	537	463	525	274	369	178	367	439	274	128	232	313	156	361	550	292	292	7,095
(4) Live Births ...	8,128	3,669	1,713	11,316	12,541	12,155	17,052	6,714	9,312	7,050	9,007	9,290	12,858	8,281	10,960	18,891	6,481	9,430	14,200	9,430	9,413	2,07,891
(5) Still Births ...	195	74	52	192	411	398	274	107	242	150	137	181	332	212	280	624	156	196	353	163	254	4,903
(6) Total Confinements...	8,323	3,743	1,765	11,501 (7T)	12,945 (7T)	12,547 (6T)	17,326	6,819 (2T)	9,553 (1T)	7,200	9,138 (6 T)	9,471 ...	13,189 (1T)	8,491 (2T)	11,159 (1T)	19,515 ...	6,637 ...	9,626 ...	14,552 (1T)	9,583 (10T)	9,667 ...	2,12,750 (44T)
(7) Deaths among Mothers	7	1	1	4	65	36	32	1	1	...	1	...	26	4	2	...	...	...	16	1	8	206
(8) Neo-Natal Vaccinations against Small-Pox ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
(9) B.C.G. Vaccination ...	9,153	2,219	732	4,696	5,362	8,581	12,486	3,805	4,055	6,201	3,369	178	13,403	7,373	6,027	3,389	2,345	6,352	9,232	9,674	4,216	1,22,848

K. E. M. Hospital & Seth G. S. Medical College

HOSPITAL :

L.—Expenditure—

	Rs.
(A) On In-patients	4,59,93,887
On Out-patients	1,16,02,214
(B) Average cost per—	
(i) In-patient per day	70.69
(ii) In-patient admission	849.52
(iii) Out-patient attendance	13.31
(iv) Out-patient admission	31.85

II.—Results—

(A) 1. Schedule Bed Strength	1,595
2. Daily Average in-Patient in Wards	1,683
3. Admissions including those brought over from the previous year 1980	55,735
4. Patients discharged	49,964
(i) As cured	40,332
(ii) Otherwise	9,631
(iii) Expired	4,086
(iv) Remained in the Hospital on the last day of the year.	1,685
(v) Average stay of in-patients (in days)	11.34
(B) 1. New Out-patients attendance	3,64,774
2. Daily average of Out-patients (New)	999
3. Out Patients (New and Old)	8,80,029
4. Daily average of out-patients attendance (New & Old)	2,411
5. Casualty attendance (Medico-legal)	18,919
(C) 1. Operations-Majour	17,790
Minor	41,806
(D) CONFINEMENTS	
1. Booked cases	4,101
2. Emergency Cases	383
3. Normal	3,742
4. Abnormal	742
5. Neonatal & Maternal Deaths	
(1) Meternal Deaths	25
(2) Neonatal Deaths	110
(3) Still Births	35
(4) Premature live Born Infants	332

I II.—Specialised Treatments—

1. Artificial Kidney Department—	
(i) Peritoneal Dialysis	165
(ii) Haemodialysis	1,352
2. I. C. C. U. Ward	
(i) Number of admissions	807
3. Open Heart Surgery.	532
Other Heart Operations.	613
4. Neurosurgery—	
(i) Operations	858
(ii) Radiological investigations	2,460
5. Sterilisations—	
Male	114
Female	1,122

IV.—Radiology—

1. X-Ray taken at—	
(i) Hospital	72,282
(ii) C. V. T. C.	1,831
(iii) Orthopaedic Centre	29,966
2. Diagnostic Radiology	559
3. Neuro Radiology	2,422
4. Cardiac Catheter Lab	29

V.—Blood Bank—

1. Number of Blood samples collected from—	
(i) Voluntary Donors	7,207
(ii) Relative Donors	4,065
(iii) Other Hospitals	2,136
2. Number of bottles supplied	14,008
3. Total number of grouping & cross matching	18,312
4. Total number of out-door bleeding sessions	101

Blood Utilization

1. To K. E. M. Hospital	11,405
2. To other hospitals (Municipal, Public & Other hospitals)	2,042
3. Discarded	559

VI.—School Clinic—

1. School Children treated—	
(i) New	2,506
(ii) Repeated	22,579
(iii) Referred	240
2. Total Expenditure on Clinic	1,94,000.00

VII.—Physio Therapy—

(i) Attendance at the Centre—	
Out-patients	21,783
In-Patients	2,31,918
(ii) Treatment given to—	
Out-patients	67,643
In-Patients	1,64,275
(iii) Students admitted during the year	40
(iv) Students in the School	116
(v) Students graduated during the year	39

VIII.—Occupational Therapy—

(A) Patients treated at the Centre	12,811
Treatment given	1,88,784
(B) (i) Students admitted in the School for M. Sc. O. T.	2
(ii) Students admitted in the School during year	40
(iii) Number of students in the School	96
(iii) Students graduated during the year	26

COLLEGE

(i) Total expenditure on Hostel	Rs. 1,72,647.00
(ii) Revenue from Tuition Fees, Hostel Rent and Miscellaneous Receipts.	Rs. 4,05,015.66
(iii) Revenue from Post-Graduate Fees	Rs. 1,16,755.00

I.—Students—

	Male	Female	Total
(A) (i) Undergraduate Students			
1. 1st M. B., B. S.	98	62	160
2. 1st M. B., B. S. (Casual)	12	7	19
3. 2nd M. B., B. S.	205	110	315
4. 3rd M. B., B. S.	187	91	278
5. 3rd M. B., B. S. (Casual)	25	6	31
6. Intern	106	43	149
7. B. Sc. (O. T.)	6	95	101
8. B. Sc. (P. T.)	8	105	113
Total	647	519	1,166
9. Post-graduate students including research students.	439	205	644
Grand Total	1,088	722	1,810
(B) Occupation of parents or Guardians—			
(i) Service			84
(ii) Medical Profession			31
(iii) Legal Profession			4
(iv) Misc. occupations			38
(v) Engineering			3

The King Edward VII Memorial Hospital & Seth Gordhandas Sunderdas Medical College are functioning since 1925-26. The Hospital is the largest 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 Medicine 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. C. K. Deshpande, M. D., F. R. C. Path. (London).

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

Ward Officer—Shri R. B. Veturkar, B. A. (Hons.)

From 18-1-1980 onwards.

Educational Programme : 160 candidates including 49 students from backward Communities were admitted to the M. B., B. S. Course during the year under report.

Post-graduate course were conducted for M. D./D. M., M. S./M. Ch. D. A., D. V. D., D. P. M. D. P. H., D. M. R. D., D. M. L. T., M. Sc. (Biochemistry) M. Sc. (Animal Physiology), M. Sc. (Microbiology) Ph. D. on the lines of the previous year.

Hostels : There are three hostels attached to the Seth G. S. Medical College. Male students Hostels in the College premises has 148 rooms, Ladies students hostel has 36 rooms. Male students hostel situated at Naigaon has 56 rooms. All the rooms were fully occupied during the year. All the modern amenities have been provided at the hostels.

Library : As in previous years, the library has been rendering useful service to the hospital staff in general and the student community in particular, by providing reading, borrowing, and research facilities. Undergraduate, Postgraduate, and research students have been deriving the fullest benefit from these facilities. Even research students from other colleges are allowed to read in the library on application, and proper recommendation and identification. Shortage of space, which has been a major constraint, has been relieved, to certain extent, by the utilization of the gallery for setting up slotted-angle racks for stocking books. However full relief can come only when the proposed new, three storeyed building, whose construction is well under way, is duly completed early next year

Gymkhana Activities : Gymkhana activities for the year 1981-82 commenced from 1st March 1981. Highlights of various departments which functioned till 28th February 1982 is as under :
General Secretary : Reinstilled Now water colures in Physiology Department & Ladies common room.

Treasurer : A regularised system of scrutinising the income of the Gymkhana was established.

Vol-Gym. : Our team won the Championship in All Maharashtra Athletic Meet.

Cricket : Participated in many tournaments and won some Departmental stock improved.

Hockey : Runners up in Terry Fernandes Memorial Hockey Tournament. Departmental stock improved.

Wall Paper & Magazine : Various interesting Editions were brought out on wall paper.

Reading Room & Debating : A new intercollegiate 3 day programme " Aavishkar " was introduced and it was a great success.

Hiking : Our College students went for National Himalayan Hicking programme.

Badminton : Functioned well like every year.

Tennis : Tennis court was improved and fencing done.

Indoor Games : Lots of Tournaments were held. Departmental stock improved.

Football : Functioned well like every year.

Cultural : Our College participated in a number of inter collegiate programmes & won prizes in same, Talents parade was reorganised. College Week was A Grand Affair as usual.

Weaving activities : Weaving & winding work were given to patients. Patients produced handloom products like bed sheets, towels etc. worth of Rs. 11,796. The sales money amounted to 13,816 which was credited to P. B. C. Fund of K. E. M. Hospital. Articles made by patients were sold at the annual Diwali sale at Bombay Municipal Corporation premises, one paraplegic patient worked on regular basis amending hospital clothes. He mended 13,000 clothes and was paid Rs. 3,250 for the same.

Printing Activities : During the year Rs. 51,074 worth printing work was done and amount was credited to the Poor Bix Fund. Also some printing activities like binding pinning cutting rulling folding, type setting were given to the patients as a part of their treatment.

DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE.

The Department of Preventive and Social Medicine has now completed 22 years. The staff of the Department consists of following members ;

1.	Names	Designation
1.	Dr. D. N. Pai	Head Professor. (Retired from 1-7-1981).
2.	Dr. Mrs. V. R. Bhalerao	Professor.
3.	Dr. Mrs. K. P. Kolhatkar	Assistant Professor.
4.	Dr. E. E. Daniel	Assistant Professor.
5.	Dr. S. Y. Deshpande	Tutor
6.	Dr. O. P. Agarwal	(Resigned from 1-10-1981).
7.	Dr. Mrs. S. S. Mathur	Assistant Professor.
8.	Dr. Mrs. F. M. Raimalwalla	(Resigned 18-10-1981) .

Activities and Programmes :

1. **Teaching and Training activities :** These are undertaken by the Teaching staff of the Department for undergraduate Students, Post-graduate students, Interns.

Service Programme are conducted at Urban Health Centre, Malvani Health Centre and Mobile Health Center.

UTILIZATION MOBILE HEALTH CLINIC VEHICLE NO. MMG/5026 IN THE COMMUNITY OF NAIGAON BDD, CHAWLS AS A PART OF IMPLEMENTATION OF ROME SCHEME.

Programme	Number of Cases
1. W Family Services :—	
(a) No. of families surveyed	400
2. Curative Services :—	
(a) No. of patients seen	6581
(b) No. of days van effectively used	97
(c) Average no. of patients seen per day	68
3. Antenatal and Gynaecological Services :—	
(a) No. of days camps held	17
(b) No. of cases examined	101
4. Immunizations :—	
(a) Triple/Polio	158
(b) T. T.	60
(c) Total	218
5. Health Education Meetings :—	
(a) No of meetings held	7
(b) No. of people attended	335
6. Geriatrics Services :— (Surveys and Treatment)	102
7. Services for Physically Handicapped—	
(a) Diagnosed	130
(b) Under Treatment	95
8. Services for mentally & Socially Handicapped :—	
(a) Diagnosed	97
(b) Under Treatment	80

MALVANI HEALTH CENTRE.

Following are the surveys conducted following which relevant Services were started from October 1976 :—

- Basic Demographic survey is done twice.
- Health and Morbidity survey once in 1979.
- Survey to find out operative problems done in 1979-80.
- Prevalence of Physically and mentally handicapped twice.
- Nutritional survey of School children done every year.
- Health status of School children done every year.
- Survey in the community to find the scabies morbidity.
- Survey of number of pregnant women in the community and number of Dias exist so as to start "Continuing Education Scheme".
- Special Cattract survey in 1981 in favour to conduct an operative diagnostic eye camp.
- Special T. B. survey done of 65,000 population for early diagnosis of T. B.

DEPARTMENT OF ANAESTHESIOLOGY.

Department of Anaesthesiology continued to give Anesthesia and 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 Hospital Juhu and Municipal Hospital at Malad. In respiratory care ward 143 critically ill patients were treated with 115 survival.

Anesthesia O. P. D. continued to work smoothly and 8124 patients were examined.

The following new equipments were acquired during the year.

- One Cardioscope : Working satisfactorily.

Oxygen and Nitrous Oxide is in short supply and this at times effects the working of operation theatres.

Department has been actively helping Blood Bank their blood collection drive.

Services at various Laproscopic Camps were provided. At Malwani-Rural health centre anaesthesia services were provided.

3. DEPARTMENT OF BIOCHEMISTRY AND NUTRITION

The department is mainly concerned with Undergraduate training, Post-graduate training for M.Sc., students by papers and research for Ph.D. The University result of these students is as under :—

Undergraduate Training				Appeared	Passed	Percentage
April 1981	...	...	...	10	8	80%
November 1980	...	...	...	157	140	89%

Postgraduate (M.Sc. Part II)			Appeared	1st Class	IInd Class	Pass Class	Percentage
April 1980	...	...	13	5	5	3	100
(Nov. 1980)	...	...	..	..	..	..	..

ARTIST SECTION

The following work is carried out in the Department during the year :

(1) Patients Photographs	..	..	..	..	..	6,059
(2) X-rays exposed	..	..	..	..	..	4,879
(3) Specimen & Photomicrographs exposed	..	..	..	..	..	887
(4) Book Copping etc.	..	..	..	..	..	13,075
(5) Preparation of graphs, charts, drawings etc.	..	..	..	..	..	2,409
(6) Functions photographs	..	..	..	..	..	43
(7) Nurses Photographs	..	..	..	..	..	128
(8) Slides prepared	..	..	..	..	..	25,829
(9) Prints prepared	..	..	..	..	..	10,932

DEPARTMENT OF PHYSIOLOGY.

During the year 1981-82, 160 students were admitted in Ist M.B.B.S in July 1981. Regular classes in theory and practicals were started from 13th July 1981. The progress of the students were assessed in theory and practicals of regular intervals. For theory, after completion of a particular system, students had to undergo a cardtest, in which they were being questioned by staff members and marks were given. For practicals, after finishing 4-5 experiments, students were subjected to spot examination. Occasional Visuo-Audial tests were also conducted to see the day to day progress of the students. Ist Terminal examination of this batch of students was held in November 1981.

Teaching of the subjects of Physiology, Anatomy and Biochemistry was intergrated as far as possible so that all the three departments were able to tackle the same topics simultaneously.

8. MEDICAL RECORD DEPARTMENT

The scheduled bed strength during the year was 1,595. There was constant over crowding in the Hospital, particularly in the Children wards and in the Female Surgical and Medical wards, orthopaedics wards even after strict scrutiny and restriction on routine admissions.

Death Classified : Out of 4,086 deaths, 775 died within 24 hours of admission, 686 after 24 hours but within 72 hours of admission and 2,625 after 3 days or more from the date of Admission. The figures are exclusive of 198 still births, Prematurity and Neonatal deaths. Death rate was 7.55 as against 7.71 during the last year.

Confinement and Abortions : The total number of confinement was 4,984 and that of Abortion was 1,288 (including M.T.P. also).

Medico Legal Cases : Resident Medical Officers attended the various courts for giving evidence in 502 Medico-Legal Cases. as follows :—

Metropolitan Magistrate Court : 269, M. A. C. T. : 137 Session Court.

Coroner Court : 9, Labour Court : 12

Depositions : During the year 873 depositions were filed in the Coroner's Court.

Medical Certificates : Certificates were issued to different Institutions and persons during the year.

Under Treatment	...	...	...	...	...	5,310
Opinion and Fitness	...	...	...	...	...	6,795
Compensation	...	...	...	...	...	142
Insurance	...	...	...	...	...	125
Injury	...	...	...	...	...	149
Injury to Police (Free)	...	...	...	...	...	1,740
Municipal Staff	...	...	...	...	...	2,943

The work of statistical record of out-patient Department and Admission and discharge data of Indoor patients has been taken on computer by Data Processing Section of the Corporation. From the data fed to the Computer Section we are getting various informations like alphabetical index, diagnostics index, operation index etc., and any other statistical information.

Anti Rabic Vaccination given during the year :

New	Old	Total
8,500	18,046	26,546

SOCIAL SERVICE DEPARTMENT

The Social Service Department of K. E. M. Hospital was started in September 1954 there are at present 14 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 with the help of donations received.
- (2) The teaching programmes for the bed ridden Children is continued this year also.
- (3) Group session are conducted with patients in some wards.
- (4) Free food to patients relatives, milk powder and old clothes are given through Sanjivans Trust, Free food to patients relatives is also given in C. V. T. S. through Sanjivans Trust.
- (5) Donations in form of medicines, appliances, food grains etc. have been collected through various charitable organizations.
- (6) Entertainment programmes held in the wards.
- (7) Got telephone booths through NASECH for about ten paraplegics.
- (8) Medico-Social workers assist in various medical researches.

Whenever studies on social aspects are conducted.

Different types of services rendered :

Type of Service	No. of cases
1. Material and medical aid such as appliances callipers medicines, milk, powder etc.	3275
1. Case work	324
3. Social data	416
4. Helped to discharge indoor patients when there is a problem	105
5. Rehabilitation	119
6. Referral to other agencies	173
7. Relatives of patients suffering from T. B. referred to OHTL for X-ray and B. C. G. vaccination	310
8. Follow up	88
9. Cases taken up for Research project	135
Total	4895

SETH DHURMAL BAJAJ ORTHOPAEDIC CENTRE & RESEARCH INSTITUTE

The department has 240 official beds for Indoor patient care and its clinical work has been divided into four units with sixty beds each.

Total No. of Major operations performed 2210

GYNAECOLOGY AND OBSTETRIC DEPARTMENT

Obstetrics Cases & Operations	4984
Total No. of Confinements	4484
Total No. of Deliveries	4101
Booked cases	383
Emergency cases	3742
Full Term Normal Deliveries	742
Abnormal	35
Premature	332
	Still Born
	Live Born

Abnormal Deliveries :						
(A) Abnormal presentations—						
—Face	..	..	..	..	..	19
—Brow	..	..	..	..	..	5
—Transverse lie	..	..	..	..	..	17
—Breech	..	..	..	..	..	79
(B) L. Seg. Caesarian Section	..	..	..	..	..	264
(C) Forceps Deliveries	..	..	..	..	..	149
(D) Vacumm Ext.	..	..	..	..	..	37
(E) Twins	..	..	..	..	..	40
(F) Cord Present/Prolapse	..	..	..	..	..	12
Plasenta praevia	..	..	..	..	..	24
Accidental Haemorrhage	..	..	..	..	..	11
(G) M. R. P.	..	..	..	..	..	3
Abortions)	Ist Trimester		..IInd Trimester			1,288
—Spontaneous	..	..	..	..	..	135
—M. T. P.	..	..	..	..	..	365
—M. R. & Suction Family Planning	..	..	..	..	..	788
Neonatal Deaths in full term babies	..	..	..	..	..	20
in premature babies	..	..	..	..	..	96
Maternal Deaths	..	..	..	..	..	25
Still births	..	..	in full term + premature	..	..	118 36
V. Mole	..	..	..	..	..	2
Foetal Malformations	..	..	..	..	..	91
Maternal Abnormalities :						
Heart disease with Pregnancy	..	..	..	..	..	36
Jaundice	..	..	..	..	..	2
Previous L. S. C. S.	..	..	..	..	..	57
B O E with Pregnancy	..	..	..	..	..	60
Triplets	..	..	..	..	..	1
Eclmpsia	..	..	..	..	..	23
Pre-eclampsia	..	..	..	..	..	266
Asthma	..	..	..	..	..	2
Hypertation	..	..	..	..	..	3
Gynaec Cases and Operation :						
Total No. of Admissions	..	..	..	..	..	1,124
D. & C.	..	..	..	..	..	14
Vag. Hysterectomy	..	..	..	..	..	472
Expl. Laparotomy	..	..	..	..	..	60
Abd. Hysterectomy	..	..	..	..	..	67
Forthergills	..	..	..	..	..	33
V. V. F.	..	..	..	..	..	11
Wertheims	..	..	..	..	..	14
Mayowards Hysterectomy	..	..	..	..	..	68
Cervicopexy	..	..	..	..	..	23
A. P. Repairs	..	..	..	..	..	19
Tuboplasty	..	..	..	..	..	13
Perineal tear Repair	..	..	..	..	..	6
Myomectomy	..	..	..	..	..	7

Dr. N. A. Parandare Research Centre :**I--Serology :**

Blood group Rh	5,998
V. D. R. L.	5,748
Antibodies	22
Cord blood for DCT	238
Jaundice cases Rh & S. Bilirubin	680
Hb. estimation	5,998

II--Microbiology :

Trichomoniasis, Moniliasis Screening	922
Culture of Hemolytic organism	30

III -- Biochemical :

Blood sugar	6,124
G. T. C.	480
Creatinine	634
B. U. N.	2,523
Liver Function Test	440
Fibrinogen	48
Protein	500
Uric Acid	340

Quality Control Programme of Vellor Participating from June, 1981.

IV--Hormones Routine

C. G. Hormone Test	214
Estrogen and Creatinine. in H. R. P.	1,041
17 Ketosteroids in Gynaec disorders	152

Special Studies :

Semen Analysis	1,392
Bar Bodiss in Endocrine patients	68

Endocrine O. P. D. :

Total No. of New Cases	416
Primary Amenorrhoea	45
Secondary Amenorrhoea	78
Oligomenorrhoea	82
Hypomenorrhoea	10
Polymenorrhoea	1
Menorrhagia	1
Total No. of cases with Irrage, Menst. and Cycle	82
Hirsutim	1
Vaginal Smear	645
Cervical Mucus	645
Endometrial Biopsy	99
Buccal Smear	45
Semen Examination	192
17 Ketosteroids	3
Induction of Ovulation	10
Precocious Puberty	2
Galactorrhoeas	5
Sterility	192

M. T. P. Sections :

Total M. T. P.	1089
(a) First Trimester (Including prop. dil. with various methods & S. E. 12 weeks)	938
(b) Second Trimester	151
(c) Menstrual regulation studies (Including in 1st trimester)	118
Out-patient suction evacuation of 1st trimester M. T.P.	820
Mid-trimester termination of pregnancy :	
Extra-amniotic injection of Unacredil for midtrimester abortion	64

Prostaglandins :

Intra-amniotic PGF2 a 50mg. and 15 Methyl PGF2 2.5 mg.	47
Cancer Cytology in M. T. P. Cases	All cases
Sulprostone injection	3
I. M. Prostaglandins/SE	119

Oral Contraceptive Centre

	Oral pills	Cut	Multiload	Net Inj.	LP
Total No. of new patients ..	137	339	72	96	381
No. of cases continuing at the end of the year ..	640	1725	779	161	170
No. of cases closed during the year ..	150	112	70	24	171
Cytology taken ..			All cases		
Post Partum Programme :					
Months	Vasectomy	Tubectomy	I. U. C. D.	M. T. P.	
January ..	7	97	78	170	
February ..	6	72	68	162	
March ..	4	94	63	183	
April ..	2	114	70	203	
May ..	4	85	71	135	
June ..	2	112	54	155	
July ..	9	101	44	142	
August ..	10	84	60	139	
September ..	17	84	58	141	
October ..	31	97	52	145	
November ..	13	85	48	108	
December ..	9	97	67	145	

C. V. T. C. Laboratory :

The Cardio-Vascular and Thoracic Centre and Laboratory has following sections :-

- (1) Clinical Pathology.
- (2) Clinical Biochemistry.
- (3) Histopathology.
- (4) Research Section.

The tests which have been carried out in the laboratory during the year 1981 were as follows :-

CLINICAL PATHOLOGY SECTION :

	No. of samples	No. of Tests
(a) Complete Haemogram. (Haemoglobin WBC, Total & differential Count PCV, & ESR) ..	9118	45590
Malarial parasites ..	22	22
Lupus Erythematosus (L. E. Ohen) ..	28	28
(b) Routine analysis of Urine, Stool, Sputum & body Fluid including microscopic examination.		
Urine ..	4587	9174
Stool ..	3017	3017
Sputum ..	2140	2140
Pleural Fluid ..	36	36
	18948	60007

BIOCHEMICAL SECTION :

	No. of Samples	No. of Tests
(a) Liver Function Test ..	3487	20922
Alkaline Phosphatase ..	290	290
Acid Phosphatase ..	9	9
Prothrombin Time ..	1847	1847
Clotting time ..	1057	1057
Bleeding time ..	1018	1018
E. P. P. ..	185	185
Serum Glutamic Oxalacetis Transaminase ..	4932	4932
Serum Glutamic Pysuvate Transaminase ..	4931	4931
Serum Amylase ..	3	3
(b) Carbohydrate metabolism—		
Blood Sugar ..	6049	6049
Urine Sugar Quantitative & Qualitative ..	893	893
(c) Kidney Function Tests—		
Blood Urea Nitrogen ..	6450	6450
Creatinine ..	4586	4586
Uric Acid ..	404	404
(d) Lipid Profile—		
Total Cholesterol ..	3190	3190
Triglycerides ..	2399	2399
(e) Serum Electrolytes—		
(Sodium, Potasium & Chloorides) ..	12766	38388
Calcium Ca) ..	142	142
Phosphorous (P) ..	119	119
	4757	97764

HISTOPATHOLOGY SECTION :

(1) Surgical SP. received and Processed	..	..	721
(2) Surgical Slides stained	..	..	1550
(3) Autopsy specimens received & Processed	..	..	298
(4) Whole lung sections proceeded	..	..	38
(5) Cytology samples processed	..	..	298
(6) Cytology slides stained	..	..	894
(7) P. M. sections processed	..	..	4700
(8) P. M. slides stained	..	..	9600

DEPARTMENT OF MEDICINES

The Department of Medicine as before, comprises of three fulltime and three honorary teaching units with the following sections under the Head of the Department of Medicine.

(1) Nephrology, (2) Gastroenterology, (3) Haematology, (4) Division of Endocrinology & Metabolic Disorders, (5) Tetanus, (6) Arthritis and Immunology Clinic, and (7) Nuclear Medicine.

All the above mentioned sections are headed by Dr. (Smt.) V. N. Acharya who is the Professor and Head of the Department of Medicine. The Department has a backup from its own laboratories for service and research. These include Biochemistry Laboratory (No. 44) and Applied Biology Laboratory (No. 26) under the supervision of Dr. B. S. Kulkarni, Professor of Clinical Chemistry attached to the department.

The Nuclear Medicine laboratory continues to be under the charge of Dr. G. H. Tilve and offers services of scanning of various organs like liver, kidney, brain, lung etc.

The Haematology Laboratory forms a section of the J. C. Patel Haematology lab and continues to work in the ground floor of K. E. M. Hospital near the Blood Bank.

The Artificial Kidney Dept. of the Nephrology Section of the Dept. of med. continues to undertake multifarious responsibilities including dialysis of acute and chronic renal failure patients with transplantation. In this unit with the 5 bedded central monitoring unit, larger number of patients are being prepared for transplanatation by regular dialysis treatment. The applied biology unit attached to the unit continues to study the problems of urinary tract infection as a part of preventive programme of renal failure. Training programme of nurses, technicians and other personnels in the art and science of dialysis is being continued as before. The new ten bedded unit exclusively for the treatment of patients of renal transplanatation is under construction on the terrace of the main building of the K. E. M. Hospital and is likely to be completed and commissioned in the year 1982. This will also have a separate research laboratory a seminar hall for the teaching and training of technicians and nurses and the kidney museum.

The Tetanus Section of the Dept. of medicine saw a total of 434 new admissions with overhaul mortality of this section completed the I. C. M. R. project of 'Clinical and Electrophysiological studies in Tetanus'. This study has thrown better insight into the basic functional problems of tetanus. Out of the work done in Tetanus, 5 good quality papers have been published by this section duuring the year

The Division of Endocrinology and Metabolic Disorders saw a total of 2366 new cases in its Diabetic and Puberty & Growth Clinic. A project 'Physical Exercise in the treatment of Diabetes Mellitus. was continued in collaboration with the Physiotherapy Deptt. and has been recognised presentation at the Conference of World Federation of Physical Therapist in Stockholm in May 82. In this section also several projects have been undertaken and completed during the year. In the laboratory attached to this clinic a total of 26703 investigations were done.

The Arthritis and Immunology Clinic continues to offer its good services to its patients. it saw 387 new patients and a total of 2558 patients of all kinds.

The Gastroenterology Clinic continues to offer its good services as before to the needy patient of Gastro disorder. Besides this a large number of investigations are done, and the dept. continues to share endoscopy facilities offered by the Dept. of Surgery for their benefit.

The laboratory No. 44,45 and 26 continues to share vary heavy work load as during the year under consideration a total of 1, 74, 044, tests of various kinds were done. The qualities of these estimations continue to be of very high standard and the same has been appreciated by all the units.

Renal Unit and the Artificial Kidney Division j

The Nephrology Unit which looks after the preventive aspects of renal disease and renal failure is run by appointment twice a week on Mondays and Thursdays. The clinic saw 1561 patients during the year 1981. Bacteriology of urine diet advice and certain immunological and biochemical tests were done on the spot for all the patients attending this clinic.

A total of 188 Kidney biopsies were done in this clinic. Many patients were referred as emergency cases for consideration for dialysis by various units of this hospital and from outside which included the patients from the city of Bombay, various cities of Maharashtra and the neighbouring states. A total number of 1517 dialysis were performed on 328 patients during this year (1352 haemodialysis and 165 peritoneal dialysis).

	Acute	Poisoning	Snakebite	Schezophernia	Chronic	dialysis.
Haemodialysis	113	30	1	13	1195	1352
Peritoneal Dialysis	27	1	..	17	126	165

Haemodialysis service has been markedly improved with the smooth working of Extracorporeal D. P. M. System which can dialyse 5 patients simultaneously besides using the Drake-Willock and Cordis Dow dialysystem. The addition of Drake Willock Automatic Peritoneal dialysis machine and Drake Willock Model 7200 with which it is possible to dialyse patients both with acetate dialysate and bicarbonate dilysate, have increased the efficiency of the unit. Besides, already existing Kill dialysers, Meltec micropoint dialysers, and disposable dialysers like hollow fibre (C.DAK, ASAHI, TRIEX etc.) Gambro and Cobe plate dialysers have also been used on patients with intoxication and others with jaundice who otherwise could not receive haemodialysis for fear of hepatitis transmission. The hemoperfusion cartridge which consists of activated charcoal granules coated with cellophane were use with very good result in case of intoxications.

A new method known as "modified sequential ultrafiltration hacmodialysis was also put to use with very good results on patients undergoing haemodialysis. This involved saving of dialysate.

The training programme for doctors, nurses and technicians were conducted twice a year as usual to include theory as well as practical demonstration. Each course was spread over a period of 3 half months. A large number of B. Sc. nursing students from S. N. D. T. University also were trained regarding the dialysis procedures and other important nephrological tests.

The Division of Endocrinology and Metabolic Disorders :

The Division gave service to outpatients as under .

	New patients	Old patients
Diabetes Clinic ..	709	12466
Endocrinology Clinic ..	1532	2530
Puberty and Growth Clinic ...	125	209

The Division treated 117 males and 105 females as inpatients. Laboratory tests performed in the year.

Test	Number
Blood sugar	14743
Urine sugar	3562
Urine albumin	30
Urine routine	1063
Hemoglobin	1051
E. S. R.	1001
W. B. C. Count	1004
Serum Proteins	855
Blood Urea Nitrogen	849
Setum Cholesterol	971
Serum Creatinine	249
Creatinine Clerance	86
Acid Load Test	51
Water Load Test	7
Urine Quantitative Sugar	25
Bile Pigments	36
Acetone	585
Osmoianty	407
Dog Blood Sugur	40
Barr Body Determination	88
Total ..	26703

Radioisotope Laboratory :

Radioiodine uptake test	640
Thyroid Scan	448
Charcoal T3 uptake study	1170
Liver scans	877
Brain scans	1057
Bone scans	40
Kidney scans	108
Lung scans	4
Renograms	12
Urinary steroids	31
I-131 therapy dose	40
Endocrine O. P. D.	
Old patients ..2530	
New patients ..1532	

Haematology Department:

Investigations	No.
Complete Blood Count (C. B. C.)	8463
Platelets Count	735
Erythrocyte Sedimentation Rate (E. S. R.)	586
Bone Marrow Biopsy	197
L. E. Test	586
Bone-narrow Iron Staining	136
Urine Hemogiderin	1787
Serum Iron	1787
Total Iron Binding Capacity	2
Acid Haematin Test	1337
Red Blood Cell Fragility	1308
Sickling	1337
Foetal Haemoglobin	1337
Haemoglobin Electrophoresis	2
R. B. C. Survival	335
Sucrose lysis	350
Clotting Time	415
Bleeding Time	349
Prothrombin Time	411
Clot Retraction Time	175
Thrombin Time	324
Thromboplastin Generation Test	534
Partial Thromboplastin Time with Kaolin	275
A. H. G.	586
Bone-narrow Iron Stating	51
B12 estimation	51
Folic Acid in serum	51
Red cell Folate	53

Patients attending Hematology Department during the year 1981 :

	Total	New	Old
O. P. D. Patients	5347	2013	3334
Indoor Patients	327	..	..

Biochemical Section of Deptt. of Medicine & Surgery :**Laboratories 44, 45, & 46—**

Biochemical (Routine	1,54,839
BUN	17,004
Creatinine	17,004
Proteins (Alb. & Glob.)	17,004
Serum uricaeid	3,110
Urine uric acid	1,110
Bilirubin (total and direct)	17,004
Bnzyme (SGPT)	6,240
(SGOT)	5,026
Sugar	7,701
Calcium	1,515
Phosphorus	1,330
Alk. Phosphatase	1,250
Electrolytes Na-	15,270
Cl-	15,270
HCO ₃	15,270
Serum Cholesterol	1,700
Urine Chemistry	534
Acid Phosphatase	25

(B) Hemotological Investigations (Routine)

WBC—T/D, RBC, Hb, PCV, ESR Rectic count, Platelet, count.	5,928
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(C) Routine Urine Estimations

(Sp. Gr. Alb. Sugar, Microscopic, Spectroscopic).	5,116
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(D) Stool examination and Sigmoidoscopy swab.

	1,000
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(E) Special Studies

(a) Creatinine Clerance	650
(b) D-Xylose studies	152
(c) Fqecal fat	146
(d) Gastric analysis	140
(e) Osmolality (P of U.)	506
(f) Blood and urine barbiturate	170

(g) Blood ammonia	2
(h) Acid load test	65
(i) Methamoglobin	10
(j) Fibrinogen	85
(k) Prothrombin time	752
(l) Serum amylas	180
(m) Serum EPP	26
(n) Serum Iron and Iron binding capacity	32

Laboratory No. 26 :

(1) Urine culture and sensitivity done (total)	3,206
(a) Bladder puncture samples	712
(b) Mid-stream urine sample and catheter sample	2,494
(2) Blood cultures done	57
(3) Miscellaneous cultures	517
Catheter tip	104
Ascitic Fluid and pleural fluid	26
Wound swabs	202
Kidney biopsy fluid	50
Peritoneal fluid	135
(4) Antibody titre estimation	103
(5) Immunoglobulin estimation	29
(6) Au. Ag. and Au. Ab. detection	269
(7) Alpha-Fotoprotein	20
(8) Drug trial	
(a) Trimethoprim + Sulphadizine	
(b) Trimethoprim + Nitrofurantoin—	
Short term	7
Long term	2
(c) Septran trial	3
(d) Trimethoprim trial	15
(e) Cetatoxima trial	26
(f) Netilmycin trial	
Total Number of investigations	174044

Department of Cardiology, K. E. M. Hospital

Indoor Patients	Cardiac OPD Patients		ECG Total
	New	Follow up	
1935	3873	14798	33514

Intensive Cardiac Care Unit

Cases admitted	807
Pacings · Temporary	52
Permanent	9
Pacemaker followups	60
Echocardiography	805
Vectorcardiography	32
Jos Nimde Electrocardiography	25
ECGS. ICCU	4,242
Ward no. 32	2,480
Treadmill stress test	295
Cardioversions	60
Oesophageal ECGs	13
Cardiogenic shocks	46
Rehabilitation ·	No. of Patients
Occupational Therapy	165
Isoprenaline & Atropine studies	31
Arhythmias	Major 126
Minor	850

Vakil Institute of Cardiology

Cases admitted :	Audlt Pts.	563	
	Paed. Pts.	165	728
Echocardiograms		3,568	
Vectorcardiograms		309	
Electrocardiograms		2,914	
Treadmill		218	

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

Speech New cases	..	..	..	237
Audiology		New cases		2,826
		Follow up		700
		Impedance		1,133

DEPARTMENT OF GASTROENTEROLOGY

Total number of new patients attended O. P. D.	..	..	..	..	270
No. of Investigations	..	..	..	..	1,250

TUMOUR CLINIC

During this year, over 300 patients attended out-patient department. Among indoor cases over 60 consultations were given. The clinic continues to provide following services :—

- (1) Planning treatment for cancer cases.
- (2) Follow up of old cases
- (3) Management of advanced cancer cases.
- (4) Relief of Pain
- (5) Teaching Post-graduate students.

DEPARTMENT OF UROLOGY:

The work done in the Department of Urology was as follows :

No. of O. P. D. Cases	..	3,666	Trans-urethral resection of prostate	55
No. of Indoor admission		756		
Major Operation	..	234	Other endoscopic operation	58
Minor Operations	..	680	Kidney Transplantations	3
Diagnostic Cystoscopy	..	501	Microsurgery of the Vas deferens	3
			Cryosurgery of the prostate	1

The special feature of the workdone during the year was the introduction of Microsurgery for Vas-reanastomosis in case of vasectomy and Cryosurgery for prostatic enlargement in poor risk cases. The programme of Kidney transplantation was continued and 3 cases were subjected to successful renal transplantation from live related donors. The regular Uro-radiology meetings were also continued for post-graduate teaching. The Department organised a meeting of the Bombay Urological Society on 26th March 1981.

DEPARTMENT OF PLASTIC SURGERY

(1) Weekly out-patient Clinic held every Thursday in the afternoon in I. O. P. D. No. 5.	..	..	..	912
(2) Follow-up clinic conducted by the Honoraries thrice a week				1,108
(3) Patient referred from other departments to this department				513
(4) The feeding guidance clinic held every Sunday morning for Cleft Lip and palate patients	..	..	..	240
(5) Keloid Clinic for Kenacort Injection held every Thursday in the morning				308
(6) Patients referred from the Casualty department	..	..	..	2,274
(7) Indoor patients admitted to Ward Nos. 16 & 16A	..	..	..	405
(8) Operative procedures carried out in P. S. T.	..	..	..	1,058
(9) Emergency procedures carried out in J. M. T. by our Residents	..	..	..	1,226
(10) Outdoor dressings carried out by our Resident Doctors, during the follow up held every day in the evening except Sunday	..	..	..	2,450
(11) Burns Unit planned to meet about 12 female burns cases started functioning during the year. Patients treated-(Upto 50 percent burns)				44

DEPARTMENT OF CHEST MEDICINE

The load of outpatient and inpatient departments showed an increase in the year 1981. 2125 new cases were registered in Chest Clinic and 12555 and old cases attended in addition for regular follow-up. There were 712 patients who were admitted for indoor treatment in the year 1981. The number of patients referred for Intensive Care was 192 as against 162 in 1980. The referral work on the whole has shown an increase. About half the patients needing intensive care were put on machine for respiratory assistance. The attendance of Phneumoconiosis and Allergy clinic was 822 in the year 1981 of these 62 patients were tested for allergies with skin tests. The total cases operated surgically in this unit in 1981 is 52.

The load of Pulmonary Function Laboratory is given below :

1981	Blood Gas	Other tests	Pulmonary Function Test	
	Ward samples		OPD & Indoor? patients.	Research
	4836	3000	1200	1930

AIR POLLUTION HEALTH SURVEY UNIT

During the period a cross sectional survey in Chembur on 9,235 subjects with lung function measurement in 510 subjects was carried out. Analyses of earlier data and preparation for processing on computer were done. This data was analysed and a provisional report submitted. The processing of earlier data collected on 4,000 subjects for 3 years was done for computer analyses. In addition the unit staff has carried out a follow up of chronic bronchitis (100 patients). It also did a project on Histamine sensitivity in 28 patients during the period. The team particularly carried out a diet, food, water and health morbidity survey in a cross sectional population of 1,300 residents in Dadar. This was analysed and a report was submitted. Statistical analyses on causes of death and health diary morbidity were also carried out. Similarly a study of Carbohaemoglobin levels in 173 patients with coronary heart disease was carried out serially for 3 days.

Department of Paediatric Medical :

Indoor patients : Male 1,741	Female : 1,218	Total : 2,959
Out-door patients : Male 7,448	Female : 5,645	Total : 13,093
New borns (Post-natal ward)	Total No of Live Births-4,244	
	Total No of Still Births- 144	

Perinatal mortality for year 1981-64 per1000

Speciality O. P. D. Attendance :

Juvenile Diabetes	.. .. .	55
Genetic O. P. D.	.. .. .	598
Pediatric Chest Clinic	.. .. .	766
Rheumatic/Nephrology	.. .. .	440
Rheumatic	.. .. .	325
Renal	.. .. .	115
Well Baby Clinic	.. .. .	7,801
High Risk Infant O. P. D. (B. O. H.)	.. .. .	717
Urban Health Centres :		
(1) Malvani	Unit I	
(2) Prabhadevi	Unit II	
(3) Naigaum Urban slums	Unit III	
Urban Health Programme		

Under this programme comprehensive care is provided to infants and unders x cl n'cs conducted for treatment of minor ailments, developmental assessment, immun-zat on, nutr t on advice, education nutritional supplementat on etc. at follow ng centres :-

- (1) Malvani slum Welfare Centre Unit I and P, S. M. Dept. consultancy serv ce prov'ed by visiting Paediatrician every Wednesday afternoon.
- (2) Prabhadevi Child Welfare Centre : Unit II
- (3) 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 the 'F' and 'G' wards are transported to K. E. M. Hospital for regular check-up, investigations and treatment.

Undergraduate teaching programme :

Consists of a three month posting of student to the pediatric Wards. Consists of a series of a serie of 40 lectures, 60 clinics, ward rounds, O. P. D. attendance and teaching, emergency management, and audiovisual teaching aids. Topics covered include history taking and examination in pe-pediatrics, diseases of children and their management, care of normal and sick newborn, pediatric emergencies and preventive and social Pediatrics. The students performance is evaluated in the last week of the term. (theory & practical) Each unit, has its own clinic schedule for students, the didactic lectures being conducted collectively.

Post-graduate teaching programme : Consists of university lectures series, clinics by chiefs of the unit and other senior staff members, seminars, journal clubs, death conference and intensive teaching programmes held yearly.

Special Events :

Under the auspices of Combined Asian Regional and Commonwealth Congress for the Scie-l-tific study of Mental Deficiency and IRAMD, IASSMD, ILSMH, HNIMHANS Bangalore, and Social Welfare Ministry of Government of India, a Pre-congress Workshop and Symposium was held in Bombay at the Taj Intercontinental Hotel on 1st May, 1981, with workshop held at the J. J. Hospital and the K. E. M. Hospital, on the 2nd May 1981. These events coincided with the International Year for Disabled Persons. Dr. N. B. Kumta was one of the Chief Conveners for the workshop. The K. E. M. workshop dealt with Recent Advances in Cytogenetic aspects of Mental Retardation convened by Dr. Kumta and presided over by Prof. Berg. Professor of Psychiatry and Medical Genetics, University of Toronto, where papers were presented by our Genetic Department and by other workers from all over the country. The workshop also had a session on biochemical aspects of mental retardation, chaired by Dr. I. B. Sardharwala, Consultant Paediatrician and Director, Willink Biochemical Genetic Unit, Macheater, U. K.

The workshop was attended by 76 foreigners and about 300 Indian delegates comprising Pediatricians, Obstetricians, Psychiatrists, Neurologists, geneticists, family Physicians and parents and the teachers actively involved in training and rehabilitation of mentally handicapped children. The main emphasis during the symposium was on various aspects of prevention, early detection and rehabilitation of mentally handicapped as part and parcel of comprehensive health care. The symposium was assisted by UNICEF and UGC, DSI.

II An Intensive Post-graduate Teaching Course was organised by the Department of Pediatrics, K. E. M. Hospital and Seth G. S. Medical college for 4th September to 14th September, 1981, about one month before scheduled University Post-graduate examinations. This is the first time that such an intensive course has been organised, by this department. Chiefs of all Pediatric units from the K. E. M. Hospital, Jerbai Wadia, Hospital Nair and Sion hospitals were invited to lecture on subjects of importance for post-graduates in the subject of Pediatrics with special emphasis on recent advances. Case demonstrations and discussions were also held. The registration fee was a nominal Rs. 10 each. The response from postgraduates of all five hospitals and others was overwhelming and at conclusion, suggestion and modifications were invited from all the attending students for future courses.

III A large consignment of text books, reference books was donated by the British High Commission to the Pediatric Research Laboratory, dealing with laboratory aspects, clinical genetics and others general pediatric & Pediatric speciality tests. This Library is a "Self-service" one open to all during the working hours of the Laboratory, only for reading at the site.

IV A plan for an Intensive Pediatric Care Unit (IPCU) has been designed and has been approved in principle.

Paediatric Research Laboratory (PRL)

The laboratory continues to make progress. Referrals has increased from 517 cases in 1980 to nearly 600 cases in 1981 from our own hospital and other Municipal and government hospitals from the city and outside. The cytogenetic side continues to provide karyotype services for relevant cases. The biochemical section has set-up a standardised 2 more leucocyte enzymes—B galactosidase and aryl sulfatases A and B. As a result of this facility we have been able to confidently diagnose 2 cases of GM1 gangliosidosis and one of metachromatic leucodystrophy. Also by setting up of method for serum lactate and RBC glycogen quantitation-3 cases of glycogen storage disease have been diagnosed and typed.

Routine screening of newborns for inborn errors of amino-acid metabolism was also started of 2500 newborns already screened, 36 were found to have abnormal elevations of amino-acids for whom follow-up tests are in progress. The early detection of these disorders could prevent gross mental retardation, morbidity and mortality from these defects.

Procedure for determination of alpha-fetoprotein has been standardised using rocket immunoelectrophoresis. We are awaiting facilities for amniocentesis, along with ultrasonography (already acquired by the hospital for amniotic fluid samples).

The process of setting up tissue cultures is under way. Special requirements such as Leighton tubes and fetal bovine serum have been ordered. Fibroblast cultures should be possible soon, as carbon dioxide incubator has been acquired.

A.—Biochemical Tests

(1) AminoAcidograms (Plasma & Urine)	1,674
(2) Ammonia	71
(3) Bilirubin (Serum)	398
(4) Cholesterol (Serum)	424
(5) Creatinine (serum & Urine)	1,781
(6) Copper (serum & Urine)	54
(7) Ceruloplasmin (Serum)	54
(8) Calcium (Serum & Urine)	466
(9) Hair Bulb tests	24
(10) Phosphorus (Serum & Urine)	440
(11) Sugar Chromatography	43
(12) Blood Sugar	59
(13) Alkaline Phosphatase (Serum & Urine)	608
(14) L. F. T.	359

B.—Enzymes :

(1) Aryl Sulphatase A	119
(2) B-Galactosidosis	119
(3) Hexosaminidase A	119
(4) Isoenzyme (Hex) by electrophoresis	100
(5) —L iduronidase	10
(6) Sphingomyelinase	12
(7) Gal-1-Put in (RBC) qualitative	11
(8) Screening Beutler test)	11
Miscellaneous enzymes	
(1) Sialic acid	1
(2) RBC Glucogen	1
(3) Oligosaccharides	4

C.—Electrophoresis

(1) Serum & Urine Proteins	..	..	..	..	1,155
(2) Protein EPP (Serum & Urine)	..	..	..	..	307
(3) Haemoglobins	..	..	..	..	212
(4) LDH (CSF & Serum)	..	..	..	..	150

D.—Haematology

(1) Serum Iron & T. I. B. C.	..	..	..	..	431
(2) Osmatic granility	..	..	..	..	54
(3) G6PD (Galactase-6-Phos. Deficiency)	45

E.—Aminology

(1) Imminoglobulin Ig.	125
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F.—Microbiological tests :

- (1) Mycobacterium T. B. by acid fast and flurescent staining

G.—M. R. Tests :

(1) Feric Chloride tests	..	..	..	..	1,474
(2) Penedicts tests	..	..	..	..	1,474
(3) Cyanide-Nitroprusside tests	..	..	..	..	1,474
(4) I-2 Nitrosonaphthol tests	..	..	..	..	1,474
(5) Alcian blue spot tests	..	..	..	..	1,474
(6) Toludine blue spot tests	..	..	..	..	1,474
(7) C. T. A. B. turbidity tests	..	..	..	..	1,474
(8) D N D H tests	..	..	..	..	1,474
(9) Isatice tests	..	..	..	..	1,474
(10) Ninhydrin tests	..	..	..	..	1,474
(11) P-dimethyl aminovenzaldehyde tests	..	..	..	..	1,474
(12) Cone H2 SO4 tests	..	..	..	..	1,474

M. P. S.

(1) Albumin Turbidity test	..	..	..	..	819
(2) CPC Turbidity tests	..	..	..	..	819
(3) Alcian Blue spot tests	..	..	..	..	819
(4) Toludine Blue spot test	..	..	..	..	819
(5) Quantitative estimation of M. P. S. (EPP)	..	..	..	..	197

H.—Cytogenetic

(1) A. F. Culuture for standardisation	..	..	..	..	30
(2) Skin fibroblast standardisation of enzymes	..	..	..	..	25
(3) Barr bodies	..	..	..	..	75
(4) Blood Lymphocyte culture	..	..	..	..	220
(5) Harvesting for blood cultures	..	..	..	..	220
(6) Preparation of metaphase chromosomal and conventional stating & screening of slides	..	..	..	..	220
(7) Giemsa banding & Screening of slides	..	..	..	..	220

B. O. H. report of the year 1981

	Premature	Forceps	Breech	L.S.C.S.	Misc.
Total	153	88	68	130	96
Follow up	56	33	11	41	41

Unit I

Total Admissions	Deaths Within 24 hrs.	After 24-hrs.	Discharged	Mortality Rate
987	59	59	869	

New Born statistics

Live Births	Still Births	Deaths.	Well Baby Clinic	
			New	Old
1341	42	35	731	14333

Unit II

O. P. D. Attendance : 4281 Patients.
Well Baby Clinic : 1981

New cases	Old Cases		Total	
810	1950		2760	
Paediatric Chest Clinic :	766			
Patients attending Juvenile Diabetic O. P. D. : 55				
Total Admissions	Deaths		Discharged	Mortality Rate
	Within 24 hrs.	After 24 hrs.		
1156	6	46	1043	
New Born Statistics			Well Baby Clinic	
Live Births	Still Births	Deaths	New	Old
2026	78		661	2216

Department of Neurology

The Neurology department runs two outpatients in each neurology and epilepsy out patients. These continue to be well attended and becoming popular. The department has patients not only from Bombay but from all over India and abroad. The staff consists of Hon. Professor, three tutors and two registrars and two house physicians.

The E. E. G. department has functioned well and has recovered 565 graphs in 1981-82.

Radiological investigations like air studies, myelography, single and four vessel angiography are performed with the assistance of the department of radiology. Brain scanning and cerebral blood flow are studied with the assistance of the department of medicine.

The epilepsy cases are regularly being followed up by the staff and their medical social data is collected. Home visits are paid by the medical social worker and attempt is being made to rehabilitate some-needy patients.

Research work is in full progress and papers continued to be presented at various Medical conference.

NEURO-SURGERY DEPARTMENT

This service appears to meet a need. During the year 240 new patients were seen of whom 77 were transferred to our K. E. M. Hospital department for investigation and surgery. The progress of our O. P. D. is especially striking when compared to that at the other speciality O. P. D.s set up at the Cooper Hospital at the same time.

We make a plea for the provision of efficient and rapid patient transport system which will reach a seriously ill individual from peripheral hospital to specialist department without delay. Likewise, it is important to provide efficient transport in the reverse direction so, that convalescing patients can be immediately sent back to the peripheral hospital. Such a facility will help avoid overcrowding in specialist departments and will be to the advantage of patients.

Statistic Regarding Out-patients and In-patients :

Out-patients :

Sex	New Attendance	Old Attendance	Total Attendance
Male	1385	1960	3345
Female	699	852	1551
Male Child	344	411	755
Female Child	247	279	526
Total	2675	3502	6177

In-Patients :

Sex	Admission	Discharged	Death
Male	431	396	36
Female	194	173	21
Male Child	136	125	11
Female Child	73	66	7
Total	834	760	75

Investigations during the year 1981 (X-ray)	..	..	2460
Operations performed during the year 1981	..	..	858

DEPARTMENT OF DERMATOLOGY AND VENEROLOGY

Diagnostic classification of the V. D. cases, during the year 1981 :

Syphilis	..	..	..	..	..	373
Gonorrhoea	..	..	..	..	..	202
Syphilis + Gonorrhoea	..	..	..	..	..	10
Chancroid & others	..	..	..	..	..	777
Lymphogranuloma	..	..	..	..	..	71
Granuloma Inguinata	..	..	..	..	..	22
N. G. U.	..	..	..	..	..	20
Under Investigation	..	..	..	..	..	705
Total New V. D. Cases						2180

Total New Cases During the year 1981 :

Male	Female	Children	Total
2037	119	24	2180

Total V. D. Cases during the year 1981 :

New	Old	Total
2180	3504	5684

Statement showing Smears, Biopsies, Allergy patch, Tests etc. done during the year 1981 :

Urethral Smear TS/PS/VIS/CS	..	..	..	..	752
Urine Examination	..	..	..	..	33
Blood Examination	..	..	..	..	29
Biopsy	..	..	..	..	675
Allergy patch Tests	..	..	..	..	12
Total					1501

Diagnostic Classification of New & Old Cases :

Infections	New Cases	Old Cases	Total	
(1) Acne	448	325	773	
(2) Bacterial Eczema	308	275	583	
(3) Other Allergy	432	509	941	
(4) Alopecia	198	212	410	
(5) Deficiency Dermatoses	102	175	277	
(6) Furunculosis	195	150	345	
(7) Fissures in Soles	204	110	314	
(8) Herpes Zoster	197	125	322	
(9) Leprosy	560	2733	3293	
(10) Lichen Planus	208	320	528	
(11) Psoriasis	334	729	1,063	
(12) Pyoderma	6,144	2,216	8,360	
(13) Mycotic	4,598	4,532	9,130	
(14) Bullous Dermatitis	45	105	150	
(15) Pellagra	100	82	182	
(16) Pityriasis Rosea	64	100	164	
(17) Scabies	11,321	7,225	18,546	
(18) Sebregoea	120	214	334	
(19) T. B. Cuties	40	89	129	
(20) Vitiligo	196	185	381	
(21) Warts	418	215	633	
(22) Pruritus	216	199	415	
(23) V. D. Cases	2,180	3,504	5,684	
Total		28,628	24,329	52,957

Other Skin Diseases (Total no. of Patients) ; 406

Statement showing the Out-Patients treated in the Dept. of Mycology during the year 1981

Total Scraping done	..	..	..	..	..	2,218
Cultures done out of which	..	..	..	..	..	705
T. Corporis	..	..	..	..	..	130
T. Cruris	..	..	..	..	..	50
T. Capitis	..	..	..	..	..	27
T. Barbae	..	..	..	..	..	7
T. Pedis	..	..	..	..	..	39
T. Axillaris	..	..	..	..	..	11
T. Manum	..	..	..	..	..	17
Onychomycosis	..	..	..	..	..	131
Moniliasis	..	..	..	..	..	40
Mycetoma	..	..	..	..	..	18
Deep mycosis including C. S. T., Biopsy, Pus, Sptum, Gastric Levage etc., for fungal cultures	..	..	..	..	..	235
				Total	..	705

Report of Leprosy Department :	..	..	..	..	..
New patients registered at K. E. M. Hospital	..	..	..	..	..	560
Repeated patients	..	..	..	..	..	2,733
Referred from AIH	..	..	..	..	..	12
Patients from T. B. R.	..	..	..	..	..	2,179
Patients from N. B. R.	..	..	..	..	..	554

New Patients analysis :

		Tuberculoid	Intermediate	Lapromater	Total
Male	..	272	32	25	329
Female	..	145	14	3	162
Children	..	67	2	..	69
Total	..	484	48	28	560

Ana ysis of Old Patients :

		Tuberculoid	Intermediate	Lapromater	Total
Male	..	1,403	226	156	1,785
Female	..	664	66	36	766
Children	..	175	7	..	182
Total	..	2,242	299	192	2,733

Total attendance	..	..	..	..	14,924
Working days	..	..	..	..	147
Average per working day	..	..	..	..	101
Bact. Sear done	..	..	..	..	960
Positive	..	..	..	..	212
Negative	..	..	..	..	748
Sweet function	..	..	..	..	185
Concentration Test	..	..	..	..	Nil.

Molecular Biology Department :

(1) Total no. of samples processed for ASO titre estimation	..	..	..	..	1,160
(2) No. of throat swabs cultured	..	..	..	..	650
(3) No. of CRP detection	..	..	..	..	250
(4) No. of Anti DNase B titre estimations	..	..	..	..	650
(5) Total No. of groupings and antibiotic sensitivity testing of B haemolytic isolates	..	..	..	..	149

Cultures :

Urine	2360	Pus	350
Blood	239	A.F.B.	275
Miscellaneous : 443		Antibiotic sensitivity	1006

Dr. Sandesh Naik was awarded Phd and also promoted as Assistant Professor.

Department of Radiology

Statement showing work carried in the Department of Radiology 1-1-1981 to 31-12-81.

Procedures	No. 10	O. C.	No. 53	Cardiac Cath. lab. X-Ray Dept.	C.V.T.C.	NEURO surg. X-Ray Dept.	TOTAL
Plain X-Rays	70,084	29,882	175	14	140	1,543	1,01,838
Barium Studies	1,522	..	..	..	..	3	1,525
I. V. P.	..	..	..	..	1,691	..	1,691
H. S. G.	85	..	..	..	..	..	85
Myelogram	65	84	..	..	..	138	287
Cardiac Angiogram	415	..	..	..	..	298	713
P. E. G.	38	..	..	..	..	35	73
Vertebral Angiogram	7	..	..	..	..	86	93
Orbital Venogram	6	..	..	..	..	3	9
Jugular Venogram	2	..	..	..	..	..	2
Myodil Cistenogram	9	..	..	..	..	..	9
Sialogram	15	..	..	..	..	..	15
Tomogram	34	..	..	..	..	54	88
Aortogram	..	..	44	..	..	..	44
Arteriogram	..	..	71	..	..	..	71
Bronchogram	..	..	62	..	..	..	62
Splenogram	..	..	57	..	..	..	57
Venogram	..	..	113	..	..	..	113
Lymphangiogram	..	..	37	..	..	..	37
P. T. C.	..	..	..	10	..	..	10
Lung Biopsy	..	..	..	5	..	..	5
Durogram	..	..	..	..	..	1	1
Air Mylogram	..	..	..	..	..	17	17
Air Ventriculogram	..	..	..	..	..	124	124
Conray Ventriculogram	..	..	..	..	..	120	120
Total :	72,282	29,966	559	29	1,831	2,422	1,07,089

DEPARTMENT OF PSYCHIATRY

The department operates daily out-patients services. Patients do not have to take previous appointment.

Treatment Programmes—

1. Drug Therapy.
2. Electroconvulsive Therapy.
3. Modified Insulin Therapy
4. Auroactive Therapies
5. Psychotherapy
6. Behaviour therapy
7. Group Psychotherapy for sexual problems of males
8. Child Guidance Clinic
9. Occupational Therapy
10. Maintenance Therapy of Schizophrenia
11. Lithium Therapy Clinic
12. Chronic Alcoholism
13. Day Care Centre.
14. Biofeedback Therapy.

No. of patients offer various services in 1981 :-

	No. of Patients	No. of Sessions
1 New patients seen in O. P. D.	7165	..
1 New patients seen in casualty service	716	..
3 Follow-up O. P. D. visits	45094	..
4 Indoor admissions	1012	..
5 Electroconvulsive therapy (ECT)	1139	5726
6 Modified Insulin Therapy	2	60
7 Carbon dioxide abreactive therapy	12	96
8 Behaviour Therapy	93	130
9 Child Guidance Clinic	120	252
10 Maintenance Therapy for Chronic Schizophrenia	26	330
11 Occupational Therapy O. P. D. Cases	152	866
Indoor Cases	741	14017
12. Biofeed back therapy	43	512
13. Day Care Centre	27	389

Workload of Clinical Psychologists (Psychological Tests) :-

	No. of Patients
(a) Rorschach	954
(b) M. M. P. I.	417
(c) Intelligence tests (IQ and SQ)	994
(d) TAT and CAT	143
(e) B. G. and WMS	378
(f) Miscellaneous (TMAS, HARS, HPRSD, HOQ and MRS)	236

Workload of Psychiatric Social Worker :-

(a) Collection of Social data	879
(b) Social work — Short term	204
Long term	138
(c) Family Therapy	53
(d) Marital Counselling	132
(e) Orientation to parents of mentally retarded children and referral to school for M. R.	145
(f) Rehabilitation by referral to employment agencies	46
(g) Others	26
Electroencephalograms (EEG)	1104
Polygraphs tracings	310

MEDICAL CHECK-UP CENTRE

The Centre has examined, investigated and treated 342 patients during the year :-

	Patients treated
Diagnostic Centre, Parel—	
Family Health Centre	41702
Immunization —	
Polio	6,270
Triple	6,284
Lab Investigations	15,059

DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

Department of Pathology has three sections :-

1. Clinical Pathology Section which includes Clinical Biochemistry also.
2. Autopsy Section.
3. Surgical Histopathology Section.

Clinical Pathology : Out-Patients including Orthopaedic Centre :-

Type of Analysis	No. of Samples	Total No. of tests done
Haemograms	35,133	1,25,195
Urinalysis (Done by strips)	24,184	24,184
Stool Analysis	14,548	14,548
Sputom	2,626	2,626
B.T./C.T.	1,470	2,940
Total	77,961	1,69,493

Indoor Patients—

	No. of Samples	Total No. of Tests done
1. Haemograms	9,500	46,900
2. Other Haematological investigations (Reticulocyte count, platelet count, L. E. Cells etc.)	4,105	4,105
3. Cerebrospinal fluids	2,936	11,744
4. Other body fluids	1,344	2,688
5. Urinalysis	17,967	17,967
6. Stool Analysis	7,981	7,981
7. Sputum	2,897	2,897
Total	46,730	94,282

Clinical Biochemistry Section—

	No. of Samples	Total No. of Investigations
Blood Sugar	31,126	31,126
Blood Urea	13,979	13,979
G. T. Test	200	200
Serum Proteins	3,910	7,820
Serum Bilirubin	4,503	9,006
Alkaline Phosphate	2,147	2,147
Acid Phosphatase	283	283
S. G. O. T./S. G. P. T.	7,942	7,942
Serum Creatinine	3,947	3,947
Serum Calcium	1,303	1,303
Serum Amylase	1,108	1,108
Serum Phosphorous	1,303	1,303
Serum Cholesterol	1,336	1,336
Serum Electrolytes	8,918	26,754
Total	82,005	1,08,254

Autopsy Section—

No. of Autopsies (Total)	1,624
No. of Autopsy tissues processed	20,002
No. of slides prepared and stained	14,572
No. of Special Stains	1,166

Surgical Pathology Section—

No. of tissue received	7,323
No. of slides prepared and stained	19,089
No. of Special stains	1,964

Neuropathology Section—**No. of Samples****Neurochemistry—**

1. Cerebrospinal fluid	714
2. Blood urea and creatinine	990
3. Serum Cholesterol	250
4. Serum SGOT and GPT	525
5. Prothrombin time	250
6. Serum CPK	562
7. Urinary Amino Acid	50
8. Serum total protein, Serum bilirubin	525
9. Urinary Mucopolysaccharide	10
10. Haemogram	600
11. Urine Estimation for Cytomegalic inclusion	15
12. Urinary Metachromatic Granules	20
13. Serum Ceruloplasmin	15

Muscle Biopsy-Histochemistry—

1. ATPase, NADH Tr. and Phosphorylase	90
2. Erythrocyte membrane (normal and dystrophic (Na-K-Mg) ATPase, sialic acid SDS-Polyacrylamide gel electrophoresis)	40
3. Glycogen Storage Disease	2
4. Lipid Storage Disease	3
5. Urinary Coproporphyrins	2
6. Urinary creatine	20
7. Urinary Myoglobin	5
8. X-galactosidase, Superoxide dismutase, plasminogen activator activity	2

Histopathology—

	Total No. of cases	Blocks prepared	Slides prepared	Unstained slides Prepared
Surgical Biopses ..	483	666	666	2,000
Brain specimen from autopsy ..	278	1,500	sp. stains. 1,500	
External biopsy received ..	8	7	sp. stains. 32	
Smears from biopsy tissue for urgent diagnosis			sp. stains.	30 cases.

DEPARTMENT OF MICROBIOLOGY

Workload of the Department—

Bacteriology—

Material	No. of Samples	ABS
Pus	5465	2674
Stool	547	467
Urine	4325	1752
Blood culture (including No. of Subcultures) ..	2741	433
CSF	3327	26
Sputum	1507	922
AFB	992	..
Sterility checking	1779	..
Sterility checking of bottles and ampules ..	949	..
Post Mortum	224	..
Total	21766	6274

Serology—

Widal	1173
VDRL	6456
R. A. Test	823
CSF VDRL	978
Paul Bunnell Test	89
Test for Brucellosis	07
Weil Felix Test	08
Total	9534

Immunology—

1. Immunoglobulins by RID, IgG, IGA, Igm ..	96
2. T. Cell count	64
3. Australia antigen by CIEP	306
4. Passive haema. glutination test for Amoebiasis ..	39
5. Indirect fluorescent test for amoebiasis ..	39
6. Amoeba antigen direction by elisa	12
7. Passive haemagglutination test for toxoplasmosis.	250
8. Indirect fluorescent test for toxoplasmosis ..	200
9. XI antitrypsin	12
10. Candida and Aspergillus antibodies by CIEP ..	25
11. Mycoplasmas by microcomplement fixation ..	20
Total	1057

Anaerobic Bacteriology—

Pus	244
Brain abscess	63
O. P. D. cases	45
Cathetip	42
Gas gangrene	37
Empyema	25
Res. tract infection	49
Obst. and Gynaec. (Indoor)	142
Obst. G. Y. (O. P. D.)	23
Wound swab	05
Total	675

Mycology—

Total scraping done	2218
Culture done out of which	705
T. Corporis	130
T. Couris	50
T. Caoutus	27
TT. Barbae	7
T. Pedia	39
T. Axillaris	11
T. Manum	17
Onychomycosis	131
Moniliasis	40
Mycetoma	18
Deep mycosis including C. S. F. .. .. .	..
Biopsy, Pus Sputum, Gastric Lavage etc. for fungal culture	235
Total	705

PHARMACY DEPARTMENT

No. of types of finished products Prepared as follows :—

2,82,812 Transfusions fluids bottles and 9,092 Injection (Vial) were manufactured.

Stock Solution :

Sr. No.	Name of the item	Total quantity prepared.
(1)	Haemodialysis Fluid (Concentration 1x35)	3,468 Litres.
(2)	Potassium Chloride 25%	24 "
(3)	Magnesium Chloride 50%	16 "
(4)	Calcium Chloride 28%	54 "
(5)	Absolute Alcohol (Repacked from bulk of 130 Litres) 500 ml.	320 Bottles.

Central Sterile supply Service :

(1)	Number of drums sterilised	22,435
(2)	Number of trays sterilised	24,357
(3)	Number of bleeding sets prepared and sterilised	20,135
(4)	Number of plastic saline sets prepared & sterilised	73,787

Quality Control Unit j**A Analytical Report :**

Sr. No.	Name of the item	Total quantity prepared.
(1)	Dextrose (5% 10%, 25%, 49%, A X B Solution etc.)	494
(2)	Sodium Chloride (0.9% 5%, A & B Solution etc.)	466
(3)	Distilled water (Purity tests)	310
(4)	Haemodialysis concentrate (for Na X CL mEq.)	87
(5)	Analysis of Chemicals, drugs Cotton, Lint etc. (supply check)	300

B. Pyrogen Test :

(1)	Total number of tests carried out during the year :	570
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C. Sterility Tests :

(1)	Total number of tests carried out (got done)	962
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New Preparation Interoducted :

(1)	Gentian-Violet Capsule	..
(2)	Dimethyl Sulphoxide 40% in Normal Saline	..
(3)	Injection containing Phenol, Gl. Acetic Acid & Glycerol	..
(4)	Injection Niacinamide.	..

DEPARTMENT OF PAEDIATRIC SURGERY

The Paediatric surgical Intensive Care Unit and the operation Theatre block is nearing completion and is expected to be commissioned in the month of March 1982. A Workshop on "Intensive Care in Paediatric Surgery" is planned to mark the Inauguration of the new prestigious block.

THE K.E.M. HOSPITAL AND SETH G. S. MEDICAL COLLEGE STAFF SOCIETY

The staff society was continued during the year 1981. Dr. C. K. Deshpande, Dean was President during the entire year 1981.

Eight clinical meetings and few guest lectures were held during the year 1981.

Nurses :

Short term Paediatric Course of 3 months duration started from September, 1981. Student nurse Usha Daniel stood first in Surgical Nursing in Maharashtra Nursing Council, General Nursing Part Part-II examination conducted in July, 1981. Total Number of Student—General Nursing 313

Examination	Period	Appeared	Passed
General Nursing Part I	February 81	56	51
	August 81	55	46
General Nursing Part II	January 81	55	38
	July 81	41	32
Midwifery Training	March 81	24	24
	May 81	20	20
	August 81	29	29
	Nov. 81	25	25

Total Number of Midwifery students 56 in December 81
Total Number of entire Nursing staff in December 81 1018.

Nurses Welfare Society :

The corpus of the fund amount Rs. 49,603 out of which Rs. 16,000 is kept in Government Security and Rs. 33,603 kept in fixed deposit in the Bank. Interest on the amount is utilised for providing amenities to the Nurses such as subscribing periodicals, variety entertainment programme, sports picnics, send-off functions for retired members, academic prizes according to the wishes of the donor and also giving loans to the Nurses during their difficulties. This year Staff Nurse Smt. V. V. Gawade is given loan to meet expenses for B. Sc. Nursing studies.

K. E. M. HOSPITAL AND SETH G. S. MEDICAL COLLEGE EMPLOYEES CO-OPERATIVE CREDIT SOCIETY.

2,226 members were on the roll at the end of the co-operative year ended 20th June 1981. The share capital stands to Rs. 4,56,660 on 30th June 1981 as against Rs. 4,59,930 on corresponding date of previous year. The amount of loans granted to the members Rs. 33,33,260 as against Rs. 33,51,360 in the previous year. The Society declared Dividend to its members @9 percent on the shares amount held by them. The accounts of the Society are being audited by the Professional Internal Auditors, Chartered Accountants as well by the Government Statutory Auditors.

Poor Box Charity Fund :—

A sum of Rs. 14,58,572.40 was received by way of donations, contribution from patients, part cost of sports, and sale at gift shop etc. In addition to cash donations, donations in kinds were also received. An amount of Rs. 11,37,551.04 was spent out of the Poor Box Charity Fund in the year, as against Rs. 8,73,894.92 during the previous year. The amount was spent on costly drugs, blood transfusion, surgical appliances, travelling expenses, sports, etc. for poor and deserving patients of the hospital.

Food Handler's Scheme :—

2069 persons were directed for examination by H. O.'s Department from 1st Jan. 1981 to 31st December 1981 out of which only 528 persons attended for exam. 65 persons did not give their stool blood or both for Pathological exam. In all 346 fit and 117 unfit certificates were issued during the year under report.

C. K. DESHPANDE,

Dean

K. E. M. Hospital & Seth G. S. Medical
College;

APPENDIX No. 1.

Statement showing the Distribution of Beds According to Classification of Department, Sex and Units.

Department	Head of the Units	Male	Female	Children	Un- Classified	Total
Medical	Dr. (Smt.) V. N. Acharya	20	12	..	..	32
	Dr. F. D. Dastur	20	12	..	..	32
	Dr. G. H. Tilve	20	12	..	..	32
	Dr. B. D. Pimparkar	20	12	..	..	32
	Dr. C. P. Dalvi	20	12	..	..	32
	Dr. P. D. Anjaria	20	12	..	..	32
Tetanus	Dr. F. D. Dastur	12	7	5	..	24
A. K. Deptt. Div. of End Metab.	Dr. (Smt.) V. N. Acharya	12	4	2	..	18
	Dr. S. D. Bhandarkar	10	6	3	..	19
Surgical	Dr. R. A. Bhalerao	24	6	..	..	30
	Dr. A. B. Samsi	24	6	..	..	30
	Dr. R. D. Bapat	24	6	..	..	30
	Dr. C. V. Patel	24	6	..	..	30
	Dr. A. B. Samsi/S. G. Shenoy	24	6	..	..	30
	Dr. S. D. Deodhar	24	6	..	..	30
Gastroent	Dr. R. A. Bhalerao	8	2	2	..	12
Ophthalmic	Dr. B. T. Maskati	18	9	3	..	30
	Dr. T. N. Ursekar	18	9	3	..	30
Gynaec	Dr. V. N. Purandare	..	14	..	..	14
	Dr. (Miss) N. D. Motashaw	..	14	..	..	14
	Dr. M. R. Narvekar	..	14	..	..	14
	Dr. (Mrs.) S. J. Joglekar	..	14	..	..	14
Obstetric	Dr. V. N. Purandare	..	44	..	..	44
	Dr. Miss. N. D. Motashaw	..	44	..	..	44
	Dr. M. R. Narvekar	..	44	..	..	44
	Dr. (Mrs.) S. J. Joglekar	..	44	..	..	44
Skin & venereal	Dr. Rui Fernandes	16	10	6	..	32
Isolation	—	4	2	..	..	6
Orthopaedic	Dr. R. M. Bhansali	30	20	10	..	60
	Dr. L. N. Vora	30	20	10	..	60
	Dr. A. V. Bavdekar	30	20	10	..	60
	Dr. R. S. Dhir	30	20	10	..	60
Aural	Dr. K. L. Shah	8	6	10	6	30
	Dr. P. P. Karnik	8	7	9	6	30
Psychiatric	Dr. L. P. Shah	18	8	4	..	30
	Dr. D. R. Doongaji	18	8	4	..	30
Neuro-Surgical	Dr. S. K. Pandya	18	10	8	..	36
Neurology	Dr. V. P. Mondkar	22	6	4	..	32
Paed.-Medical	Dr. M. D. Shah	..	..	30	2	32
	Dr. N. B. Kumta	..	..	30	2	32
	Dr. (Mrs.) P. W. Kandoth	..	..	30	2	32
Plastic Surgery and Burns.	Dr. K. S. Goleria	16	14	10	12	52
Cardio-Vascular and Thoracic Surgery.	Dr. G. B. Parulkar	18	11	3	..	32
	Dr. S. R. Pandey	18	11	3	..	32
Cardiology	Dr. I. J. Pinto	16	5	4	..	25
	Dr. A. S. Yengsarkar	16	5	4	..	25
Chest-Clinic	Dr. S. R. Kamat	15	12	3	..	30
Paed-Surg.	Dr. R. K. Gandhi	..	..	40	..	40
Urology	Dr. D. S. Pardanani	16	9	5	..	30
Drug Trial	CIBA	..	..	..	10	10
	GIPLA	..	..	..	10	10
	UNICHEM	..	..	..	10	10
Total		689	581	265	60	1595

N. B.— 1. Medical beds are inclusive of beds to Haemtology and Gastroenterology as under —

	M	F	C	Total
Haematology	4	2	..	6
Gastroenterology	4	2	..	6

2. Surgical beds are inclusive of 6 beds for Endocrinology and Metabolic Disorders—1 bed each under each unit.

APPENDIX No. IA.

Statement showing the distribution of beds according to wards, service and 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 Medical	Dr. M. D. Shah	30	60
		Dr. N. B. Kumta	30	
II	Paediatric Medical	Dr. P. W. Kandoth	30	60
	Paediatric Surg.	Dr. R. K. Gandhi	15	
	Psychiatric	Dr. D. R. Doongaji	4	
	Psychiatric	Dr. L. P. Shah	4	
	Neurology	Dr. V. D. Mondkar	4	
Div. of Endocrinology and Metb. disorders.	Dr. S. D. Bhandarkar	3		
III	Gastroentrology	Dr. R. A. Bhalerao	2	49
	Aural	Dr. K. L. Shah	10	
	Aural	Dr. P. P. Karnik	9	
	Paed. Surgical	Dr. R. K. Gandhi	25	
	Urology	Dr. D. S. Pardnani	3	
IV	Medical	Dr. V. N. Acharya	12	50
	Do.	Dr. G. H. Tilve	12	
	Do.	Dr. P. D. Anjaria	12	
	Div. of End. and Metab.	Dr. S. D. Bhandarkar	6	
	Psychiatric	Dr. L. P. Shah	8	
IVA	Medical	Dr. F. D. Dastur	12	50
	Do.	Dr. B. D. Pimparkar	12	
	Do.	Dr. C. P. Dalvi	12	
	Psychiatric	Dr. D. R. Doongaji	8	
	Neurology	Dr. V. P. Mondkar	6	
V	Surgical	Dr. R. D. Bapat	24	48
	Do.	Dr. C. V. Patel	24	
VI	Surgical	Dr. A. B. Samsi	20	48
	Do.	Dr. A. B. Samsi/Dr. S. G. Shenoy	20	
	Urology	Dr. D. S. Pardnani	8	
VII	Surgical	Dr. R. A. Bhalerao	19	54
	Do.	Dr. S. D. Deodhar	19	
	Aural	Dr. K. L. Shah	8	
	Do.	Dr. P. P. Karnik	8	
VIII	Surgical	Dr. R. A. Bhalerao	6	54
	Do.	Dr. A. B. Samsi	6	
	Do.	Dr. R. D. Bapat	6	
	Do.	Dr. C. V. Patel	6	
	Do.	Dr. A. B. Samsi/Dr. S. G. Shenoy	6	
	Do.	Dr. S. D. Deodhar	6	
	Aural	Dr. K. L. Shah	6	
	Do.	Dr. P. P. Karnik	7	
	Urology	Dr. D. S. Pardnani	5	
	IX	Medical	Dr. B. D. Pimparkar		20	40
Do.		Dr. P. D. Anjaria	20	
X	Psychiatric	Dr. L. P. Shah	7	54
	Do.	Dr. D. R. Doongaji	7	
	Neuro-surgery	Dr. S. K. Pandya	18	
	Neurology	Dr. V. P. Mondkar	22	
XI	Medical	Dr. F. D. Dastur	20	50
	Medical	Dr. G. H. Tilve	20	
	Div. of End. and Metab.	Dr. S. D. Bhandarkar	10	
XII	Medical	Dr. V. N. Acharya	20	40
	Do.	Dr. C. P. Dalvi	20	

1	2	3	4	5
XIII	Ophthalmic	Dr. B. T. Maskati.	.. 30	} 60
XIII A	Do.	Dr. T. N. Ursekar.	.. 30	
XIV	Obstrestio	Dr. V. N. Purandare.	.. 44	} 182
XIVA	Do.	Dr. N. D. Motashow	.. 44	
L.W.D.	Do.	Dr. S. J. Joglekar.	.. 44	
W.W.D.	Do.	Dr. M. R. Narvekar.	.. 44	
P.O.W.	Do.	Dr. M. D. Shah.	.. 2	
P.P.S.	Prematurity	Dr. N. B. Kumta.	.. 2	
		Dr. P. W. Kandoth.	.. 2	
XV	Gynaec	Dr. V. N. Purandare.	.. 14	} 56
XVA	Do.	Dr. N. D. Motashow.	.. 14	
	Do.	Dr. S. J. Joglekar.	.. 14	
	Do.	Dr. M. R. Narvekar.	.. 14	
XVI	Plastic Surgery &	Dr. K. S. Goleria.	.. 52	52
XVIA	Burns			
XVII	Isolation		.. 6	} 38
XVIII	Skin & Veneral	Dr. R. J. Fernandes.	.. 32	
XIX	Psychiatric	Dr. L. P. Shah.	.. 11	} 22
	Do.	Dr. D. R. Doongaji	.. 11	
XX	Surgical	Dr. A. B. Samsi.	.. 4	} 10
		Dr. A. B. Samsi/Dr. S. G. Shenoy	.. 4	
		Dr. R. A. Bhalerao.	.. 2	
XXI	Aural	Dr. K. L. Shah.	.. 6	} 12
	Do.	Dr. P. P. Karnik.	.. 6	
XXII	Tetanus	Dr. F. D. Dastur.	.. 24	24
XXIII	Gastroentrolgy	Dr. R. A. Bhalerao.	.. 8	} 16
	Thoracic Surgery	Dr. G. B. Parulkar.	.. 4	
	Do.	Dr. S. R. Pandey.	.. 4	
XXIV	Drug Trial	CIBA	.. 10	} 30
XXIVA		CIPLA	.. 10	
		UNICHEM	.. 10	
XXV	Orthopaedic	Dr. R. M. Bhansali.	.. 30	} 40
	Do.	Dr. A. V. Bavdekar.	.. 10	
XXVI	Orthopaedic	Dr. R. M. Bhansali.	.. 30	} 40
		Dr. A. V. Bavdekar.	.. 10	
XXVII	Orthopaedic	Dr. A. V. Bavdekar.	.. 20	} 40
		Dr. R. S. Dhir.	.. 20	
XVIII	Orthopaedic	Dr. A. V. Bavdekar.	.. 20	} 40
		Dr. R. S. Dhir.	.. 20	
XXIX	Orthopaedic	Dr. L. N. Vora.	.. 30	} 40
		Dr. R. S. Dhir.	.. 10	
XXX	Orthopaedic	Dr. L. N. Vora.	.. 30	} 40
		Dr. R. S. Dhir.	.. 10	
XXXI	Thoracic Surgery	Dr. G. B. Parulkar.	.. 28	} 56
		Dr. S. R. Pandey.	.. 28	
XXXII	Cardiology	Dr. I. J. Pinto.	.. 25	} 55
	Chest clinic	Dr. S. R. Kamath.	.. 30	
XXXIII	Neuro-Surgery	Dr. S. K. Pandya.	.. 18	18
XXXIV	A. K. D.	Dr. V. N. Acharya.	.. 18	18
XXXV	Cardiology	Dr. A. S. Vengsarkar.	.. 25	25
LIC	Urology	Dr. D. S. Pardnani	.. 14	14
M.S.W.	Surgical	Dr. R. A. Bhalerao.	.. 5	} 10
		Dr. S. D. Deodhar.	.. 5	
			Total	1595

APPENDIX II

Statement of In-patients treated, discharged and deaths according to Departments, Sex, & Age.

Department	Sex	In the Hospital at the Mid-night of 31-12-80	Admitted during the year 1980	Total treated	Discharged		Died	In the Hospital at the Mid-night of 31-2-81
					Cured	other-wise		
1	2	3	4	5	6	7	8	9
MEDICAL	Male	191	8,299	8,490	6,225	756	1,259	250
	Female	100	4,217	4,317	3,057	536	608	116
	Male Child	3	139	142	79	27	33	3
	Female Child	5	77	82	40	21	20	1
SURGICAL	Male	147	8,186	8,333	6,844	889	463	137
	Female	49	2,415	2,464	1,428	764	229	43
	Male Child	..	48	36	10	10	2	..
	Female Child	..	19	19	9	10	..	..
OPHTHALMIC	Male	25	1,053	1,078	845	200	2	31
	Female	22	672	694	582	96	..	16
	Male Child	..	99	99	58	38	..	3
	Female Child	..	47	47	25	21	..	1
GYNAEC	Female	43	3,134	3,177	3,003	76	9	89
	Female Child	..	1	1	1	..	..	..
SKIN & VENERAL	Male	16	310	326	183	119	1	23
	Female	7	97	104	55	40	..	9
	Male Child	1	21	22	19	3	..	..
	Female Child	2	17	19	15	4	..	..
AURAL	Male	23	901	924	697	202	9	16
	Female	9	692	701	532	160	5	4
	Male Child	5	327	332	273	56	1	2
	Female Child	2	298	300	230	70	..	..
ORTHOPAEDIC	Male	250	2,469	2,719	1,754	610	80	275
	Female	107	863	970	568	254	37	111
	Male Child	34	540	574	391	138	4	41
	Female Child	26	281	307	184	100	1	22
PSYCHIATRIC	Male	29	683	712	286	398	..	28
	Female	15	302	317	149	150	..	17
	Male Child	..	15	15	6	8	1	..
	Female Child	..	12	12	4	7	1	..
NEURO-SURGERY	Male	17	328	345	193	108	36	8
	Female	4	137	141	76	40	21	4
	Male Child	7	100	107	40	56	11	..
	Female Child	2	57	59	25	27	7	..
NEUROLOGY	Male	8	198	206	110	74	10	12
	Female	6	85	91	47	38	6	..
	Male Child	1	44	45	79	12	3	..
	Female Child	..	27	27	20	7	..	..
PAED. MEDICAL	Male Child	33	1,731	1,764	914	440	374	36
	Female Child	23	1,293	1,316	614	385	292	25
OBST.	Female	144	7,488	7,632	7,282	215	20	115
	Male Child	..	1	1	1	..	..	..
	Female Child	..	4	4	4	..	..	..
DIV. OF ENDO. & METAB. DISORDER	Male	10	109	119	54	45	14	6
	Female	4	93	97	29	55	7	6
	Male Child	..	3	3	3	..	..	..
	Female Child	..	..	..	..	..	..	..

APPENDIX II

Statement of In-patients treated, discharged and deaths according to Departments, Sex, & Age.

Department	Sex	In the Hospital at the Mid-night of 31-12-80	Admitted during the year 1980	Total treated	Discharged		Died	In the Hospital at the Mid-night of 31-2-81
					Cured	otherwise		
1	2	3	4	5	6	7	8	9
PLASTIC SURG.	Male	21	264	285	85	179	..	21
	Female	8	144	152	33	87	24	8
	Male Child	3	83	86	22	58	..	6
	Female Child	1	43	44	8	30	..	6
THORACIC SURG	Male	30	471	501	147	248	69	37
	Female	23	391	414	168	175	54	17
	Male Child	1	52	53	16	28	7	2
	Female Child	4	47	51	7	30	12	2
PAED. SURG.	Male Child	29	1,522	1,551	1,100	365	60	26
	Female Child	17	725	742	505	192	39	6
CARDIOLOGY	Male	16	529	545	312	147	61	25
	Female	8	294	302	203	60	30	9
	Male Child	3	97	100	63	27	3	8
	Female Child	2	71	73	52	16	3	2
CHEST-CLINIC	Male	14	401	415	115	200	63	17
	Female	10	221	231	24	155	41	11
	Male Child	..	13	13	4	6	3	..
	Female Child	2	2	4	..	3	1	..
UROLOGY	Male	18	352	370	237	108	9	16
	Female	..	50	50	29	15	3	3
	Male Child	..	2	2	2	..	..	..
	Female Child	..	..	..	..	..	..	..
HAEMATOLOGY	Male	5	210	215	61	127	25	2
	Female	3	114	117	35	65	12	5
	Male Child	..	3	3	3	..	..	..
	Female Child	..	..	..	..	..	..	..
PHARMACOLOGY	Male	6	104	110	80	25	..	5
	Female	..	4	4	4	..	..	..
	Male Child	..	..	..	..	..	..	..
	Female Child	..	..	..	..	..	..	..
TOTAL	Male	826	24,867	25,693	18,228	4,455	2,101	909
	Female	562	21,413	21,975	17,304	2,981	1,107	583
	Male Child	120	4,840	4,960	3,058	1,272	502	128
	Female Child	86	3,021	3,107	1,743	923	376	65
GRAND TOTAL		1594	54,141	55,735	40,333	9,631	4,086	1,685

APPENDIX III

Statement of out-patients New O. P. D. Casualty according to the Department and Sex during the year 1981.

Department 1	Casualty					New O.P.D. Cases				
	Male 2	Female 3	M/Child 4	F/Child 5	Total 6	Male 7	Female 8	M/Child 9	F/Child 10	Total 11
A—Medical ..	3,233	1,137	41	15	4,446	30,758	16,396	5	..	47,159
B—Surgical ..	7,879	1,615	45	22	9,561	22,971	8,562	55	24	31,662
C—Ophthalmic ..	306	28	10	3	347	13,881	6,610	1,443	1,025	22,961
D—Gynaec ..	—	31	—	..	31	—	13,418	..	..	13,418
E—Dental ..	18	3	1	1	23	7,999	5,456	1,286	839	15,580
F—Skin ..	35	2	2	..	39	17,109	5,761	3,347	2,255	28,972
G—Aural ..	221	50	4	4	282	11,759	6,806	2,525	1,907	22,997
H—Orthopaedic ..	1,692	308	78	38	2,116	20,597	9,087	3,049	1,691	34,424
I—Psychiatric ..	14	3	..	..	17	4,379	2,441	663	365	7,848
J—Neuro Surgery	9	..	..	..	9	1,279	669	319	217	2,484
K—Neurology ..	3	..	..	..	3	1,267	540	190	116	2,113
L—Paediatric Med.	..	—	316	188	503	—	—	7,448	5,645	13,093
M—Obstetric ..	—	54	2	—	56	—	6,094	—	—	6,094
N—Dispensary...	..	..	..	..	..	334	43	2	3	382
O—Diabetic ..	..	..	2	3	5	922	535	14	4	1,475
P—Plastic Surg. ..	637	71	25	10	743	344	201	102	89	736
Q—Thoracic Surg.	1	..	8	1	10	1,316	955	227	211	2,709
R—Paed. Surg. ..	—	—	448	272	720	—	—	636	291	927
S—G.I.C. ..	..	..	..	..	..	141	54	3	2	200
T—Cardiology ..	1	..	..	..	1	1,944	1,312	335	241	3,832
U—Endocrinology	..	—	..	..	..	215	588	18	21	842
V—Asthama ..	1	..	..	—	1	6	5	..	..	11
W—Chest-Clinic ..	..	2	..	..	2	1,298	693	71	43	2,105
X—Epilepsy ..	..	..	..	1	1	667	343	260	152	1,422
Y—Urology ..	..	..	..	..	..	870	103	17	7	997
Z—Municipal Staff	..	..	..	—	..	4	4	—	..	8
2—Arthritis Clinic	..	..	..	..	..	183	175	10	9	377
3—Sports Clinic ..	..	..	..	..	..	997	44	—	1	442
4—Haematology ..	..	..	1	..	..	177	54	22	14	267
5—Casualty	2	..	..	..	2	62,143	19,383	11,156	6,033	98,715
6—Pneumoconiosis	..	—	..	..	..	495	154	68	32	749
7—Airpollution	..	..	..	..	..	18	5	..	..	23
Grand Total ..	14,052	3,324	982	561	18,919	2,03,473	1,06,491	33,273	21,537	3,64,774

APPENDIX IV

Details of average Cost per In-patient and per Out-patients

Particular	1980-81		1981-82	
	In-patient	Out-patient	In-patient	Out-patient
I—Establishment ..	32.01	10.95	36.84	13.12
II—Contingencies ..	3.63	0.69	2.61	0.84
III—Equipment ..	1.93	0.67	2.49	0.89
IV—Drug & Medicine	15.55	5.31	19.18	8.38
V—Diet ..	4.02	..	4.35	..
VI—Stores ..	2.52	6.58	0.74	7.35
VII—Repairs and Maint. ...	3.46	1.95	4.48	1.27
Total	63.12	26.15	70.69	31.85

APPENDIX V

Results of Examinations

Name of Examination	April 1981		October 1981	
	Appeared	Passed	Appeared	Passed
1st M.B.B.S. ...	10	8	157	140
2nd M.B.B.S. ...	159	142	43	23
3rd M.B.B.S. ...	48	14	148	117
F.Y.O.T. ...	37	29	6	2
S.Y.O.T. ...	40	19	20	14
T.Y.O.T. ...	10	10	Exam. not held in Oct. 81	
F.Y.P.T. ...	40	33	5	3
S.Y.P.T. ...	37	30	8	6
T.Y.P.T. ...	15	15	Exam. not held in Oct. 81	
M.Sc. (Occupational Therapy) ...	3	1	..	..
M.Sc. Physical Therapy ...	6	4	..	..
M.D. (Medicine) ...	8	4	16	8
M.D. (Obst. & Gyn.) ...	12	5	18	6
M.D. (Pharmacology) ...	2	2	..	..
M.D. (Paediatric) ...	7	5	10	5
M.D. (T.B. & Chest) ...	..	..	..	..
M.D. (Skin diseases) ...	1	1	2	1
M.D. (Anaesthesia) ...	14	11	9	8
M.D. (Prev. & Soc. Med.) ...	5	1	3	..
M.D. (Radiology) ...	3	1	4	3
M.D. (Psychological Med.) ...	3	1	5	4
M.D. (Human Physiology) ...	..	..	..	..
D.H. (Neurology) ...	1	..	1	..
D.M. (Cordiology) ...	1	..	5	2
M.D. (Microbiology) ...	4	3	1	1
M.D. (Pathology) ...	..	..	3	2
M.S. (Gen. Surgery) ...	9	1	16	8
M.S. (Orthopaedics) ...	12	5	13	4
M.S. (E.N.T.) ...	4	2	5	3
M.S. (Ophthalmology) ...	1	1	2	2
M.S. (Human Anatomy) ...	..	..	..	..
M.Ch. (Neuro Surgery) ...	2	2	..	..
M.Ch. (Thoracic Surgery) ...	5	1	7	4
M.Ch. (Paed. Surgery) ...	1	1	1	..
M.Ch. (Plastic Surgery) ...	1	1	3	2
M.Ch. (Urology) ...	..	..	1	1
D.A. ...	12	11	7	7
D.V.D. ...	1	..	..	..
D.P.H. (part-I) ...	5	..	1	1
D.P.H. (Part-II) ...	4	3	1	..
D.P.M. ...	4	3	5	3
D.M.R.D. (Part-I) ...	3	1	3	2
D.M.R.D. (Part-II) ...	1	..	7	5
D.M.L.T. ...	14	9	2	1
M.Sc. (Bioch.) by paper—I ...	9	9	1	..
M.Sc. (Bioch.) by paper—II ...	13	11	2	2
M.Sc. (Applied Biology) ...	5	5	5	5
M.Sc. (Bioch.) by Research ...	..	..	2	2
M.S.c. (Microbiology) by Research ...	..	..	2	2
Ph.D. (Pharm) ...	..	..	1	1
Phd. (Micro) ...	1	1	..	..
Ph.D. (Applied Biology) ...	..	..	..	..
Ph. D. (Biochemistry) ...	1	1	1	1

APPENDIX VI

RESEARCH

A. Department of Pharmacology :

- (1) Studies on plant preparation and other experimental studies.
- (2) Hypoglycemic action of *Hamiltonia suaveolens*.
- (3) Pharmacological properties of *Hamiltonia suaveolens*.
- (4) Effect of *Trigonella foenum graecum* and *Lepidum sativum* on serum prolactin levels.
- (5) Anti-allergic effect of *Piper longum*.
- (6) *Tinaspora Cardiofolia* Studies.
- (7) Study of pharmacological properties of *Gymnema sylvestra* plant.
- (8) Antiepileptic activity of an indigenous plant extract in rodents.
- (9) Hepatoprotective and anti inflammatory properties of indigenous drugs.
- (10) Cytoprotective effect of *Asparagus racemosus* and *Terminalia chebula*.
- (11) In vitro antibacterial activity of *Acorus Calamus* (Ver-Vekhand).
- (12) Anticonvulsant effect of Tantu Pashan.
- (13) Effect of Manganese on Ouabain induced cardiac arrhythmias.

B.—Biochemical Studies :

- (1) Effect of Diet and aminoacid precursors on brain catecholamines and 5 HT levels.
- (2) Metabolic effects of Inj. NET-DEN.

C.—Microbiological studies:—

- (1) Effect of metronidazole and gentamicin on leucocyte function.
- (2) Evaluation of antimicrobial agents in a model of gratted infection.

D.—Clinical Pharmacology Studies :

- (1) CGI 13866 An anthelmintic.
- (2) CGI 13744 as an antidiabetic drug.
- (3) GO 10213-An antiproteozoa drug.

*A—Bioavailability.**B—Human Mutagenicity. -**C—Radio-labelled Kinetics.*

- (4) Intravenous Glucose tolerance test (IVGTT).
- (5) Diethylcarbamazine (DEC) and histamine excretion Tropical Eosinophilia (T. E.)
- (6) Systemic Mastocytosis
- (7) Urinary Catecholamine Assays
- (8) Bicycle Ergometry
- (9) Renal Effects of Non-steroidal anti-inflammatory drugs
- (10) Effect of high dose aspirin on renal function in children
- (11) Effect of anaemia on antipyrine half-life
- (12) Effect of food on absorption of enphenamic acid
- (13) Effect of codeine on absorption of ampicillin
- (14) Acetylation and oxidation status in human volunteers
- (15) Study of epidural morphine
- (16) Interaction between drugs and hormonal contraceptives
- (17) Effect of various drugs on the side-effects induced by IUCD
- (18) Phase I study of nasal spray containing noresthisterone enanthate-Tolerance study
- (19) Plasma renin activity in women using low dose (30 mcg) combination type oral contraceptives
- (20) Study of gastric emptying time using radio active Technetium phytate
- (21) Efficacy of single dose as compared to multiple dose phenobarbital therapy in childhood epileptic disorders
- (22) Eentbutindole : Antipsychotic
- (23) Centbucridine : A Local anesthetic.
- (24) Curcumin.
- (25) Gugulipid
- (26) Primary hyperlipidemia.
- (27) Centchroman.

I—Bioavailability Studies.**II—Bioavailability of InjGentamicin (Gentasporin).****III—Effect of ,Trikatu on rifampicin bioavailability.****IV.—To study the principles of Ayurveda.**

E.—Department of Biochemistry & Nutrition :

Following research projects are in progress.

- (1) Study of lipid pattern in certain diseases and altered states of nutrition with special reference to red cells.
- (2) Study of Lecithin cholesterol acyl transferase (LCAT) in altered states of metabolism and nutrition.
- (3) Study of Lactic Dehydrogenase and alkaline phosphatase isoenzymes in malnutrition and certain other disorders.
- (4) Effect of low proteins diet on DNA and RNZ of brain and other tissues of rats.
- (5) Biochemical studies of Experimental urolithiasis.

Department of Anatomy :

- (1) Dictates of our Cells. Dr. Lopa Z. Mehta, Dr. M. L. Kothari.
- (2) The Raison d'être of hip adductors and their role in fractures of femoral neck. Dr. Lopa A. Mehta Dr. M. L. Kothari.
- (3) Bone and joint manifestation of guinea-worm infestation. Dr. Lopa A. Mehta and Dr. M. L. Kothari.
- (4) Borderland between matter and man.
- (5) Principles of neuroanatomy. Dr. Lopa A. Mehta, Dr. M. L. Kothari.
- (6) Principles of genetics. Dr. Lopa A. Mehta. Dr. M. L. Kothari.
- (7) Principles of embryology. Dr. Lopa A. Mehta, Dr. M. L. Kothari.

Seth Dhurmal Bajaj Orthopaedic Centre & Research Institute :

- (1) During this year Arthroscopy has been one of the major achievements in this department
- (2) The total hip joints which were imported, have been used for total joint replacement successfully.
- (3) The operation cassettes have made great improvement in the surgical technique.
- (4) The 3rd X. Ray machine has facilitated the technique of myelography.
- (5) Special water mattresses were purchased and used for the paraplegics in the unit of Dr. R. M. Bhansali. This has brought down the incidence of bed sores considerably.

Tetanus Unit :

- (1) I. C. M. R. enquiry into "Clinical and electrophysiological studies in Tetanus"-terminated 31-3-1981 after 5 year period.
- (2) Metabolic response in Tetanus -hormonal assays and inter-mediary metabolites estimated in collaboration with St. Thomas' Hospital, London.
- (3) Electrophysiological studies of trismus-the presenting sign of tetanus. Research Society project.
- (4) Respiratory function evaluated in the course of tetanus.

Division of Endocrinology and Metabolic Disorders :

- (1) The project on "Plasma I.R. in Planning Treatment of Diabetes" (Dr. V. J. Refnam and Dr. S. D. Bhandarkar) was continued.
- (2) The following projects were continued in collaboration with the Clinical Pharmacology Division of the Department of Pharmacology :
 - (a) Effect of the type of cereal in the diet on the control of diabetes.
 - (b) I. V. G. T. T. an experimental Model for Evaluation of New Oral Anti-Diabetic Drug. The work has resulted in a Scientific paper which is under preparation.
 - (c) Antipyrine Metabolism in hyper and hypothyroid subjects.
 - (d) Platelet function in Diabetics.
 - (e) A new project on "Evaluation of the hypoglycemic effects of indigenous drugs in the healthy and diabetic dogs" was initiated.
- (3) The project on "Glucose-tolerance Chronic Renal Failure" was completed together with the Division of Nephrology.
- (4) The project on "Evaluation of Renal Function in psychiatric Patients on Lithium Carbonate" was continued in collaboration with Dr. D. R. Doonagaji, Head, Department of Psychiatry.

Department of Psychiatry :**Research Projects in Dr. D. R. Doonagaji's Unit :**

- (1) Single V/S multiple dose, double blind study of clobazam v/s Diazepam.
- (2) Early clinical evaluation of "Centbutindole" a new neuroleptic.
- (3) Effects of penfluridol on psychophysiological and psychopharmacological correlates in Schizophrenia.
- (4) Study of Blood Platelet's MAO activity and urinary PEA levels in Indian Psychiatric patients.
- (5) Effect of three modalities of ECT on fronto-temporo-parietal lobe functions.

- (6) Use of parenteral metoclopramide in differential diagnosis of tardive dyskinesia.
- (7) Prevalence of tardive dyskinesia in an Indian mental hospital.
- (8) Use of parenteral metoclopramide in the treatment of tardive dyskinesia.
- (9) Use of oral metoclopramide in the treatment of schizophrenia and tardive dyskinesia.
- (10) CSF and serum immunoglobulin levels in tardive dyskinesia.
- (11) Effect of ECT on levels of biogenic amines in CSF and serum.
- (12) Standardization of MMPI for Indian Population.
- (13) Psychological sequelae of Medical termination of pregnancy in married and unmarried females after the first and repeated abortions.
- (14) Effect of Iron Deficiency and other kinds of anaemias on human performance.
- (15) Abstraction capacity-Is it a function of pathology, level, premorbid intelligence or education.

Research Projects in Dr. L. P. Shah's Unit :

- (1) Excessive smoking : Psychiatric study and behaviour therapy.
- (2) A study of Emotional factors in Psychosomatic disorders of the Gastro intestinal system
- (3) A clinical study of neurotic disorders and their management.
- (4) The setting up of a paediatric liaison service.

Department of Neurosurgery :

(1) Multidisciplinary studies in neuromuscular disorders are being carried out in this department for the last 18 years. These encompass a wide spectrum of investigations ranging from routine diagnostic procedures to more detailed studies concerning the etiopathogenetic mechanisms in muscular dystrophies, particularly Duchenne muscular dystrophy (DMD). The ongoing research projects carried out under the auspices of Indian Council of Medical Research and J. K. Scientific and Medical Research Society, include carrier detection and genetic counselling of Duchenne carriers, immunological studies, tissue culture of muscles and biochemical assessment of erythrocyte and muscle membrane functions in DMD. Detection rate of Duchenne carriers has been improved with the help of battery of tests viz. Serum creatine kinase, ECG, EMG, quantitative EMG and lactate dehydrogenase isozyme pattern. Immunological studies carried out so far indicate abnormal immune function in DMD. Biochemical investigations of DMD erythrocyte membranes revealed abnormal protein pattern by using sodium dodecyl sulphate polyacrylamide gel electrophoresis. This observed abnormality probably indicates the much sought after member defect in DMD. Further studies in this aspect using sensitive two-dimensional electrophoretic techniques are being pursued. Tissue culture of muscles is also being attempted to understand the disease process in dystrophy more clearly and also to get a constant and abundant supply of muscle cells for other biochemical investigations necessary for the elucidation of the basic defect in DMD. Although muscle is a very difficult tissue to grow due to its extremely fastidious growth requirements, success has been achieved in standardizing the requirements for its growth and maintenance.

Pituitary Tumors :

In collaboration with Dr. Rama Vaidya and her team (Division of Endocrinology, Institute for Research in Reproduction and Dr. Abam Samuel and her team (Radiation Medicine Centre) we are attempting to carry out a detailed clinical-endocrinological study of pituitary tumors. We are hoping to be able to detect more and smaller tumors. We are also studying the effect of medical therapy of such tumors with drugs such as bromocriptine.

(3) Dr. Karapurkar's attempts at setting up a selective catheterisation, embolisation and balloon techniques has been referred to above.

(4) We are attempting the development of lyophilised dura and sterile bone banks. The latter is being set up in collaboration with Dr. S. Gajendrasingh and H. M. Dastur and the Jasolk Hospital.

Social Service Department :

- (1) Research project of patients taking irregular treatment completed by Miss R. Menon.
- (2) In the year of Disable persons social workers participated in various programmes. They helped to organized an "Exhibition for the paraplegics" at Dadar Parsee Gymkhana along with the Paraplegic Foundation where K. E. M. Hospital won the Best Stall cup Social Workers also completed poems written by the paraplegics in Hindi and Marathi and got them cyclostyled.

Department of Paediatric Medicine :

- (1) Estimation of creatinine clearance in paediatric population. Dr. Kamat.
- (2) Psychological assessment of normal children in collaboration with Dr. Dhawale & M. S. W. Mrs. Keskar.
- (3) Study of Effect of aspirin on L. F. T. & creatinine clearance. Dr. Feruza Homi & Dr. Mrs. Kandoth.
- (4) Immunoglobulins in CSF-Dr. Mrs. Kamat, Dr. Wagle.
- (5) Tc Partition in TBM-Dr. Kharod & Dr. Mrs. M. K. Joshi.
- (6) Estimation of urinary LI D. H. isoenzymes in upper and lower urinary tract infection.
- (7) Fever Trail-Effectiveness of Brufen & Mevorol on fever. Dr. Varsha Joshi, Dr. Mrs. Kandoth & Boots company pvt. Ltd.

APPENDIX VII
PUBLICATIONS

Department of Preventive & Social Medicine :

(1) School children as health leaders in the family by Dr. (Mrs.) V. R. Bhalerao. Article published in World Health Forum, 2(2) ; 209-210 (1981)

Department of Pharmacology :

(1) A. B. Varde, Harinakshi G. Shetty, Surangi K. Jadhav, S. M. Sheth, Vidya N. Acharya and R.S. Satoskar : 'Comparison of trimethoprim in combination with sulfadiazine or sulfamethozole in treatment of urinary tract infections,' Jour. Postgrad. Med. 27, 154-158, 1981.

(2) A. B. Varde, A. M. Gaitonde, G. H. Tilve, V. V. Kale and R. S. Satoskar; 'Comparison of trimethoprim in combination with sulfadiazine or sulfamethoazole in the treatment respiratory infections Jour of Postgrad. Med. 27, 159-162, 1981.

(3) U. K. Sheth, S.P. Valame, K. C. Gupta V. N. Kulkarni and P. K. Pispati, Tolerability of ibuprofen and Ilurbiprofen in 'G6PD deficient subjects in vitro study', Birt. Jour. of Clin Pharm. 11, 251-252 1981.

(4) S. P. Valame and K. C. Gupta ; Effect of clonidine on amphetamine induced stereotypy, Ind. J. Pharmac. 13, 203-204, 1981.

Tetanus Unit :

(1) Biogenic amines in tetanus. Jl. A. P. I. 1981, 29; 21.

(2) Thyroid function in tetanus. Jl. A. P. I., 1981, 29 ; 514.

(3) Platelet function and blood coagulation in tetanus. Jl. of Postgrad. Med. 1981, 27-109.

(4) Relapsing tetanus Jl. of Postgrad. Med., 1981, 27-189.

(5) Response to single dose of tetanus vaccine in subjects with naturally acquired tetanus antitoxin. Lancet, 1981, II-219.

Division of Endocrinology and Metabolic Disorders :

(1) Dr. S. D. Bhandarkar, Hon. Professor, wrote book on " ABC of Radiomunoassay " . It is in press.

Department of Molecular Biology :

(1) Sathe, M. J., Joshi, L., Bapat R. D., Kamdar M. S. and Supe A. N. (1982) In Vitro and vivo efficiency of 5 percent Providone iodine (Betadine), Med. & Surg. 22,10.

(2) Kulkarni P. Joshi L., Advani S. H. (1981) Occurrence of Infections and its relation to hemogram in patients with acute Leukemia., J. Post Grad. Med. 27,148.

(3) Joshi L. & Karmarkar M. G. (1982) Evaluation of AXO and Anti D. Nase B. in the diagnosis and control of Rheumatic disorders., Proc. WHO Conf. Coronary Heart Disease, In PRESS.

Department of Audiology :

(1) Transthemoidal Optic nerve decompression. ENG finding in head injury. Tuberculous dacryocystitis.

(2) Transnasal vidian neurectomy. Book Published ; " Electronystagmography—A systematic Approach. "

(3) 'Leukoplakia' A search for its Aetiology.

(4) 'Peripheral giant cell granuloma of maxillary sinus.'

(5) 'Unusual foreign body in sphenoid sinus.'

APPENDIX VIII

Seminar/s Conference Associations and Papers read.**Department of Preventive & Social Medicine :**

(1) "Policy planning and legislation for the mentally ill in India By Mrs. H. L. Shah.

(2) Presented at 11th Internal Conference C. I. P. held in Bombay, November 1981.

(3) A study of fertility and F. P. Practice in Greater Bombay by Dr. D. N. Pai and Mr. Rajesh Kumar (Memoograph ed, WHO, CCCR P. S. M., Deptt. G. S. Medical College, 1981).

Department of Pharmacology :

XIV Annual Conference of Indian Pharmacological Society held at Bombay 29th to 31st December 1981.

This annual conference was organised in Bombay, Prof. R. S. Satoskar was Chairman of the Reception Committee. The scientific section was organised by the committee entirely from this department headed by Professor S. M. Karandikar. Other staff members who headed different committees were ;

- (1) Prof. R. S. Satoskar, co-chaired, Achari Prize session.
- (2) Prof. S. M. Karandikar-participated in symposium on Immunology.
- (3) Dr. (Mr.) K. C. Gupta-attended and presented a paper, 'Study of plasma renin activity in Indian Women using low dose combination type oral contraceptive, By K. C. Gupta, Meera Subramaniam, Pramila Jarag, R. S. Satoskar, co-chaired a session.
- (4) Dr. (Mrs.) T. Paul-Attended and presented a paper 'Interaction between clonidine and enfenamic acid-a case study by N. A. Kshirsagar, T. Paul, and R. S. Satoskar, co-chaired a session.
- (5) Dr. (Mrs.) S. S. Nayampalli-attended and presented a paper 'Study of anti-allergic and bronchodilator effects of *Tinospora cardifolia* by S. S. Nayampalli, S. S. Ainapure and P. M. Nakarni co-chaired a session. She was also a co-author of a paper 'Role of Mn++ in experimentally induced cardiac arrhythmias by Kala Mogre S. S. Nayampalli Jyoti Bhardwas, S. K. Kasholikar, J. B. Dharan and S. M. Kandurkar.
- (6) Dr. A. B. Varde-attended the conference
- (7) Dr. (Mrs.) N. A. Kshirsagar-attended and presented a paper 'Platelet function in diabetes mellitus, by N. A. Kshirsagar, Manisha Rele, S. D. Bhandakar, R. S. Satoskar.' She was a member of Organising Committee of the Conference and co-chaired a session.
- (8) Dr. (Mrs.) S. A. Dahanukar-attended and presented a paper "Cytoprotective effect of *Asparagus racemosus* and *Terminalia Chebula*, by Shardini A. Dhahanukar, S. G. Date and S. M. Karandikar. She was also a member of Organising Committee of the Conference and Scientific Programme Committee and co-chaired a session. She arranged a boat-cruise for all the delegates which was appreciated most.
- (9) Dr. S. S. Ainapure-attended the conference and presented a paper-"Effect of diet and aminoacid precursors on brain neurotransmitters, by S. S. Ainapure, A. N. Trasi and R. S. Satosakar He was a member of Organising Committee, co-ordinator, Scientific Programme Committee and co-chaired a session.
- (10) Dr. B. D. Samant-attended the Conference and was a member of Scientific Programme Committee.
- (11) Dr. (Mrs) Neeta N. Athanikar-attended the Conference and presented a paper-'Inhibition of carragenin paw oedema in rats by *Gauruga pinnata* Roxb. (burseraceae) by Neeta N. Athanikar and Dr. S. R. Amladi.
- (12) Dr. (Mrs) S. S. Dalvi-attended the conference and presented a paper 'Interaction between clonidine and enfenamic acid in animals by S. S. Dalvi, N. A. Kshirasagar and R. S. Satoskar.
- (13) Dr. S. Chaudhary-attended the conference and presented a paper-'Pharmacological properties of *Hamiltonia Suaveolens*' by S. Chaudhary, S. S. Ainapure and R. S. Satoskar. This paper won a prize at the poster session of the Conference.
- (14) Dr. (Mrs) N. A. Manjrekar-attended the conference and presented a paper-"Study of drug regimes in induced abdominal sepsis in rats' at the Achari Prize session.
- (15) Mr. S. G. Date-attended the conference and presented a paper-"Effect of NSAID agents on PG synthesis using rat fundus strip' by S. G. Date, Karbhari Kunde, N. A. Kshirasagar.
- (16) Miss U. S. Chavan-attended the conference and presented a paper-"Effect of drugs on phagocytic index' by U. S. Chavan, N. A. Kshirasagar, Y. A. Deshmukh and S. M. Karandikar.
- (17) VII Annual Conference of Pharmacologists of Maharashtra held at Department of Pharmacology, SFT Rural Medical College, Ambajogai.

Papers presented at the Conference were :

- (1) "Effect of dietary precursors and nutritional status on brain neurotransmitter levels" by Trasi. N. A. Ainapure S. S. and Satoskar R. S.
- (2) "Effect of some NSAID agents on PG synthetase using rat fundus strip and castor oil diarrhoea models" by Date S. G. Karbhari Kunda and Kshirsagar N. A.
- (3) "Effect of food on absorption of some antibacterial agents" by Kshirsagar N. A., Shah M. U. Desa N. K. Anklesar P. and Pohujan S.
- (4) "Bioavailability of Penicillin G in comparison with Penicillin V. by Y. A. Deshmukh Sujata Paropkari, Sharadini Dahanukar and S. M. Karandikar.
- (5) "Influence of Trikatu on rifampicin bioavailability. "Annuradha Kapadia, Sharadini Dahanukar and S. M. Karandikar.
- (6) "Protective effect of P. Longum against hepatic damage." by Nirmala N. Rege, Sharadini Dahanukar and S. M. Karandikar.
- (7) "Cytoprotective effect of *Asparagus racemosus* and *Terminalia chebula*" by Sharadini, Dahanukar, S. G. Date and S. M. Karandikar.
- (8) "Treatment of piles with indigenous drug extracts." A. B. Varde, C. V. Patel and R. S. Satoskar.

The following staff members attended this conference :

Prof. S. M. Karandikar, Dr. A. B. Varde, Dr. S. S. Ainapure, Anuradha Kaxadia, Dr. Nirmala Rege, Dr. (Mrs) S. Sharma, Sujata Paropkari, Mrs. A. N. Trasi.

VIII International Conference of Pharmacology at Tokyo in July 1981. Dr. (Mrs.) N. A. Kshirasagar received a fellowship for young scientists for attending the conference. She presented 2 papers :-

- (i) Improvement in peripheral perfusion with epidural morphine in peripheral vascular diseases.
- (ii) Comparison of effect of Tromaril and indometacin on prostaglandin synthesis, urinary excretion and B. P.

- (9) Professor R. S. Satoskar attended the XIII Annual conference Society of Nuclear Medicine of India, at Srinagar from 1st to 3rd November, 1981. He chaired a session and participated in the Managing Committee meeting.
- (10) Professor Karandikar, Dr. Kshirsagar and Dr. Dahanukar attended the All India Immunologists' Conference at Bombay.
- (11) A paper entitled 'Clinical evaluation of Centbuclidine as a spinal anaesthetic' was presented at Anaesthesiology Conference held in Chandigarh, December 1981, by D. Dasgupta, M. Garasia, K. C. Gupta and R. S. Satoskar.
- (12) Dr. Mrs.) S. A. Dahanukar was invited to participate in international study group to study drug utilization in Sri Lanka.

Department of Biochemistry & Nutrition :

- (1) One staff member of this department attended the 8th Annual conference of Association of Clinical Biochemists of India where three research papers were presented.

Department of Medicine :

Papers presented :

- (1) Study of lipid profile in chronic renal failure.
- (2) Coagulation profile in patients of snake bite with or without renal failure.
- (3) Comparative evaluation of peritoneal and haemodialysis for chronic refractory schizophrenia.
- (4) Follow up studies in acute intrinsic reversible renal failure.
- (5) Electrophysiological study of peripheral nerve changes in chronic renal failure and effects of haemodialysis of the same.
- (6) Comparatiffe efficacy and tolerance study of Sisomyicin and Gentamycin in patients with urinary tract infection.
- (7) This year Xth Dr. M. D. Motashaw Memorial Nephrology Oration was delivered by Dr. Neil Kurtzman of the Abraham Luncoln School of Medicine, University of Illinois, USA and he talked on "Pathogenesis and management of hypertension."

Division of Endocrinology and Metabolic Disorder :

- (1) Mrs. Meena H. Gupte, Dietician, attended the XV Annual Conventions of the Indian Diabetic Association in Baroda on 9th-10th January 1981 and presented a Poster Exhibition on "Diet for Diabetics."
- (2) Mrs. V. R. Naniradekar, Medico-Social worker, presented a paper on "Diabetes in Industrial Workers at the 29th Annual Convention of All India Association of Occupational Health, Bombay on 11-4-1981.
- (3) Dr. S. D. Bhandarkar attended in International satelite conference on "Drug Therapy" at Baroda (13-11-1981), presented two papers and participated in the Educational programme for the lay public.
- (4) Second World Congress on Diabetes in the Tropics and Developing Countries (14-11-1981 to 17-11-1981), held in Bombay, was attended by Dr. S. D. Bhandarkar, Dr. Vimla Ratnam, Dr. N. Rais and Dr. D. G. Dalal.
- (5) Two free papers were presented by the Division at the Congress.
 - (i) Pancreatic Diabetes by Vimla Ratnam, S. D. Bhandarkar, N. Rais, R. D. Bapat and P. Rao.
 - (ii) Continues Low Dose Insulin Infusion, by Dr. D. G. Dalal, Vimla Ratnam, N. Rais and S. D. Bhandarkar.

Dr. S. D. Bhandarkar presented a paper on "Exercise and Diabetes" in the Continuing Post-graduates Education Session of the Congress.

- (6) The Division was recognised by the National Board of Examinations, New Delhi, to register postgraduate students for M.N.A.M.S. in Endocrinology.
- (7) Dr. S. D. Bhandarkar and Dr. R. S. Satoskar (Head, Dept. of Pharmacology and Clinical Pharmacology) were awarded the Burroughs Wellcome of India Ltd. Centenary Research Grant (Rs. 4.1 lacs) for carrying out research on "Diabetes in the Tropics."
- (8) Dr. Vimla Ratnam, Reader, was awarded "The Platinum Jubilee Lectureship by the Bombay Medical Union. She gave her oration on 23-10-1981.
- (9) Dr. B. T. Kudva, Lecturer, was awarded a prize for the best paper presented at the 38th Bombay Medical Congress held in Bombay in December 1981.

Department of Psychiatry :

- (1) Dr. D. R. Doongaji : Foundation firm for research in Psychiatry travel award to present paper at Satellite Meeting on Tardive Dyskinesia at American College of Neuropsychopharmacology.
- (2) Dr. D. R. Doongaji was invited to attend and present his papers on Tardive Dyskinesia by the National Institute of Mental Health in Washington D.C.U.S.A.
- (3) Dr. L. P. Shah participated in the workshop on National Mental Health plan organised by Director of Health Services, Govt. of India, at New Delhi in March 1981.
- (4) Dr. L. P. Shah attended the 3rd National and Regional drug dependence seminar at New Delhi in September 1981.
- (5) Dr. L. P. Shah was elected as Vice-President of Indian Psychiatric Society, West Zone in September 1981. He continues to be the Hon. General Secretary of Indian Psychiatric Society.
- (6) Dr. L. P. Shah and Dr. P. V. Pradhan along with other members of the unit, participated in the W.H.O. seminar on Biological Psychiatry in October 1981.
- (7) Dr. P. V. Pradhan hosted as co-chairman of the organising committee, the XII Annual Conference of the Indian Psychiatric Society, West Zone in September 1981.
- (8) Dr. R. M. Parikh stood first in D.P.M. (Part-I) examination of Bombay University held in May 1981.
- (9) Dr. R. M. Parikh represented the college at the All India Inter-collegiate and Inter-University competitions and won several awards.

Papers Published :

- (1) Depersonalization (A phenomenological study in psychiatric patients) J. Postgrad. Med 27(4) 226-230 (1981) (M. D. Parikh, A. S. Sheth and J. S. Apte)
- (2) Cross Cultural Study of a Biochemical Abnormality in Paranoid Schizophrenia. Psychiatry Research 3, 341-352 (1981) (D. V. Jeste, D. R. Doongaji, D. D. Panjwani, M. R. Datta, S. C. Potkin, F. Karoum, Shubha Thatte, A. S. Sheth, J. S. Apte, R. J. Wyatt).
- (3) Idiot Savant (A case Report), J. Postgrad. Med. 27(14. 4 -47 (1981). R. R. Abhyankar Shubha S. Thatte, D. R. Doongaji).
- (4) Understanding Lithium Therapy for psychiatric Disorders. The J. of General Practice 8(2), (1981). (D. R. Doongaji)
- (5) The measurement of psychosocial stress in relationship to an illness. A controlled study of 100 cases of malignancy submitted and accepted for publication in J Postgrad. Med.
- (6) Pimozide v/s Chlordizepoxide in Anxiety Neurosis II. Submitted and accepted for publication in Acta Psych. Belgica.
- (7) A study of Penluridol, an oral long acting neuroleptic. Submitted and accepted for publication in Acta Psych. Belgica.

Papers Read :

Adult Psychoiatry Branch, Division of Special Mental health.

Use of Metoclopramide in the diagnosis of drug induced involuntary movements.

Read at the International meeting on Neurological Science in October 1981.

Papers read at the International Satellite Meeting of the American College of Neuro-psychopharmacology in San Diego, U. S. A., in December 1981 and at the National Institute of Mental Health Research Intra-Mural Programme, Washington, D. C. U. S. A.

2) Tardive Dyskinesia in India Prevalence Study.

(3) Use of Metoclopramide in the differential diagnosis of Drug Induced Involuntary Movements.

(4) Study of Acute Metoclopramide in 81 patients with Tardive Dyskinesia.

Papers read at the XII Annual Conference of IPS-West Zone, Thane in September 1981

(1) Experiences in the setting up of liaison psychiatric services in a general hospital setting

(2) Treatment of 10 smokers by behaviour therapy.

(3) Disulfiram therapy in alcoholics : A comparison of patients given a challenge reaction with those without a challenge.

(4) A double blind controlled study of chlorpromazine v/s. ECT therapy in schizophrenia.

(5) The use of lithium therapy in aggression.

(6) Correlation of lithium drug dosage with serum lithium levels.

(7) The use of lithium therapy in hyperactivity in Children.

(8) The use of psychotropic drugs in India with particular reference to problems of their abuse and dependence. Paper read at the III National and Regional Conference on Drug Dependence and Alcoholism at New Delhi in September 1981.

(9) The irritable Bowel Syndrome : A study of its medical and psychological Aspects .

(10) Paper read at the Planary Session, 22nd Annual conference of Gastroenterology at Trivendrum in September 1981.

(10) Transcultural psychopharmacology. Paper read at the transcultural Psychiatry Meet at Madurai in March 1981.

Department of Neurosurgery :

(1) Dr. Anil P. Karapurkar spent 6 months visiting various internationally reputed centres abroad. He benefited from observation and discussions at Centres headed by Professors Dr. G. G. Guiot, P. J. Derome, J. Rouggerie (Hospital Pitieus in France, C. G. Drake and S. Peerless (London Ontario), H. Hoffman (Toronto.)

(2) Drs. Anil Desai Ranjit D. Nagpal and J. A. Shelat attended the National Seminar on C. N. S. Infections at the A. I. I. M. S., New Delhi on February 10-12-1981. The following papers were Presented.

(i) Desai Anil, D., Mohire M. D. and Shah Sanjay J. cryptococcal infection of central nervous system with special emphasis on vascular Complications.

(ii) Nagpal Ranjit D. Anaerobic infections in the CNS.

(3) Drs. Anil D. Desai, S. K. Pandya, A. P., Desai, Ranjit D. Nagpal M. D. Mohire, S. K. Goyal and S. Athle attended the Annual Conference of the Neurological Society of India at Visakhapatnam in December. The following papers were presented :—

(i) Desai Anil D., Mohire M. D.,-Spinal Muscular Atrophies.

(ii) Pandya S. K., Karapurkar Anil P.-Vertebral Angiography.

(iii) Pandya S. K.-Management of aneurysm on artery feeding a cerebral arteriovenous malformation.

(iv) Desai A. P., Pandya S. K.,-Sarcomas of the brain-a study 16 cases.

(v) Nagpal Ranjit D.-Surgery of brainstem tumorus.

(vi) Goyal S. K., Karapurkar A. P.,-Intracranial subdural abscess-a study of 56 cases.

(1) Dr. Anil D. Desai visited the Madras Medical College and Hospital, Madras as examiner for D. M., Neurology degree.

(4) Dr. S. K. Pandya was invited to talk on the Surgical Management of Tuberculosis of the Nervous System at the "Centenary Celebrations of the Discovery of the Tubercle Bacillus by Robert Koch" at B. J. Medical College, Poona on 20 June 1981.

(5) Dr. A. P. Karapurkar was invited to talk to the Bombay Association of Speech Therapists on "Aphasia" in August 1981.

(6) Dr. Ranjit D. Nagpal was invited to Deliver a lecture on "Microsurgery for vascular problems of the Nervous System" at Workshop on Microsurgery at Tata Memorial Hospital.

Awards, Fellowships, Orations etc :

(1) Dr. Anil D. Desai delivered the Sir Shriram Memorial Oration (Indian Academy of Medical Sciences) on "Duchenne Muscular Dystrophy-An Overview" in Bomoay and Bangalore in March April 19 1

Publications :

(1) Desai, Anil D.-"Duchenne Muscular Dystrophy-An Overview" An, Atatl Acad. Med. Sci. (India) 1981, 17-127,154.

(2) Desai, Anil D., Mohire M. D.-Spinal Muscular Atronthies. Continuing Medical Education Programme.

(3) Nagpal, Ranjit D.-Extracranial to intercranial Bypass. J. Postgrad. Med. 1981, 27, 189-190.

(4) Pandya, Sunil K., B. Ramamurthi. Surgical Neurology 1981, 15-325-327.

(5) Pandya, Sunil K., Karapurkar, Anil P. Vertebral Angiography. Continuing Medical Education programme, Neurological Society of India. 1981, Part 1,125-133.

Social Services Department :

(1) Attended Seminars and presented papers at the seminars conducted by other institutions.

(2) In the month of March, 1981, a paper titled "Full participant and Equality of paraplegics in Society" was read in the Conference arranged by Indian Society for Rehabilitation of Handicapped at Madras by Mrs. Aruna Shah.

(3) Miss. Goswami read a paper on "My experience with the physically handicapped at the joint on conference of the Indian Soc'ety of Psychiatric Social work and the Indian Social science Association held at Jabalpur in March, 1981.

(4) Mrs. Nandivadekar read a paper on "Diabetes and Industrial workers in Bombay" in April 1981 and Indian Associations of Occupational Health XXIX annual convention.

Department of Physiology :

(1) Dr. (Mrs.) S. M. Kendurkar, Dr. J. B. Dharani, Dr. (Mrs.) J. A., Bharadwaj & Dr. S. J. Kashalikar presented their paper on "Rolle of In Experimentally Induced cardiac Arrhythmias" in the XIV Annual Conference of Indian Pharmacological Society held in Bombay on 29th, 30th 31st December 1981.

(2) Dr. J. B. Dharani was co-author for the paper published by Dr. G. B. Parulkar at all "Impedance Cardiography in mitral valve Disease" Journal of Post-graduate Medicine (1980), 26, 155-161.

(3) Dr. (Mrs.) K. Dso participated in International Conference of woman Scientists & Engineers in Bombay. Presented a paper on "Brain Development if Malnutrition on Experimental Animals" in Oct. 81. She also participated in a symposium held by International Neurological Society in Bombay on "Tropical Neurology" in Dec. 81.

Department of Molecular Biology :

- AMI, 22n Annual Conf. at Central Drug Research Institute, Lucknow Oct. 1981.
- (1) In-Vitro and in-vivo efficiency of povidone iodine M. J. Sathe and Leela Joshi.
Fifth Annual Congress of the Ind. Ass. of Med. Microbiologists Madras.
 - (2) Mutagenic effect of Metranidazole on Aerobes and Anaerobes L. Joshi, M. J. Karmarkar, S. R. Pai.
 - (3) Comparative effect of Povidone iodine and Nonoxynol iodine on hospital strains. C. Patankar and L. Joshi.
 - (4) Infection Neonates -L. Thiruvankadam and L. Joshi.
First National conference of chest and Respiratory diseases, Bombay 1981.
 - (5) Study of Combination of Antimycobacterial drugs on M. F. Fortuitum-S. P. Naik and L. Joshi.
ICMR/WHO conference on Coronary heart Disease, Bombay.
 - (6) Importance of ASO and Anti Dnase B in the Diagnosis and control of Rheumat Disease.

Department of Paediatric Medicine :

Participation in Conferences Pannel Discussion Lectures/Symposia Dr. N. B. Kumta :-Conference ;

- (1) X National Conference on Communicable disease on "S Typhimurium and its infections- Organised by Indian Association fo Communicable diseases-Chairman, Jan 81.
- (2) The First Combined Asian Regional and Commonwealth Congress for the Scientific Study of mental deficeincy-Convener for scientific sessions and K. E. M. Workshop, Paper read- "Inbors Errors of Metabolism" and Etiological Surve of Mental retardation"-May 81.
- (3) Pre-conferance Teaching Session and VIII Annual Conference of Human Genetics-B. J. Medical College, Pune.
Lectures-Biochemical Genetics
Skeletal Dysplasias.
Papers-Raiger's Syndrome
'Gmil Gangliosidosis
Congenital Malformations in newborn.
- (4) 2nd Annual Conventiön of National Neonatology Forum as Chairmperson-Oct. 81'.

Lectures/Symposia :

- (1) National Academy of Medical Sciences-Continuing Medical Education Programme in Pediatrics for postgrad ates-lecture on " screening Tests for Mental Retardation -March 81.
- (2) World Health Day Theme-"Health for All by 2000 A. D." Observance of Day-Topic spoken on "Monitoring growth and development through primary health care"-April 81.
- (3) Refresher Course in Obstetrics convened for Bombay West Suburban Branch of I. M. A. Talk on "Perinatology"-April 81.
- (4) WHO/ICMR Group educational activity meeting on "Immunological Concept in Hematology"/-Lectures-Igm studies in newborns of mother who suffered from infections", Phagocytic cell functions in new orn"-No . 81.
- (5) "Spastics Society of India & U. K.-Chairman for meeting organised.

Papers :

- (1) An Etiological study of Juvenile Cataract. Genetic Clinic, Pediatric Research Laboratory and Dept. of Ophthalmology, K. E. M., Hospital, Parl, Bombay-12. Indian Pediatrics Vol. 18,731-739,1981.
- (2) Encephalolacial Angiomatosis. Dental Dialogue, Volume III No. 1 & 2, 35-37, 1981.

Dr. M. D. Shah :

- (1) Dr. M. D. Shah and Dr. (Mrs.) V. V. Kulkarni attended National Conference of Indian Academy of Pediatrics at Hyderabad and presented paper on "IgE studies in Bronchial Asthama.
- (2) Attended 1st National Conference on Chest disease.
- (3) Attended panel discussion on Juvenile Diabetes held at Bhandup branch of I. M. A
- (4) Attended panel discussion on Juvenile Diabetes held by Diabetic Association of India at Mahim, Bombay.

Dr. (Mrs.) P. W. Kandoth and Dr. (Mrs. -M. K. Joshi :

- (1) Dr. Kandoth Dr. Joshi and Dr. Kamat attended Neonatology Forum held in Wadia Hospital on October, 1981.
- (2) Dr. (Mrs.) Kandoth attended the National Conference for Indian Academy of Pediatrics at Hyderabad.

Dr. S. F. Irani :

- (1) Contributed to a chapter in "Prescription" for neonates in Golwalla's book.
- (2) Recommendation for neonatal care, 1981.
- (3) Article on Space requirement for Intensive Care Nursery.
- (4) Cerculoplasmin level in newborn. Read at Pediatric Conference.
- (5) Attended Hyderabad Conference and was a Chairman for Neonatology Session, 1981.
- (6) Spoke at the Seminar on Respiratory Problems in Children conducted by Indian Academy of Pediatric at Nagpur, 1981.
- (7) Organising Secretary of the National Neonatology Forum and a Chairman at one of the session at Hyderabad.
- (8) Infections in newborn-read at National Neonatology Forum in October, 1981.

Dr. M. K. Jain :

- (1) I. M. A. Bombay Branch-29th January, 1981 at Mahalaxmi I. M. A. hall. Attended Panel discussion on "Infant Feeding subject discussed by Dr. Jain-"Weaning."
- (2) Annual Conference of Indian Association of Pathologists and Microbiologists-Belgaum, Jan. 1981. Paper read and co-authored "Shigellosis in Children."

Prizes & Awards :

W. H. O. Fellowship was awarded to Dr. Mrs. Kandoth for Reorientation of Undergraduate Paediatrics Programme."

Department of Plastic Surgery :

- (1) Dr. K. S. Goleria, Hon. Prof. and Head of the Department was appointed as a Convenor of the Plastic Surgery Section in the National Board of Examination, New Delhi.

Department of E. N. T. :**Dr. P. P. Karnik.**

- Elected as President of A. O. I. for the year 1982.
- Elected as President of International College of Surgeons for the year 1982.

Dr. M. V. Kirtane :

- Participated in International Conference on Neurotology held at Budapest.
- Invited as Visiting Professor by All India Institute of Medical Sciences, New Delhi.

Papers presented :

- New Prosthesis to tympanoplasty.

Dr. S. B. Ogale

- Recipient of "Dr. S. G. Joshi Memorial Prize for the best thesis submitted for M. S., Examination, Bombay University.

Papers Presented :

- Rare Diseases in E. N. T.
- Cervical spondylosis and vetigo.

Department of Anesthesiology.

10 Staff members attended the Annual Conference of Indian Society of Anaesthetists. Eight Scientific papers based on work at our Institutions were presented. Work on five research projects are continuing.

Research continues by way of guiding the P. G. students for their thesis work. Staff members attended annual Conference of Indian Society of Anaesthetists and Thoracic Sectional Conference and presented Six scientific papers.

Department of Pediatric Surgery :

- (1) In August 1981 Dr. R. K. Gandhi and Dr. (Mrs.) S. S. Deshmukh attended the International Congress of the British Association of Pediatric Surgeons at Southampton. Dr. (Mrs.) S. S. Deshmukh also presented a paper on "Management of Empyema in Children".
- (2) The pediatric Surgical Intensive Care Unit and the Operation Theatre block is nearing completion and is expected to be commissioned in the month of March 1982. A workshop on "Intensive Care in Pediatric Surgery" is planned to mark the Inauguration of the new prestigious block.
- (3) Dr. (Mrs.) S. S. Deshmukh attended British Association of Paediatric Surgical Conference and Paediatric a per management of empyema in children at Southempton.
- (4) Dr R K Gandhi Attended the conference of British Association of Paediatric Surgical conference at Southempton.

Papers presented :

- | | |
|--|---|
| (1) Urinary Ascites in children | Urological Society of India, Bombay (1981) |
| (2) Wilms tumour in children | Urological Society of India Bombay (1981). |
| (3) Management of Empyema in children. | Maharashtra Chapter of A.S.I. Sholapur (1981) |
| (4) Guest lecture on management of common Paediatric Surgical problems. | Dashodi Mahotsav of Bardoli Medical Association (1981) |
| (5) Guest Lecture on Management of burns in children. | Dashodi Mahotsava of Bardoli Medical Association (1981) |
| (6) Comparative study of surgical procedures for low imperforate anus in females, ASI, Patna | A. S. I. Patna (1981) |
| (7) Anaerobic infection Introduction to symposium | A. S. I. Patna (1981) |
| (8) Abnormal swelling presenting as lymphadenopathy | A. S. I. Patna (1981) |

APPENDIX IX

PROJECTS INVESTIGATIONS AND TESTS

Department of Molecular Biology :

- (1) Pyocin Typing of *Ps. aeruginosa*.
- (2) Effect of Drug combination on highly resistant strains of *Ps. aeruginosa*.
- (3) Use of ASO Streptozyme and CRP tests in the diagnosis and control of nosup purative streptococcal infections.
- (4) Characterization of antigen and antibodies of streptococci.
- (5) Transfer of Drug resistance.
- (6) Isolation of resistant plasmids and their characterization.
- (7) Post operative complications in general surgery.
- (8) Microbial transformation of antibiotics with special reference to aminoglycosides.
- (9) Effect of Povidone iodine and Nonozynol iodine on hospital strains.
- (10) Isolation and identification of *Vibro para haemolyticus* from Indian Shrimps.
- (11) Removal of drug residence in Vitro.
- (12) Mutagenic effect of Metranidazole on Aerobes and Anaerobes.

Department of Obstetrics & Gynaecology :

Rh Immunoglobulin Injection Trial in Rh. Neg. Women.	80
A new Serilogical Technique for early diagnosis of ABO in compability in new borns.	140
Fetomaternal Hemorrhage Study.	60
Reserve Albumin Binding capacity in neonates by HABA	280
Amniotic fluid study for Fetal maturity :-	
(i) Nile Blue Test	102
(ii) Shake test.	102
(iii) Spectrophotometry.	102
(iv) Creatinine.	102
Oxytocinase (Placenta Enzyme Assay	500
Normal Pregnancy & H. R. P.	
Tissue culture chromosome Culture & Koyroyotyping.	20

APPENDIX X

List of Operations performed in the Cardio Vascular and and Throacic Operations Theatre

1 Arotic Valve Replacement	47
2 Mitral Valve Surgery	
—Open Valvotomy	101
—Mitral Repair	2
—Mitral Replacement	148
3 Double Valve Surgery	
—Aortic & Mitral	38
—Mitral & Tricuspid	24
4 Tripple valve surgery	6
4 Pulmonary Valve Surgery	7
6 A. S. D. + Related Lesions	82
7 V. S. D. + A Related Lessions.	23
8 Total Correction of TOF	28
9 Rare heart Operations	5
10 Aortic Aneurysms (ARCH)	8
11 Cardiac Tumors	2
12 Coronary Artery By-pass Surgery & Ventricular Aneurysms	6
13 Miscellaneous	5
Total Open heart operations	532
Other Thoracic and Vascular operations	613
Total No. of operations	1145

APPENDIX XI

Serial No.	Description of Activity	Unit of Measurement (Daily Average)		Actual 1979-80 Patients	Budget Estimate 1980-81	Revised Estimate 1980-81 Patients	Budget Estimate 1981-82 Patients
		O. P. D.	Indoor				
1	2	3	4	5	6	7	8
1	Medicine Deptt. ..	126	39	61,297	65,000	59,628	64,000
2	Surgery Deptt. ..	76	28	43,213	46,000	42,000	46,000
3	Obst. & Gynaec Deptt. ..	43	30	29,440	32,000	29,676	33,000
4	Paediatric Deptt. ..	35	15	20,158	24,000	19,032	24,000
5	Premature baby ward ..	..	1	300	500	500	500
6	Radiology Deptt. (X-Ray Taken) ..	..	340	1,22,000	3,00,000	3,50,000	3,50,000
7	Pathology & Bacteriology Deptt. (Investigations) ..	..	..	7,00,300	1,00,000	1,00,000	4,65,000
8	Casualty Deptt. ..	308	..	95,757	99,000	1,00,536	1,01,500
9	Orthopaedic Deptt. ..	80	11	40,650	35,000	38,256	35,000
10	Ear Nose Throat Deptt. ..	59	55	25,873	26,500	25,056	26,000
11	Ophthalmic Deptt. ..	54	4	24,919	26,000	24,540	26,000
12	Skin & Ven. Deptt. ..	105	1	33,614	36,000	28,800	35,000
13	Gastro Enterology ..	2	..	587	1,100	200	1,000
14	Blood Bank (Doners) ..	..	33	10,864	14,000	14,000	15,000
15	Neurology Deptt. ..	10	1	1,911	2,300	1,032	1,800
16	Urology Deptt. ..	8	1	1,255	1,500	1,428	1,900
17	Speech Deptt. ..	Reflected	in Ear, Nose	Throat Deptt.			
18	Psychology ..	26	3	8,964	9,400	8,808	9,500
19	Biochemistry Deptt. ..	300	..	1,09,500	90,000	90,000	1,50,000
20	Pharmacy Deptt. ..	..	..	..	..	..	..
	I. V. Bottles ..	715	..	23,520	30,000	30,000	40,000
	Salines Sets ..	207	..	70,807	80,000	80,000	90,000
	Bleeding Sets ..	57	..	17,560	19,000	19,000	22,000
21	Intensive Care Unit ..	11	3	5,100	6,055	6,055	6,055
22	Dental Clinic ..	35	..	15,071	16,000	15,396	16,500
23	Neuro-Surgery Deptt. ..	7	1	4,202	5,000	3,096	4,000
24	Plastic Surgery Deptt. ..	2	2	1,230	1,500	1,188	1,500
25	Thoracic Surgery Deptt. ..	10	2	3,076	3,200	3,540	3,800
26	Cardiology Deptt. ..	30	2	4,100	4,600	3,384	3,800
27	Asthma Clinic ..	Reflected	in Chest Clinic				
28	Diabetic Clinic ..	Reflected	in Endocrinology.				
29	Haematology Deptt. ..	..	1	823	800	372	800
30	Endocrinology Deptt. (including diabetic) ..	12	1	2,344	2,900	2,832	3,400
31	Artificial Kidney Deptt. ..	1	..	340	425	430	450
32	Dispensary Service ..	2	..	807	1,500	372	1,000
33	Epilepsy Clinic ..	25	..	1,680	2,000	1,392	1,800
34	Chest Clinic ..	17	2	2,614	2,800	2,508	2,700
35	Arthritis Clinic ..	7	..	1,655	600	372	2,000
36	Vascular Clinic ..	Reflected	in Thoracic Surgery Deptt.				
37	Immunization Centre ..	20	..	2,577	2,700	2,448	2,600
38	Observation of T. B. Cases ..	Reflected	in Medicine Deptt.				
39	Audiology Deptt. ..	Reflected	in Ear, Nose & Throat Deptt.				
40	Mobile Health Unit ..	No such unit is existence	in this Institution				
41	Occupation Therapy ..	..	35	12,900	16,000	16,000	16,000
42	Physio Therapy ..	..	65	24,000	27,000	27,000	27,000
43	Sports Clinic ..	7	..	355	500	500	1,500
44	Evening Dispensary for Municipal Staff. ..	2	..	24	100	12	100

Bai Yamunabai L. Nair Charitable Hospital & Topiwala Natinal Medical College

HIGH LIGHT :—**Hospital :—**

(1) Total expenditure including liabilities	...	...	Rs. 3,96,89,169.00
(2) Donations received	...	...	Rs. 71,619.00
(3) Amount collected from boxes	...	...	Rs. 22,134.20
(4) Amount spent from the fund for the poor patients	...	...	Rs. 5,24,970.32

Indoor Patients :—

Beds	...	850	In-patients	...	42,988
Daily average number of patients	...	...	...	...	1,082.67
Highest number of Inpatients on a single day	...	...	...	...	173
Highest number of Admission on a single day	...	...	...	...	1,227
Number of patients discharged during the year, including 1,127 brought from the previous year	...	...	...	...	43,320
Cured	...	...	...	...	40,119
Otherwise	...	...	...	...	1,031
Average stay of patient	...	...	...	...	9.8 days.
Average cost per in-patient	...	...	...	...	Rs. 61.88
Average cost per out-patient	...	...	...	...	Rs. 11.59

Deaths :—

Within 24 hours of admission	...	...	...	...	587
After 24 hours but within 72 hours of admission	515
Exceeding 3 days	972
Total				...	<u>2074</u>

Operations :—

Indoor patients	15,128
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Autopsies :—

Post-mortem done	1,164
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Deliveries :—

(1) Confinements	3,133
(2) Deliveries	2,777
(3) Maternal deaths	15
(4) Medical termination of pregnancy	850
(5) Sterilization (Female)	...	...	...	...	655
(6) Sterilization (Male)	...	...	...	...	117
(7) Baby deaths	...	...	...	...	Full term 20 Premature 209
(8) Baby still-births	...	...	...	...	Full trem 54 Premature 60

Out Patient Department :—

(1) O. P. D. attendance	...	...	...	...	11,10,585
(2) Daily average O. P. D. new attendance	...	...	...	...	900i16
(3) Casualty attendance	...	...	...	...	19,978
(4) Daily O. P. D. attendance (Old & New)	...	...	...	...	3,665.30
(5) Highest No. of attendance on a single day	...	...	...	...	4,043

Court Cases Attended by R. M. O.s :—

(1) Presidency Magistrate's Court	...	...	...	...	310
(2) Sessions Court	...	...	...	...	102
(3) Motor Accident Tribunal	...	...	...	...	45

Paying Bed Scheme :—

The paying bed scheme has started functioning from 18-7-1977 in the side section of Ward 17 for female patients and Ward 20 and 21 for male patients 325 patients had taken the advantage of the paying beds during the year 1981.

INTENSIVE PAEDIATRIC CARE UNIT :

An Intensive Paediatric Care Unit started functioning from 1-8-1977 in a special & separate section of the Paediatric ward. The Intensive Paediatric Care Unit admit acutely 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 this specialised unit. During the year 1980, 356 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 includes 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. 758 patients were treated in this section.

EXPANSION PROGRAMME :

A Multi-storeyed building under construction.

The building will accommodate the following Departments and wards.

- (1) Casualty with Emergency ward.
- (2) O. P. D. services.
- (3) Wards and specialised departments.
- (4) Medical and other stores.
- (5) Central Sterile Supply.
- (6) Seminar and lecture hall and dormitory type of accommodation for doctors and nurses.
- (7) Medical Record Section.
- (8) Blood Bank and other departments etc.
- (9) Nurses and R. M. O.'s Residential accommodation.

TRAINING CENTRE :

The hospital provides facilities to medical and dental students from the Topiwala Medical College and Nair Hospital Dental College. It also trains nurses both in General Nursing and in Midwifery. There is also a special Audiology Training School and Centre.

B. Y. L. NAIR CHARITABLE HOSPITAL**AND****TOPIWALA NATIONAL MEDICAL COLLEGE**

Bai Yamunabai L. Nair Charitable Hospital continued to render Medical Relief to the sick and Topiwala National Medical College imparted Medical Education to the students, as usual.

Dr. J. V. Bhatt, M.B.B.S., M.D. and Dr. K. K. Gulati, B.Sc. (Hons.), M.B.B.S., D.A., C.P.S., D.A., C.I.H., D.P.H., F.R.I.P.H.H. (Lond.) held the posts of Dean and Asstt. Dean respectively during the year.

Dr. (Smt.) P. G. Hiranandani, M.B.B.S. and Dr. (Smt.) N. Dixit, M.D. held the post of Sr. Asstt. Medical Officer.

Shri Dinesh Jadhav held the post of Ward Officer.

The land adjoining Nair Hospital has been acquired by the Bombay Municipal Corporation and construction of Building to house the Nurses, Medical Staff, Nurses School and 300 bedded New Hospital Building, are in progress.

The Hospital runs the following departments :—

- | | |
|-----------------------------------|---------------------------------------|
| (1) Medical | (2) Surgical |
| (3) Ophthalmic. | (4) Gynaecology. |
| (5) Obstetric. | (6) Skin and V. D. |
| (7) Aural. | (8) Orthopedic. |
| (9) Paediatric. | (10) T. B. |
| (11) Cardiology. | (12) Cardiac-vascular Surgery. |
| (13) Gastro-enterology (Medical). | (14) Gastro-enterology (Surgical). |
| (15) Psychiatry. | (16) Preventive and Social Medicine. |
| (17) Rheumatic and Col. Diseases. | (18) Neurology. |
| (19) Neuro Surgery. | (20) Plastic Surgery. |
| (21) Renal Surgery. | (22) Genito-urinary Surgical Service. |
| (23) Thyroid Surgery. | (24) Anti Rabic. |
| (25) New Born. | (26) Diabetic. |
| (27) Paediatric Surgery. | (28) Haematology. |
| (29) Special Care. | (30) Thoracic. |
| (31) Hypertension Clinic. | (32) Asthma Clinic. |
| (33) Pain Clinic. | (34) Abortion Clinic. |
| (35) Glaucoma Squint Clinic. | (36) Endocrinology. |

1. DEPARTMENT OF MEDICINE :—

The department of Medicine consists of 4 full-time and 2 part-time units. There are other specialised units like Gastroenterology, Cardiology which are full-fledged speciality units. Other specialities with limited number of beds are Nephrology, Rheumatology, Haematology, Diabetic, Thyroid, Hypertension and Asthma.

2. DEPARTMENT OF SURGERY :—

The department of General Surgery is now being developed by acquiring sophisticated instruments such as working elements for cutting urethral stricture and prostatic surgery. G. E. endoscopes plus Photographs attachment, Lecturerscope and Teaching accessories for are being ordered. Meetings of the Generalendoscope Units were held quite frequently to discuss and solve the problems in a proper manner. Under-graduate and post-graduate teaching programme, as well as clinical meetings were conducted as per schedule. Clinicals as well as lecture programmes of the dental students was also conducted properly.

3. DEPARTMENT OF GYNAEC AND OBSTETRIC :—

Department of Gynaec and Obstetric consists of 3 units, one full-time and two units under Hon. Professor and Asstt. Professor. Each units functions twice a week.

4. DEPARTMENT OF PAEDIATRICS :—

The Department of Paediatrics continued to work with one full-time unit and one part-time unit.

INDOOR SERVICES :—

Paediatric Ward : Bed strength	...	51
Total admission	...	3508
Total deaths	...	353

Intensive paediatric care unit : Bed strength (6 including 2 incubators),		
Total admission	...	355
Total deaths	...	152

Neonatal Ward : Bed strength	...	55
Total deliveries	...	3161
Total Deaths	...	1444

During the year 186 sick neonates were transferred from peripheral hospitals. Of these 28 neonates died.

Premature Nursery : Bed strength	...	6
Total admission	...	158
Total death	...	55

Recreation Therapy Centre : All the ambulatory patients from the paediatric Ward are sent to the Centre.

Total No. attended : 2538.

O. P. D. Services :—

The paediatric O. P. D.'s conducted on all working days of the week.

Total new cases ... 28356

Old cases ... 1,25,000 approx.

Special Care O. P. D. conducted thrice a week.

Total patients visits ... 248

Neonatal O. P. D. : Conducted twice a week. Total No. of Neonates followed 852.

School Clinic : Works for 5 days in a week.

	New Cases	Old Cases	Total
Primary	... 2,276	19,222	1,498
Secondary	... 201	415	616

Peripheral Activities :—

Diagnostic Centre : Conducted twice a week in the afternoon at Soutter Street.

New Cases	... 114	Old Cases	... 221
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Child Guidance Clinic : Conducted on all week days. The clinic has been shifted from Soutter Street to T. N. Medical College.

New cases 495 Old cases .. 247

Child Welfare Centre : At Bellasis Road.

Clinic Attendance :	Home visits ..	922
Infant ..	No. of education classes ..	65
Toddler ..	(each class 25 to 30 mothers).	
Others ..		
No. of Demonstration classes ..	No. of Nutrition classes ..	49
(each class 25 to 30 Mothers).	(each class 25 to 30 Mothers).	
Immunisation :	Film shows :	
Triple ..	Family planning.	
Polio ..	Childs Development.	
Measles Vaccine. ..	Prevention of accidents.	
	Child Care.	
	Road safety.	

Victoria Paediatric Centre :—

Child Attendance :	Home Visits :	Immunisation :
Infant .. 91	Infant .. 913	Triple .. 1536
Toddlers .. 179	Toddlers .. 170	Polio .. 1536
Others .. 198	Others .. 88	Measles Vaccine 200
Referred Cases—28	Health Education & Nutrition classes—	
	220 mothers attending classes.	
Attendance for milk—Daily 54-60 children.	Nutritional prophylaxis—Inj. Vit. D.-55	
	Cap. Vit. A-500	

Kamathipura Maternity Home :—

No. of attendance ..	500	No. of cases transferred ..	69
Immunisation : Triple ..	754	No. of Health talks ..	310
B.C.G. ..	1163		

Immamwada Maternity Home :—

No. of patients attended :	Infant 75	No. of new cases ..	63
Toddlers 184		Medical Check up ..	245
No. of new cases ..	63	Milk distribution ..	14667
Immunisation : Triple ..	602	No. of Home Visit ..	511
Polio ..	605	No. of nutrition classes ..	22
B.C.G. ..	770		
Measles ..	130		
Vit. A ..	130		
Folic Acid & Iron Tab. ..	14612		

Mahim Maternity Home :—

No. of cases ..	394	Milk distribution ..	2269
Nutrition classes ..	770	Home Visits ..	644
Immunisation (Triple, Polio) ..	3179	Measles Vaccine ..	605
Sy. Vit. A ..	2269		

Kasturba Hospital :—

Dr. (Mrs.) P. M. Pai, Professor & Head Department of Paediatrics, continues to visits Kasturba Hospital twice a week.

Teaching Activities :—

Undergraduate Students ; Lecture series and clinical terms.

Postgraduate Students ; Clinics, weekly death conference, monthly seminar, intercolle-
giate meeting.

Nursing Students ; Series of 30 lecture twice a year.

B.Sc. (A.S.T.) ; Lecture series.

5. ANAESTHESIOLOGY :-

The department is running the Anaesthesia, Resuscitation and Pain Services at the B.Y.L., Nair Ch. Hospital, Nair Dental College, E.N.T. Hospital (Fort), Bhagwati Hospital, (Borivli) Bhajekar Hospital, Bhabha Hospital (Kurla), Bhabha Hospital (Bandra), Santacruz General Hospital and Kasturba Hospital.

The number of Anaesthesia this year at the B.Y.L. Nair Ch. Hospital are as follows :-

Cardiac Surgery	.. 412	Neuro Surgery	.. 449
General Surgery	.. 5301	E.N.T.	.. 1751
Gynaec.	.. 2676	Orthopaedio	.. 2724
Ophthalmic	.. 194	Radiology	.. 300
Cardiac Cath	.. 915	E.C.T.	.. 11182
Recovery Ward	.. 3841	Anaesthesia Assesment Clinic	.. 333
		Total	.. 30078

DEPARTMENT OF NEUROLOGY :-

The O.P.D. functions twice a week on Tuesday & Thursday.

New cases (Total Indoor & OPD)	..	1363
Referred cases	..	360
O.P.D. Cases	..	1050
Admissions	..	313
E.E.G.	..	290
Myelograms	..	9
Carotid Angiograms	..	154
P.E.G.	..	11
Orbital Venograms	..	1
Tomograms	..	10
Arch Aortograms & V.B. Angiograms	..	1

7. DEPARTMENT OF NEUROSURGERY :-

The O.P.D. functions twice a week Tuesday and Thursday.

O.P.D. attendance	..	2013
Neuro-radiological procedures :		
Carotid Angiogram	..	160
Ventriculogram ; Myodil	..	62
Conray	..	14
Air	..	3
P.E.G.	..	10
Myelogram	..	24
Operation Work :		
Craniotomy..	..	118
1) Supratentorial	..	94
2) Intratentorial	..	24
Spine	..	72
1) Cervical laminectomies..	..	27
2) Dorsal laminectomies ..	..	17
3) Lumbar laminectomies	..	17
4) Meningocele	..	11
V. A. Shunts	..	63
Depressed fracture	..	31
Others	..	151
New activities :-		
1) Radiofrequency thermo coagulation for trigeminal neuralgia	..	26
2) Percutaneous cardiomy	..	1
3) Steriostexis surgery	..	4

8. GASTROENTEROLOGY DEPARTMENT (Medical) :-

The O.P.D. functions twice a week. During the year 680 out-patients and 635 Indoor patients have been attended. 3950 patients were asked to attend for regular follow up.

Routine Investigations :-

C.B.C.	.. 775	E.S.R.	.. 782
Urine	.. 668	Stool	.. 1106

Biochemistry Investigations :-

Liver Function Test	481	Serum Bilirubin	..	481
S.G.O.T./S.G.P.T.	472	Serum Protein	..	512
Serum Electrolytes	251	Serum Amylase	..	45
Serum Uric Acid	2	Ascitic Fluid Amylase	..	54
Serum Calcium/Phosphorus	12	Serum Cholesterol	..	321
B.S.P.	145	Serum Creatinine	..	3
Acid Phosphatase	2	C.S.F.	..	1
P.T./P.T.	234	Fibrinogen	..	327
B.U.N.	334	Blood Sugar	..	5
Alkaline Phosphatase	436	G.T.C.	..	

Special Investigations :-

Schilling Test	..	31	Faecal Fat	..	35
D-xylose Absorption	..	27	Hepatitis-B Antigen	..	60
Protein Electrophoresis	..	20	Augmented Histamine Test	..	106
Intra-Gastric Titration	..	46	Acid Load Test (Viral Hepatitis)	..	24
Gastric Collection	..	50			

Endoscopies :-

Sigmoidoscopy	..	414	Oesophago-Gastro-Duodenoscopy	250
Peritoneoscopy	..	200	E.R.C.P. (Attempted)	75
Colonoscopy	..	20		

Biopsies :-

Oesophagus	..	50	Gastric	..	100
Duodenum?	..	5	Jejunum	..	19
Colon & Rectum	..	31	Peritoneum	..	45
Liver	..	130			

9. THORACIC AND CARDIOVASCULAR SURGERY :-

The Department of Cardio-vascular & Thoracic Surgery is running three out-door clinics every week i.e. on every Monday, Thursday and Friday. On an average in outdoor clinics about 20 new patients are seen; as many indoor and out-door patients are referred from other departments of our hospital as well as from other peripheral hospitals including Kasturba Hospital, Rajawadi, Bandra Bhabha and Jagjivanram Hospital. Their referrals are for various Cardiac, Thoracic & Vascular problems.

In 1981, following operative work was done in the department of Cardio-vascular and Thoracic Surgery. Total 490 operations were carried out with breakdown as follows :-

I. TOTAL NO. OF HEART OPERATIONS	..	..	..	108
A. Closed Procedures	..	..	71	
(1) Closed Mitral Commissurotomies	..	45		
(2) Pericardiectomies	..	11		
(3) Congenital Heart Lesions (P.D.A. Shunts etc.)	..	8		
(4) Pacemaker implantation	..	7		
B. Open Heart Operations	..	..	37	
(1) Congenital Cardiac Lesions (A.S.D., V.S.D., T.O.F., etc.)	..	18		
(2) Valve Replacement (Mitral or Aortic valve replacement)	..	11		
(3) Double valve replacements	..	6		
(4) Aorto Coronary Saphenous vein by pass grafting	..	3 (one with AVR)		
II.—THORACIC OPERATIONS	..	..	..	317
A. Major (Lung resections, Decortications, Thoracoplasties)				30
B. Minor (Intercostal Drainage, Bronchoscopy etc.)				262
C. Miscellaneous	..	..	..	25
III.—VASCULAR OPERATIONS	..	..	..	65
A. Major (Aortoiliac, ilio-femoral Femoro-popliteal By pass, Aortic Aneurysms etc.)	..	..	..	27
B. Minor (Peripheral arterial aneurysms embolectomies shunts etc.)	..	..	..	38

10. DEPARTMENT OF CARDIOLOGY :—**1. Electrocardiograms taken during the year 1980 according to disease wise.**

Diseases	Total	Diseases	Total
Coronary Thrombosis	... 1514	Hypertension	... 1379
Mitral Diseases	... 938	Auricular Fibrillation	... 91
C. C. F.	... 134	Cor Pulmonale	... 193
Angina Pectoris	... 111	Aortic Stenosis	... 115
Rheumatic Disease	... 115	Anaemia	... 38
Myocarditis	... 46	Pericarditis	... 10
A. S. D.	... 117	V. S. D.	... 172
P. D. A.	... 33	Fallot's Tetralogy	... 66
Heart Block	... 430	Diabetes	... 323
Pulmonary Stenosis	... 70	I. H. D.	... 1031
Normal	... 2992	Pain in chest	... 330
Miscellaneous	... 5019	Dextrocardia	... 36
		Total ..	14603

2. Other investigations are done in year 1981.

Echocardiograms	... 1100	Cardiac Catheterization + Coronary Angiogram.	... 548
Treadmill Exercise test	... 15	Master's test	
Oximeter Blood Test	... 3876	Vector-cardiogram	70+70 E. C. G.
		Myocardial Infarction	
		Follow up patients	... 500

11. RENAL MEDICAL UNIT:

O. P. D.'s are conducted on Wednesdays and Saturdays.

12. HYPERTENSION CLINIC :

Hypertension clinic is run every Tuesday at 11-30 a. m.

13. ASTHMA AND OBSTRUCTIVE AIRWAY DISEASES CLINIC :

Asthma & Obstructive airway diseases clinic is conducted on every Tuesday.

14. PLASTIC SURGERY :

The O. P. D. was conducted every Wednesday and Friday and a total of 540 new cases were seen. In addition, about 90 to 100 patients were seen every week for follow up treatment. Full documentation and records were maintained in all cases.

During the year, 550 cases were admitted for surgery and total number of 690 operations were performed 250 of the 690 operations were emergency Plastic Surgery operations, particularly of those of face and hands.

The department of Plastic Surgery arranged clinical meeting of plastic surgeons of Bombay. The department of Plastic Surgery started Microvascular Surgery work under the guidance of the Head of the department. During the year Dr. Ashok C. Shah studies the "Use of orthoplast mold in McIndoe vaginoplasty" and submitted the same for the Glaxo award and Shri Amrut Mody Research Foundation Award.

Studies were carried out on "Management of Pan-Facial fractures.

15. HAEMATOLOGY DEPARTMENT :—

The O. P. D. was conducted on Monday and Friday from 11-30 a.m. onwards.

408 new cases have been seen in the Haematology Department. The old cases seen during the previous years who required follow-up and treatment have been attending regularly as per appointments. Average out-patient attendance was 20-25 by previous appointments. Average number of patients under treatment care and observation in the hospital were about 25-30 daily throughout the year.

16. ENDOCRINOLOGY DEPARTMENT

Mondays and Fridays afternoons 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 a. m. to 12-00 Noon every day.

Total No. of patients seen ... 2362
 New: 671 (Male—47 & Female—324). Old ... 1791

Total No. of patient samples collected :—
 Urine—412. Blood—1644. Semen ... 359

Total No. of Laboratory tests done during the year :—

1. Creatinine ... 119	2. Urinary Gonadotrophin ... 17
3. Urinary 17 Ketosteroids ... 55	4. Urinary 17 Ketogenicsteroids ... 115
4. Urinary Estrine ... 48	6. Urinary Pregnanediol ... 53
7. Urinary Pregnancy tests ... 88	8. Pregnanetriol ... 45

Blood :

1. Radioimmunoassay for F. S. H. ...	1634
2. Radioimmunoassay for L H ...	2020
3. Radioimmunoassay for Prolactin. ...	1534
4. Radioimmunoassay for testosterone ...	622
5. Radioimmunoassay for G H ...	418
6. Radioimmunoassay for T S H. ...	422
7. Radioimmunoassay for T3	420
8. Radioimmunoassay for T4	420
9. Radioimmunoassay for LHRH	210
10. Blood-Lipids-Cholesterol ...	30
Triglycerides ...	30
Esterified fatty acids ...	30
Free fatty acids ...	32
Blood sugar ...	186
Blood urea ...	20
Haemagram ...	30
11. Blood : Liver function tests.	
S. G. O. T. ...	30
S. G. P. T. ...	30
Proteins ...	25
Alkaline Phosphatase ...	25
Albi Globulin ...	25
Bilirubin ...	17
12. Plasma Cortisol ...	279
13. Routine urine ...	78
Urine sugar ...	166
14. Sex Chromatin	
Oral : 166	
Blood : 166	

15. FLUORESCENCE STAINING FOR 'Y' BODY :—

Semen	13
Oral smears	7

16. KARYOTYPING OF BLOOD

Semen Analysis ..	359		
Supra Vital staining ..	359	Glycero Phosphoryl Choline	40
Fructose ..	30	Citric Acid ..	20

Histopathology :—

Endometrium and Ovaries ..	112	Testes ..	20
Epididymal Biopsies ..	55		

Animal House performance :—

- Maintenance and Breeding of Rodent Colony.
- Use of rats and mice for Bioassays:

Rats	...	425
Mice	..	105

- Animals supplied to other departments :

Rats	..	130
Mice	..	10

17. AUDIOLOGY AND SPEECH THERAPY SCHOOL :**Academic :**

10 students were admitted in F. T. B. Sc. (A. S. T.) Class. Out of 15 students who had appeared for the degree examination of B. S. (A.S.T.), 11 passed, result being 67%. Out of 10 students who had appeared for F. Y. B. Sc. (A.S.T.) Exam., 8 passed being 80%. Out of 9 students who appeared for the S.Y.B.Sc. (A.S.T.) Exam., 9 passed result being 100%.

Clinics :

3319 number of cases were seen as per the attached statement.

During the year 1981, 81 hearing aids were issued free of cost to needy patients under Indo Danish Project.

The poor patients were also being supplied with cords and cells free of cost so that they can use the hearing aids to the maximum extent.

Report of classes of deaf children :—

There are three classes of deaf children at Nana Chowk, Matunga and Agripada. The deaf children of these classes were taken on an educational tour to Powai and Vihar Lake on 8th January 1982.

An entertainment programme was staged by the deaf children of classes at Agripada, Nana Chowk and Matunga.

Total number of students of the deaf classes at Agripada, Nana Chowk and Matunga at the beginning of 1981 was 63. The medium of instruction in these classes is Hindi and Marathi.

In the month of June 1981, five new students were admitted in Marathi section. 21 Marathi students and 12 Hindi students were integrated in the normal classes.

Many students participated in different inter school competitions. The information in this respect is as follows :—

Dance Competition : conducted by Sion Hospital. Hindi section won 2nd prize.

Painting Competition : conducted by Inter Act club. 1st Prize Bilind D' silva. 2nd Prize Alik Sharma. 3rd Prize Sunit Gupta.

Craft Competition : Guru Tripathi.

Competitions Organised by Lion's Club :—

Junior Group : Alok Sharma.

Senior Group : 1. Bilind D'silva.
2. Sunit Gupta.

Handicraft & Grëeting Competition : organized by Rotary Club of Kalayan. 1st Prize- Jivan Joshi.

Drawing Competition : organised by Lokmanya Seva Sangh Karnabadhvir School Vile Parle. Prize won by Mangesh Karadile.

Sand Castle Competition : organized by the Lion s Club.

Prize winners : 1. Sunil Shinde.
2. Suhas Satam.
3. Jivan Joshi.
4. Guru Tripathi.

Five Teachers attended the refresher's Course at S. N. D. T. University.

18. PREVENTIVE AND SOCIAL MEDICINES :—**Services :—**

(a) Comprehensive health care was given to the Municipal Sweeper Community of Arthur Road.

The Schedule of services rendered was 2 times a week.

The record of clinic attendance for the period from January 1980 to December 1980 was as follows :—

Community	No. of clinic Session held.	No. of first visit.	No. of revisits.	Total.
Arthur Road	51	162	987	1149

In addition to follow up care at the clinic a proportion of patients were referred to hospitals outpatients departments for consultations and investigations.

(b) B. C. G. Vaccination :

B. C. G. Vaccination was carried out. 842 neonates and 1573 paediatric patients including the school clinic patients were vaccinated.

Health Supervision of School Children :—

Medical inspection of school belonging to standard I to VII at Cheetah Camp School was continued and 2387 students of Tamil School, 2109 students of Urdu School and, 484 students of Hindi School were examined in the year 1981. Total 4980 children were examined. 1114 children were immunised with D. T. and Polio Vaccine.

In the Community :

I. Comprehensive Health care to the Communities :—

(i) Medical relief is carried out with the help of the van donated by B. P. C. C. to this institution. Comprehensive health care was given to 4 communities. Deonar Urban Health Centre was started in the month of July, 81.

In the year 1981, 1,20,095 patients have been treated under this programme. 4631 children were given triple vaccine, 4631 were given polio vaccine, 2608 children were given tetanus toxoid, and 22 children were given measles vaccine.

(ii) Balkalyan Kendra :—

2569 patients were examined and treated in the year 1981. 202 children were given polio vaccine, 141 were given D.T. vaccine and 180 children were given tetanus toxoid.

(iii) Rome Programme :

This programme was started on 15th July 1981. This programme is carried out once a week with the help of ROME vehicle. Under this programme comprehensive health care services are being given to 2 communities.

5745 patients were examined and treated. 132 children were given polio vaccine, 140 triple vaccine 5 were given D. T. and 97 patients were given tetanus toxoid.

(iv) Urban Public Health Internship Programme :

Comprehensive health care to urban slums communities is carried out under this programme.

II. Social Services :

Community Visits :

Cheetah Camp	..	..	..	..	..	..	1677
Deonar	..	..	..	..	..	..	2516
Arthur Road	..	..	..	..	..	..	315
Collateral contacts for Communities	..	..	..	..	..	..	234
Health talks	..	..	..	..	..	..	288

M. P. Mill Chawls :

A) i) Nutritional Aid to children	..	..	..	..	..	..	3
ii) Nutritional aid to Adults & their families	..	..	..	..	..	..	5
B) Economic aid in terms of cash, ration etc.	..	..	..	..	..	..	3
C) Clothes school fees, books etc.	..	..	..	..	..	..	5
D) Employment.	..	..	..	..	..	..	2
E) Ref. & follow-up in hospital.	..	..	..	..	..	..	6
F) Family Planning—Sterilisation	..	..	..	..	..	..	3
M. T. P.	..	..	..	..	..	..	..
Pills etc.	..	..	..	..	..	..	..
G) Case work.	..	..	..	..	..	..	5

Deonar :

A) Nutrition aid to children.	..	..	..	..	..	..	78
B) Economic aid in terms of cash, ration etc.	..	..	..	..	..	..	50
C) Clothes.	..	..	..	..	..	..	95
D) Referral and follow up in hospitals.	..	..	..	..	..	..	1391
E) Case work.	..	..	..	..	..	..	89
F) Groups of women are being organised for group activities and health talks.							
G) 3 Balwadies have been started by the community under out guidance.							
H) First aid classes are started for men and women.							
I) Slide shows and sex education programmes have been organised for groups of youth and women.							

Arthur Road Community :

A) Nutritional aid to patients.	..	..	..	..	729
B) Case work.	..	..	..	..	55
C) School fees.	..	..	..	..	5
D) Health education meeting.	..	..	..	..	19

III. Under Five Clinics :—

Community	Groups	No. under observation	Total No. of visits	Average visits Infant or child.
Cheetah Camp.	Infant	799	3092	3.8
	Children	161	403	2.5
Deonar.	Infant	48	1921	4.4
	Children	31	181	6.0
Arthur Road.	Infant	40	80	5.0
	Children	10	40	4.0

Cheetah Camp :—

(A) Nutritional aid to adult and their families..	..	..	..	39
(B) Economic aid in terms of cash, ration etc...	..	..	..	61
(C) Clothes School fees, books etc.	..	..	..	28
(D) Referrals and follow up in Hospital.	..	..	..	95
(E) Case work.	..	..	..	52

Special Activities :—

- (1) Arranged a guest lecture by Dr. Indira Kapur on M.J.I Module of sex therapy.
- (2) Slide shows and health education talks were given in the communities.
- (3) World Health Day Celebration — a seminar was organised for interns on 'Health for all by the year 2000. Health talks were given in the community. A scheme for selection of community health workers was launched. Slide show on 'Health for all by the year 2000, was shown on the T. V.
- (4) Family orientation camps were organised in the community in collaboration with family planning association of India.
- (5) Organised a seminar on health problems of Bombay slums.

Academic Achievements :—

Preparation of audiovisuals by Dr. Saroj S. Jha.

19. THYROID CLINIC :—

Thyroid Clinic is conducted on Monday and follow up on Thursday. The attendance in Clinic is as under :—

New patients	..	..	..	..	600
Repeat attendance	..	..	..	..	750
Semen Analysis	..	..	..	..	720

A computer attachment for the Gamma Computer was obtained.

20. SCHOOL CLINIC :

The Clinic worked in three services viz. Medical, Ophthalmic and Aural from Monday to Friday. Attendance of school children was as follows :—

Services	Old	New	Total
Medical	10,420	2,038	12,458
Ophthalmic	2,896	345	3,251
Aural	3,406	231	3,637
Total	16,722	2,614	19,346

Services

1. Glasses given	...	...	...	...	...	162
2. Glasses prescribed	...	...	...	...	...	170
3. Audiogram	...	...	...	...	...	12
4. Ref. to Phy. Therapy...	...	...	...	...	...	5
5. Ref. to Spch. Therapy...	...	...	...	...	...	..
6. Mastoid Operation	...	...	...	...	...	2
7. Accident Cases	...	...	...	...	...	10
8. Tonsils Operation	...	...	...	...	...	30
9. X-Ray taken	...	...	...	...	...	321
10. Other operations	...	...	...	...	...	3
11. Hospital Admission	...	...	...	...	...	29
12. T. B. Cases	...	...	...	...	...	63
13. Appliance given	...	...	...	...	...	6

21. DEPARTMENT OF OPHTHALMOLOGY (EYE BANK) :—

Keratoplasty operations were performed during the year 1981.

	Total	Male	Female	M/Ch.	F/Ch.
New cases	12	7	1	1	3
Admissions	9	5	..	1	3
Operations	9	5	..	1	3

Special Clinics

(1) Squint Clinic ... Tuesday, at 2.00 p.m. to 5.00 p.m.

(2) Glaucoma Clinic ... Thursday, at 2.00 p.m. to 5.00 p.m.

Squint Clinic—

Analysis of Squint Clinic from January 1981 to December 1981. Datas of Department of Ophthalmology T.N.M.C. & B.Y.E. Nair Ch. Hospital.

No. of cases registered :—

New	109
Follow-up	62

Age and Sex incidence—

Age	Sex	
0-10 years	Male	25
11-20 years	Female	38
21-30 years		34
31-40 years		6
41 and above		6

Mode of Presentation :—

(1) Deviation (obvious) alone	...	...	...	...	45
(2) Visual discomfort—					
(i) Near vision difficulty alone	...	...	...	...	15
(ii) Distant vision difficulty plus Deviation	...	...	...	...	24
(iii) Eye strain alone	...	...	...	..	11
(iv) Discomfort with previous spectacle correction	..	..	...	...	10
(v) D'plopia	..	...	..	..	4

Precipitating factors for deviation :—

(1) Fever (Typhoid, Small pox in childhood etc.)	...	...	...	...	7
(2) Ocular Injury with Corneal Opacity and complicated Cataract	...	...	...	...	10
(3) Head injury	...	...	...	...	3
(4) T. B.	...	...	...	...	1
(5) Organic lesion of posterior segment choroidities	...	...	...	...	1
(6) No obvious precipitating factor elicited	...	...	...	...	87

Types of Squint detected :—**I.—Heterophorias :—**

(1) Esophoria	...	...	...	...	10
(2) Exophoria	...	...	...	...	20
(3) Exophoria with convergence insufficiency	...	...	...	...	10
(4) Hyperphoria	...	..	..	...	1

II.—Heterotropias :—

(1) Convergent	...	...	...	...	25
(2) Divergent	...	...	...	...	37
(3) Hypertropia	..	..	...	..	1

III.—Paralytic squint :—

Third nerve palsy	...	...	...	...	2
Sixth nerve palsy	...	...	...	...	2
Ocular Myopathy	..	..	..	..	..
Sup. oblique Syndrome	...	...	...	...	1

Refractive State :—

(1) Emmetropic	...	...	...	...	45
(2) Hypermetropic	...	...	...	...	28
(3) Hypermetropia with Astigmatism	...	...	...	...	16
(4) Myopia	...	...	...	...	9
(5) Myopia with Astigmatism	...	...	...	...	10

Types of Convergent squint (Concomittent) :—

I.—(1) Alternating	...	...	...	...	9
(2) Uniocular	...	...	...	...	16

II.—Angle of Deviation—

(a) 10—15°	...	...	...	...	7
(b) 16—20°	...	...	...	...	10
(c) 21—25° and more	...	...	...	...	8

Uniocular Convergent squint—

(1) With Eccentric fixation	...	...	...	...	9
(2) With fixational recovery	...	...	...	...	7

Types of Divergent squint :—

I.—(1) Alternating	...	...	...	...	24
(2) Uniocular	...	...	...	...	13

II.—Angle of deviation—

(a) 10—15°	...	...	...	...	...	...	12
(b) 16—20°	...	...	...	...	...	...	15
(c) 21—25° and above	...	...	...	...	...	...	10

Unocular Divergent squint :—

(1) With eccentric fixation	...	...	...	...	...	...	7
(2) With fixational recover	...	...	...	...	...	...	6

Grades of Binocular function on synoptophore:—

(1) SMP plus F plus Stereopsis	...	...	...	...	...	...	45
(2) SMP plus F	...	...	...	...	...	...	10
(3) S. M. P.	...	...	...	...	...	...	9
(4) No grade	...	...	...	...	...	...	45

Ocular Motility—

(1) Full in all directions of gaze	...	...	...	...	...	...	104
(2) Restricted	...	...	...	...	...	...	5

Worth four dot test results—

(1) Diplopia	...	...	...	...	...	...	4
(2) Suppression/Diminace	...	...	...	...	...	...	50
(3) Binocularity	...	...	...	...	...	...	55

Management—

(1) Spectacle correction	...	...	...	...	...	...	20
(2) Advised contact lenses	...	...	...	...	...	...	—
(3) Convergence exercises	...	...	...	...	...	...	29
(4) Surgical correction—							
Performed	...	...	...	...	...	...	11
Advised	...	...	...	...	...	...	10
(5) Intermittent phorias (about 5-7°) Vitamins and General Improvement of nutrition	...	...	...	...	...	...	30

Glaucoma Clinic :—

Analysis of the data of Glaucoma clinic of the department of Ophthalmology, in the year 1981,

(1) Total number of cases registered from January 1981 to December 1981— 88

Old Cases for follow up :— 54

Sex :—

No. of male patients ... 58

No. of female patients ... 30

Age groups :—

	Male	Female
Less than 30 years ...	8	4
31—40 years ...	5	3
41—50 years ...	10	9
51—60 years ...	15	8
61—70 years ...	9	6
More than 70 ...	2	..

No. of diabetic patients screened for evidence of glaucoma from January 1981 to December 1981—Nil.

Out of these, nobody has juvenile diabetes and none of them had any evidence of glaucoma.

Criteria adopted for screening and diagnosing glaucoma along with clinical typing—

I. Intra ocular pressure variations—

(1) Diurnal variation.

(2) Water drinking test (Provocative).

(3) Tonography (Schiot's method).

II.—Visual and field defects.

III. Fundus examination with special preference to cup-disc ratio, nasal shift of blood vessels and pallor of disc.

III. Gonioscopic study of the angle of the anterior chamber.

I. Primary open angle glaucoma or chronic simple glaucoma.

(a) Open angle, C/D ratio above 0.5 field defects, low facility ('C' value less than 0.12) and positive WDT— 40

(a) C D More than 0.5 11

(b) 'C' value less than 0.12 2

II. Narrow angle glaucoma with acute attack 17

III. Congenital glaucoma—Juvenile 1

IV.—Secondary glaucoma :

(a) Lens induced 10

(b) Aphakic glaucoma 4

(c) Absolute glaucoma 5

(d) Following iridocyclitis 3

V.—Unilateral glaucoma Nil.

VI. Glaucoma diagnosed in past and operated in past for the same Attending clinic for follow up—

(a) Iridenceleisis 5

(b) Scheie's 3

Line of management carried out:—

I. Primary glaucomas—

A—Primary open angle glaucoma—

(i) Medical line of therapy pilocarpine 1%, 2% & 4% with or without DIAMOX 9

(ii) Operated (Antiglaucoma surgery) I.O. Tension not controlled with miotics. 15

B—Narrow angle operated

Initially medical line of therapy carried out and surgery advised. 3

II. In secondary glaucomas IOT was controlled with cyclodithermomy or cyclo-animisation of cyclocropey and *iridencleisis*.—12

22. GENITO URINARY SURGICAL SERVICE :—

B. Y. L. Nair Hospital has developed a specialised unit in Genito-urinary Surgery since 1963. We have steadily progressed since then to the present level.

We have one out patient session for treating and following of Genito-urinary patients on Tuesday with an average attendance 10-15 per session.

Various Genito-urinary problems are referred to us from Paediatric, Gynaecology and Medicine and other surgical units. We have been using various kinds of specialised instruments to investigate and treat them. We have in our dept. Cystoscopes and Telescopes with all the varieties on angle deviations, Paediatric endoscopy instruments optical urethrotomes, cystolithotrites, Resectoscopes.

To facilitate teaching of endoscopic procedures, Post Graduate and Undergraduate students are shown the operation with the help of fibre optic teaching attachment. To preserve interesting features Endoscopic "Mirror Reflex" camera is utilised to take photographs.

Yearly our department deals with approximately 200 references from various other units and we operate for approximately 300 genitourinary problems.

Our future plans include receiving a "Urology operation table with fluoroscopic attachment and an image intensifier" which will greatly help for precision techniques in various operations.

The following operations were performed in the department of Genito Urinary Surgery. during the year 1980 :—

(1)	Cystoscopy	..	..	..	..	..	70
(2)	Cystoscopy with TUR for prostate enlargement	..	..	..	..	..	42
(3)	Nephrolithotomy	..	..	..	..	..	1
	Phyelolithotomy	..	..	..	..	..	9
	Ureterolithotomy	..	..	..	..	..	11
(4)	Nephrectomy	..	..	..	..	..	8
(5)	V. V. A.	..	..	..	..	..	4
(6)	High ligation of Varicocele	..	..	..	..	..	8
(7)	Orchidectomy	..	..	..	..	..	7
(8)	Frayer's Prostatectomy	..	..	..	..	..	2
(9)	Millin's Prostatectomy	..	..	..	..	..	2
(10)	Urethroplasty	..	..	..	..	..	9
(11)	Meatoplasty	..	..	..	..	..	9
(12)	Cystoscopy with Internal Urethrotomy	..	..	..	..	..	30
(13)	Cystoscopy with ascending pyelography	..	..	..	..	..	24
(14)	Circumcision	..	..	..	..	..	20
(15)	Cystoscopy with fulguration of papilloma	..	..	..	..	..	6
(16)	Vasectomy	..	..	..	..	..	4
(17)	Testicular biopsy	..	..	..	..	..	12
(18)	Cystoscopy with Cystoscopic lithotripsy	..	..	..	..	..	5
(19)	Urethral dilatation	..	..	..	..	..	25
(20)	Suprapubic Cystolithotomy..	..	..	..	..	..	7
(21)	Suprapubic Cystoscopy	..	..	..	..	..	8
(22)	Ureteric implantation into sigmoid colon	..	..	..	..	..	2
(23)	Anderson Hynes pyeloplasty	..	..	..	..	..	1
(24)	Exploration of perinephric abscess	..	..	..	..	..	1
(25)	Exploration of pyonephrosis	..	..	..	..	..	1
(26)	Uret. ro ureteric anastomosis	..	..	..	..	..	1

23. DERMATOLOGY AND VENEREOLOGY ;—

The department functions all the days except Sundays from 8.00 a. m. onwards.

O. P. D. Attendance —

A.—Infection—

(a)	Skin infections	...	...	...	...	New 37,632	Old 26,894
(b)	V. D. Cases	...	...	...	...	14,352	9,913
(c)	Total Infections	...	...	...	...	51,983	36,877
(d)	Non-Infections	...	...	...	...	19,952	13,083
(e)	Ratio of Infection—Non Infection	...	...	...	...		2 : 1
(f)	Maximum Attendance of one day	...	...	...	...		679
(g)	Total Attendance	...	...	...	...	71,576	49,960
(h)	Grand total of the year 1981	...	...	...	...	1,21,536	

B.—Investigations—

(a)	Biopsies	...	...	...	...	Total 624	Abnormal All
(b)	V. D. R. L.	...	...	...	...	7,895	5,239
(c)	Dark ground Illumination	...	...	...	...	4,085	2,603
(d)	Smear for Gonococci	...	...	...	...	3,975	3,870
(e)	Smear for Donovanosis	...	...	...	...	315	287
(f)	Smear for Chancroid	...	...	...	...	180	3
(g)	Smear for Leprosy	...	...	...	...	653	422
(h)	Scales for Fungus	...	...	...	...	8,641	8,050
(i)	Urine	...	...	...	...	1,653	690
(j)	Stool	...	...	...	...	538	201
(k)	Blood Count	...	...	...	...	985	386
(l)	E. S. R.	...	...	...	...	693	308

C.—Photographs—	...	...	...	4,805
D.—Therapy—				
(a) Superficial—X-Ray	...	...	...	9
(b) Electro Dessication	...	...	...	976
(c) Chemical Cautery	...	...	...	1,205
(d) Phodopylline	...	...	...	1,581
(e) Intralesional Steroid...	...	...	...	983

E.—Medical Education

Lectures and Clinics.

24 DEPARTMENT OF PAEDIATRIC SURGERY :—

The Paediatric Surgery clinic is conducted on Tuesdays and Fridays from 11.30 a. m. onwards.

Total No. of operations done by Dr. D. J. Mohla —

Major	..	16
Minor	..	28

Total No. of operations done by Dr. A. B. Mathure —

Major	..	150
Minor	..	21

25 GASTROENTEROLOGY SURGICAL SERVICE.

The Gastro-enterology Surgical Service is conducted on Mondays from 9.00 a. m. onwards.

Total No. of operations .. 176

Research Project :— Dr. D. R. Trivedi.

- (1) R Nase in acute pancreatitis of research project supported by Research Society.
- (2) Mass cell continuing in duodenal ulcer patient.
- (3) Coagulation study in Level and Panthercatio diseases.
- (4) Australia Antigen in liver diseases.

26. PSYCHIATRY DEPARTMENT :—

There are two units in the Department of Psychiatry A Partime unit headed by Dr. S. M. Lulla, A fulltime unit headed by Dr. A. P. Patkar.

Indoor Services :—

Total admission	..	..	..	..	..	1514
Total bed strength	..	..	..	..	..	46
Daily average admission	..	..	..	..	..	6
Daily average ward strength	..	..	..	..	..	60
Total deaths	..	..	..	..	..	3

O. P. D. Services :—

The Psychiatry O. P. D. is conducted on all working days of the week.

Total new cases	..	..	..	..	..	6504
Daily average new cases	..	..	..	..	..	22
Referred cases	..	..	..	..	..	1103

Therapies :—

Insulin therapy	..	..	..	..	..	592
Total No. of E. C. T.s	..	..	..	..	..	9941
Daily average C. E. T.s	..	..	..	..	..	31
Psychotherapy	..	..	..	..	..	50352
Daily average psychotherapy	..	..	..	..	..	168

Peripheral activities :—

(A) The regular clinical meeting organised by the Bombay Psychiatric Society are held as per scheduled by both the units of the department in our hospital. Here interesting and problematic cases are presented and discussed.

(B) A Psychiatrist from our department attends the Child Guidance Clinic at Soutter Street daily for two hours. This clinic is attached to the Paediatric Department. The report is attached with the paediatric department.

(C) Psychiatrists from our department participate in the lectures held for General Practitioners by the I. M. A. and Bombay Psychiatric Society.

Teaching activities :—

(A) Under-graduate students :—

(i) Twelve lectures in psychiatry including neurosis, psychosis, treatment methods etc., are taken for the III M.B.,B.S. I term students.

(ii) Clinical terms of 15 days duration are arranged for II M.B.,B.S. II term students including case presentations, discussions and treatment method demonstration at the end of which a ward exam. is held. The marks obtained by the students are included for the over all internal assessment in medicine.

From the above it is regrettable that lectures in Psychology for I M.B.B.S. students have been disallowed and the clinical terms have been reduced to 15 days which results in an improper and inadequate teaching of Psychiatry.

(iii) A visit to the Thana Mental Hospital is arranged for one full day where the clinical term students are shown the functioning of a psychiatric institution by psychiatrists from the department. Here a few cases, medico-legal problems, methods of hospitalisation are demonstrated.

(B) Post-graduate students :—

We have at present 15 post-graduate students attached to our department. The post-graduate teachers of the department guide and prepare the post-graduate students in their thesis work for the M. D. Exams. in Psychiatry of Bombay University. Regular clinics with case discussions are held and some selected topics are discussed, where Honorary, Full-time psychiatrists and post-graduate students participate. Regular lectures of the University and the College of Physicians and Surgeons of Bombay are held as per schedule by the teaching staff.

C.—Nursing Students :—

Twenty lectures are held in Psychology and twelve lectures in Psychiatry for the nursing students with the help of slides and case demonstrations.

A separate trip was arranged for the nurses this year to the Thana Mental Hospital, where the management of Psychiatric patients in an institution was shown.

D.—Speech Therapy Students :—

Fifteen lectures each in psychiatry and speech pathology (Psychological aspects) are held for the B. Sc. (Speech Therapy) students of our college with the help of slides and case demonstrations.

E. Psychiatric Social Worker Students :—

Post-graduate students are regularly deputed from the Tata Institute of Social Sciences once a week. Case demonstrations with discussions are held in the O. P. D.

Projects of the department :—

A.—Continuation of the project :—

1. Asthama Clinic
2. Sex Group Therapy
3. Follow up of schizophrenic patients.
4. School Project

B. New Project in the department :—

(1) Psychosocial Aspects of Sterility—A new project started in collaboration with the department of Gynaecology and Obstetrics. Dr. (Miss) U. V. Lulla is the Project Research officer appointed through the research society of T. N. Medical College and B. Y. L. Nair Hospital.

(2) Play Therapy for children.

(3) Study of Female Alcoholics.

C. Projects under consideration :—

(1) Insulin Dependent Diabetes ; Psychosocial Aspects.

(2) Clinical Study of Male Hysteria.

(3) Attitudes and Experiences towards E. C. T.

Rehabilitation :

(i) Every discharged patient gets written instruction on discharge and explanation by our social worker.

(ii) Rehabilitation of Psychiatric Patients with the help of leading industrialists.

Miscellaneous

(1) A get together and a circus show was arranged for the patients of the ward.

(2) Miss Meera Vora, Education Therapist was invited to address the department at a meeting. She spoke on Learning Disabilities in Children.

Report of the Pilot Project among Municipal School Children from 1-1-81 to 31-12-81

The School Project in Preventive Psychiatry again got an extension from the Municipal Corporation for another year.

After completing the work at Agripada Municipal Primary School, the project was started at the Clerk Road Municipal School after holding meetings of parents and teachers and completing the other pre-requisites. The work at this school was completed in the month of November 1981.

In the first week of December 1981, the project was started at the Bellasis Road Municipal Primary Marathi School and it is in progress at the moment.

From the period 1-1-81 to 31-12-81, the cases seen were :

School	No.
(1) Agripada Municipal School.	23
(2) Clerk Road Municipal School.	256
(3) Bellasis Road Municipal School.	38
Total	<u>317</u>

The children were referred for various problems as per our proforma.

To each child who was referred, the social worker contacted the parents of the child and requested them to come to the school. A complete social history was taken at an interview with the parents. The psychiatrist also spoke to the parents to take a detail psychiatric history. The child was tested by the clinical psychologists for I.Q./and/or personality testings.

The diagnosis was arrived at by the psychiatrist and whenever necessary, home visits were paid by the social workers. The work was regularly supervised and guided by the senior staff members of the department. After all the cases were seen, class teachers were about the findings.

Monthly reports were submitted regularly.

Therapy, including drugs, was given to some children for various psychological problems and when required, they were referred to Nair Hospital for investigations and further management (eg. AST for speech disorders) etc. The cases are being followed up regularly in the school, as well as in the hospital.

The data of the Agripada Municipal Primary School was analysed by the staff of the school project during the summer vacation.

The department of continuing and adult education, S. N. D. T. Women's University held a meeting of Inservice Training Programme for the untrained teachers of the mentally handicapped.

Dr. A. P. Patkar was invited to work out its operational details on 14th July 1981. He was invited to speak on "Needs of Mentally Retarded Children attending Municipal Schools" at Gilder Tank office premises on 8th August '81 in a seminar on "Training of Teachers for Mentally Subnormal children."

A proposal for the establishment of a permanent "School Mental Health Clinic" for mental health for children (especially Municipal School Children) was put forward to the Municipal Corporation by our department through the Dean in the Month of March 1981. The proposal was accepted by the Municipal authorities E. O., H. O./M. O. (Schools) and the Dean (N) in Oct. 1981. In addition to the existing staff, 1 tutor and 1 Registrar's post were sanctioned. Inauguration of the clinic was decided to be held on 23rd January 1982. Since 1st December 1981 we have been having the following staff for the school mental health clinic.

- 1 Tutor
- 1 Registrar.
- 1 House Physician.
- 2 P. S. W.
- 2 Clinical Psychologist.

The work is being done in the form of two separate teams consisting of a psychiatrist, a P. S. W. and a Clinical Psychiatrist, a P.S.W. and a Clinical Psychologist working independently one for the detection and the other for the treatment purpose. Work of both the teams is supervised by the tutor and other seniors of the department. Work Record of Psychiatric Social Worker from January 1981 to December 1981 :-

Miss Leena Damani

Social histories taken at School Children referred for School Project :

Agripada Municipal School	21
Clerk Road Municipal School	131
Bellasis Road Municipal School	22
Total number of follow-up of School Children.	133

Total number of home visits made for school children.	..	..	18
Total number of teacher's interview from the above schools.	..	..	201
Visits paid to schools, institutions and Welfare agencies.	..	..	33
Histories taken of O. P. D. patients	..	..	168
Histories taken of ward patients.	..	..	5
Follow up of O. P. D. patients.	..	..	56
Giving clothes and other help to families of school children and O. P. D. patients.	..	..	26
Referrals made to special school.	..	..	14
Referrals made for job placements.	..	..	6

Other work done : In school vacation report writing and analysing of school project.

Clinical Psychologist :

Purnima Bhide :

Total number of O.P.D. & ward patients seen.	..	..	550
Total number of school cases seen.	..	..	28
Total No. of cases seen	..	..	578

Miss Meera Shah : Psychiatric Social Worker.

No. of new cases referred	..	..	980
Counselling sessions with patients and relatives.	..	..	20
Old follow up cases.	..	..	2000
Patients relatives interviewed for instructions on discharge.	..	..	600
Visits to donors and institutions.	..	..	9095
Referred to special schools.	..	..	60
Referred for jobs.	..	..	15
Sent patient to alcoholic anonymous.	..	..	40
Medicines.	..	..	20
Donations.	..	..	Rs. 3000/-
Railway and bus fare for patients.	..	..	5
Letters.	..	..	100
Supplementary diet.	..	..	4

Other work done : Play therapy, Supervising students of social work, testing work in V. J. T. I. and ward get together and circus for patients, Day Care Centre.

Miss Aneeta Draid : Clinical Psychologist.

No. of ward and O. P. D. patients seen.	..	..	630
No. of school children seen.	..	..	72
Total No. of cases seen.	..	..	702

Shri G. N. Kamble : Clinical Psychologist.

from 2 November to 31st December 1981.

O. P. D. Cases seen.	..	..	22
Indoor cases seen.	..	..	16
School project case seen.	..	..	59
Total cases seen.	..	..	97

Miss Meera Bhuta : Psychiatric Social Worker.

No. of cases referred for intake.	..	..	..	670
Counselling sessions with patients and relatives.	..	..	..	80
Old follow up cases.	..	..	..	920
Patient relatives interviewed for instruction on discharge.	..	..	..	530
Visit to donors and institution.	..	..	..	10
Referred to special schools.	..	..	..	76
Referred for jobs.	..	..	..	24
Sent patient to alcoholic anonymous.	..	..	..	55
Donations worth.	..	..	..	Rs. 350/-
Letters.	..	..	..	120
Supplementary diet.	..	..	..	5
Help for clothes.	..	..	..	4
Medicine.	..	..	..	3

Other work done : Data collection of 100 alcoholics for sociogram arranged a party for patients and also took them to circus.

Mr. B. H. Patil : Psychiatric Social Worker.

Social histories taken at the school (School Project) :

Agripada Municipal School.	..	..	..	31
Clerk Road Municipal School.	..	..	..	125
Bellasis Road Municipal School.	..	..	..	16
Total No. of follow up of school children.	..	..	..	95
Total No. of home visits made for school children.	..	..	..	42
Total No. of teacher's interview from the above schools.	..	..	..	205
Visits paid to schools institutions and welfare agencies.	..	..	..	31
Family counselling of school children.	..	..	..	13
Referrals made to the special school.	..	..	..	13
Social histories taken of O. P. D. and ward patients.	..	..	..	53
Follow up of the O. P. D. & Ward patients	..	..	..	14

Other work done : Report writing of the school project.

Report of Occupational Therapy in Psychiatry Unit :

Serial No.	Unit.	Total No. of patients.	Total visits.	Total visits in O. P. D.
1	Dr. S. M. Lulla's Unit, Indoor.	562	6850	4380
2	Dr. A. P. Patkar's Unit, Indoor.	741	8686	4715
3	Day Care Unit (Dr. A. P. Patkar and Dr. S. M. Lulla's O.P.D. Patients).	95	..	1939
Grand Total.		1398	15536	11034

27. MEDICAL SOCIAL WORKER :

Old cases carried over from 1980	..	..	..	1,767
New cases referred in 1981	..	..	..	2,890
Referrals from other institutions donors and welfare organisations.	..	..	..	705
Total No. of cases handled in 1981	..	..	..	5,362
(1) No. of Home visits, Institutional visits and colateral contacts made	..	..	..	1,726
(2) No. of follow up letter and letters sent to donors, charities & welfare organisations.	..	..	..	1,487
(3) No. of patients for social case work	..	..	..	1,477
(4) No. of patients who received material aid	..	..	..	993
(a) Appliances, belts, calipers etc.	..	..	..	152
Wheel chair	..	..	..	15
Triwheeler	..	..	..	5
Spectacles	..	..	..	375
(b) Costly and unscheduled drugs	..	..	..	1,142
(c) Food (i) Ration	..	..	..	553
(ii) Supplementary nutritional aid	..	..	..	350
(d) Clothes	..	..	..	750
(e) School fees, uniforms, textbooks for patients children and young patients	..	..	..	418
(f) Travelling expenses	..	..	..	367
(g) Employment for (i) patients	..	..	..	65
(ii) patients family members	..	..	..	45
(h) Accomodation	..	..	..	61
(i) Institutionalisation	..	..	..	88

During this year approximately following donations arranged.

Rs. 1,15,000 in the form of drugs.

Rs. 50,751 for the appliances.

Rs. 50,000 for the patients from Cardio Vascular Thoracic centre.

Rs. 77,000 for the cancer patients in cash and kind.]]]

Report of the Workshop for the rehabilitation of handicapped.

1981 was celebrated as the year of the disabled. During this year a new project in the form of workshop started on 14th December 1981 for the handicapped patients taking treatment in B.Y.L. Nair Ch. Hospital. The main objective is rehabilitation of these handicapped with the collaboration from various charitable organisations and private industries. Job facilities are given in tailoring spinning, assembling and packaging etc. The remuneration is paid for the same by the industries who dispatch the work. The equipments worth Rs. 17,000 and the cash of Rs. 3,000 is arranged by M.S.W. department. To start with 12 handicapped patients are taking advantage of this project along with free lunch facilities arranged through donations.

28. ORTHOPAEDIC :

This department is expanding rapidly due to increased R.T.A. and infective diseases.

Following projects were carried out :—

- (1) Bone cement, and its use in different Orthopaedic conditions and reaction of the bone to cement.
- (2) External fixation of contaminated fractures.
- (3) Electrical induction of callus.
- (4) Clinical trial to compare results of rigid internal fixation and Intramedullary nailing.
- (5) Place of Jewett nail in proximal one third fracture of femoral shaft.
- (6) Use of Harrington instrument for traumatic paraplegia for early mobility.
- (7) Role of Laminectomy for spinal canal stenosis.
- (8) Experimental work on micro-surgery using placental vessels.

29. OCCUPATIONAL THERAPY DEPARTMENT :

The following are the figures for the year 1981 of workload and the work analysis.

Total No. of patients for 1981. . . . .	.. .. .	9,664
Total No. of patients attendance. . . . .	.. .. .	79,286
New patients (O.P.D.) . . . . .	.. .. .	4,151
New patients (Indoor) . . . . .	.. .. .	5,513
Total No. of patients (O.P.D. & Indoor) . . . . .	.. .. .	9,664
P.V.C. & D.C.U. : . . . . .	.. .. .

These sections are working as usual, in addition work-shop for handicapped is started from 14-12-1981.

Miscellaneous :

Head of O.T. was examiner for S.Y. B.Sc. O.T. Therapeutics part I, and T. Y. B.Sc. O. T. Paper II.

Lectures for medical and speech therapy students as well as post-graduate students of Occupational Therapy students were given as a routine by Shri A. S. Khullodkar, Head of O.T. Department.

Sports :

Out patients have taken part in the Sports arranged by national society, on 5th to 8th Feb. 1981, also took part in Fancy Dress Competition, arranged in children's orthopaedic hospital, on 10th December 1981.

The work load in this department is considerably increased in the year 1981.

30. PHYSIO THERAPY DEPARTMENT :

The following are the figures for the year 1981 of work load and the work analysis.

Total No. of patients for 1981 (OPD & Indoor) . . . . .	.. .. .	5527
Total No. of patients attendance . . . . .	.. .. .	161668
New patients (O.P.D.) . . . . .	.. .. .	2763
New patients (Indoor) . . . . .	.. .. .	2764
Total No. of patients . . . . .	.. .. .	11177

Miscellaneous :

Lectures for medical and speech therapy students as well as post-graduate students of physical therapy students were given as a routine by Mrs. S. S. Idgunji, Head P. T. department.

Sports :

Our patients have taken part in the sports arranged by National Society, of 5th to 8th Feb. 1981, also took part in Fancy Dress competition, arranged in children's orthopaedic hospital, on 10th December 1981.

The work load in this department is considerable increased in the year 1981.

31. DEPARTMENT OF TUBERCULOSIS & CHEST DISEASES :

No. of patients attending O.P.D. for treatment during 1981 :—

Chest Cases	..	..	..	..	315
T. B. New Cases	..	Direct	2109		
		Referred	253		
		Total	2362		
Old follow-up	..	..	2500	per month	approximately.

No. of admission (Indoor patients) during the year 1981 :—

Tuberculosis and Chest Diseases	..	..	..	..	799
Reference from other departments	..	..	..	..	46
Total No. of Indoor Cases	..	..	..	..	845

Laboratory Work Done :—

Started from 11th August 1981. Total No. of samples from 11-8-81 to 24-2-82.

Sputum	..	..	..	..	..	..	2531
Urine	..	..	..	..	..	..	130
Stool	..	..	..	..	..	..	74
Blood	..	..	..	..	..	..	302

Pulmonary function test : from 15-10-1981 to 24-2-1982 on 100 patients this test has been performed.

Academic work done during 1981 :—

(1) Dr. G. S. Perhar took part in symposium on a Diabetic and Pulmonary Tuberculosis in January 1981 at B. Y. L. Nair Hospital & T. N. Medical College.

(2) Dr. G. S. Perhar presented analysis of our department on respiratory failure symposium held at J. J. Hospital.

In near future we are planning to carry out a study on "Pulmonary function normograms in School Children."

In future we are planning to expand our department in the field of laboratory diagnosis of tuberculosis and Chest Diseases including culture and sensitivity studies. We are planning to modernise and expand our Pulmonary function assessment facilities.

The T. B. Clinic in our department will act as an area tuberculous centre of the City Tuberculous Control programme of Municipal Corporation of Greater Bombay, which is to be launched from 1st March 1982.

We have submitted 3 papers to be presented at conference organised by National Tuberculosis Association of India at New Delhi in December 1982 work for which is under progress.

In collaboration with Pharmacology Department we are working on a project on Acetylisatias of Isoniazid.

28 PHARMACY DEPARTMENT :

(1) Dispensary :

This year dispensary has dispensed 5,81,660 case papers at out door and 322 case papers at indoor.

No. of stock items supplied to O. P. D. Wards and theatres is 2557.

Total quantity of stock prepared for indoor and out door patients are given below :—

(a) Quantity of stock solution prepared.	..	..	19873.765	lit.
(b) No. of prepacks made	..	..	188624	packs.

(c) No. of powder packs wrapped	50170	
(d) No. of O.P.D prescriptions dispensed where account is kept.	6634	
(e) Prescriptions where special drugs are issued and account is kept.	117859	
(f) Simple syrup.	673.85	lits.
(g) Quantity of stock mixture prepared.	14073.40	lit.

2. Central Sterile Supply Service :

13 types of Sets and 38 types of trays are cleared, assembled and sterilized for the Hospital use.

Total No. of drums and dressings sterilized during the year are 24792

10 New services are started during this year.

3. Manufacturing of Pharmaceuticals :

(a) Total market cost of the preparations.	Rs.	8,13,043.23
(b) Preparation cost	Rs.	5,12,122.10

(This includes the cost of chemicals, breakage, consumable articles, machine repairs, & Depreciation, gas & electric consumption, cleaning fluids, general articles, Analytical Testing and average staff salary and supervision and over head charges etc.).

(c) Savings.	Rs.	3,00,921.13
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The consolidated manufacturing figure and the saving effected are given below :—

(1) Transfusion bottles (1 lit.)	1146
(2) Transfusion bottles (540 ml.)	107563
(3) Transfusion bottles (375 ml.)	6267
(4) Vials assorted	11769
(5) Eye ointment packets	1400+10 trays.
(6) Ointment for external application	1280 Kg.
(7) Powders	121 Kg.
(8) Sterile talkum powder	78.80 Kg.
(9) Lotion and Liniments	863 lits.
(10) Soap preparations (Castor oil liquid soap)	955 Lits.
(11) Creams	88 Kg.
(12) Solutions	431.5 Lits.
(13) Solution for peritoneal dialysis (7 lits.)	99 Lits.
(14) Sterile trays	247
(15) 5 lit. flasks	1291

Control :

During the year January 1981 to December 1981 a total number of 46 different types of products splitted up in 1066 batches, manufactured by Pharmacy Department were tested during preparation and as final products. A total number of 7638 tests were performed on the same. Five batches were reprocessed.

A total number of 509 different kinds of products splitted up in 2643. Number of batches purchased from outside were tested and a total number of 26270 tests were performed on the same 116 batches were rejected.

All the sterilizers of Bhajekar Hospital and Nair Hospital were tested for their effected working every fortnightly throughout the year.

176 items were tested urgently and the results given within one hour in order to meet the urgent requirements of the stores for immediate supply to the patients.

At the above work if got done from Haffkine Institute would have costed Rs. 3,49,026.00

(5) Glass Blowing Section :

Following articles are prepared by the Glass Blower in the year 1981.

Serial No.	Name of the articles	Quantity
1	Murphy's drips	351
2	Glass tubes for saline set big	1000
3	Needle Covers	640
4	Big tubes for Renal Drainage	250
5	Bleeding set rod for Blood Bank	237
6	Test tubes for manufacturing section	20
7	Glass tubes for renal drainage small	11550

Due to the stoppage of Bombay Gas Glass Blowing work is affected badly.

Needle Sharpening :

6492 number of hypodermic Needles are resharpened and brought in use which would have been condemned otherwise.

(6) Maintenance Section :

This section looks after the maintenance and repair work of all machineries of Pharmacy Department and the minor repairs of sterilizers of Wards and Theatres and Bhajekar Hospital.

Major repairs done is numbering to 1207 during year 1981 which includes the replacement of heaters and other spare parts, removal of leakages and other minor repair works.

(7) Education :

Following students from different Colleges undergone the practical training of 750 hrs. in this department in 1981.

- (1) Smt. C. J. Shah : from S.N.D.T. Women's University, Santacruz (West), Bombay.
- (2) Shri Dhumal R. T. : from College of Pharmacy, Karad.
- (3) Shri Sheokar C. M. : from College of Pharmacy, Karad.
- (4) Shri Idnani Preetam : from College of Pharmacy, Ulhasnagar.
- (5) Shri Hassanendani Hiro : from College of Pharmacy, Ulhasnagar.
- (6) Smt. A. S. Joshi : from S.N.D.T. Women's University, Santacruz (West), Bombay.
- (7) Smt. J. G. Rege : from S.N.D.T. Women's University, Santacruz (West), Bombay.

The Chief Pharmacist from Govt. Hospital of Sri Lanka deputed by W.H.O. undergone training in Hospital Pharmacy at this Institute.

32. TOPIWALA NATIONAL MEDICAL COLLEGE :—

The College has been permanently affiliated to the University of Bombay for teaching the courses of studies leading upto M.B.B.S. and post-graduate examinations.

The College 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.

797 undergraduate students (267 ladies) and 244 post-graduate students (63 ladies) the roll at the close of the year. :-

Students on roll as on 1-8-1980.

Class	Male	Female	Total
III M.B.B.S. Casual	25	3	28
III M.B.B.S. IIIrd term	66	42	108
III M.B.B.S. IIInd term	42	17	59
III M.B.B.S. Ist term	68	51	119
II M.B.B.S. IIIrd term	22	8	30
II M.B.B.S. IIInd term	72	60	132
II M.B.B.S. I term	22	5	27
I M.B.B.S. III term	60	38	98
I M.B.B.S. II term	..	..	..
I M.B.B.S. I term	59	41	100
Total	436	265	701

Post Graduate :

Class	Male	Female	Total
M.D. (All branches)	72	45	117
M.S. (All branches)	53	10	63
University Diploma D.A., D.V.D. etc.	22	11	33
M.Sc. by papers :			
Biochemistry	4	12	16
Animal Physiology	3	1	4
M.Sc. by research :			
Biochemistry	3	3	6
Microbiology	..	3	3
M.Sc. (Occupational Therapy)	2	2	4
M.Sc. (Physical Therapy)	..	1	1
D.M.L.T.	1	9	10
Ph.D.	2	2	4
Total	162	99	261

34. TOPIWALA NATIONAL MEDICAL COLLEGE LIBRARY :

The total No. of books added to the library during the year was 1,076 as against 1,149 books during the year, out of which 343 books were donated to the library by different institutions, 209 books were purchased for 37 different departmental libraries and 524 books were purchased for Central Library.

The library subscribed 282 periodicals as against 271 during the last year. 88 periodicals were received as compliments from the publishers, Hon. & teaching staff of the T.N.M. College & Nair Hospital & others. The library therefore has 370 periodicals as against 345 during last year.

The No. of books and periodicals issued on the premises to the undergraduate, postgraduates, the teaching staff of the college Professors, Honoraries, Teachers and Research Workers from other institutions was 78,927 as against 79,491 during the last year.

2,874 books including reference books and periodicals were issued out for home reading to the teaching and residential staff of the B.Y.L. Nair Ch. Hospital and T.N.M. College as against 3,721 books and periodicals issued during the last year. 28 books and bound volumes of periodicals were borrowed from other libraries on Inter Library Loan Scheme and 40 were loaned out to them.

300 thesis were issued for reading on premises as against 383 during the last year. 151 new thesis of different disciplines were entered as against 103 during last year. So, library has 1,319 thesis at present.

35 books were written off during the last year. 340 outsiders including faculty members of sister institutions has used the library during the year 1981-82.

511 procured volumes were added to the library during the year 1981-82. The library at the end of the year had 27,417 books and 12,140 bound volumes.

NURSING :

The total number of students admitted for General Nursing and Midwifery in the year 1981 are 96+2 and 73. The number of students discontinued from training are 18.

The No. of students left the institution are 4.

The No. of students appeared for Midwifery examination are 70 and all have passed.

The No. of students appeared for General Nursing Part II examination are 91, 74 passed and 17 failed.

Mayor's award was awarded to Asstt. Matron Smt. K. G. Joshi, Staff Nurse Smt. Theresia-mina Thomas and student nurse Saramma George.

Nair's award was awarded to following Nursing Staff :—

(1) Sister—Smt. Mary Pallose, (2) sister—Smt. Radha Shetty, (3) Staff Nurse—Smt. Hemalata Sawant; 3rd year student—(1) Smt. Rekha Kulkarni, (2) Smt. Joicy P. T., 2nd year student—(1) Smt. Mary Jacob, (2) Smt. Vanita Rawool; 1st year student—(1) Smt. Jayashree Mandge, (2) Smt. Vidhya Chawan, (3) Smt. Sarala Kamble.

In the month of July, two staff nurses were sent for Special training in Acute Kidney Diseases to Jaslok Hospital.

In the month of January picnic (Karnala) was arranged for training staff.

In the month of February sports were arranged for trained staff and student nurses on Haji-Ali ground.

Film shows were arranged in the month of April and November.

32. DR. BHAJEKAR MUNICIPAL HOSPITAL :

Dr. Bhajekar Hospital was taken over by Municipal Corporation of Greater Bombay in 1956 from Dr. Bhajekar M. V. son of late Dr. V. N. Bhajekar. The main function of this hospital is to provide Medical Relief to the patients by giving them indoor and out-door treatment as required.

This is a minor surgical hospital for the male patients only, consisting of 58 beds. 14 beds for convalescence of Orthopaedic patients and 4 beds are reserved for Head, Neck surgery for patients sent by Nair Hospital.

During 1979-80 and 1980-81 the patients attended at Dr. Bhajekar Hospital are mentioned below :

	1981-82	1980-81
O. P. D. patients	11998.00	14974
Indoor patients.	1494.00	1326

The cost per patient per day works out as below :—

Year.	Drugs and Appliances	Diet	Stores	Fire, Gas, Telephone electricity	Estt.	Total
Indoor patients :						
1980-81	...	4.05	6.02	4.25	17.00	19.85
1981-82	...	6.10	7.25	3.10	19.00	23.00
Out-door patients :						
1980-81	...	1.92	...	0.82	0.85	4.83
1981-82	...	2.02	...	1.16	0.18	6.15

Dr. J. V. BHATT,
Dean,
B. Y. L. Nair Hospital.
T. N. Medical College, Bombay 8.

APPENDIX I.

With effect from 1-1-82 the of Distribution of Beds of this hospital will be under :—

Serial No.	Department.	Male.	Female.	Children.	Total.
1.	Medical	111	39	..	150
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 I. P. C. U.)	..	..	51	51
8.	Skin and V. D.	12	4	..	16
9.	E. N. T.	26	10	..	36
10.	Orthopedic	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.	Cardiac Surgery	4	2	..	6
16.	I.C.C.U.	4	..	..	4
17.	Thoracic	3	2	..	5
18.	Neurology	15	2	..	17
19.	Neuro-Surgery	13	4	..	17
20.	Plastic Surgery	11	5	..	16
21.	Gastro-enterology (Medical)	12	4	..	16
22.	Gastroenterology (Surgical)	3	2	..	5
23.	Paediatric Surgery	..	..	2	2
24.	Renal (Medical)	3	2	..	5
25.	Renal (Surgical)	1	1	..	2
26.	Diabetic	3	2	..	5
27.	Rheumatology	3	2	..	5
28.	Genito-urinary (S)	2	2	..	4
29.	M.A.C.U.	12	..	..	12
30.	Paying Wards	10	10	..	20
31.	Isolation Wards.	..	..	..	5
32.	Observation Ward.	..	..	..	7
33.	Artificial Kidney Dept.	..	..	..	2
	Total.	502	275	59	850

APPENDIX II

The number of accident cases treated.

Sex.	Treated in casualty Department.		Admitted through Casualty Department.	
	1980	1981	1980	1981
Male	13,792	13,322	3,613	3,451
Female	30,65	2,442	1,052	1,120
Children	Male	3,040	721	644
	Female	14,09	1,159	390	303
Total	21,306	19,978	5,776	6,514

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 and repairs	Establishment	Total
	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.	Rs. P.
Indoor						
1981	5.64	16.00	4.10	3.06	32.88	61.68
1980	5.84	15.02	3.90	3.29	32.08	60.13
			<i>Out-patient</i>			
1981	..	3.40	1.00	0.19	7.00	11.59
1980	..	3.92	0.97	0.22	6.07	11.18

APPENDIX IV

Statement showing the Out-Patients (New O.P.D., Casualty) in the B.Y.L. Nair Charitable Hospital during the year 1981. Classification according to the Department, Sex & Age.

Department	O. P. D. New Cases				Total	Casualty Cases				Total
	Male	Female	M/Ch.	F/Ch.		Male	Female	M/Ch.	F/Ch.	
Medical	.. 45542	21889	..	..	67431	979	520	..	..	1499
Surgical	.. 31337	7843	5147	2618	46745	9239	1760	1739	866	13601
Ophthalmic	.. 8258	3503	748	549	13058	234	11	20	4	269
Gynaec	.. ..	9301	..	4	9305	..	24	..	5	29
Skin	.. 19125	5741	4919	3473	33258	15	3	..	2	20
Aural	.. 8730	5044	2939	2243	18956	114	13	18	8	153
Orthopedic	.. 10142	4843	1307	725	17017	2259	478	535	170	3442
Paediatric	.. ..	..	15904	12265	28169	..	..	123	64	187
Maternity	.. ..	4709	..	..	4709	..	62	..	..	62
T. B.	.. 1512	588	..	..	2100	9	..	..	..	9
Cardiology (Med.)	.. 570	309	178	123	1180	2	..	..	..	2
Gastroenterology	.. 428	194	..	1	623	..	..	..	..	..
Psychiatric	.. 2251	1246	127	68	3692	13	3	..	..	16
P. S. D.	.. 9	23	8	6	46	..	..	..	..	..
Rheumatic and Col. Disease	.. 25	40	4	4	73	..	..	..	..	..
Neuro-Surgery	.. 323	151	46	27	547	14	2	1	2	19
Neurology	.. 201	88	39	21	349	3	2	..	..	5
Plastic Surgery	.. 177	92	42	37	348	192	12	25	8	237
Gastroenterology Surgical Service	.. 17	2	1	1	21	..	..	..	..	..
Renal Surgery	.. 37	33	2	2	74	..	..	..	..	..
Genito-urinary Surgical Service	.. 40	8	..	..	48	..	..	..	..	..
Thyroid Surgery	.. 40	151	5	3	199	..	..	..	..	..
Anti Rabies	.. 1222	278	505	214	2219	248	48	96	30	422
Diabetic	.. 54	53	1	..	108	..	..	..	..	..
Haematology	.. 49	40	18	12	119	..	..	..	..	..
Special Care	.. ..	..	943	791	1734	..	..	..	..	..
Asthma	.. 30	24	1	1	56	..	..	..	..	..
Hypertension	.. 5	4	..	..	9	..	..	..	..	..
Cardiology Surgical	.. 38	24	12	10	84	1	2	..	..	3
Endocrinology	.. 104	122	18	10	254	..	..	..	..	..
Sexology Department	.. 41	..	..	..	41	..	..	..	..	..
Total	.. 130307	66343	32914	23208	252772	13322	2940	2557	1159	19978

APPENDIX V

Summary of In-Patient Classified According to Department and Sex

Department	SEX	In the hospital on mid-night of 31-12-1980	Admitted during the year 1981	Total	DISCHARGE		Deaths	Remaining in the hospital on mid-night of 31-12-1981
					Cured	Otherwise		
1	2	3	4	5	6	7	8	9
Medical	Male ..	147	5709	5856	4852	230	634	140
	Female ..	64	2650	2714	2252	143	251	68
	Total ..	211	8359	8570	7104	373	885	208
Surgical	Male ..	130	6591	6721	6205	172	293	151
	Female ..	41	2067	2108	1861	92	110	45
	Male Child ..	9	978	989	920	30	27	12
	Female child ..	4	412	416	400	2	11	3
	Total ..	184	10048	10234	9386	296	441	211
Ophthalmic	Male ..	26	668	694	665	13	3	13
	Female ..	8	371	399	385	4	Nil	10
	Male child ..	Nil	66	66	64	...	Nil	2
	Female child ..	Nil	35	35	34	..	Nil	1
	Total ..	34	1160	1194	1148	17	3	26
Gynaec & Obst.	Female ..	40	1893	1933	1869	18	9	37
	Female child ..	Nil	6	6	6	...	Nil	Nil
	Total ..	40	1899	1939	1875	18	9	37
Skin & V. D.	Male ..	7	133	140	122	10	2	6
	Female ..	2	38	40	35	2	Nil	3
	Male child ..	1	12	13	12	..	Nil	1
	Female child ..	1	3	4	4	..	Nil	Nil
	Total ..	11	186	197	173	12	2	11
E. N. T.	Male ..	39	1214	1253	1205	10	29	9
	Female ..	21	774	795	780	5	7	3
	Male child ..	7	367	374	373	...	...	1
	Female child ..	6	412	418	416	..	1	1
	Total ..	73	2767	2840	2774	15	37	14
Orthopedic	Male ..	143	1942	2085	1926	25	31	103
	Female ..	46	751	797	726	15	19	37
	Male child ..	17	446	643	440	3	Nil	19
	Female child ..	7	207	214	200	9	Nil	5
	Total ..	213	3346	3559	3292	52	51	164
Paediatric	Male Child ..	46	2211	2257	1961	23	237	36
	Female Child ..	37	1578	1615	1377	17	185	36
	Total ..	83	3789	3872	3338	40	422	72
Maternity	Female ..	77	6378	6455	6340	16	15	84
	Total ..	77	6378	6455	6340	16	15	84
T. B.	Male ..	12	629	641	565	10	44	22
	Female ..	2	170	172	150	9	8	5
	Total ..	14	799	813	715	19	52	27
Cardiology	Male ..	14	328	342	301	11	22	8
	Female ..	10	129	139	125	6	5	3
	Male child ..	1	122	123	108	7	5	3
	Female child ..	Nil	90	90	85	3	2	Nil
	Total ..	25	669	694	619	27	34	14
Gastro-enterology (Medical).	Male ..	15	243	258	218	25	10	5
	Female ..	3	132	135	107	11	12	5
	Male child ..	Nil	5	5	4	..	1	Nil
	Female child ..	...	..	..	..	...	..	..
	Total ..	18	380	398	329	36	23	10

APPENDIX—V

Department	SEX	In the hospital on mid-night of 31-12-1980	Admitted during the year 1981	Total	DISCHARGE		Deaths	Remaining in the hospital on mid-night of 31-12-1981	
					Cured	Otherwise			
1	2	3	4	5	6	7	8	9	
Renal Surgery	Male	..	2	63	65	62	..	..	3
	Female	..	..	14	14	14	..	..	..
	Male Child	..	..	..	1	1	..	..	..
	Total	..	2	78	80	77	..	..	3
Cardiac Surgery	Male	..	12	127	139	111	4	15	9
	Female	..	6	63	69	55	3	7	4
	Male child	..	..	15	15	10	..	4	1
	Female child	..	..	12	12	8	..	1	3
	Total	..	18	217	235	184	7	27	17
Psychiatric	Male	..	31	912	943	858	50	2	33
	Female	..	16	509	525	467	33	..	25
	Male child	..	..	11	11	10	1	..	..
	Female child	..	..	10	10	8	2	..	..
	Total	..	47	1442	1489	1343	86	2	58
Rheumatic & Collagen Diseases.	Male	..	4	23	27	25	..	..	2
	Female	..	..	24	24	24	..	..	..
	Male Child	..	..	2	2	2	..	..	..
	Female child	..	..	1	1	1	..	..	..
	Total	..	4	50	54	52	..	..	2
Neurology	Male	..	14	179	193	170	2	10	11
	Female	..	4	57	61	53	2	1	5
	Male child	..	..	12	12	11	..	1	..
	Female child	..	..	5	6	6	..	..	1
	Total	..	19	253	272	240	4	12	16
Neuro-Surgery	Male	..	21	228	249	194	5	27	23
	Female	..	4	109	113	81	6	15	11
	Male child	..	5	45	50	39	..	9	2
	Female child	..	4	20	24	18	..	6	..
	Total	..	34	402	436	332	11	57	36
Thyroid Surgery.	Male	..	..	3	3	3	..	..	..
	Female	..	..	1	1	1	..	..	..
	Male child	..	..	..	..	..	..	..	..
	Female child	..	..	..	..	..	..	..	..
	Total	..	..	4	4	4	..	..	..
Plastic Surgery	Male	..	7	242	249	241	..	2	6
	Female	..	1	61	62	61	..	..	1
	Male child	..	3	74	77	75	..	..	2
	Female child	..	2	46	48	47	..	..	1
	Total	..	13	423	436	424	..	2	10
Gastroenterology Surgical Service.	Male	..	3	4	7	4	..	..	3
	Female	..	1	1	2	2	..	..	..
	Total	..	4	5	9	6	..	..	3
Genito-Urinary Surgical Service.	Male	..	..	36	36	36	..	..	..
	Female	..	..	4	4	4	..	..	..
	Male child	..	..	6	6	6	..	..	..
	Female child	..	..	..	..	..	..	..	..
	Total	..	..	46	46	46	..	..	..
Diabetic	Male	..	3	84	87	84	..	1	3
	Female	..	..	26	26	26	..	..	..
	Male child	..	..	1	1	1	..	..	..
	Total	..	3	111	114	111	..	..	3
Haematology	Male	..	..	55	55	55	..	..	..
	Female	..	..	38	38	38	..	..	..
	Male child	..	..	54	54	54	..	..	..
	Female child	..	..	28	28	28	..	..	..
	Total	..	..	175	175	175	..	..	..
Endocrinology	Male	..	..	1	1	1	..	..	..
	Total	..	..	1	1	1	..	..	..
Thoracic Surgery	Male	..	..	1	1	1	..	..	..
	Female	..	..	..	..	..	..	..	..
	Total	..	..	1	1	1	..	..	..
Grand Total	..	1127	42988	44115	40119	1031	2074	1025	

APPENDIX—VI.

List of Publication and Papers read :-

Doctor.	Subject.	Particulars where published.	
(1) General Surgery.			
Dr. S. S. Lal.	Effect of Bicarbonated with Varying of Ischermia on the dog Kidney.	Aided by the Research Society, Nair Hospital.	
	Talk on Vasectomy and Male sterilisation.	Family Planning Centre Bombay, during advanced training course. for East Zone September 1981	
	Micro Surgery of the Vas.	Talk in the continuing Urological Education of the Urological Society of India, Annual Conference, September 1981 at Bombay.	
	Demonstration of Reversal of Vasectomy.	1st National Workshop on Microsurgery at Tata Memorial Hospital, March 1981, Bombay.	
	Talk on Urinary Tract and Urology female sexual Dysfunction.	1st Annual National Conference on Sexual The rapists, Educators and Councillors, Bombay, November 1981.	
	Panel member for panel Discussion on Urology and Sexual Dysfunction. during workshop.	Post conference of I.A.S. E. C. T., Bombay, November 1981.	
	A New Technique for Varicocele Ligation.	Accepted for Publication in Fertility Sterility, August 1981.	
		Co-chairman in Session on Organ Transplant at C. M. E. during 41st Annual Conference of A. S. I. Pa'na, December 1981.	
	Dr. R. L. Shah. Dr. A. E. Mody.	Hyperalemlutaton in routine cases.	
		Evaluation of clinical findings, Barium meal and Gastroscopy in operated cases of duodenal ulcer.	
A review of the Scrotal approach for varicocele.			
Splenectomy in the management of Haemotological disorders.			
Dr. Shilotri.	A typical presentations of Amoebic Liver abscess a study of 145 cases.	At the Hind West Zone conferance of ASI at Baroda, November 1981.	
Dr. F. P. Soonawalla.	Varicocele expereince in diagnosis and treatment.	3rd International congress on Human Reproduction, Berlin, Aprii 1981.	
	Reversal of sterilisation in the male.	3rd International Congress	
	Transurethral resection with continuous suprapubic aspiration.	Annual conference of Urological Society of 2 dia. Bombay, September 1981.	
	Microsurgical vaso epididymal anastomosis.	Annual Conierence of Urological	
	Whats new in Urology.	Guest Lecture at the Western Chapter Ccr.ference of the Association of Surgeons of India, Baroda, December 1981.	
	Surgery in male infertility.	Western Chapter Conference.	
	Pr sentation of the kidney in surgery for caculi.	Western Chapter Conference.	

APPENDIX VI.—(Contd.)

Doctor.	Subject.	Particulars where published.
(2) Pediatrics.		
Dr. P. M. Pai. Dr. V. S. Chakravarti.	Foetal outcome in pregnancy complicated by infective hepatitis.	XVIII National Conference of Hyderabad, February 1981.
Dr. P. M. Pai. Dr. S. M. Lokeshwar. Dr. A. R. Rehmtulla.	Foetal wastage in Maternal infective hepatitis. B. Thalessemia—A follow up study of 25 cases.	XVIII National Conference of Hyderabad, February 1981. XVIII National Conference of Hyderabad, February 81.
Dr. A. R. Rehmtulla. Dr. S. M. Lokeshwar. Dr. M V. Karnik.	B. Thalessemia family studies.	XVIII National Conference of Hyderabad, February 1981.
Dr. P. M. Pai. Dr. S. M. Lokeshwar.	Neonatal outcome after prolonged labour	XVIII National Conference of Hyderabad, February 81.
Dr. M. S. Baldwa. Dr. P. M. Pai. Dr. R. P. Agarwal.	Pneumothorax.	XVIII National Conference of Hyderabad, February 81.
Dr. V. S. Chakravarti. Dr. P. M. Pai. Dr. P. R. Parekh.	Growth pattern in children born to mothers having infective hepatitis.	X National Conference of Communicable diseases, Bombay, 81.
Dr. P. M. Pai. Dr. P. R. Parekh. Dr. S. Datar. Dr. J. Nirmal.	Role of Health education in diarrheal disorders in children.	X National Conference of Communicable Diseases, Bombay, 81.
Dr. S. Datar. Dr. P. R. Parekh. Dr. J. Nirmal.	Simplified treatment of acute diarrhoeal disease.	X National Conference of Communicable Diseases, Bombay—81.
Dr. A. Arunkumar. Dr. P. M. Pai. Dr. P. R. Parekh. Dr. S. Datar.	Role of Fresh blood transfusion in arresting progress of severe forums of poliomyelitis.	X National Conference of Communicable Diseases Bombay, 1. 81.
Dr. P. R. Parekh. Dr. P. P. j. Dr. S. Datar. Dr. J. Nirmal. Dr. A. Arunkumar.	Mortality in children due to infectious diseases.	X National Conference of Communicable Diseases, Bombay, 81.
Dr. P. M. Pai.	Lactation failure.	Maharashtra State Branch of IMA Bombay, January 81.
	Management of Resident Diarrhoea.	Ahmedabad Branch of India Academy of Pediatrics Sept. 81.
Dr. B. L. Barnes. Dr. P. M. Pai.	Institutionalised child.	XII Annual Convention of Clinical Psychology, Miraj, 81.
Dr. R. K. Anand.	The Rural Handicapped.	Regional Conference of IAP Aurangabad, September, 81.
	Role of Consumer organisations in the implementation and monitoring of International code of marketing breast milk substitute.	Regional WHO Consultat Delhi, September 1981.
	Social Pediatrics.	Conference on community medicine, Bombay, August 81.
Dr. P. M. Pai.	Lactation Failure.	BIMA, August 81.
Dr. R. K. Anand.	Breast Milk V/s. bottle controversy in India.	Ind.J. of Pediatrics 48 : 557, 81.
Dr. R. K. Anand.	Management of breast feeding in a Bombay Hospital Assignment children.	55/56, 81.
Dr. B. L. Barnes. Dr. P. M. Pai.	Anxiety in relation to childhood adjustment.	Indian JI of Clin. Psychology 8 : 165 1981.
Dr. S. M. Lokeshwar. Dr. R. J. Khanna. Dr. M. V. Kulkarni. Dr. P. M. Pai. Dr. R. J. Desai. Dr. B. L. Barnes.	Child Guidance Clinic Ar Awareness of its importance.	Bombay Hospital Journal 3:51 July 81.

APPENDIX VI.—(Contd.)

Doctor.	Subject.	Particulars where published.
(3) Anaesthesiology.		
Dr. V. M. Divekar. Dr. C. R. Ganatra	Evaluation of Halothane Vaporisers in use	Annual Conference of Indian Society of Anaesthetists Chandigarh, December, 1981.
Dr. V. H. Bhagatwala Dr. C. R. Ganatra. Dr. V. M. Divekar.	Evaluation of draw over vaporisers.	Annual Conference of Indian Society of Anaesthetists, Chandigarh, December, 1981.
Dr. M. S. Kothari. Dr. V. M. Kamdar. Dr. V. M. Divekar.	Caudal epidural block for low backache.	Annual Conference of Indian Society of Anaesthetists, Chandigarh, December, 1981.
Dr. N. C. Garach. Dr. B. M. Kamdar. Dr. V. M. Divekar.	Experiments in measurement of resistance in anaesthesia instruments.	Annual Conference of Indian Society of Anaesthetists, Chandigarh, December, 1981.
Dr. V. M. Divekar.	Intensive care.	Guest lecture at All India refresher course, Chandigarh, December 1981.
Dr. M. S. Kothari.	Anaesthetic uses of Diazepam.	Symposium on "Benzodiazepines" September 1981, Bombay.
Dr. V. M. Divekar.	Side effects of benzodiazepines.	Symposium on "Benzodiazepines" September 1981 Bombay.
	Anaesthesia in Hypertension.	Proceedings of the International Conference on Hypertension (1978), published 1981.
Dr. V. M. Divekar. Dr. B. M. Kamdar. Dr. S. N. Pansare.	Pulmonary embolism during anaesthesia.	Canadian Journal of Anaesthesia May 1981.
(4) Gastroenterology.		
	Fulminant Hepatitis (Hepatic Pannel Practitioner : XVIII Coma)	17-10, 1981
(5) Cardiovascular & Thoracic Surgery.		
Dr. Raina Magotra .	Long Term results of lungresections in Children.	Indian Journal of Surgery.
(6) Haematology.		
Dr. A. J. Desai.	DAT Regimen.	The conference of Indian Society of Haematology & Blood Transfusion was held at Calcutta.
Dr. A. J. Desai.	Leukemia—Panel discussion.	Conference of Bombay Haematology group.
Miss N. B. Mehta.	Glanzmann's Thrombocytopenia.	The conference of Indian Society of Haematology & Blood Transfusion was held at Calcutta
Miss J. J. Khedekar	Hemangioma with DIC	The Conference of Indian Society of Haematology & Blood Transfusion was held at Calcutta.
	RETICULOCYTE Production Index	Conference of Bombay Haematology, Group
Dr. S. M. Shahani. Other staff members.	Hormonal Profiles and the stages of spermatogenesis in cases of Azoospermia.	III World Congress of Human Reproduction, Berlin, March 1981
	Hormone and sex disorders.	First Asian Conference of Sexology, December 1981. Bombay.
	Gonadotropin testes interaction in cases of Varicocele.	Annual conference of Urology Society, September 1981, Bombay
	Hypothalamic Pituitary Evaluation.	Presidential Inaugural address. on the occasion of the Annual Meeting of Endocrine Society of India along with A. P. I. at Nagpur, January 1981.

Doctor.	Subject.	Particulars where published.
Dr. S. M. Shahani. Other Staff Members.	Hormonal Profiles in relation to stages of spermatogenesis.	109th Quarterly Meeting of Staff Society of Nair Hospital, April 1981.
	Introduction to Radioactive Immunoassays and its place in clinical practice.	Session organized by Bombay OBS & GYN Society of India, May 1981, Bombay.
	Effect of Pharmacological drugs on Hypoth-Pit. Axis.	Talk given before Indian Society of Pharmacologists and Therapeutics, August 81, Bombay.
	Limitations of Radioimmuno Assays.	Invited by Bombay OBS & GYN Society during the Panel on "Fetal Monitoring", June, 81, Bombay.
	Artificial Insemination Evaluation of Ovulatory parameters for the best day.	Presented at Staff Society Meeting of Nair Hospital July, 1981.
	Hypothyroidism in Gynaecology.	Presented during Symposium on "Gynecological Endocrinology" organized by The Bombay OBS & GYN. Society of India, May 1981, Bombay.
	Gonadotropin testes interaction in cases of Varicocele.	Presented at Mid-term Session on Endocrine Society of India October, 1981, Hyderabad.
	Congenital Adrenal Hyperplasia.	Presented at Staff Society Meeting of Nair Hospital, October 1981.
	Endocrine Infertility.	Invited by Institute for Research in Reproduction to trigger discussion. December 1981.
	Dr. P. A. Bhat.	Hormonal Profiles in children with growth retardation.	Midterm Session of Endocrine Society of India, October 1981, Hyderabad.
Shri K. L. Patel.	Effect of Intravasal Copper wire on the fertility and Reproductive organs in the rat.	Conference on Reproductive Biology by Gujrat Agricultura University, Anand, September, 1981.
	Hormonal profiles and stages of spermatogenesis.	
	Clinical and Endocrine evaluation in cases of Precocious-puberty.	J. of OBS & GYN of India.
	Hypothyroidism in Gynaecology.	J. of OBS & GYN. of India.
	Diagnostic accuracy of a radio-receptor assay for hCG in early pregnancy.	J. of OBS & GYN. of India.
	Hypothalamic pituitary evaluation.	Annual Conference of Endocrine Society of India, 1981.
	Evaluation of Glycerylphosphocholine (GPC) in semen normal and Infertile men.	J. of Reproduction and Fertility.
	Clinical profiles following Norethindrone acetate implant for contraception.	I. J. of Medical Research.
	Effect of 50 ug Ethinyl estradiol on lipid factors and liver function tests.	Inpress.
	Contraceptive efficacy of Norethindrone acetate (ENTA) implant its release rate and fertility potential.	
Clinical and immunological responses with Pr-B-hCG-TT Vaccine.	Publication Contraception.	

APPENDIX VI.—(Contd.)

Doctor.	Subject.	Particulars where Published.
(8) Preventive & Social Medicine.		
Dr. Saroj S. Jha.	Oral rehydration for diarrhoea & f.v.rs with Audiovisual slides.	All India Communicable Disease Conference Bombay, January 1981.
	Prevention of Tetanus.	Nehru Science Centre January 1981.
	Declared Policy in Family Planning.	Wadia Hospital, February 1981.
	Health Education Programme for women	S. N. D. T., April 1981.
	Health for All by 2000 A. D.	Staff Society, April 1981.
	Health Profile of the Indian Population.	Bombay, June 1981.
	Family Planning Methods.	Sophia College, November 1981.
	Public Health Measure to Control Smoking.	Bombay, November 1981.
	Female Sexuality & Social Status.	Bombay, November 1981.
	Indian Woman : Health Status Related to Social Status.	Staff Society, December 1981.
	Attitudes Towards Social Service.	Bulletin of the Indian Federation of Medical Guildes, Vol. 6, No. 2, April 1982.
	Need for Sex Education.	(Co-author) Indian Journal of Community Medicine Vol. January April 1981.
	Burns mortality in Bombay.	Burns, Vol. 8(6).1981.
	Knowledge & Attitude to Human Sexuality on Women College Teachers in Bombay.	(Co-author) The Journal of family welfare, Vol. XXVIII No. 1, September 1981.
Dr. P. Subramanian.	Population Education & Youth Involvement.	At Third International Congress of the World Federation of Public Health Association & XI National Conference of IAP SM, February 23-6-1981 at Calcutta.
	Working paper on Health Education Programmes in Bombay Slums at Seminar on Health Problems.	Bombay, T. N. Medical College September 13th 1981.
	Need for Sex Education based on studies in different population groups.	Indian Journal of Community Medicine No. 1, January April 1981.
	Knowledge & attitude to Human Sexuality in Women College Teachers in Bombay.	The Journal of Family Welfare Vol. XXVIII No. 1, September 1981.
Dr. Daksha Pandit.	Accidents in children.	The Journal of Association of Medical Women in India 1981.
Dr. R. Y. Aras.	Effectiveness of oral rehydration powder in controlling childhood diarrhoeas.	Xth National Conference Communicable Diseases held in Bombay in January 1981.
(9) Skin & V. D.		
	A case report of Acromelanosis Progressiva.	Presented at the Inter-National Conference of Dermatology in Tokyo.
	A case report of Hutchinson—Gilford Syndrome.	Presented at the International Conference of Dermatology in Tokyo.
	Islamic Disciples & Doctors in Dermatology.	Presented on 30-1-82 at the International Dermatology Conference at Cairo.
	Symposium on Steroids anti-inflammatory & antimetabolic or suppressive and shattering.	
	A case report on Reiter's Syndrome.	

APPENDIX VI.—(Contd.)

Doctor.	Subject.	Particulars where published.
(10) Psychiatry.		
Dr. S. M. Lulla. Dr. A. P. Patkar. Dr. P. C. Shastri. Dr. R. R. Patel. Dr. (Mrs.) H. S. Dhavale. Dr. Ajit Tolia & Others.		Attended the Annual West Zone Conference of the Indian Psychiatric Society held at Thana in September 1981.
Dr. A. P. Patkar. Dr. P. C. Shastri. Dr. Patel. Dr. (Mrs.) H. S. Dhavale. Dr. C. Pinto		Attended the W. H. O. Seminar held at the K. E. M. Hospital.
Dr. P. C. Shastri.		The National Conference in applied psychology was attended.
Dr. (Mrs.) H. S. Dhavale.		Attended the First Asian Conference on Sexology.
	Sociogram of Alcoholics.	Paper read at the West Zone Annual Conference Thana.
	Parents of Autistic Child.	Paper read at the W. H. O. Seminar at K. E. M. Hospital Bombay.
	Do male female Asthamatics differ.	Paper read at Annual West Zone Conference at Thana Mental Hospital in September 1981.
	Sexual behaviour and Venereal disease in teenage females.	Paper read at the First Asian Conference on Sexology in Bombay.
	Mental Health in children.	Paper read at National Conference of Applied Psychology
	Psyche & Some : Their Interrelationship.	Published in The Bombay Hospital Journal, October 1981
(11) Radiology.		
Dr. A. G. Naik.	Percutaneous Cholangiography Ultrasonography in Obst. and Gyn.	Read at South Zonal Radiology Conference Read at Calcutta Conference of OBGY.
Dr. G. R. Jhankaria.	Paediatric Uro Radiology.	Read at Radiology Conference at Calcutta.
Dr. B. R. Shah.	P.T.C. & E.R.C.P. Comparison in Obst. jaundice.	Read at Calcutta Conference.
(12) Physiology.		
Dr. (Smt.) V. G. Parulkar.	Use of electrical Impedance plethysmography for study of venous circulation.	International workshop on noninvasive technique held in Bombay in November 1981.
Dr. (Smt.) V. G. Parulkar. Dr. V. S. Bhat.	Some observations on total ridge count in dermatoglyphics and future scope for dermatoglyphics.	XXVth A. P. P. I. conference held at Ludhiana in December 1981.
Dr. (Smt.) V. G. Parulkar.	Peripheral vascular responses and carboxyhemoglobin studies of chronic smokers and non-smokers in health and diabetes mellitus.	Ind. J. of Ch. Dis. & All S special issue on smoking.
	Perentatal feeding.	Chapter accepted for publication in Recent Advances in Surgery published by Padahar Hospital.
Dr. (Smt.) M. P. Sharma.	Peripheral vascular responses and carboxyhemoglobin studies of chronic smokers and non-smoker in health and diabetes mellitus.	Ind. J. of Ch. Dis. and All S. special issue on smoking.

APPENDIX VI.—(Contd.)

Doctor.	Subject.	Particulars where published.
(13) Pharmacology.		
Prof. J. C. Bijlani.	ANS Drugs.	Cochairman of a session at the XIII Annual I. P. S. Conference at Bombay.
Prof. J. C. Bijlani Dr. S. V. Degaonkar.	Analysis of 150 cases of liver scan—comparison of Public Hospital and Paying institution.	
Prof. S. R. Amladi.		Attended VII Annual conference of Pharmacologists of Maharashtra at Ambejogai, S. R. T Rural Medical College, in August, 1981.
Prof. S. R. Amladi.		Attended First National Conference on Environmental Biopollution, at the Marathwada University, Aurangabad, in Oct. 1981.
		Attended XIV Annual Conference of the Indian Pharmacological Society, in Bombay in December 1981.
	Inhibition of Carrageenan paw oedema in rats by <i>Garuga pinnata</i> , Roxb. (Burseraceae).	
		Co-chairman of a session on Indigenous Drugs, and also a member of the Organising Committee of the conference.
	Spoke on Newer Benzodiazepines.	Participated in a Symposium on Benzodiazepines, organised by the Indian Anaesthetists Society (Bombay Branch) in September 1981.
	Talk on the Biological Photography and the Natural Sciences	At the VII Annual Conference of the Pharmacologists of Maharashtra, at Ambejogai in August 1981.
	Delivered a Lecture illustrated with colour with slides, entitled : Through the Viewfinder — A Pharmacologist in the field, covering personal experience in the fields of Biological Photography Ethnobotany and Thnopharmacology	At the Hoechst Research Centre, in September 1981.
	Effect of Muscimol striatal GABA receptor agonist, on the Catalase, Homovanilic acid increase and Analgesia induced by Pilocarpine in rats.	Journal : <i>Psychopharmacology</i> (Berlin), 1981 Volume 74, page 393.
Prof. S. R. Amladi.		Continued as a member of the Bombay University Board of studies in Pharmacology etc. and the Faculty of Medicine (Since 1979).
		Continued as a member of the Executive Committee of the Bombay Natural History Society, which is a recognised Post-graduate Institute of the Bombay University for M.Sc. and Ph.D. degrees in field Biology.

APPENDIX No. VI—(Contd.)

Doctor.	Subject.	Particulars where published.
Dr. D. A. Joseph ..		Chairman session on "Tetanus at the "National Conference on Communicable Diseases" in Bombay in January 1981 Chairman of a session on "Oral Hypoglycemic Drugs at the International Conference on Diabetes in the Tropics."
	"Adverse" reactions to Antibiotics at advances,	Internal Medicine Conference held in January 1981 at Ahmedabad.
	Post graduate Curriculum in Pharmacology.	At Annual Conference of the Indian Association of advancement of Medical Education at Hyderabad in January 1981.
Dr. D. A. Joseph .. Miss Mehta Dep't. of Chest Medicine.	Plasma theophylline levels in 40 cases of Chronic Obstructive Pulmonary Diseases.	At the Western India Chapter of International Academy of Chest Physicians on Dec. 6th.
Dr. (Mrs.) S. A. Desai ..		Cochairman "CNS Drugs" session at XIII Annual conference of India Pharmacological Society on 31st Dec. 1981 at Bombay.
Dr. (Mrs.) S. A. Desai .. Dr. (Mrs.) Melgiri Dr. V. G. Murkibhavi	Effects of non-steroid and anti-inflammatory agents on neuromuscular transmission.	Un Poster session at XIV Annual Conference of I.P.S. at Bombay in 1981.
Dr. Y. A. Dshmkh .. along with his colleague of G. S. Medical College.	Effects of drugs on "Phagocytic index."	At the Indian Pharmacological Society.
(14) Tuberculosis and Chest Diseases.		
Dr. G. S. Perhar ..	Tuberculosis in aged.	At Annual Conference of National Tubercular Association of India at Baroda.
	Pulmonary function test in treated cases of Pulmonary Tuberculosis.	At International conference on "Noninvasive techniques" organised by American College of Chest Physician.
Dr. K. G. Advani ..	Serum Theophylline levels a study of 40 cases.	At International Conference of Non-invasive techniques organised by American College of Chest Physician.
Dr. Sunil S. Menon ..	Pulmonary function in symptom free young individuals to assess the association of Socio-Economic status and living conditions with childhood respiratory diseases.	At International conference on "Non-invasive techniques" organised by American College of Chest Physicians.
(15) Gynaec and Obstetric.		
Dr. (Mrs.) C. M. Alwani	Pregnancy associated with genital prolapse.	Journal of Obst. & Gyn. India.
	Hormonal cytology in threatened abortions.	Journal of Obst. & Gyn. India
	Hysteroscopy (A preliminary study of 60 cases.)	Journal of Obst. & Gyn. India
	Ambioscopy and Placental functions.	Journal of Obst. & Gyn. India
	Review of perinatal mortality at Nair Hospital.	IIIrd International Seminar Maternal and Mortality at New Delhi.

APPENDIX No. VI—(Contd.)

Doctor.	Subject.	Particulars where published.
Dr. (Mrs.) C. M. Alwani	A study of maternal mortality at Nair Hospital.	IIIrd International Seminar Maternal and Mortality at New Delhi.
	Obstetric performance following repair operation for genital prolapse.	Journal of Obst. & Gyn. India.
	Caesarean Section Its implication on New born.	Journal Obst. & Gyn. India
	Antenatal Cervical Cultures.	Bombay Obst. & Gynaec. Society, J. Obst. and Gyn. India.
	Hysteroscopy—A review of preliminary study.	The First Asian Congress on Gynaecological Endoscopy, in February 1981 at Hotel Taj Intercontinental, Bombay.
	Better Hysteroscopic vision Saline, Co2 or Dextran	The First Asian Congress on Gynaecological Endoscopy, in Feb. 1981 at Hotel Taj Intercontinental, Bombay.
	Amnioscopy and Assessment of Fetoplacental complex.	The First Asian Congress on Gynaecological Endoscopy, i Feb. 1981 at Hotel Taj Intern continental, Bomb. y.
	Laproscopy and H.S.G. in Evaluation of tubal function.	The First Asian Congress on Gynaecological Endoscopy in Feb. 1981 at Hotel Taj Inter continental, Bombay.
	Antenatal Cervical Cultures.	Bombay Obst. & Gynaecological Society, IXth Annual Conference, Bombav.
	Dynamics of psych sexual behaviour in teenage pregnancy.	Bombay Obst. & Gynaecological Society, IXth Annual Conference, Bombay.
	Obstetrics Performances following repair operation for Genital prolapse.	At National Obst. & Gynaecology Congress at Calcutta, 27th 31st December, 1981.
	Caesarean section its implication on New born.	At National Obst. & Gynaecology at Calcutta 27th—31st Dec. 1981.
	Dr. V. R. Ambiyé	Acute Renal Failure in Obstetrics.
Diagnostic Laparoscopy.		
Comparison of HSG and Laparoscopy in Evaluation of tubal function.		
Amnioscopy and placental functions.		
Hysterography in cases of habitual abortions.		
Management of failure in Mid trimester pregnancy terminations.		
Pregnancy with genital prolapse.		
Obstetric performance following repair operation of genital prolapse.		
Caesarean Section implication on New born.		

APPENDIX No. VI.—(Concl.)

Doc'or.	Subject.	Particulars where published.
Dr. V. R. Ambiye	.. Hysteroscopy (A preliminary study).	At 1st Asian Congress of Gynaec. Endoscopy from 21—23 Feb. 1981.
	Comparison of HSG & Laparoscopy in Evaluation of tubal function.	At 1st Asian Congress in Gynaec Endoscopy from 21—23 Feb. 1981.
	Antenatal Cervical Cultures (with special reference to pregnancy outcome).	At 9th Bombay Obst. & Gynaec. Conference 1981.
	L. S. C. S. : Its implication on new born.	At 26th All India Congress in Obst Gynaec at Calcutta 28,18—31 December.
	Obstetric Performance following repair operation for genital prolapse.	At 20th All India Congress in Obst. & Gynaec. at Calcutta 28th—31st Dec. 1981.
	Diagnostic Hysteroscopy Gynaecology.	Co-author of the paper presented at International Congress in Obst. & Gynaec. Oct. 1981.
	Type of delivery and outcome of of newborn upto 1 year at age.	Co-author of the paper to be presented at International Congress in Obst. & Gynaec.
Dr. S. S. Thakur	.. I.A.G.E.	Indian Association of Gynaec Endoscopy Asian Conference Bombay 21—24 Feb. 1981.
		Bombay Obstetric & Gyn. Gohety Conference 13th—14th Jan. 81.
		Asian Oceanic Congress of Obst. & Gynaecology Melbourne (Australia.)
Dr. (Mrs.) R. N. Merchant	Thoughts on Uterine Descent during child bearing period.	
	Laparoscopic Female Sterilisation—Low Wattage Bipolar Cauterisation V/S. Fallope Ring.	Comparative study. First Asian Congress on gynaecological Endoscopy Bombay, February 1981.
	Utero-Tubal Junction clinical and Morphological aspects.	Read at Third World Congress on Human Reproduction at Berlin (Germany), March 1981
	I.U.C.D.	At the Workshop on Family Planning Indian Medical Association Bombay March 1981.
	Laparoscopic Female sterilisation - Singlespot Low Wattage Bipolar Cauterisation V/S. A Fallope Ring.	A comparative Reproduction at Berlin (Germany) March 1981
Thought on Uterine Descent during childbearing period.	Read at 25th All India Obstetrics & Gynaecological Conference, Calcutta, December 81	
Dr. M. Y. Raval's Unit..	Prolapse in child bearing age.	In Bombay Hospital, Journal.
	Teenage pregnancy.	Bombay Obst. & Gyn. Society
	Prolapse in child bearing age.	All India Obst. & Gyn. Society Conference.
	Surgical management of prolapse 1000 cases.	All India Obst. & Gynaec. Society Conference.
	Pregnancy & positive V.D.R.L. Tests.	First Asian Congress on Sexually Transmitted diseases, Oct. 81.
	Scientific exhibits on ultrasonography in Obst.	At All India Obst. & Gyn. Conference.

APPENDIX No. VII.

RADIOLOGY DEPARTMENT :

Investigations carried out :

	Total No. of patients
(I) Respiratory System :	
Bronchograms	38
(II) Cardio-vascular System :	
(1) Arch Aortograms	4
(2) Aortogram	7
(3) Carotid Angiograms	463
(4) Renal Angiograms	1
(5) Femoral Angiograms	12
(6) Inferior Vena-Cavograms	2
(7) Trans-Lumbar Aortogram	8
(8) Brachial Angiograms	1
(9) Selective Coeliac Angiograms	1
(10) Venograms	15
(III) Gastro-Intestinal System :	
(1) Sialography	4
(2) Barium Swallow	212
(3) Barium Meal	535
(4) Hypotonic Duodenography	5
(5) Barium Enema	130
(6) Oral Cholecystograms	32
(7) I. V. Cholangiograms	9
(8) T. Tube Cholangiograms	4
(9) Operative Cholangiograms	1
(10) Percutaneous Trans-hepatic Cholangiography	5
(11) Porto-venogram (Spleenogram)	15
(IV) Genito-Urinary System :	
(1) I.V.P.	536
(2) Ascending Pyelography	61
(3) Cysto Urethro gram	25
(4) Mict. Cystourethrogram	40
(5) Cystograms	5
(6) Retrograde U. ethrogram	18
(7) Perirenal Pneumography	1
(V) C.N.S. :	
(1) Air Ventriculogram	25
(2) Myelogram	75
(3) P.E.G.	30
(4) Myodil Ventric	42
(VI) Obstetrics and Gynaec. :	
(1) Hysterq-Salpingogram	29
(VII) Miscellaneous :	
(1) Trigeminal Injection	10
(2) Fistulogram	4
(3) Sinusogram	8
(4) Lymphangiogram	2
(5) Dacryocystogram	3
(6) Cavitogram	8
(7) Routine X-ray Investigations	78608
(8) Ultrasonography	500
Total No. of patients X-rayed during the year	81425
Total No. of X-ray plates used during the year	139957

APPENDIX No. VIII

List of Research Work.

Doctor	Subject
	(1) General Surgery.
Dr. D. R. Trivedi	.. RNase in acute pancreatitis of research project supported by Research Society. Mass cell continuing in duodenal ulcer patient. Coagulation study in Liver and Pancreatic disease. Australia Antigen in Liver disease.
Dr. S. S. Lal	.. Study of Aetiology of Ca Bladder. Continuing study on more cases of Epididymo-orchitis started in 1980. Study of Venography in varicocele.
Dr. A. B. Mody	.. Evaluation of clinical findings, Barium meal and Gastroscopy in operated cases of Duodenal ulcer. A review of the scrotal approach for varicocele.
Dr. R. L. Shah	.. Hyperalimentation continued further with increase in No. of cases
	(2) Anaesthesiology.
	Use of Carticaine in epidural anaesthesia. Dorsalis Pedis cannulation for arterial pressures monitoring. Etomidate in thermocoagulation. Lung volumes in Normal Indian subjects. Normal End-expiratory Co ₂ in Indian subjects. Capillary blood — gas analysis in Air-ether anaesthesia. Studies in coagulation in surgery and anaesthesia. Fibre-optic laryngoscopy in intubation. Use of Nitroglycerine in controlled hypotension.
	(3) Paediatrics.
Dr. P. M. Pai.	Symposium on "Breast feeding" Maharashtra State Branch Conference of I. M. A. Bombay January 81 attended. XVIII National Conference of Indian Academy of Pediatrics Hyderabad February 81 attended. Chairman of a Scientific Session. W. H. O. Fellowship programme on MCH/FP September 1981 attended. II National Neonatology Forum Bombay, October 1981 attended member of organising committee and co-chairman of a session
Dr (Mrs) S M Lokeshwar.	XVIII National Conference of Indian Academy of Pediatrics Hyderabad, February 1981 attended. II National Neonatology Forum, Bombay October 1981 attended member of organising committee and co-chairman of a session.
Dr. R. K. Anand.	XVIII National Conference of Indian Academy of Pediatrics Hyderabad, February, 1981 attended. Maharashtra State Conference of Indian Academy of Pediatrics Aurangabad, September 1981 attended. International Conference on "The Able Disable—India's Investment Bombay, November 1981 attended. Chaired a session. Regional Consultation on the implementation and monitoring of the International Code of Marketing of breast milk suitable SERO, SHO Delhi, September 1981 attended. Conference on Community Medicine, Harkisondas Hospital Research Society, August 1981 attended.

APPENDIX No. VIII—(Contd.)

Doctor	Subject.
Dr. R. D. Potdar.	XVIII National Conference of Indian Academy of Pediatrics-Hyderabad, February 1981 attended. II National Neonatology Forum, Bombay, October 81 attended.
Dr. B L Barnes.	Workshop on instrumentation in Psychology University of Bombay Bombay. XII Annual Convention, Indian Association of Clinical Psychology Madras.
	(4) Endocrinology Department. Clinical studies in field of Fertility regulation. Clinical study in growth retardation. Experimental studies in Reproductive Biology. Animal House breeding, Maintenance and supply to other departments of the Institution.
	(5) Gastroenterology. Intra Gastric Titration with test meal at pH at 5.5. & 2.5, in controls & duodenal ulcer subjects. The gastric mucosal barrier in Acute Viral Hepatitis using the acid load test Serum Gastrin levels with and without intragastric infusion of Red Chilli powder Clinical study of patients with Acute Upper G. I. Bleeding. Clinical study of patients with Traumatic Proctitis. Histological study of Oesophagus, stomach in patients with symptomatic clinical Tobacco Gastritis. Diagnostic comparison of peritoneoscopic liver biopsy and percutaneous Menghini Liver Biopsy in patients with various liver disorders
Dr. Ashok C. Shah.	(6) Plastic Surgery. Studied the "Use of orthoplast mold in McIndoe vaginoplasty and submitted the same for the Glaxo award and Shri Amrut Mody Research Foundation Award. Management of Pan-Facial fractures.
	(7) Skin & V. D. Gonococcal Culture & Antibiotic Sensitivity. Fungus Cultures. Study on the Clinico-histopathology of Lichen Planus. Study on the etiology, symptomatology and therapeutic assessment of Scabies. Study of teenage V. D. in hospital patients and delinquent home children.

APPENDIX No. VIII.— (Concl'd.)

Doctor.	Subject.
(8) Preventive and Social Medicine.	
Dr. Saroj S. Jha.	Child rearing practices in slum communities sponsored by Research Society.
Dr. Saroj S. Jha. Dr. R. Y. Aras.	Effect of oral rehydration in Diarrhoeal cases.
Dr. Saroj S. Jha. Mrs. Asba Krishnamurthy.	Burns mortality in Bombay City.
Dr. Saroj S. Jha. Dr. Parimala Subramanian.	Sex and Family Life, education for youth.
Dr. Goel.	Smoking habits in youth of slums.
Dr. U. V. Chawla.	Epidemiological study of deafness at deaf school children.
Dr. Saroj S. Jha.	Health status of women.
(9) Physiology.	
Dr. (Smt.) H. P. Pispati.	Reaction time studies.
(10) Biochemistry.	
	In progress.
	Biochemical profile in anaesthesia during surgery.
	Biochemical studies in Rheumatoid arthritis.
	Biochemical aspects in contraception.
	Biochemical studies in mental disorders.
	Research work already sent for publication.
	Food proteins as allergens.
	Polyacrylamide disc electrophoretic analysis of food proteins
	Lipid studies in cardiac disorders : 3 publications.
(11) Anatomy.	
	Special exfoliative cytology including the use of tetracycline fluorescence for exclusion of malignancy.
	Use of some plant extracts as staining media for histological studies of the animal tissues.
	Use of calcium hydroxide as a stimulator for the bone formation.
(12) Obstetric and Gynaec.	
Dr. (Mrs.) C. M. Alwani.	Amnioscopy.
	Endometrial Histopathology & Endometrial Aspiration Cytology
	Placental histopathology.
	Cervical mucous study.
	Medical disorders during pregnancy.
	Screening for Genital Malignancies.
Dr. V. R. Ambiyé.	A Scoring system for 'High Risk Pregnancy', under guidance of Dr. C. M. Alwani (Dr. Sir Mangaldas Mehsa Research Scholarship.)
Dr. S. S. Thakur.	Insulin levels in pregnancy women. (Diabetic and non diabetic.)
Dr. (Mrs.) R. N. Merchant.	Transcervical Chemical Sterilization in Females.
	Fallopian Tubal and Infertility.
	Reconstructive tubal surgery.

APPENDIX No. IX

CENTRAL LABORATORIES

94747 Investigations carried out in the Central Clinical Laboratory during the year 1981 i. e. (from 1st January 1981 to December 1981) in B. Y. L. Nair Ch. Hospital.

Routine investigations in the Central Laboratory :

Blood count and Hb.	..	17888	Urine	..	13348
Stool	..	8963	Occult Blood.	..	4031
E. S. R.	..	5966	Sputum.	..	4924
C. S. F. Routine.	..	4057	Pleural Fluid.	..	1047
Acetic Fluid.	..	1081	Blood Urea.	..	4234
Blood Sugar.	..	4785	Throat Swab.	..	478
Blood Malarial Parasites.	1520	Blood serum bilirubin.	..	194	
				Total	17516

Collection of Material (Blood) :

Blood Urea.	..	2953	Blood Sugar.	..	6177
Blood for P. P. Sugar.	..	5991	Blood for R. A. Tests.	..	385
Blood Serum Cholesterol.	..	859	Blood Uric Acid.	..	208
Blood Serum Protein.	..	318	Blood Serum Calcium.	..	240
Blood L. F. T. Tests.	..	286	Blood V. D. R. L. Tests.	..	2721
Blood A. B. O. Rn. Tests.	..	26	Blood Serum Alkaline Phosphates	..	234
Blood S. G. O. T. & S. G. P. T.	..	422	Blood Widal Tests.	..	350
Blood Serum Creatinine tests.	..	1391	Blood L. E. Cells.	..	..
Blood Serum Electrolytes	..	391	Blood Serum Bilirubin.	..	27
				Total	23231

Grand Total 94747

Investigations Department wise.

(1) Department of Pathology

Surgical Histopathology Section :

(1) Surgical tissue received	..	..	..	..	..	5,528
(2) Fluids for cytological examination	..	..	..	..	..	988
(3) Surgical blocks prepared	..	..	..	..	..	8,710
(4) Slides of surgical tissue prepared	..	..	..	..	..	12,833

(Details of surgical slides prepared)

(1) Dr. Bhajekar Hospital	..	..	..	..	..	31
(2) Kasturba Hospital	..	..	..	..	..	10
(3) Tata Hospital	..	..	..	..	..	97
(4) Eye Hospital	..	..	..	..	..	6
(5) G. E. Department	..	..	..	..	..	1,036
(6) Medicine Department	..	..	..	..	..	709
(7) Special Stains	..	..	..	..	..	340
(8) Duplicate Slides	..	..	..	..	..	196
(9) Practical Class	..	..	..	..	..	416
(10) Request from staff	..	..	..	..	..	147
(11) Slides for meeting	..	..	..	..	..	593
(12) Reay Road Mat. Home.	..	..	..	..	..	25
(13) Neurology Dept.	..	..	..	..	..	505
(14) Kurla Bhabha Hospital	..	..	..	..	..	12

Haematology Pathology Department :

Routine investigations in the Haematology Department.

1 Complete Haemogram.	..	..	..	..	..	4500
2 Retic Counts.	..	..	..	..	..	3000
3 Platelets Counts.	..	..	..	..	..	2000
4 Hb, BT, CT.	..	..	..	..	..	1470
5 Malarial Parasites.	..	..	..	..	..	1200
6 Filarial parasites.	..	..	..	..	..	600
7 G-6 P. D. Tes's.	..	..	..	..	..	300
8 L. E. Cells.	..	..	..	..	..	440
9 Osmotic Fragility.	..	..	..	..	..	100
10 Bone-Marrow Slides.	..	..	..	..	..	176
11 E. S. R.	..	..	..	..	..	112
12 Fetal Haemoglobine.	..	..	..	..	..	30
13 Peroxide Staining.	..	..	..	..	..	20
				Total	14258	

Report of Post mortem samples received for culture during 1981 :-

Blood culture.	...	161	Pus swab.	..	92
Lung swab.	..		Peritoneal swab/fluid.	..	10
Stool.	..	19	Brain swab.	..	12
Eye swab.	..	1	Throat swab.	..	1
Ascitic fluid.	..	5	Aspiration	..	5
Conjunctival swab.	..	3	Abdomen swab.	..	1
C. S. F.	..	27	Vagitation.	..	4
Kidney swab.	..	10	Liver swab.	..	9
Pleural fluid.	..	4	Urine.	..	5
Umbilical swab.	..	2	Pericardial fluid.	..	3
Wound swab.	..	4	Ear swab.	..	4
Bed sore swab.	..	7	Vaginal swabs.	..	2
Heart swab.	..	1	Scrotal swab.	..	1
Exudate swab.	..	2	Menegies swab.	..	2
Intestinal swab.	..	2	Tracheal swab.	..	1
Uterus swab.	..	3	Bone marrow.	..	1
Total				..	440

Mycology Section :-

C. S. F.	..	43	Sputum.	..	31
Urine.	..	40	Stool.	..	18
Swabs.	..	41	Fluids.	..	18
Miscellaneous.	..	23			

Food Handler's Scheme :-

1 Total No. of food handler's examined.	..	1137
2 Total No. of food handler's examined.	..	1159
3 Total No. of report stool examined.	..	188
4 Total No. of Urine examined.	..	1134
5 Total No. of Widal test Carried out.	..	1157
6 Nos. of Widal repeated.	..	8
7 Total No. of stool culture for salmonella.	..	53

Serology Section :-

Blood V. D. R. L.	17038	Blood Widal.	..	1896
C. S. F. V. D. R. L.	1335	A. S. O. titre.	..	280
R. A. Test.	845	W. il felix test.	..	7
Paul Bunnel test.	24	Formal gel test.	..	3
Brucellosi: Ag. test.	1			
				21429
Blood widal (F. H. S.) (Food Handler's Scheme)			..	1008
				27324
				Nos. 1
Materials cultured for Anaerobes.	..			245
Material cultured for M. Tuberculosis bacilli	..			1527

(3) Department of Pharmacology :-

Investigations done in 1981 :-

Thyroid uptake	..	475	Thyroid Scans	..	450
Prote in bound Iodine 131	..	3	T3 Suppression test	..	13
T3 Charceal uptake	..	675	T4.	..	600
Brain Scan.	..	240	Liver Scan.	..	300

(4) Haematology Department :—

Total number of investigations carried out in Haematology Department during the year January to December 1981 :—

Total No. of new cases	..	408	Complete Haemogram.	..	2057
Haemoglobin.	..	2057	Blood P. C. V.	..	2057
M. C. H. C.	..	2057	W B C. (Total).	..	2057
Peripheral Smear.	..	2057	Blood Reticulocytes.	..	2057
Platelet Count.	..	329	E. S. R.	..	565
L. E. Cell.	..	10	Serum Iron.	..	168
Total Iron Binding Capacity.	..	168	Foetal Haemoglobin.	..	41
Foetal Red Cell staining.	..	82	Deficiency of Factor II,V,VII & X.	..	10
Fragility.	..	21	Hb Electrophoresis.	..	123
Sickle cell test.	..	82	Bleeding time.	..	100
Clotting time.	..	200	Clot retraction.	..	200
Prothrombin time.	..	200	Thrombin time	..	200
Prothrombin Consumption test	..	200	Thromboplastin Generation test	..	94
Factor VII, Assay	..	94	Factor IX Assay	..	94
Factor XIII Assay.	..	94	Engobulin clot Lysis time	..	8
Plasma Recalcification time.	..	200	Partial Thromboplastin time with Kaolin.	..	200
Fibrinogen.	..	25	Platelet Aggregation test	..	200
Platelet Factor 3 availability test.	..	100	Glucose 6 Phosphate Dhydrogenase by Decolourisation test.	..	10
Bone marrow.	..	188	Bone Marrow iron staining.	..	188
Peroxidase staining.	..	30	Fuelgen staining.	..	3
Unstable Haemoglobin.	..	1	Urine Urobilinogen.	..	30
Hb Spectroscopy.	..	5	Sucrose Lysis.	..	10
P. N. H.	..	10	Malarial Parasite positive	..	5

The simultaneous control studies done along with patients in same of the above specialised test

(5) BLOOD BANK :—

(1) Blood collection :—Total—8463

Voluntary Donors.	..	7188	Replacement Donors.	..	869
Professional Donors.	..	1	No. of Blood bottles brought from other hospitals.	..	405
No. of outdoor blood sessions.	..	126			

(2) Blood utilisation :—

Issued to Nair Hospital patient	..	..	..	..	5423
Transfusion given from used bottles.	..	..	..	..	6153
Blood bottles given to other hospitals & Blood bank.	..	..	..	..	2057
Blood bottles sent for Plasma processing.	..	..	..	..	1015
Used for Antisera.	..	..	..	..	1
Blood bottles discarded.	..	..	..	..	136

(3) Pretransfusion tests in Donor samples :—

Grouping.	..	..	..	..	8463
Antibody Screening	..	..	..	..	8463
	1. Total No. tested.	..	..	..	8463
	2. Irregular antibodies detected.	..	..	..	15

Hepatitis Screening.

Total number tested for HBs ag.	..	..	..	..	8463
HBs ag Positive.	..	..	..	..	60
Negative.	..	..	..	..	8403

V. E. R. L. Screening :-

Total No. of tests done.	..	..	..	..	..	8058
Positive.	..	..	..	..	..	50
Negative.	..	..	..	..	..	8003
Low titre screening done.	..	..	..	..	..	836

(4) Pretransfusion tests done in patients :-

(1) Routine grouping.	..	..	..	..	..	359
(2) Grouping with cross matching.	..	..	..	..	..	4871
(3) Antibody detection.	..	..	..	..	..	5230
Irregular antibodies detected.	..	..	..	..	..	12
(4) Compatibility tests done.						
(Major, Minor, Saline and Enzyme tests)						10568
Coomb's compatibility.	..	..	..	..	..	181
(5) Hepatitis screening done in patients undergoing major surgery all negative.	..					20
(6) HBs ag tests for other patients referred from wards and outpatients. (27 negative + 3 positive).						30

(5) Antenatal Serology :-

(1) Grouping.	..	..	..	..	..	5240
(2) Antibody detection : Total	..	..	..	..	..	5240
						Special cases referred
						RH Incompatibility.
					..	89
						ABO Incompatibility.
					..	32
						Commb's tests.
					..	210
						Ab titrations
					..	439
(3) Cord blood grouping.	..	..	..	..	..	3051
(4) M. T. P. Grouping.	..	..	..	..	..	929
(5) Cases referred for exchange transfusion.	..	..	..	..	..	60

(6) Preparation of reagents :-

No. of samples screened for high titre Abs.

(7) Blood component therapy :-

Packed red cells.	..	..	..	..	..	925
Pooled plasma.	..	..	..	..	..	188
Platelets.	..	..	..	..	..	51
Buffy coat.	..	..	..	..	..	25
F. F. P.	..	..	..	..	..	27
Cryoprecipitate.	..	..	..	..	..	347
					Total	1563

(8) Bacteriologic quality control :-

Blood bottles cultured.						
Total	..	..	..	..	..	58
Sterile.	..	..	..	..	..	54
Contaminated.	..	..	..	..	..	4
Organisms.						
Isolated : B. Subtilis and staph albus.						

Time expired Plasma units cultured :-

Total	..	..	..	..	..	177
Sterile.	..	..	..	..	..	62
Contaminated.	..	..	..	..	..	45
Organisms isolated.						
Staph aureus.						
Staph albus.						
Pseudomonas.						
B. subtilis.						

Bottles with doubtful sterility :-

Total.	..	..	..	..	..	12
Contaminated.	..	..	..	..	..	2
Sterile.	..	..	..	..	..	10
Organisms Isolated.						
B. subtilis and						
Staph albus.						

APPENDIX XI

Programme/Activity Workload Summary.

Serial No.	Name of the activity	Units of measurement	Actuals	Budget	Revised	Budget
			80-81	estimates	estimates	estimates
			Rs.	Rs.	Rs.	Rs.
1	General Administration and Supervision.	..	..	..	..	..
2	Medicine Department.	No. of patients.	1,04,819	1,10,000	1,03,380	1,10,000
3	Surgery Department.	No. of patients.	69,178	72,000	70,900	72,000
4	Obst. & Gyn. Department.	No. of patients.	21,238	22,500	22,405	22,500
5	Paediatric Department.	No. of patients.	30,266	32,500	32,100	32,500
6	Premature Baby Ward.	Reflected in Gynaecology Department.				
7	Radiology Department.	No. of X-ray plates.	1,47,085	1,60,000	1,40,000	1,60,000
8	Pathology & Bacteriology Department.	No. of patients.	..	..	..	..
9	Casualty.	Shown under Medicine Department.				
10	Orthopaedic Department.	No. of patients.	22,738	24,000	23,775	24,000
11	Aural [E. N. T.] Department.	No. of patients.	21,789	23,000	22,000	23,000
12	Ophthalmology Department.	No. of patients.	13,095	13,500	14,540	15,000
13	Skin & V. D. Department.	No. of patients.	33,362	33,000	33,100	33,200
14	Blood Bank :					
	Blood collected from voluntary donors.	bottles.	7,248	10,000	10,000	10,000
	Replacement donors.	bottles...	721	2,000	2,000	2,000
	Professional donors.	2 bottles.	2	..	..	..
	Total blood collected	bottles.	7,961	12,000	12,000	12,000
	Transfusion given to patients.	bottles.	6,714	10,000	10,000	10,000
15	Neurology Department.	No. of patients.	666	700	600	700
16	Urology Department.	..	..	..	..	..
17	Pharmacy Department :					
	Transfusion bottles.	Bottles.	1,30,000	1,69,300	81,000	1,65,000
	Vials.	Vials.	19,000	18,780	12,000	18,000
	Distilled water flasks.	Flasks.	1,200	1,500	2,276	2,500
18	Audiology & Speech Therapy Department.	No. of patient.	3,416	8,600	3,320	3,500
19	Psychiatry Department.	No. of patients.	4,756	4,800	5,123	5,200
20	Biochemistry Department.	..	..	..	..	..
21	Physiotherapy Department.	No. of patients.	10,649	11,000	11,444	11,500
22	Occupational Therapy Department.	No. of patients.	7,712	7,500	8,325	8,400
23	Immunization Centre.	No. of patients.				
24	Gastroenterology Dept.	No. of patients.	923	1,000	860	1,000
25	Mobile Health Unit.	Department not existing				
26	Dental Clinic.	Department not existing.				

APPENDIX XI
Programme/Activity Workload Summary.

Serial No.	Name of the activity	Units of measurement	Actuals 80-81	Budget estimates 81-82	Revised estimates 81-82	Budget estimates 82-83
			Rs.	Rs.	Rs.	Rs.
27	T. B. Observation.	No. of patients.	2,791	3,000	2,710	3,000
28	Neurosurgery Department.	No. of patients.	755	800	904	910
29	Plastic Surgery Dept.	No. of patients.	1,066	1,200	1,035	1,200
30	Cardiac [Medicine] Dept.	No. of patients.	1,314	1,400	1,894	2,000
31	Thoracic Surgery Dept.	Shown under Surgery Department.				
32	Paediatric Surgery Dept.	Shown under Surgery Department.				
33	Artificial Kidney Dept.	Shown under Surgery Department.				
34	Diabetic Clinic.	No. of patients.	259	300	215	260
35	Genito Urinary Dept.	No. of patients.	80	100	90	100
36	Nursing School.	Teaching Student Nurses.				
37	Anaesthesiology Dept.	No. of patients.	29,826	27,000	32,150	32,500
38	Intensive Care Unit.	Shown under Medicine Department.				
39	Paediatric Centre at Reay Road.	The Centre is not yet started.				
40	Kamathipura Teaching Centre.	The Centre is not yet started.				
41	Souter Street Centre.	The centre is not yet started.				

**Lokmanya Tilak Municipal General Hospital
and
Annapurnabai Deshmukh Hospital for Women
and
Lokmanya Tilak Municipal Medical College**

L. T. M. G. (Hosp.)—**HIGH LIGHTS :—****HOSPITAL :—****I.—EXPENDITURE :—**

(A)	1.	On In-Patients	...	...	...	Rs. 3,56,46,483
	2.	On Out-patients	...	...	...	„ 67,54,993
	3.	Total Expenditure (Excluding New work)	...	...	...	„ 4,23,13,682
	4.	On New works	...	...	...	„ 88,006
(B)	1.	Average cost per In-patient per day	...	...	...	„ 82.44
	2.	Average cost per Out-patient per day	...	...	...	„ 22.42

II.—RESULTS :—**(A)—IN-PATIENTS :—**

1.	Schedule bed strength	...	...	...	1,048
2.	Daily average In-patients in wards (including Sarvodaya & Raoli Camp Paediatric Wards)	...	...	...	1,181
3.	Admissions including those brought over from previous year and R. C. Paed. Ward.	...	...	...	55,737
4.	Number of patients discharged as				
	(i) Relieved	...	...	...	37,949
	(ii) As Cured	...	...	...	7,423
	(iii) Otherwise	...	...	...	5,125
	(iv) Expired	...	...	...	4,231
	(v) Remained in the Hospital on the last day of the year	...	...	...	1,009
	(vi) Daily average number of admissions	...	...	...	141
	(vii) Average stay of In-patients (Days)	...	...	...	8
	(viii) Highest admissions on a single day	...	...	...	212

(B) OUT-PATIENTS :—

1.	New Out-patients attendance including Raoli Camp.	...	...	...	3,01,215
2.	Daily average number of new Out-patients	...	...	...	987
3.	Highest O. P. D. attendance on a single day	...	...	...	1,157
4.	Number of Casualty attendance (Medico-Legal)	...	...	...	28,340
(C)	1.	Operations on In-patients	16,177
	2.	Operations on Out-patients	41,399

(D) CONFINEMENTS :—

1.	Booked Cases	...	...	...	1,884
2.	Emergency Cases	...	...	...	4,913
3.	Total number of delivery	...	...	...	5,520
	a) Normal	...	...	...	4,604
	b) Abnormal	...	...	...	916
4.	Neonatal and Maternal Deaths				
	(i) Maternal Deaths	...	...	...	35
	(ii) Still Births	...	...	...	302
	(iii) Premature Deaths	...	...	...	192
	(iv) Neonatal Deaths	...	...	...	210

III—SPECIALISED TREATMENTS :—

1. Admissions in Resuscitation Ward	...	...	...	2,294
2. Sterilization				
(i) Male	101
(ii) Female	787
(iii) I. U. C. D. Insertion	283

IV—RADIOLOGY :—

1. X-Rays taken	1,24,908
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V—BLOOD BANK :—

1. Blood samples collected from :—				
(i) Voluntary Donors	1,723
(ii) Relative Donors	5,071
(iii) Other Hospitals...	...	...	...	1,789
2. Bottles supplied	...	...	...	8,209

VI—SCHOOL CLINIC :—**(A) Number of School Children treated :—**

1. New Cases	...	...	...	2,033
2. Repeat cases	...	...	...	16,737
3. Referred cases	...	...	...	82

(B) EXPENDITURE ON CLINIC

1,36,991.50

VII—PHYSIO-THERAPY

1. Out-patients treated	...	...	...	14,112
2. Number of treatments given	...	...	...	93,447
3. In-patients treated	...	...	...	4,850
4. Number of treatments given	...	...	...	1,04,862

VIII—OCCUPATIONAL THERAPY

1. Out patients treated	...	...	...	7,511
2. Number of treatments given	...	...	...	22,820
3. In-patients treated	...	...	...	9,134
4. Number of treatments given	...	...	...	1,24,259

IX.—MEDICO SOCIAL SERVICE DEPARTMENT :—**(A) Direct Service :**

Number of cases handled on case work level and other long term cases .. 10,710

(B) Medical Aid :

Number of patients given medicines .. 33,883

(C) Service to deaf School :

There were 123 children on the roll, 76 in Preprimary, 17 in Ist standard, 20 in IIIrd standard and 10 were in IVth standard.

1— COLLEGE :—**1. ANNUAL EXPENDITURE AND REVENUE :—**

(A) 1. Expenditure including expenditure on hostel	...	...	...	87,75,487.00
2. Revenue from tuition fees, Hostel Rent & Miscellaneous Receipts	...	...	...	2,17,530.00
3. Revenue from post-graduate fees	...	...	...	57,650.00
(B) Income from Hostel	...	...	...	17,720.00
(C) 1. Gross Cost per student	...	...	...	11,577.00
2. Net cost per student	...	...	...	11,214.00

2.—STUDENTS :—

1. On roll as on 31-3-1982 762
2. Number of students class-wise

	Male	Female	Total
Ist M. B. B. S.	63	59	122
IInd M. B. B. S.	92	58	150
IIIrd M. B. B. S.	112	39	151
Post-Graduates on roll as on 31-12-1981	176	101	277
INTERNS :—			
Total No. of interns as on 31-12-1981.	40	22	62
Total	483	279	762

The Lokmanya Tilak Municipal General Hospital has completed 34 years of its existence rendering relief to the sick and injured in this year and the Lokmanya Tilak Municipal Medical College, Sion, has completed 16 years of imparting Medical Education to the students for under graduate studies and 4 years for post graduate studies of all branches of the University. Training for Super-Speciality subjects viz. Cardiology, Cardiothoracic Surgery, Plastic Surgery, Urology and Neuro-surgery has started from June, 1980.

The College has been given affiliation by the University of Bombay upto 18th June, 1984. The Medical Council of India, has recommended this college for award of M.B.B.S. degree and post-graduate degrees.

The inspection was carried out on 5th and 6th August 1981, by a team of inspectors deputed by Medical Council of India for recognition of the Super-speciality departments for P. G. degree courses and other seven departments which were not approved previously in the year 1977. Report is awaited.

The inspection by the University of Bombay was held on 24-6-1981 for recognition of the posts of registrar and House Officer of the Tetanus Unit and the posts are recognised for the purpose of M. D. (General Medicine) from September 1980 with retrospective effect. Dr. M. B. Kher, Prof. of Anatomy was appointed as Ag. Dean, from 1-1-1981 in place of Dr. J. V. Bhatt, Dean transferred to T. N. M. College till 19-7-1981.

Dr. B. R. Kalke, has been appointed as Dean, from 20-7-1981 and has taken over the charge.

Dr. (Smt.) H. P. Rebello, is continuing as Assst. Dean.

List of Heads of The Departments

Serial No.	Name	Qualification	Designation
1	Dr. B. R. Kalke	M.B.B.S., M.S., Ph.D. FRCS	Dean.
2	Dr. M. B. Kher	M.B.B.S., M.Sc. (Medicine)	Prof. of Anatomy.
3	Dr. N. A. Dabholkar	M. D.	Prof. of Physiology.
4	Shri F. R. Billimoria	M.Sc. (Biochem) C. Chem. MRFC, FCS (Royal Inst. of Chem. London).	Prof. of Biochemistry.
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	M.B.B.S., Ph. D.	Prof. of Pharmacology.
8	Dr. (Mrs.) Gopa Kothari.	M.B.B.S., M. D. (Paed) M.D. (PSM)	Prof. of Preventive and Social Medicine.
9	Dr. (Mrs) S. P. Cuchelkar.	M. D.	Prof. of Forensic Medicine.
10	Dr. M. V. Divekar	M. D.	Prof. of Medicine.
11	Dr. M. J. Gandji	M. D.	Hon. Prof. of Cardiology.
12	Dr. S. V. Nadkarni,	M. S.	Prof. of Surgery.
13	Dr. A. P. Chaukar	M. S.	Prof. of Thoracic Surgery.
14	Dr. B. J. Damany.	M. S.	Hon. Prof. of Neuro-Surgery.
15	Dr. A. D. Dias.	M. S.	Hon. Prof. of Plastic Surgery.
16	Dr. S. D. Bapat.	M. S.	Hon. Prof. of Urology.
17	Dr. (Mrs.) P. R. Vaidaya.	M. D.	Prof. of Obstetrics & Gynaecology.
18	Dr. V. B. Athavale	M. D.	Hon. Prof. of Paediatrics.
19	Dr. V. R. Mehta.	M.B.B.S., D. V. D.	Hon. Prof. of Skin & Venereology.
20	Dr. (Mrs.) D. A. D souza.	M.B.B.S., D.P.M.	Hon. Prof. of Psychiatry.
21	Dr. M. D. Pandit.	M. S.	Hon. Prof. of Orthopaedics.
22	Dr. K. C. Gadre.	M. S.	Hon. Prof. of E. N. T.
23	Dr. S. M. Sathe.	M. S.	Hon. Prof. of Ophthalmology.
24	Dr. S. S. Mehta.	M. D.	Prof. of Anaesthesiology.
25	Dr. B. R. Rao.	B. D. S.	Hon. Dental Surgeon.
26	Shri S. T. Bhat,	M. Sc. (O. T.)	Head Occupation Therapist.
27	Mrs. B. V. Bellare.	B. Sc. (P. T.)	Head Physio Therapist.

Admissions ;—The admission capacity of students admitted for M. B. B. S. course at this institution has been increased from 60 to 100 from June, 80 with the approval of the Medical Council of India. The number of students on roll as on 31-12-1981 was 485 and that of Post-graduate students was 277. D. M. L. T. Course is being conducted at this institution with intake capacity of 10 students. We are also enrolling students for M. Sc. 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) 5 students.

The Department of Physio Therapy has been recognised by the University of Bombay for post-graduate course in M. Sc. (Physical Therapy) from June 1981, term and allowed to register 5 students per year.

Educational Activities ;—Besides regular teaching programme monthly scheduled meetings and clinical Cardiology conferences were held regularly. Scientific and educational films were shown to the staff and students.

Interns ;—Graduates from University other than Bombay University are allowed to undergo Internship Training at the attached L. T. M. G. Hospital to the extent of 40 per year. From June 80 term, these interns are charged Rs. 100 for 3 months of training.

Results of undergraduate and post-graduate students, the prizes won by the students and those who stood first in the examination are shown in the appendix No. I & 1A respectively.

We are conducting competitive examinations in the subject of Anatomy, Physiology, Pharmacology, P. S. M. Medicine, Surgery, Obst. & Gyn. and E. N. T. every year for the students of I, II, and III M.B.B.S. The names of the students who have won the prizes in competitive exams are shown in appendix No. VII.

Two prizes have been instituted for IIIrd M. B. B. S. students & post-graduate students in Surgery from the donation of relatives in the memory of late Hemant Kelkar, a student of this college.

A separate committee of students manages the students Cultural and Sports activities. To defray this expenditure fee of Rs. 50 per annum is being collected from the students and interns.

Research Society ;—The Research Society is functioning in this institution since Aug. 66 It is recognised under the societies registration Act and Public Trust Act. It is also exempted from paying income Tax. Medical Officers working in this Institution including Hon. Prof., Asstt. Hon. Prof. and full time medical Officers upto the level of tutors and Demonstrators are the members of the society. Annual subscription for each member is Rs. 25 Total No. of membership as on 31st December 1981, is 250.

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 amount of Rs. 70 per term is recovered from the students. We have also started taking deposit of Rs. 35 from the students staying in hostel from November 81 term.

It is proposed to construct 12 storeyed building for hostel. The plans are ready and tenders are being invited at the end of June, 1982.

Library ;—During the year, 888 books have been added to the collection totalling to 13669 books. The library has subscribed to 307 Titles of Journals. The budget grant sanctioned for Library from L. T. M. M. College is Rs. 2,00,000.00 and that from L.T.M. G. Hospital is Rs. 2,10,000.00

Annual Cost and Revenue ;—The total expenditure of college amounted to Rs. 14,10,264.00 excluding establishment cost as against Rs. 13,38,573.00 during the previous year. The net revenue of the college by way of tuition fees and miscellaneous receipts etc. amounted to Rs. 2,75,180.00 as against Rs. 2,10,445.00 for the previous year.

Mobile Accident Service ;—A mobile Accident Service Van donated by Messrs. India Tobacco Co. Ltd., through the Bombay Pradesh Congress Committee which is equipped with a wireless set attached to the Emergency ward has attended 424 calls and 2317 patients have been admitted in the emergency ward.

In-Patients ;—The Schedule bed strength of this Hospital is 1048. The distribution of beds according to the Departments is shown in Appendix III. 54601 patients were admitted for Indoor treatment during the year as against 51705, 51090 and 51463 during the preceding 3 years respectively.

Paying Patients ;—Under the scheme which is effective from 1951, 1488 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.

Out-Patients ;—The Out-Patient Department has attended to 301215 new patients. The highest in-patients and Out-patients attendance (only new attendance) on a single day was 212 and 1157 respectively.

After-noon-Out-Patient Department ;—There are 4 Out-patient departments, viz, Medical, Surgical, Orthopaedics and Paediatrics running in afternoon. During the year, 31560 patients were treated in these departments.

MEDICO LEGAL CASES :

Casualty Department :—28340 accidental and other emergency cases were treated in this Department.

Medico-Legal Cases :—During the year, the Resident Medical Officers, attended various courts for giving evidences in 383 Medico-legal cases. 2206 injury certificates were issued to the various Police stations free of charges.

Certificates :—9356 Certificates of different types were issued to the patients during the year under report.

Minor Surgery Department :—41399 minor operations were performed in the department during the year.

Pathology Department :—350428 investigations were carried out and 1465 autopsies were performed during the year. 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 Hospitals (East & West).
- (4) Bhandup Maternity, Hospital.
- (5) Chunabhatti Maternity Hospital.
- (6) Raoli Camp Hospital.

Anaesthesia Department :—During the year, 12459 patients have received anaesthesia in various theatres and minor surgery department. 4022 patients were kept in recovery room and out of these 248 patients were required to be treated with respirators.

Medical Health Check-up Centre :—The health of a person in apparent good health is checked and all routine examinations, such as blood, Urine, Stool, Screening etc. are carried out if required. During the year under report, 239 persons have taken advantage of the same. The Medical Health Check-up Scheme is an absolutely voluntary scheme for the patients to come at their own to the check-up Centre.

X-Ray Department :—The work done in the X-Ray Department during the year is as under.

(1) No. of patients ..	52,823	(4) Carotoid Angiograms ..	2643
(2) No. of X-Rays ..	1,24,908	(5) Special Investigations ..	1,364
(3) No. of Ba-meal	} 665	(6) Other Misc. investigations ..	50,531
Ba-swallow			
Ba-enema			

Dental Department :—12,435 patients were treated for various tooth troubles.

Anti-Rabic Department :—25,785 patients were treated, both new and repeat.

Blood Bank :—The total number of Blood samples collected from relative donors was 5,071 and that from voluntary donors was 1,723. The total number of blood samples supplied for transfusion during the year was 8,209.

Physiotherapy and Occupational Therapy Department :—The work done in these departments during the year is shown below (out patients and In-patients).

Serial No.	Department	No. of patients.	No. of Treatments.
1	Physio Therapy	18,962	1,98,309
2	Occupational Therapy	16,645	1,47,079

Audiology and speech Therapy Department :—During the year, 1707 patients have taken advantage of services of the department.

Head injury Follow up Clinic :—137 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 ..	..	..	..	..	101
(2) Sterilization Operations performed ..	..	..	..	..	787
(3) Loops insertion ..	..	..	..	..	283
(4) Patients given oral pills ..	..	..	..	..	323
(5) Patients given condoms ..	..	..	..	..	689

School Clinic Department :—2,033 New and 16,737 Old cases from 21 different Municipal Schools from the suburbs and 18 from City and 1,845 New cases from 8 different secondary schools were treated during the year. 63 Tonsils operations were performed on School Children. 802 Old primary and 52 old secondary OPD Cases were treated on Saturdays and Holidays during the year.

MEDICO SOCIAL SERVICE DEPARTMENT.

Direct Services :—

Long Term Cases :—

(1) Orthopaedically handicapped for counselling & rehabilitation	610
(2) Cases of unmarried mothers, adoption, Medical termination of pregnancy etc. for counselling and rehabilitation	167
(3) Cases of chronic illnesses like diabetes, T. B., etc. for counselling and rehabilitation	2037
(4) Cases of Psychiatric disorders—	
1. Adults	2,052
2. Children	3,109

Short Term Cases :—

(1) Discharge problems cases	149
(2) Cases in need of appliances like clutches calipers' hearing aids drugs, etc.	2,586

Medical Aid and Blood collection :—

(1) No. of times patients given medicines at O.P D. Level.. .. .	33,883
(2) No. of blood donation camps organised	86
(3) No. of blood bottles collected from voluntary donors	5,071

Projects for the outdoor patients :—

(1) High protein powder :—

The social work dept. manufactures highprotein powder and gives to under nourished children and adults. These cases are regularly followed up, The two hundred twenty six such cases were given help.

(2) Grain project :—

Vishva Hindu Parishad donates 5 kg. rice and wheat for 50 poor and needy patients families. These cases are selected by the M. S. Ws, & on their assessment the help is given till the patient and his family become self sufficient. It is given for a period of six months to one year

(3) **Milk powder and high protein Biscuits** :—Donation was received from Don Bosco Church. About 752 patients were given these biscuits and 121 were given milk powder. The records of the same are maintained.

(4) **Spectacles Project** :—The cosmopolitan ladies Assoc. Sion donated spectacles worth Rs. 50 per month. 50 such cases were helped with the same.

Project for Indoor Patients :—

(1) Toy bank is being run with the help of volunteers provided by All Indian Women's Conference. Number of children admitted in the wards are availing of this facility.

(2) **Circulating library** :—Separate library for the children and adults is being run for the admitted patients with the help of volunteers provided by the Vishva Hindu Parishad. Magzines and books are regularly given to the patients who seem to be enjoying it,

Therapeutic Level :—

- (1) Alcoholics and their wives.
- (2) Parents of the mentally retarded.
- (3) Parents of the deaf children.
- (4) Pareplegics and their relatives.
- (5) Patients admitted in the K. G. Infirmary.
- (6) Relatives of schizophrenics.

Educational Level :—

- (1) T. B. Cases and their relatives.
- (2) Diabetics and their relatives.
- (3) Parents and the relatives of deaf and hard of hearing cases.

Recreational Level :—

Patients admitted in the wards were either taken in a group or individually mainly by the N. S. S. Volunteers and volunteers from Satya Sai Seva Mandal. They were entertained by various activities such as games, Bhajan, Story telling and activities such as drawings and paintings.

Community Health Work :—The M. S. W. Dept. works in Raoli Camp through Paediatrics dept. and Sunder Kamala Nagar Community.

Following activities are conducted in these communities :—

(1) **Sunder Kamla Nagar** —In this community the S. W. work mainly through the Youth Welfare Organisation.

The on-going activities such as Balwadi, special English coaching classes, tailoring classes, study classes are conducted, Picnics, celebrations of the festivals national and religious, were also organised to build up relationship and generate awareness about their health needs amongst the people.

The response was found very good. People have decided to have their own community hall and social worker has put in a lot of efforts in that direction.

Mothers and women were seen in groups to discuss their various needs and problems. Their child rearing pattern, diet, personal hygiene, habits, etc. were observed and were helped to correct.

Raoli Camp Community :—T. B. Clinic is being conducted by the paediatrics dept. Number of persons from the community attend the clinic. 70 cases were followed up by the S. W. with the help of the local health worker.

The on-going activities of the community such as Balwadi, tailoring class, study class were conducted by the social worker with the help of student social workers and volunteers sponsored by the Rotary Club of Bombay uptown and Rotary club. These activities were utilized to create awareness in people about their health needs, correcting their health concepts, educating them on diet, child care etc. and helping them to take the necessary treatments regularly.

II—Teaching and Supervision :—

(i) Lectures were given to medical, nursing and social work students by the social worker.
(ii) 19 students of social work from T. I. S. S. and college of social work were placed under the supervision of the expert social workers during the academic year.

(iii) 36 M. S. S. volunteers from various colleges were placed for doing voluntary social work. were involved in different projects conducted by the Social work dept.

(iv) Orientation visits were paid by the student social workers from the college of Social work Tata Institute of Social Science, Loyola college, Madras. etc.

School for the deaf Wadala :—

There are 13 teachers in the school and Mrs. Kotnis continues as head teacher.

There are 123 students age range being 4 years to 20 years. The break-up is as follows :—

76	Students	—	Preprimary
17	„	—	Ist Std.
20	„	—	3rd Std.
10	„	—	4th Std.

Activities :—The routine activities of literacy education were carried out.

Craft classes and carpentry classes were conducted by the partime teachers deputed by the education dept. B. M. C. The cooking, tailoring, drawing and physical training classes were run by the part-time teachers, sponsored by Lions Club of Wadala, and Inner Wheel Club, Bombay uptown. Staff meetings and parents meetings were organised to discuss the programme of the school problems of the parents respectively.

Picnics, Annual day were organized for the students by the staff of the School.

Special programme to celebrate the year of the disabled were organized. Such as overnight camp of all the deaf schools in Bombay at Arrey Milk Colony on 5th 6th and 8th March 1981, Group Dance competition of all the deaf schools in Bombay on 13th Sept. 1981.

The objective in organising these programmes was to promote feelings of self confidence in the children and their parents. Special activities conducted in celebration of the Silver Jubilee year.

(i) Anand Mela was organised on 8th April 1981. This was organised to provide a platform to bring the hospital team, donors, and service oriented organisations, patients and community Volunteers to come together. An exhibition on professional social work and the activities of the department of social work was organised.

Dr. Gore, M.S., Director of T. I. S. S. and Dr. Baker, Director of College of Social work came as chief Guest and guest of honour. The hospital staff, people from outside and patients attended it in great number.

(ii) Seminar for the patients of the deaf was organised on 22nd November 1981 on the problems of the parents of the deaf. The objective was to educate the parents about the various disciplines and resources involved in the rehabilitation of the deaf.

The seminar was inaugurated by the Municipal Commissioner, Mr. D. M. Sukthankar.

The seminar was from 9.30 a.m. to 5.00 p.m. in two sessions. In the first session the specialists from the field of deaf such as E. N. T. Surgeons, Audiologists, Speech therapists, Social workers, teachers, vocational counsellors spoke on their respective role in the fields and in the second session, parents of the deaf spoke on their experiences. Two deaf children also spoke on the occasion.

The seminar was attended by about 500 parents, teachers, social workers and others. Tea snacks and lunch was served to all.

(iii) A seminar on "Inter disciplinary approach to the rehabilitation of the Orthopaedically handicapped" was organised on 27th November 1981.

The seminar was inaugurated by Sheriff, Dr. B. K. Goyal. The objective of the seminar was to bring different team members involved in the Rehabilitation of the Orthopaedically handicapped on common platform and discuss the problems in rehabilitation from the different angles of different disciplines. Orthopaedic Surgeons, PT, OT, MSWs, Nursing Staff vocational guidance etc., participated in it. In the afternoon session patients and even ward boys were given opportunity to voice their problems and feelings. Seminar was well attended by members of different disciplines.

PREVENTIVE AND SOCIAL MEDICINE DEPARTMENT

I.—Training : The Department imparted training to undergraduates and Nurses as well.

II.—Health Supervision of School Children : Cross Road school and Transit Camp School at Dharavi were included under School Health Programme. Medical Check up and immunization was carried out.

III.—Vit. A Prophylaxis Programme : Oral Vit. 'A' was given in Dharavi community by means of house to house visits as well as at the clinic. It was also given at the Lal Donger area.

Total doses at Dharavi—750

Total doses at Lal Donger—412.

IV.—Under Five Clinic : Five Clinics are conducted at Matunga Labour Camp, Urban Health Centre, Dharavi, Lal Donger and Ghatla Village. Children under Five years of age are enrolled. Their growth and development is checked every month. Minor ailments of these children are treated. If necessary, they are referred to the specialist. B. C. G., Triple, Polio, Measles, Immunizations were carried out. Malnourished children are given nutritional aid. Health education on the common problems is given to mothers.

V.—Child Welfare Centres : The child welfare centres are conducted by the department of P. S. M. at the L. T. M. G. Hospital compound and at Raoli Camp. Children are enrolled from 3 months onwards and are followed upto the age of 5 years.

VI.—Medical Relief : Adult patients and children were examined and treated at Dharavi Urban Health Centres, Matunga Labour Camp, Lal Donger, Ghatla and Vakola Villages. Those who needed specialists treatment were referred to L. T. M. G. Hospital, Tetanus toxoid and T. A. B. C. were given to adult population. Children were protected by giving D. T., Polio, Measles, T. A. B.

VII.—Urban Public Health Internship Programme : Comprehensive health care to urban slum communities is carried out under this programme.

VIII.—Home Programme : 3 communities namely Lal Donger, Ghatla and Kelkar Wadi were selected for this programme. Apart from routine medical relief, immunization programme, Vit. A prophylaxis programme were conducted.

IX.—Social Services : Community visits :—

1. Dharavi Slum :

(a) Matunga Labour Camp	..	180 visits
(b) Rajendra Piasad Nagar	..	80 visits
(c) Transit Camp	..	200 visits
(d) Kumbharwada	..	50 visits
(e) Kunchi Korve Nagar	..	70 visits (from Sept. to Dec. '81)
Collateral contacts for communities	..	36
Health talks	..	60

2. Home Programme :

(a) Ghatla Village	..	20 visits
(b) Lal Donger community	..	15 visits
(c) Vakola community centre (started in Dec. 81)	..	8 visits
Collateral Contact for the communities	..	25
Health talks	..	15

Apart from these routine visits and activities, the following help was also given to the patients and families from the community and special activities were arranged.

A (i) Nutritional aid to children	..	130
(ii) Nutritional aid to adults and their families	..	65
B (i) Giving of appliances	..	1
(ii) Pairs of spectacles	..	30
C Economic aid in terms of cash, ration etc.	..	20 beneficiaries.
D Clothes and toys were distributed to	..	150 childrens.
E School fees and notebooks	..	10 children were sponsored.
F Employment	..	5 persons were helped to secure employment.
G Referrals, case work and follow-up in hospital	..	150 cases.
H Family Planning	..	15 referrals.

Nutrition demonstrations and Classes on Papad making and cooking—10

Soap making domenstration for women—6

Sewing classes were conducted twice a week for teenages and women.

Literacy classes were conducted twice a week for women.

This year a special function of an exhibition of handicrafts by women was organised at Matunga Labour Camp, Dharavi.

A competition for 'Healthy Women', was arranged in which 75 women participated.

A cancer detection programme was started for women and 30 women were checked at Sion Hospital.

Health exhibitions were arranged twice at Nashabhand Centre at Matunga Labour Camp during this year and was well attended by children and other people from the community.

Health exhibitions were arranged on two occasions at Urban Health Centre.

One of the greatest felt needs of the community being a Balwadi, with the help of the community, two Balwadies were started.

As recreational activities, Magic shows and film shows were organised in the communities.

Regular health education slide shows and film were shown in each community once a month.

X.—Special Activities :

(1) **World Health Day Celebration** : World health Day was celebrated on 7th April 1981. An exhibition was held at the Out Patient Department of L. T. M. G. Hospital and also of Urban Health Centre Dharavi. Health Minister Shri Baliram Hire inaugurated the exhibition. The posters on all the aspects of Health were arranged. Health talks were given by Medical students and interns. The exhibition was attended by about 1500 individuals on the first day and on request it was extended for one more day. The exhibition at Urban Health Centre was also attended by about 1000 slum dwellers.

(2) **Community Health Workers Scheme** : The traibig of community halth workers for Dharavi Slums is continued and regular training to the new batch of women and refreshr's training course is arranged for the group which is already trained.

(3) **Leprosy Clinic** : This was conducted once a week on every Tuesday with the help of Bombay Leprosy Project.

(4) Health Education Activities :

- (a) **Health Talks** : At Dharavi Urban Health Centre, Matunga Labour Camp Under Five Clinics and Adult Clinic Health. Talks are given by medical and para-medical workers. The topics covered are nutrition, immunization, personal hygiene, family planning etc. Health talks on early detection and prevention of Leprosy were arranged for the same group.
 - (b) **Health Exhibition** : An exhibition on Leprosy was arranged at Urban Health Centre and Matunga Labour Camp. Health exhibition was arranged thrice during the year at Urban Health Centre, Dharavi and at Matunga Labour Camp.
 - (c) **Health Education Films** : Films on health, family planning, Child Care, Immunization, Nutrition, Detection of Leprosy were shown to Dharavi community at Outdoor of Sion Hospital and at Matunga Labour Camp.
- (5) **Literacy Classes** : Twice a week, literacy classes were conducted at Urban Health Centre and Matunga Labour Camp, Dharavi with the help of Voluntary workers. About 20 women were enrolled.
- (6) **Sewing Classes** : Sewing classes were conducted twice a week at Urban Health Centre. A teacher was appointed for carrying out the training. So far 20 ladies were enrolled in the class.
- (7) **Cooking Demonstrations** : With the help of Food and Nutrition department, State Govt. of India Cooking demonstrations were arranged at Matunga Labour Camp to show the people preparation of nutritious meals out of locally available cheap food substances.
- (8) **Health Baby Show** : At Dharavi, Urban Health Centre a Healthy Baby show was organised by the department. About 100 children from three different age groups namely infant, toddler and pre-school, participated in the competition.
- (9) **Healthy Women Show** : A Healthy women competition was organised at Matunga Labour Camp, Dharavi, 75 women participated.
- (10) **Soap Demonstrations** : Soap making demonstrations were carried out at Matunga Labour Camp Dharavi and Lal Donger with the help of a voluntary workers.
- (11) **Balwadi** : Two balwadies at Konchi Korve Nagar and One at Valmiki Nagar were started. At Konchi Nagar 60 children were enrolled. At Balwadi, Children receive non formal education Nutritional supplementary programme was also conducted for them.
- (12) **Eye Camp** : Two eye camps were conducted at Dharavi. 170 patients were screened for various eye ailments and 73 patients were given spectacles free of charge.

Academic Achievements :

1. Preparation of audio visual slide show on rehabilitation of deaf by Dr.
2. Xerophthalmic project—Dharavi slums.

Royal common wealth society for the blind (RCSS), has selected Dharavi slum as one project area out of 40 project areas all over India for prevention of blindness and malnutrition among children.

Under this programme a routine check up of children and eye check up of children as well as adult population will be done. The population will receive free pediatricians and ophthalmologists advice and treatment.

A nutritional rehabilitation centre (Day Care Centre) is also established for children suffering from Gr. III and Gr. IV malnutrition and mass scale health education programme for the Dharavi slums is organised. A weekly nutritional demonstration is also organised.

Professor and Head—Preventive and Social Medicine Dr. Gopa Kothari will be the honorary project director for this Dharavi Project.

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 Hospitalization on telephone call, the Flying Maternity Squad reaches there within a minimum time and provides the necessary assistance. During the year, the squad attended 7 such calls.

Dispensary . The work carried out in the Dispensary is as follows .—

Out patients	}	460945
In patients		
Special Prescriptions		
M. S. W.		
School Clinic		

Department of Pharmacy : Sterile and non-sterile preparations were manufactured in Pharmacy Department.

Sterile Preparations : Different types of I. V. Fluids in bottles and various sizes of vials were manufactured according to the requirements of the hospital which numbered about 128000. About 300 transfusion set per day were prepared, sterilized and supplied in dressing drums to the entire hospital apart from central sterile supply to the Operation Theatre, sterilization work for all wards, O. P. D. s, etc., was undertaken ranging between about 150 drums per day.

Non sterile preparations : Liquid, enema soap and different catavalon were supplied to the entire hospital.

Number of new preparations were experimented like acids solutions for E. N. T. Methyl cellulose fluraine and fluraine strips for Ophthalmic Department, silver sulphaniamide for Surgical Department Calcium E. D. T. A. for medical department etc.

Nurses Training School :— During the year, 61 student nurses were admitted for training in General Nursing and 48 students in Midwifery Nursing. 92 students in Part I, 50 students in Part II in General Nursing and 52 student nurses in Midwifery were sent for examinations, out of whom 68 in Part I, 47 in Part II in General Nursing and 48 in Midwifery Nursing have passed.

Poor Box Charity Fund : The amount in the poor Box Charity Fund as on 31st March 1981 stood at Rs. 11,17,026.00 collection from the Boxes, donations and other miscellaneous receipts during the year amounted to Rs. 3,55,126.54 and expenditure through the Poor Box Charity Fund was Rs. 1,30,898.24. The total amount in the Fund as on 31st March 1982 stood at Rs. 13,41,254.30.

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. M. Medical College and Hospital consumers Co-operative Society from the year 1976

Dr. B. R. KALKE,
Dean,
L. T. M. G. Hospital, Bombay.

APPENDIX NO. I-

Results of the Examination for the Year 1981-82.

Period	Examination	Appeared	Passed	% of passing	Name of the Students Who stood first	Total marks
April 81	I M.B.B.S.	10	7(ADC3)	100%	Shri Saini Rajinderkumar	485/800
	II M.B.B.S.	78	39(ADC2)	89.7%	Smt. Lalmaiani Ashadevi G.	580/800
	III M.B.B.S.	28	13(ADC2)	75%	Smt. Chandratreya Rula P.	626/1000
October 81	I M.B.B.S.	87	71(ADC4)	81.6%	Shri Savargaonkar Rajesh R.	561/750
	II M.B.B.S.	29	22(ADC1)	75.9%	Shri Gandhi Rajendra S.	570/800
	III M.B.B.S.	59	40(ADC1)	80%	Shri Pichai Suryanarayan	719/1000

APPENDIX NO. I.A.

Results of Post Graduate Examination for the Year 1981-82.

Examination	APRIL 1981		OCTOBER 1981	
	Appeared	Passed	Appeared	Passed
M. D. (Medicine)	4	..	9	3
M. D. (Gynec & Obst)	5	2	3	3
M. D. (Paediatrics)	2	1	4	3
M. D. (Skin & V. D.)	1	..	2	1
M.D. (Anaesthesia)	2	..	4	3
M. D. (Radiology)	..	..	4	2
M.D. (P. S. M.)	1	..	1	1
M. D. (Psychiatry)	2	..	2	1
M. D. (Cardiology)	..	..	1	..
M. D. (Pathology)	2	1	1	..
M. D. (Microbiology)	..	..	1	1
M. S. (Gen. Surgery)	10	4	10	3
M. S. (Orthopaedic)	..	..	3	3
M. S. (E. N. T.)	..	..	2	2
M. S. (Ophthalmology)	..	..	2	2
M. Ch. (C. V. T. S.)	..	..	1	..
M. Sc. (I)	10	8	8	5
M. Sc. (II)	11	11	2	2
M. Sc. (Occupation Therapy)	4	2	..	..
Diploma.				
D. A.	8	7	5	5
. P. H. I	1	1	3	1
. P. H. II	5	2	1	1
. M. R. D. I	5	4	2	1
. M. R. D. II	1	1	2	1
. V. D.	3	2	2	2
. P. M. I	..	..	2	2
. P. M. II	2	2	1	1
. L. M. T. I	6	4	8	5

APPENDIX II

Papers Read and Published

- | | | |
|--|--|--|
| Department of
Medicine. | Dr. Divekar
Dr. Jay Deshmukh | (1) "New Oral Sulfonylureas , published in the Journal of diabetic Association of India. |
| | Dr. Divekar | (2) "Hartnup Disease , (ii) Hyperlipidemia in Coronary disease. read in Nov. 1981 before the L. T. M. C staff & Research Society. |
| | Dr. Divekar | (3) "Autonomic Neuropathy (ii) "Yoga in Diabetes , read at the IIInd World Congress on Diabetes |
| | Dr. S. A. Naniv dekar | (4) "Value of Emergency Endoscopy in acute upper G. I. Haemorrhage. Read at the A. P. I. Conference at Nagpur in Jan. 1981. |
| Department of
Preventive &
Social
Medicine. | Dr. Gopa Kothari | (1) "Health Problems in Women read at the Bhagini Seva Mandir Kumarkastri Mandal Bombay. |
| | | (2) "Primary Health Care , read at the 'D' Ward Medical Association. |
| | | (3) "Health problems of mothers and children in slums , at the seminar on Health problems in Bombay slum at T. N. Medical College. |
| | | (4) "Urban Health changing perspective , read at the All India Institute of Local Self Government. Bombay. |
| | | (5) "Disability due to deafness in India , read at the Seminar on demography of disabled persons in India at I. I. P. S., Bombay. |
| | | (6) "KAP Study of STD in Urban Slum community read at the first Asian Congress, on Sexually transmitted diseases, Family Planning and human sexuality. |
| | Dr. Nalini Pai | (7) "Knowledge & attitude in human sexuality among medical students read at first Asian Conference sexuality Bombay. |
| Department of
Paediatric. | Dr. V. B. Athavale
Dr. Armida Fernandes
Dr. Dhun Patel
Dr. Surekha Rajadhyaksha | (1) "Developmental Scoring of Preterm Babies , preliminary report. |
| | Dr. Dhun Patel
Dr. Satish Mehta
Dr. V. B. Athavale
Dr. Armida Fernandes | (2) "Rooming of preterm babies with mothers , |
| | Dr. P. S. Moralwar
Dr. Armida Fernandes. | (3) "Immunological determinants in preterm and small for date babies.. |
| | Dr. Pratibha Vaidya
Dr. Armida Fernandez
Dr. V. B. Athavale
Dr. Dhun Patel. | (4) "Study of Premature Babies roomed in with mother read at the Bombay Obst. & Gynaec. Conference, June 1981. |
| | Dr. V. B. Athavale | (5) "Basic Principles of Ayurveds , published in PCI, Vol. 16 No. 3 July 1981.
"Pathogenesis of Ayurveda published in PCI vol. 16 No. 3, July 1981. |
| | Dr. M. H. Rupani | (6) "Mortality Profile in an Intensive Pediatric Care Unit , read at 17th National Congress of Indian Academy of Pediatrics Hyderabad. |
| | Dr. Meenakshi N. Mehta
Dr. L. P. Deodhar
Dr. A. S. Deshpande. | (7) "Isolation of Samonella in the Pediatric Age Group , presented at the conference of communicable disease held in Bombay on 2-4th January 1981. |
| | Dr. Meenakshi N. Mehta
Dr. Dhun S. Patel | (8) "Oral Rehydration Therapy in the Management of Acute Diarrhoeal Diseases in Children , presented at the National Conference of Communicable diseases held at Bombay on 2-4th January 1981. |

- Dr. Gogate Alka
Dr. Leena Drodhae
Dr. Meenakshi N. Mehta
- Dr. Meenakshi N. Mahta
Mrs. Sulbha M. Warde
Mrs. Sunanda P. Damle.
- Dr. J. A. Nagarsekar
Dr. A. V. Rankhambe
Dr. R. S. Mehta.
- Dr. Meenakshi Mehta
Dr. Avinash G. Kamat
Dr. M. R. Lokeshwar
- Dr. M. H. Rupani
Dr. Meenakshi Mehta
Dr. V. B. Athavale
- Dr. Meenakshi Mehta
- Mrs. Sulbha M. Warde
Mrs. Sunanda B. Damle
Dr. Meenakshi Mehta
- Dr. Meenakshi N. Mehta
Mrs. Sulbha M. Warde
Mrs. Sunanda B. Damle
- Dr. Meenakshi N. Mehta
Dr. Parvathi Krishnan
Dr. Nirupa N. Munshi
- Dr. Meenakshi N. Mehta
- Dr. Shalini S. Bhatt
Dr. Armida Fernandez
- Dr. Armida Fernandez
Dr. Dhun Patel
Dr. Surekha Rajadhyaksha
Dr. V. B. Athavale
- Dr. Dhun Patel
Dr. B. S. Avasthi
Dr. A. Deshpande
Dr. Armida Fernandez
- Dr. Dhun Patel
Dr. Satish Mehta
Dr. V. B. Athavale
Dr. Armida Fernandez
- Dr. P. S. Moralwar
Dr. Armida Fernandez
Dr. V. B. Athavale
- Dr. Nikhil Munshi
Dr. V. B. Patkar
Dr. Pratibha Vaidya
Dr. Nirupa Munshi
Dr. Mallika V.
Dr. Armida Fernandez
- (9) "Neonatal Salmonella Meningitis presented at the Xth National conference of Communicable disease held at Bombay on 2-4th Jan. 1981.
- (10) "Illegitimate Pregnancy: Fate & Futures", presented at the XVIIIth National Congress of academy of Paediatrics Hyderabad held on 31st Jan. to 2nd Feb. 1981.
- (11) "Pitfalls in the Diagnosis of Tuberculosis in School clinic children", presented at XVIIIth National Congress of India Academy of Paediatrics, Hyderabad held on 31st Jan. to 2nd Feb. 1981.
- (12) "Anemias in Newborn", presented at XVIIIth National Congress of Indian Academy of Paediatrics, Hyderabad held on 31st January to 2nd February 1981.
- (13) "Mortality Profile in an Intensive Pediatric Care Unit presented at XVIIIth National Congress of Indian Academy of Paediatrics, Hyderabad held on 31st January to 2nd February 1981.
- (14) "Problems of Diarrhoea", presented at the reunion meeting of ex-fellows of UNICEF WHO sponsored course for senior teacher of child health held at Hyderabad on 3,5 February 1981.
- (15) "Illegitimate Pregnancy Outcome and Rescue", presented at the 3rd International Congress of child abuse and Neglect held at Amsterdam 21-25 April 1981.
- (16) "Rehabilitation of Illegitimate babies", Presented at the 3rd International Congress of child abuse and neglect held at Amsterdam 21-25 April 1981.
- (17) "Adoptions follow up from an orphanage in Bombay", presented at the 3rd International Congress of child abuse and neglect held at Amsterdam 21-25 April 1981.
- (18) "Physical abuse in abandoned children", presented at the 3rd International Congress of child abuse and neglect held at Amsterdam 21-25 April 1981.
- (19) "Assessment of Health Education in Nutrition Ancilla Trager", published in the Journal of Tropical Pediatrics Vol. 27, No. 4, August 1981 and read at the National Pediatric Conference Hyderabad January 1981.
- (20) "Developmental Scoring of preterm Babies", A preliminary report, read at the National Paediatrics Conference held at in Hyderabad in January 1981.
- (21) "Out-come of 800 preterm babies", read at the National Paediatrics Conference held at in Hyderabad in January 1981.
- (22) "Rooming in of Preterm babies with mothers", read at the National Paediatrics Conference held at Hyderabad in January 1981.
- (23) "Immunological determinants in preterm and small for date babies", read at the National Paediatrics Conference held at Hyderabad in January 1981.
- (24) "Developmental Assessment of Babies born by L. S. C. S.", read at the National Paediatric Conference held at Hyderabad in January 1981.

- Dr. Pratibha Vaidya
Dr. Armida Fernandez
Dr. V. B. Athavale
Dr. Dhun Patel
- (25) "Study of premature babies roomed in with mother", read in the Conference of Obst. and gynae Bombay held in June 1981.
- Dr. Dhun Patel
Dr. Armida Fernandez
- (26) "Orbital encephalocele" published in the Journal PCI October 1981 Vol. 16 No. 4.
- Dr. J. A. Nagarsekar
Dr. A. V. Rankhambe
Dr. Rita S. Mehta
Dr. Meenakshi Mehta
- (27) "Pitfalls in the Diagnosis of Tuberculosis in School Clinic Children", presented at XVIIIth National Conference of the India Academy of Paediatrics.
- Dr. N. S. Munshi
Dr. V. D. Patkar
Dr. Pratibha Vaidya
Dr. Nirupa Munshi
Dr. Millika V.
Dr. Armida Fernandez
- (28) "Development Assessment of Babies born by L. S. C. S. presented at the Bombay Obst. and Gynae Conference held at June 1981.
- Dr. Meenakshi Mehta
Dr. Parvathi Krishna
Dr. Nirupa N. Munshi
- (29) "Adoptions follow up from an Orphanage in Bombay", presented at the 3rd International Congress of child Abuse and Neglect at Amsterdam April 1981, and this paper was accepted for publication in International Journal of child abuse and Neglect.
- Dr. Meenakshi N. Mehta
Dr. Avinash G. Kamat
Dr. M. R. Lokeshwar
- (30) "Anemias in Newborn".
- Dr. Nirupa N. Munshi
Dr. M. R. Lokeshwar
Dr. Shalini S. Bhatt
Dr. Meenakshi N. Mehta
- (31) "Thrombocytopenic Purpura following Chicken Pox", Published in the Pediatric Clinic of India April 1981 Vol. XVI, No. 2, Page 25.
- Department of Gyn. & Obst.
- Dr. G. S. Rao
Dr. P. R. Vaidya
Dr. N. S. Munshi
- (1) "Foetal monitoring in Toxaemia presented, at the 9th Annual Conference of the Bombay obst. and Gynaec. Society June 1981.
- Dr. Laxmi Patkar
Dr. P. R. Vaidya
- (2) "Monitoring of Labour by parto grams", presented at the 9th Annual Conference of the Bombay Obst. and Gynaec Society June 1981.
- Dr. Munshi N. S.
Dr. M. D. Patkar
Dr. P. R. Vaidya
Dr. Munshi N. N.
Dr. Mallika V.
Dr. Fernandez
- (3) "Developmental Assessment of babies born by caesarian section", presented at the 9th Annual Conference of the Bombay Obst. and Gynaec Society June 1981.
- Dr. P. R. Vaidya
- (4) "Rooming in Mothers", presented at the 9th Annual Conference of the Bombay Obst. and Gynaec. Society June 1981.
- Dr. Patil R.
Dr. Bhagwat U. S.
Dr. Gurushani
- (5) "Post ectopic fertility", presented at the 9th Annual Conference of the Bombay Obst. and Gynaec. Society June 1981.
- Dr. Upadhyaya
Dr. Bhagwat
Dr. Patil.
- (6) "Inhibition of laceration by Pyridoxine" presented at the sterility and Fertility Congress.
- Dr. Patil
Dr. Bhagwat
- (7) "Evaluation of cervical lesion in General Hospital by colposcopy", presented at the 3rd Asian Congress on Endoscopy February 1981.
- Dr. Asha Prabhu
Dr. Vaidya P. R.
Mrs. Shah V.
- (8) "Seropositive Syphylis in Pregnancy", 1st Asian Congress on Sexually transmitted diseases Medical termination of Pregnancy and Sterilisation.
- Dr. P. R. Vaidya
Dr. S. V. Patkar
- (9) "Monitoring of Labour by Partograms", presented at the 25th All India Congress of Obst. and Gynaec.
- Dr. S. V. Patkar
Dr. Patil
Dr. Bhagwat
Dr. Budhwar
Dr. Khare.
- (10) "Midtrimester termination of Pregnancy by Carbopros", presented at the 25th All India Congress of Obst. and Gynaec.

- Dr. P. R. Vaidya
Dr. Vijayavalli R. Badhwar (11) "Role of Caesarean Section in Reducing Foetal Mortality", presented in the Journal of the Indian Medical Association 77, 41-43, 1981.
- Dr. V. R. Ambiya
Dr. P. R. Vaidya (12) "Low Birth Weight Infants", Published in the Epidemiological Obstetrical J. of the Bombay Hospitals Journal 23, 68-71, 1981.
- Dr. P. R. Vaidya (13) "Struma ovary" published in the journal of the Clinician 45, 272-276, 1981.
- Dr. V. R. Ambiya
Dr. R. R. Vaidya
Dr. V. D. Patkar (14) "A Study of maternal Mortality due to Haemorrhage", published in the journal of Current Medical Practice. 25 258-260, 1981.
- Dr. N. S. Munshi
Dr. Geeta S. Rao (15) "Leiomyosarcoma of the Uterus", Journal of Obst. and Gynaec. of India Vol. No. 1 PP, 164-168, 1981.
- Dr. D. D. Sathe
Dr. Vijaya
Dr. Patkar
Dr. Abhyankar. (16) "Myconip Vaginitis tablets in Vaginitis published in the Journal Antiseptic March 1981.
- Dr. C. P. Shroff
Dr. K. P. Deodhar
Dr. V. D. Patkar
Dr. J. H. Fonseca (17) "Tubo-Ovarian Actinomycosis", published in the Journal of Post-graduate Med. Vol. XXVII, No. 1 pg. 29, 1981.
- Dr. V. D. Patkar
Dr. P. R. Vaidya (18) "Maternal Mortality Associated with abortions", Published in the Bombay Hospital Journal Vol. 23, No. 1, Pg. 26, 1981.
- Dr. P. R. Vaidya
Dr. G. S. Rao (19) "Toxaemia of Pregnancy Multidisciplinary Approach", Published in the Journal of Obst. and Gynaec. of India Vol. XXXI, issue No. 5, page 7, October 1981.
- Dr. V. R. Ambiya
Dr. P. R. Vaidya (20) "Gynaecological Problems in Paediatric Age, group (Review of five years)", Published in the journal of Obst. and Gyn. of India Vol. XXXI, 5, October, 1981.
- Dr. P. R. Vaidya
Dr. V. R. Ambiya (21) "Cervical mucus Ferning—In easy and Reliable Test for Placenta Dysfunction (Preliminary Study of 47 cases of suspected placental Dysfunction)" published in the Journal of Obst & Gyn. of India Vol. XXXI, 5th October 1981 Page 826.
- Department of Dermatology. Dr. V. R. Mehta (1) "As you see you think. A workshop in Dermatopathology", read at the Annual Conference of IADVL.
- Dr. R. G. Valia (2) "The histopathology of connective tissue disorders in Dermatology A workshop in Dermatopathology", read at the Annual Conference of IADVL.
- Dr. V. R. Mehta
Dr. Y. M. Shah
Dr. Nina Lala (3) "A study of two cases of subcutaneous psycromycosis, read at the monthly meeting of IADVL held at L. T. M. G. Hospital.
- Dr. V. R. Mehta
Dr. H. R. Jera-ani (4) "A case of Atypical Mycobacteriosis of Skin", read at the monthly meeting of at IADVL at L. T. M. G. Hospital.
- Dr. R. G. Valia
Dr. R. V. Ranade (5) "Connective tissue nevus in a 6 months old child read at the monthly meeting of IADL at L. T. M. G. Hospital.
- Dr. R. G. Valia
Dr. Rekha Potdar
Dr. D. J. Thakkar (6) "Wooly hair syndrome and Abirrant Sebaceous hyperplasia", read at the monthly meeting of L. T. M. G. Hospital.

- Department of Ophthalmology. Dr. Sathe
- Dr. Gokhale
- Dr. Sitaraman
- Department of Anatomy. Dr. M. B. Indulkar
Dr. N. J. Dhakan
- Department of Pharmacology Dr. H. L. Dhar
- Department of Physiology. Dr. R. K. Moorthy
Dr. P. Balasubramaniam.
- Dr. V. D. Joshi
Dr. L. V. Gokhale
Dr. N. A. Dabholkar.
- Dr. V. D. Joshi
Dr. L. V. Gokhale
Dr. L. N. Joshi.
- Department of Microbiology. Dr. (Mrs.) L. P. Deodhar
Dr. Alka Gogate
Dr. A. A. Inamdar
- Dr. Alka Gogate
Dr. L. P. Deodhar
Dr. M. N. Mehta
- Mrs. Daksha Pandit
Dr. M. H. Panthaki
Dr. H. I. Jhala
- (1) "Graded Tenotomy for conscutitant squint", read at the Conference Maharashtra State Ophthal. conference of Sholapur in November 1981.
- (2) "Silicon band enbirdoge for silicon band", read at the Conference Maharashtra State Ophthal, experience of head of Sholapur in November 1981.
- (3) "Unilateral proptosis study of cases", read at the Conference Maharashtra State Ophthal. conference, of Sholapur in November 1981.
- "Anatomy of the musculatura of the bladder neck and its mech nism", presented at the 30th National Conference of A. S. I. held in December 1981 at Trtvendrum.
- (1) "The cough", presented at the Proceedings of symposium on Vooren Tegint held in Utrecht, Netherlands 1981.
- (2) "Involvement of phosphodiesteras inhibiting property in the anti hypertensive effect of prazosin", presented at the IXth Int, Cong, of Pharmacologists held at Tokyo, July 1981.
- (3) "Cough pro and contra" presented at the symposium on cough Utrecht, Holland, February 1981.
- (4) "Peripheral utilization of glucose by B. Pertussis vaccine and its Confennation by C 14 uptake", presented at the XII Ann. Conf. of Nuclear Medicine, Srinagar, November 1981,
- (5) "Serum antipyrine half life in patients of cirrhosis", presented at the XIVth Annual Conf. of Indian Pharmacological Society. (IPS) Bombay, December 1981.
- (6) "Effect of Diazepam on gastric acidity follow up in duodenal ulcer portion", presented at XIVth Annual Conf. of IPS, Achari Prize Session, Bombay December 1981.
- (7) "Cross antigenicity of cephalosperins with penicillin", presented at the XIV Annual Conf. IPS, Bombay, December 1981.
- (1) "Cardiovascular and ECG profiles of cardiac glycosides in rabbits injected with Scorpion Venom", Published in the Indian J. of Phy. Pharm. Vol. 25, 351-1981.
- (2) "Effect of intraamniotic saline and prostagland in on fibrinolytic activity. Prothrombin time, seram electriflyte. A comparative study", published in the Ind. J. of Phy. and Pharmacology 25, 167, 1981.
- (3) "Effect of ascerbic acid total and high density lippoprotein cholesteral in normal human subjects", Published in the Ind. J. of Phys, and Phram. 25. 348--1981.
- (1) "A Bacteriological study of α rebrospinal fluids with special reference to Gas liquid Chromatographic patterns, presented at the Regional chapter meetings of I. A. P. Mheld atMiraj on 22nd and 23rd August 1981.
- (2) "Neonatal Salmonella Meningitis", presented at Xth National Conference, on communicable disease held at Bombay on 2nd to 4th January 1981.
- (3) "A Preliminary study on HLA antigens in parsi population", presented at the 298th meeting of teaching pathologists and microbiologists held in L. T. M. M. College, Sion on 30th August 1981.

- Dr. K. Krishnan
Dr. L. P. Deodhar
Dr. H. I. Jhala
- (4) "Bacteriodes and its G. L. C, pattern in clinical infections", Presented at the 298th meeting of teaching pathologists and microbiologists, held in L. T, M. Med. College, Sion on 30th August 1981.
- Dr. K. Krishnan
Dr. L. P. Deodhar
- (5) "Anaerobic bacteria and its G. L. C. pattern in clinical infection", presented at the staff an research society of L. T. M. G. Hospital on 31st July 1981,
- Mr. K. Krishnan
Dr. L. P. Deodhar
- (6) "Anaerobic bacteria and their G. L. C. pattern in dental infections", presented at International symposium on Anaerobic infections on 11th March 1981 at New Delhi.
- Dr. Alka Gogate
Dr. L. P. Deodhar
- (7) "Listeria Meningitis", published in the Jr. of postgraduate medicine, September 1981.
- Dr. D. V. Pandtt
Dr. L. P. Deodhar
Dr. Gesta Rao
Dr. P. R. Vaidya
- (8) "The study of cervical cultures in antepartum pts. with special reference to streptococci and gonococci", published in Jr. of Obstetrics and Gynecology of India in Vol, 31, No. 3, June 1981.
- Dr. V. A. Ambekar
Dr. L. P. Deodhar
Dr. S. Agrwal
Dr. A. Chaphekar,
- (9) "A study of the incidence of candidiasis in throat swabs of children on antibiotics, published in pediatric clinic of Indian October 1981.

RESEARCH

- Department of Preventive and Social Medicine. Dr. Gopa Kothari
Dr. Gopa Kothari
Dr. Nalini Pai.
- (1) Child Feeding practices in slum.
(2) K. A. P. Study on oral rehydration.
(3) Scholastic backwardness in School children.
- Department of Physiology. Dr. V. D. Joshi
Dr. Gokhale
Dr. L. N. Joshi.
- (1) Effect of ascorbic acid on fibrinolytic activity and clotting time in normal human subjects.
- Department of Microbiology, Dr. A. G. Chaphekar
Dr. P. K. Mohanty
Dr. (Mrs.) A. R. Dhar
Dr. A. K. Gupta
Mr. K. Krishnan
Dr. (Mrs.) D. V. Pandit
Dr. (Mrs.) Alka Gogate
- (1) Study of proteus strains isolated from urinary tract infections,
(2) Bacterial and fungal flora of the eye in health and disease.
(3) Grouping and antibiotic sensitivity pattern of mycobacteria.
(4) Study of Gonococci,
(5) Study of anaerobic bacteria and their G. L. C. patterns.
(6) Studies in HLA.
(7) A study of free living amoeba.

Conferences Attended Honours Conferred and Award Received.

- Department of Medicine. Dr. S. A. Nanivadekar
- 'Was invited by the Academy of Science, Nagpur to give a talk on 'Gut Hormones', Prostaglandins in Feb. 1981,
'Was invited by the B, R. Singh Railway Hospital, Sealdah Calcutta to participate in a seminar on 'Gastrointestinal Endoscopy; in December 1981.
- Department of Dermatology. Dr. V. R. Mehta
Dr. R. G. Valia.
- 'Annual conference of IADVL at Hyderabad in January 1982.
- Dr. V. R. Mehta
Dr. R. G. Valia.
- 'The colloquium & Sherlockian Dermatohistopathology session in London, July 1981.
- Dr. R. G. Valia
- (1) 'A workshop of contact dermatitis July 1981.
(2) 'Annual conference of British Association of Dermatology July 1981 at London.
(3) 'Visited slade Hospital Oxford in July 1981.

- Dr. V. R. Mehta
- (1) An invitation to attend the colloquium and Sherlockian Dermatohistopathology session in London—July 1981.
 - (2) Member of the International Society of Dermatohistopathology.
 - (3) Elected in 1981 as Chairman of the Scientific Committee of LADVL conference at Hyderabad January 1982.
 - (4) Chairman of the 1st half of the session of workshop in Dermatopathology as a part of continuation of Medical Education.
- Dr. R. G. Valia
- Convenor of Scientific Committee of 1st Asian Conference of Sex, STD & Human Sexology December 1981, Bombay.
- Department of Microbiology
- Dr. L. P. Deodhar
Dr. Alka Gogate
Dr. V. A. Ambekar.
- Attended Regional Chapter meeting of I. A. P. M. held at Miraj on 22nd & 23rd Aug. 1981.
- Dr. Alka Gogate
Dr. Sheela Gaikwad
- 'Attended Xth National Conference on Communicable diseases.
- Dr. A. G. Chaphekar
- 'Stood 1st in M, D, Microbiology examination of Bombay University held in Oct. 1981.
- Dr. Alka Gogate
- 'Got best paper prize for the paper presented at Regional Chapter meeting of I. A. P. M. held at Miraj on 22nd & 23rd August. 1981.
- Department of Anatomy.
- Dr. M. B. Indurkar
Dr. A. V. Bharadwaj
Dr. M. J. Dhakan.
- 'Attended 30th National conference of A. S.I. at Trivandrum on December 1981.
- Dr. Sathe
Dr. Gokhale
Dr. Motwani
- Attended all India Ophthalmic Society Annual conference held at Udaipur on 3rd, 4th, 5th January 1981.
- Department of Ophthalmology.
- Dr. Sathe
Dr. Motwani
Dr. Maniar.
- '1st Global International congress on contact Lenses, Bombay, March 1981.
- Dr. Sathe
Dr. Gokhale
Dr. Motwani
Dr. Maniar
Dr. Ginwala.
- 'Symposium on Retina & Vitreous organised by Poona Ophthalmology Association.
- Dr. Motwani
Dr. Maniar
Dr. Mehta
Dr. Gokhale.
- 'Symposium on Ocular Mobility at Ahmedabad organised by Ahmedabad Ophthalmic Society September 1981.
- Department of Physiology.
- Dr. Dabholkar
- 'Government of Maharashtra has nominated him to the State Board of Literature and Culture. Board of studies in Anatomy and Physiology of the University of Bombay has unanimously elected him as its chairman.
- Department of Pharmacology.
- Dr. Dhar
- Has been elected as President, Asian Chapter of International Association of Asthamology.
- Dr. V. N. Dadkar
- Selected as a member of Indian National committee of Inter-national union of Pharmacology. She was one of deligate on sponsored by Indian National Science academy to attend International Congress of Pharmacology held in Tokyo, Japan in July 1981.
- Dr. H. L. Dhar
- Elected Vice President of Indian Society of Clinical Pharmacology.
- Dr. V. N. Dadkar
- Elected as the Executive Committee member of Indian Pharmacological Society.

APPENDIX No. III
STATEMENT SHOWING SCHEDULE BEDS ACCORDING TO
DEPARTMENTWISE & SEXWISE.

Department	Male	Female	Children	Unclassified	Total
(A) Non-Paying Beds :					
Teaching Beds					
Medical	126	36	..	..	162
Surgical	120	36	..	..	156
Orthopaedics	36	24	12	..	72
Gynaec	..	36	..	..	36
Obstetrics and PPM	..	120	..	..	120
E. N. T. Aural	14	6	10	..	30
Ophthalmology	18	14	8	..	40
Dermatology and V. D.	12	8	6	..	26
Paediatrics Including I. P. C. U. & R. C.	..	..	115	..	115
Paediatrics Surgery	..	..	24	..	24
Psychiatrics	12	8	6	..	26
Cardiology & I. C. C. U.	14	6	..	10	30
Urology	20	2	3	..	25
Plastic Surgery	20	3	2	..	25
Neuro Surgery	10	4	2	..	16
Emergency Ward	..	..	..	10	10
AKD	..	..	..	6	6
Burns	..	..	..	16	16
Tetanus	..	..	..	16	16
C. V. T. S.	8	6	1	4	19
Total ..	410	309	189	62	970
(B) Paying Beds.					
Non-Teaching Beds.					
Medical & allied	17	9	..	..	26
Surgical & allied	17	10	..	..	27
Gynaec & Obstertrics	..	15	..	..	15
Total ...	34	34	..	..	68
(C) Beds Reserved for B. E. S. T.					
Undertaking Staff					
Medical	5	..	..	..	5
Surgical	5	..	..	..	5
Total ..	10	..	..	..	10
Grand Total ..	400	318	200	96	1,048

APPENDIX No. IV

(A) Departmentwise distribution of Inpatients and out Patients treated during the year. 1981.

Sr. No.	Name of the Department	In-Patients		Out-patients	
		1980	1981	New 1980	only 1981
1	Medical	14,877	14,943	69,708	57,467
2	Surgical	9,726	9,836	75,857	61,219
3	E. N. T.	1,486	1,498	13,704	16,573
4	Ophthalmology	1,305	1,392	13,248	16,876
5	Skin	200	186	22,010	20,978
6	Dental	...	Nil	13,449	12,435
7	Paediatrics	7,037	7,304	26,708	22,815
8	Psychiatrics	694	723	1,410	1,824
9	Orthopaedics	2,813	3,230	25,800	32,631
10	Gynaec	1,499	1,556	7,842	7,062
11	Obstetrics	7,963	8,279	11,131	10,923
12	Neuro Surgery	210	334	821	1,475
13	Cardiology	400	1,279	504	996
14	Cardio Vascular Thoracic Surgery	127	183	192	426
15	Plastic Surgery	424	449	622	837
16	Urology	537	620	519	916
17	Paediatrics Surgery	1,302	1,207	..	..
18	Raoli Camp Paediatric Ward	1,051	1,212	13,456	35,762
19	Sarvodaya Hospital	54	370	..	..
20	Remained on the last day of the previous year as on	1,008	1,136	..	..
		31-12-79	31-12-80		
	Total	52,713	55,737	2,97,009	3,01,215

(B) Results of treatments.

Hospital.	Cured.	Relieved	Other-wise	Delivered	Expired
L. T. M.G. Hospital & Annapurnabai Deshmukh Hospital for women	7,423	37,949	5,125	5,520	4,231

(C) Classification of deaths according to their time of admission. :

within 24 hours of admission	After 24 hours of admission but within 3 days.	After 3 days of admission	Total deaths.
1,346	1,059	1,826	4,231

APPENDIX NO. V

List of persons who have donated Rs. 500 and above during the year 1981-82.

Serial No.	Name of the Party	Amount	
		Rs.	P.
1	D. H. Secheron & Electrodep	501.00	
2	Controller of the House held to the Govt. of Maharashtra. ..	1,000.00	
3	Gayatri Pariwar Trust	500.00	
4	State Bank of Soveraltra	500.00	
5	Shri V. O. Mehta	500.00	
6	Smt. Hiraben C. Shah	4,200.00	
7	Shri Chaimani	1,000.00	
8	Shri C. P. Gabhave	1,001.00	
9	A. Well Wisher	2,500.00	
10	Innerwheel club of Bombay	700.00	
11	Mokalbari Kanoi T. E. Pvt. Ltd. Calcutta	10,000.00	
12	Somia Jalkar	1,001.00	
13	Shri M. D. Kanoi	2,000.00	
14	Lions Club of Sion	4,040.00	
15	Lion Club of Sion	1,651.00	
16	Shri Asha K. Wadhwa	1,000.00	
17	Bombay North Robnd Table No. 19	960.00	
18	Shri Dilip Hashavji	2,500.00	
19	Messrs. Inerwheel	1,500.00	
20	Messrs. Datta	600.00	
21	Shri Kishudas P.	500.00	
22	Lion Club of Sion	800.00	
23	Lion Club of Sion	1,000.00	
24	Lion Club of Sion	1,900.00	
25	Lion Club of Sion	750.00	
26	Lion Club of Sion	5,000.00	
27	Amrutlal Gandhi	501.00	
28	Hanju Patwo	1,000.00	
29	Totary Club of Bombay	600.00	
30	Shri Ranjana	1,000.00	
31	Anil Sheth	501.00	
42	Lion Club of Sion	1,000.00	
34	Manglik Mandal	550.00	
34	Bhavant Mitra Mandal	1,500.00	
35	Prachor Mandla	501.00	
36	Gandhi Market Merchant Welfare	877.00	
37	Lion Club of Ghatkopar	1,000.00	
38	Mentri Mandal Trust	1,000.00	
	Total Donation below Rs. 500	8,751.00	
	Total ..	66,215.00	

APPENDIX VI

Expenditure Per In-Patient and Per Out-Patient per day.

Year	Diet	Medicines Drugs Equipments	Stores and Linen	Miscella- neous	Repairs to Bldg.	Establish- ment	Total
-Patient—							
1980-81 ..	6.70	16.86	4.01	4.27	6.77	36.81	75.42
1981-82 ..	4.34	17.25	5.60	7.19	42.9	43.77	82.44
Out-Patient—							
1980-81 ..	Nil	4.41	1.05	1.12	1.77	9.64	17.99
1981-82 ..	Nil	4.95	1.61	2.60	1.23	12.57	22.42

APPENDIX NO. VII

Prizes and Awards received by the students during the year 1981.

- | | | |
|------|---|---|
| (1) | Dr. R. S. Tembe, Prize for standing first in final M.B.B.S exam. held in Nov. 1981. | Shri Pichai Suryanarayan. |
| (2) | Smt. Shantabai K. Rao Prize for standing first in medicine in final M.B.B.S. Exam. held in Nov. 81. | Shri Vaidya Sanjay S. |
| (3) | B. R. Damle memorial Gold Medal in Medicine. | 1st prize Shri Vaidy S. S. & Miss Monita Kapur No. second prize. |
| (4) | B. R. Damle Memorial Gold Medal in Preventive & Social Medicine | No suitable candidate. |
| (5) | Dr. G. M. Phadke Memorial Award in Surgery. | 1st Prize—Shri Godbole N. V.
2nd Prize—Saikshwar Natrajan. |
| (6) | Dr. G. M. Phadke Memorial Award in Pharmacology. | 1st prize—Shri Chaitanya Mudgul.
2nd prize—Miss Surekha Mahabal |
| (7) | Dr. B. M. Bhargava Memorial Prize in Obst. and Gyn. | 1st prize—Miss Meera Nair.
2nd Prize—Mana Rahurkar. |
| (8) | Dr. B. M. Bhargava Memorial Prize in Anatomy. | 1st Prize—Miss Anita Bapat.
2nd Prize—Shri Rajesh Sawargoan kar. |
| (9) | Dr. C. M. Gadre, Memorial prize in E. N. T. | 1st Prize—Shri Gadre Arun K.
2nd Prize—Shri Saileshwar Natrajan |
| (10) | Dr. C. M. Gadre Memorial Prize in Physiology. | No suitable candidate. |
| (11) | Shri Hemant Kelkar Prize for standing first—in Merit amongst the students registered for M. S. (Gen. Surgery) in November 1981. | Shri R. B. Gupta. |

APPENDIX NO. VIII.

Performance Targets and Achievements.

Activity	Name	Targets.		Achievements.	
		Out-pts.	In-pts.	Out-pts.	In-pts.
1	Administration	..	..	..	..
2	Medicine	76,602	14,852	72,795	14,054
3	Surgery	82,706	12,281	66,793	11,888
4	Gyn. & Obst.	20,167	9,831	18,368	9,820
5	Paediatric	41,689	8,445	38,518	8,430
6	Casualty	27,972	..	28,815	..
7	Orthopaedics	24,689	2,943	33,195	3,422
8	E. N. T.	15,206	1,201	17,114	1,207
9	Ophthalmology	13,457	1,300	17,295	1,238
10	Skin & V. D.	22,753	229	20,918	175
11	Psychiatric	1,461	705	1,801	700
12	O. T. Treatment P. T. Treatment	1,37,132	2,04,295	1,25,069	2,30,139
13	Dental	13,538	..	12,994	..
14	Dispensary	6,12,790	..	4,79,995	..
15	Social Service	41,252	..	33,120	..
16	Paying Ward	..	1,253	..	1,430
17	Radiology No. of X-Ray Plates	..	1,04,168	..	1,18,860
18	Blood Bank—	..	..	..	..
	(i) No. of Collection of blood bottles	..	6,801	..	8,549
	(ii) No. of blood bottles issued	..	6,490	..	8,172
19	Pharmacy—	..	..	..	..
	(1) No. of infusion bottles	..	95,769	..	52,943
	(2) No. of voils	..	28,530	..	57,341
20	Emergency & Accident Service—	..	..	..	..
	(1) No. of patients admitted	..	2,214	..	2,293
	(2) No. of calls attended	..	705	..	492
21	Lab. Service Total Investigations	..	4,42,821	..	3,71,548
22	Anaesthesiology No. of patients	..	18,070	..	11,363
23	Operation Theatre	..	..	..	..
	Operation performed	31,710	18,240	44,762	16,796
24	Cardiology	504	426	995	1,360
25	Municipal Staff No. of staff given drugs	43,095	..	48,656	..
26	Ambulance service	Ambulance service included in Emergency Service.			
27	Nursing School; No. of students given Nursing Training	..	240	..	255

THE NAIR HOSPITAL DENTAL COLLEGE

High Lights—

(i) Income .. Rs. 3,68,549.16 (ii) Expenditure Rs. 48,62,422.34

Students Section : University Examination Results.

Examination.	Total No. of students appeared.		Total No. of students passed.	
	April 1981	October 1981	April 1981	October 1981
I—B.D.S.	58	21	36	18
II—B. D. S.	55	07	51	04
III—B. D. S.	59	18	44	16
IV—B. D. S.	20	29	13	19
Total	192	75	144	57
I—M. D. S.	13	01	13	01
II—M. D. S.	10	13	07	06
Total	23	14	20	07

Patients Treated :

(i) Out-Patients : 1,53,505.

(ii) Daily average .. 497.

The College conducts 4 years course in Dentistry leading to the Degree of Bachelor of Dental Surgery as also Post-graduate course in 7 Dental subjects leading to the Degree of Master of Dental Surgery of University of Bombay.

Educational Activities and Seminars :

During the year three eminent specialists in various branches of dentistry visited the college and delivered lectures in the respective subjects for the students and the staff of this college. Prof. A. R. Macregor, Chairman, Department of Prosthodontics, University of Glasgow, Dental School U. K., gave a talk on "Tempor mandibular Joint Dysfunction." Dr. Theodore L. West, Associated Clinical, Professor of Periodontics & Oral Medicine, Fairleigh Dickinsen University, School Dentistry, New Jersey, U. S. A., delivered Lecture on "Splinting in Periodontics.", "Dr. Pramod M, Soparkar Associate Professor, Forsyth the Dental Centre, Boston, U.S.A., delivered Lecture on "Research and Development of the Forsyth the Dental Centre." U S. A.

These specialists also had exchange of thoughts and discussions on various problems of teaching and research with the staff members of this college. Discussions were very valuable and revealing to all.

Hostel :

Nair Hospital Dental College Hostel for boys and for girl students has been started from 1st July 1976 and from 28th November 1977 respectively.

Library :

During the year, 384 books have been added to the collection totalling to 6136 books and 1620 bound periodical volumes. Currently, the Library subscribes to 70 journals and holds a total of 95 periodical titles and 208 dissertations. Copies of the Library's periodical holdings are available. The Library also has a special collection of National Technical Information Services Reports, from U. S, A. In addition the Library also provides an index to world dental literature.

Special Equipments :

The College has 200 Dental Chairs, 166 Dental Units, 120 Bench type Engines, up to date Operation theatre, latest dental drilling equipment including Kavo Airotors and Airmotors 3 Nos. Densply cavitron Dental prophylactic Unit and 1 No., CS-76 Cryosurgical System Unit.

There are 4 X-Ray Units including Ergophos-4F, 200 M. A. X-Ray Unit, with Tomographic facilities for the treatment of the Dental Patients. Haliotdent 60 for Intra-Oral X-Ray and Super practixt (Philips) X-Ray Unit Statux 'X' Mobile X-Ray Unit have been added to facilitate panoramic radiography, General radiography and Tomography for teaching under-graduate and post-graduate students and also for the benefit of the patients.

The College has a ward of 12 beds (Male 6 and Female 6) specifically for Dental in-patients. The number of patients admitted during the year 1981-82 was Male Patients-1919, Female Patients. 995, Male Children-242 and Female Children-119 i.e. in all 3275 patients were treated in the Ward.

The Staff engaged for the services in College is 414, para Dental 20, Non-Medical-271, Dental 99 and Medical-24.

Resume of Work done in the College :

The total number of dental out-patients treated in different dental clinics was 1,53,505 including School Children from the Municipal Schools in the morning as well as in the evening clinics which include 72,825 males, 49,121 females and 31,559 children. In addition to the above patients, the number of patients treated in the dental camps was 1,362. The details of work carried out in different departments are given in the appendices 'A' to 'L' attached herewith.

During the year a revenue of Rs. 3,68,549.16 was collected by way of fees from the students and charges from the patients. The total expenditure incurred is Rs.48,62,422.34 as against Rs. 38,65,596.00 during the preceeding year.

Poor Box Collection was Rs. 31,279.00.

During the year 7 dental camps were arranged by the Institution.

DR. S. T. TALIM, B.D.S., M.D.S.
Dean,
Nair Hospital Dental College.

APPENDIX ' A '

Summary of yearly Report of the Clinical work from 1-4-1981 to 31-3-1982.

Serial No.	Description	Departments	Total
1	New Patients	..	49,562
2	Old Patients	..	1,03,943
3	Total Patients	..	1,53,505
4	Male	..	72,825
5	Female	..	49,121
6	Children	..	31,559
7	Silver Fillings	..Operative & Pedo.	11,451
8	Root Canal Fillings	..	1,031
9	Jacket Crown	..	505
10	Gold Inlays	..	155
11	Fixed Bridge	..Oper. & Prost.	451
12	Scalings	..Perio. & Pedo.	12,221
13	Gingivectomy and Gingivoplastry	..Periodontia.	379
14	Extractions	..Oral Sur., Exo. and Pedo.	48,452
15	3rd Molar Impactions	..Oral Surg. and Exo.	65
16	Surgical treatment for—	..	
	(a) Cyst	..Maxillo facial Deptt.	62
	(b) Fracture of the Jaw.	..	..
	(c) Cald. Well Luc	..	..
	(d) Hemi mandibulactomy and Osteotomy	..	..
	(e) Cleft Palat	..	..
	(f) Cleft elip	..	..
	(g) Condylectomy	..	..
	(h) Tumours	..	..
	(i) Maxilectomy	..	..
	(j) Plastic Reconstructive Surgery	..	..
17	Transplantation of the teeth.	..	..
18	Re-plantation of the teeth.	..Operative	52
19	X-Rays	Radiology.	9,572
20	Fixed appliances for Ortho. treatment	..Orthodontia	2,550
21	Removal appliances for Orthotreatment.	..	..
22	Full dentures	..Prosthetic	1,371
23	Partial dentures	..	734
24	G. A. Cases	.. Pedo. & Oral Surgery.	1,386
	Total Collection of Rupees.	..	2,30,153
X-Ray Film A/c.—			
(1)	Extra-Oral	..	2,861
(2)	Intra-Oral	..	20,822
(3)	Occlusal	..	232
(4)	Panagarph	..	613
(5)	Child	..	198
	Grand Total	..	24,726

APPENDIX ' B '

Maxillo-Facial and Oral Surgery Department

List of Operations done during 1981-82

(A) Oral Surgery—

Serial No.	Description	Departments	Total
1	New Patients	Maxillo-facial and Oral Surgery,	1961
2	Old Patients	"	5160
3	Total Patients	"	7121
4	Male	"	4516
5	Female	"	1949
6	Children	"	656
7	Impactions	"	570
8	Biopsy	"	48
9	Oro-antral Ftstula	"	35
10	Cyst	"	62
11	Fracture	"	110
12	Cald-Well-Luc	"	13
13	Apicetomy	"	48
14	Alveolectomy	"	17
15	Alveolar Abscess	"	100
16	Hemimandibulectomy	"	3
17	Osteotomy	"	40
18	Currettage	"	31
19	Vestibuloplasty	"	23
20	Hare Lip	"	3
21	Skin Graft	"	4
22	Bone Graft	"	15
23	Condylectomy	"	11
24	Sub Luxation of T. M. Joint	"	10
25	Gland Excision	"	15
26	Benign-Tumours	"	30
27	Neurectomy	"	14
28	Arthroplasty	"	9
29	Maxilectomy	"	2
30	C. L. W.	"	5
31	Frenectomy	"	10
32	Plastic Reconstructive Surgery	"	62
33	Rhynoplasty	"	4
	Operations under G. A.	399	
	Operations under L. A,	895	
	Total	1294	

APPENDIX 'B'—(Contd).

(B) EXODONTIA DEPARTMENT.

Clinical Yearly Report from 1st April 1981 to 31st March 1982.

Serial No.	Description	Morning	Evening	Total
1	New .. .. .	..	..	26,589
2	Old .. .. .	..	..	19,767
3	Total Patients .. .. .	..	..	46,356
4	Male .. .. .	..	..	27,710
5	Female .. .. .	..	..	17,682
6	Children .. .. .	..	..	964
7	Consultation .. .. .	..	..	3,697
8	Prescription .. .. .	..	..	7,982
9	Teeth Ext. .. .. .	..	..	39,060
10	G. A. Ext. .. .. .	..	..	..
11	Root Exts. .. .. .	..	..	1,073
12	X-Ray .. .. .	..	..	1,565
13	Medication .. .. .	..	..	..
14	Abscess Incised .. .. .	..	..	19
15	Alveolectomy .. .. .	..	..	66
16	Flushing .. .. .	..	..	158
17	Flab Removed .. .. .	..	..	52
18	Impacted Third Molar .. .. .	..	..	103
19	Suture removed .. .. .	..	..	404
20	Excision of Epulis .. .. .	..	..	..
21	Dressing. .. .. .	..	..	3
22	Cyst Operations .. .. .	..	..	..
23	Free .. .. .	..	..	5,531
24	Rupees .. .. .	..	..	36,714

APPENDIX 'C'

DEPARTMENT OF ORAL PATHOLOGY AND BACTERIOLOGY.

Administrative report from 1st April 1981 to 31st March 1982.

Serial No.	Description.	Total
1	Pathology Biopsies.	31
2	Surgical Biopsies.	253
3	Total No. of Biopsies.	284
4	No. of Paraffin Blocks.	370
5	Recutting of Blocks.	60
6	No. of Teeth Blocks. (embryo)	40
7	Total No. of Blocks cut.	470
8	Total No. of Paraffin slides.	1,880
9	No. of Slides routine stain	550
10	No. of Slides special stain.	268
11	Total No. of Slides Stain	818
12	No. of Ground Sections.	40
BLOOD INVESTIGATION		
Haematological :		
13	No. of Haemoglobin.	1,102
14	Bleeding time.	1,080
15	Clotting time.	1,080
16	No. of WBC (Total Count.).	1,042
17	No. of White Cell Morphology.	1,042
18	Platelet count.	70
19	Erythro cyte Sedimentation Rate.	82
20	Grouping and cross matching. ... .. .	..
Biochemical Investigations :		
21	Blood Sugar.	120
22	Bloodurea nitrogen.	95
23	Seruma Alkaline Phosphatase.	31
24	Seruma Calcium Phosphatase.	31
25	Seruma Cholesterol.	02
26	Seruma Bilirubin.	04
27	Blood S. G. O. P. To.	07
Serological Investigation		
28	V. D. R. L.	82
Bacteriological Investigation :		
29	Culture & Sensitivity.	60
Urine Investigation :		
30	Urine Sugar.	1,056
31	Urine Albumin.	1,056
32	Urine Bile Salt & Pigment.	1,192
33	Urine Microscopic.	1,056

APPENDIX 'D'

ORAL DIAGNOSIS AND RADIOLOGY DEPARTMENT

Annual Report from 1st April 1981 to March 1982

Details of Radiography taken and Reported

Month	Extra-Oral Films	Intra-Oral films	Occlusal films	Pana graph films	Child films	Total number patients
April 1981	.. 472	1812	14	..	..	1004
May 1981	.. 282	1594	33	..	..	936
June 1981	.. 251	1661	14	40	..	987
July 1981	.. 324	2115	17	75	..	1374
August 1981	.. 149	1720	14	73	97	1240
September 1981	.. 259	1684	25	55	19	1213
October 1981	.. 287	1695	14	47	14	1097
November 1981	.. 228	2098	24	57	32	1402
December 1981	.. 187	1803	22	81	18	1417
January 1982	.. 86	801	20	116	22	870
February 1982	.. 184	314	19	45	13	996
March 1982	.. 162	1430	16	24	13	1098
Total	.. 2871	20822	232	613	198	13606

APPENDIX 'E'

DEPARTMENT OF PERIODONTOLOGY.

Clinical Report from 1-4-1981 to 31-3-1982.

Serial No.	Description	Morning	Evening	Total
1	New Patients	...	..	8,688
2	Old Patients	...	..	16,436
3	Total Patients	...	..	25,124
4	Male	...	..	15,532
5	Female	...	..	9,142
6	Children	...	..	442
7	Consultation	...	..	8,320
8	Medication	...	..	932
9	X-Ray	...	..	752
10	Scaling (Seating)	...	..	7,689
11	Completed Cases (Scaling)	...	..	3,339
12	Free	...	..	409
13	Curettage	...	..	272
14	Gingivectomy	...	..	377
15	Free ...	...	..	2
16	Other Periodontal Operations	...	..	...
17	Pack placed or Removed	...	..	464
18	Impressions	...	..	19
19	Splints ...	...	..	...
20	Occlusal Adjustments	...	..	..
21	Acute Infections	...	..	...
22	Flap Operation	..	..	133
23	Intra-masculer Injection	...	..	80
24	Amount collected . (Rupees)	...	..	26,005

APPENDIX 'F'

DEPARTMENT OF OPERATIVE DENTISTRY
Clinical Yearly Report from 1-4-1981- to 31-3-1982.

Serial No.	Particulars	Total.
1	Old Patients	25,223
2	New Patients	4,761
3	Total Patients	29,984
4	Male	17,298
5	Female	12,686
6	Medication	1,438
7	Consultation	5,456
8	X-Ray paid (Intra-Oral)	4,178
	In tra-Oral X-Ray Free	1,450
9	Zinc cement Filling	6,277
10	Cavity Cutting.	6,277
11	Ag. Filling Paid.	5,011
12	Filling Ag. Free	1,263
13	Total Ag. Filling	6,274
14	Porcelain Filling paid.	164
15	Porcelain Filling Free	77
16	Total Porcelain Filling	241
17	Gold Inlays Paid	101
18	Free Cast Inlays	53
19	Total Cast Inlays	154
20	Full Crown paid.	229
21	Free Crown/Bridge	199
22	Total Crown/Bridge	428
23	Jacket Crown Paid	310
24	Free Jacket Crown	179
25	Total Jacket Crown	489
26	Root Canal Treatment paid	600
27	Root Canal treatment Free	327
28	Total Root Canal	927
29	R. C. Dressing	2,212
30	Pulp Capping	352
31	Paid Pulpotomy.	66
32	Pulpotomy Free.	32
33	Apicectomy Paid.	49
34	Apicectomy Free.	33
35	Dowel Paid	66
36	Free Dowel	49
37	Total Dowel	115
38	J. C. Gold Backing paid.	24
39	Amt. Collected Rupees.	51,009
40	X-Ray Amount Rupees.	8,356

APPENDIX 'G'
ORTHODONTIA DEPARTMENT
Clinical Annual Report for the year 1-4-1981 to 31-3-1982.

Sl.No.	Particulars	Total
1	New patients' Visits (Consultation)	597
2	Old Patients' Visits	9,687
3	Total Visits	10,284
4	Male Adults	2,639
5	Female Adults	4,811
6	Children	2,834
7	Impressions	1,174
8	X-Rays	648
9	Cephalograms	438
10	Photographs	80
11	New Patients' Treatment Started	293
12	Space Maintainers Given	18
13	Fixed Appliance New Patients	128
14	Removable Appliance New Patients	165
15	Fixed Appliance Adjustments	1,180
16	Removable Appliance Adjustments.	1,077
17	Special Appliances. ... .. .	...
18	Extra Oral Appliances.... .. .	...
19	Retention Plates (Complete Cases)	52
20	Check-up Done	5,565
21	Amount Collected Rs.	Rs. 51,278/-

APPENDIX--'H'

PEDODONTIA DEPARTMENT

Yearly report from 1st April 1981 to 31st March 1982.

Serial No.	Description	Total
1	New Patients	5,785
2	Old Patients	20,735
3	Total Patients	26,520
4	Consultation	4,316
5	Medication	4,276
6	X-Rays	959
7	Cavity cutting Zno. filling	4,685
8	Silver Filling	1,781
9	Silicate Filling	3
10	R. C. Filling	104
11	Jacket Crown	16
12	Pulp capping	112
13	Pulpotomy	255
14	Scaling and polishing	784
15	Extraction	9,392
16	Apicectomy	14
17	Flouride	6
18	Complete Treatment under G. A.	92
19	Checkup Kamatipura schools .. .. .	..
20	Dowel	2
21	Lower and Upper S. M. Dilivered	2
22	Ag. Free	2,396
23	New cases checkup society for education, Agripada, .. .. .	..
24	Municipal School .. .. .	..
25	Ag. Grand Total	4,177
26	Fisher Filling	10
27	Cosmis Filling	2
28	Gold Inlay	1
29	Steel Crown	1
30	Space Maintainer	3
31	Spilnat	1
32	Partial Denture Dilivered	3
33	Flap Operation	1
34	Checkup done	525

APPENDIX 'I'

PROSTHETIC AND CROWN AND BRIDGE DEPARTMENT

Annual Report from 1st April 1981 to 31st March 1982

Serial No.	Description	Total
1	New Patients.	1,181
2	Old Patients.	6,925
3	Total Patients.	8,106
4	Male Patients.	5,079
5	Female Patients.	2,892
6	Children.	135
7	Consultations.	2,589
8	Complete dentures.	1,009
9	Partial dentures.	554
10	Repair of dentures.	322
11	Crown & Bridge treatment.	18
12	Obturator & Cleft palate.	5
13	Relining & Rebasings.	15
14	Other Mechanical appliances (Mandibulotomy, T. M. Joint, Training flange, Bite raising etc.)	7
15	Immediate dentures.	5
16	Total Collection (Amount).	49,272
Free Work done during the Year :		
	Complete dentures.	357
	Partial dentures.	180
	Repair of dentures.	61
	Crown & Bridge.	5
	Obturator.	2
	Relining & Rebasings.	15
	Other Mechanical Appliances	3
	Total amount collected through poor box by receipts.	2,312

APPENDIX 'J'

Report of the Dental Camps for the year 1981 to 1982.

Month	Patients treated
April 1981 }	No Camp.
May 1981 }	
June 1981 }	
July 1981	174
August 1981	242
September 1981 }	No Camp.
October 1980 }	
November 1981	86
December 1981	42
January 1982	18
February 1982	87
March 1982	31
Total	1362

APPENDIX 'K'

List of Scientific Publication and Papers read during the year 1981-82.

OPERATIVE DENTISTRY

Doctor	Subject	Particulars
Dr. S. T. Talim .. Dr. A. S. Khatawkar	A Roentgenographic Evaluation of Periapical Healing following Treatment with Prednisolone and Calcium Hydroxide.	Jl. of Indian Dental Association 53 ; 105 ;—108—April 1981.
Dr. S. T. Talim ..	Clinical Evaluation of Copper based Non-Precious Costing Ally.	J. I, D. A, —53 ; 225—226—1981—July 1981.
Dr. S. T. Talim ..	Radio Talk on "Dental Health"	Bombay 1982.
Dr. D. R. Shahani .. Dr. R. J. Gawankar	Comparative study of non-Surgical and Surgical management of pulpless teeth with periapical fesiions.	Published in I. D. A, 53 ; 261-263-1981.
Dr. D. R. Shahani .. Dr. S. N, Soparkar ..	Study of Endometric using paralleling technique with grid for endodontic treatment.	Research conducted 1981.
Dr. D. R. Shahani ..	Study of bacterial invasion in Human nonvital dentin.	Do.
Dr. D. R. Shahani .. Dr. H. D. Gosain ..	Recent trends in use of chemical agents for intra canal irrigation-chelation and medication for endodontic therapy,	Paper sent for Publication to I.D.A.
Dr. S. T. Talim .. Dr. H. Walia	Cross infection in Dentistry with particular reference to Research bacterial contamination of conventional and Air Rotor hand pieces.	Research conducted 1981.

PERIODONTOLOGY

Dr. I. R. D'Silva .. Dr. R. P. Nayak	Current status of periodontal OSSEOUS SURGERY.	Paper presented at the Vith Annual Conference of Indian Society of Perio. held in Madras.
Dr. P. K. Bhambhani Dr. R. P. Nayak	An evaluation of different oral hyginene aids.	Bulletin of Indian Society of Perio. No. 15, No. 2—1981.
Dr. R. P. Nayak .. Dr. I. R. D'Silva	Specialist practice of periodontics in India.	Bulletin of Indian Society of Perio. No. 15—1981.
Dr. H. N. Vijayakar Dr, R, P, Nayak	Prevalence of dental Disease in a section of a middle class population of (South) Bombay, Part-I.	Dental dialogue Vol. I V-III, No. I and II, 1981.
" PROSTHETIC & CROWN & BRIDGE "		
Dr. F. D. Mirza ..	Clinical Concepts in Implantology	Paper presented at the Hellinic Congress on oral Implantology held at Athens, Greece from 26th June 1981 to 28th June 1981.
Dr. F. D, Mirza ..	Efficacy of Dental Implants	.. Paper presented at the 9th Indian Prosthodontic Society Conference held at Lucknow on 13th and 14th November 1981, was awarded first prize of £ 100.00 for best Scientiliv paper.
Dr. F. D. Mirza ..	Newer Concepts in Prosthodontics	Paper read in the 37th Indian Dental Association Conference held in New Delhi on 27th December-1981.
Dr. J. V. Dikshit .. Dr. F. D. Mirza .. Dr. F. D. Mirza .. Dr. J. V. Dikshit .. Dr. F. D, Mirza .. Dr. J. V. Dikshit .. Dr. N. S. Muradia.	Changing Concepts in complete Denture Prosthesis.	Journal of Indian Association No.53, November 1981, pages 263-265.
Dr. J. V. Dikshit .. Dr. F. D, Mirza ..	Changing Concepts Fixed Prosthodontics.	Journal of Indian Prosthodontic Society (Under Publication).
Dr. J. V. Dikshit .. Dr. N. S. Muradia.	Effectiveness of Denture Adhesives at Various Time Intervals.	Journal of Indian Dental Association (Under Publication).
Dr. A. A. Rahmatulla	Role of Retentive Grooves in complete cast crowns.	Presented at the 36th Indian Dental Conference at Ashoka Hotel in New Delhi, held from 27th uptill 30th December 1981.
Dr. A. A. Rahmatulla	Psychological Considerations in Complete Denture Services.	Published in the Journal of Indian Dental Association, Vol, 54, January 1982, pages 7-10.

**ORAL ANATOMY HISTOLOGY,
ORAL PATHOLOGY AND MICROBIOLOGY**

- Dr. A. P. Bhatt .. Contributors in the book compen- Published by Indian Dental Asso-
Dr. H. M. Dholakia .. dium of Oral Diseases. ciation 1981.
Dr. (Smt.) V. R. Brave
Dr. (Smt.) L. S. Poonja.
- Dr. A. P. Bhatt .. Differential Diagnosis of Palatal Paper presented at VII Maxillo-
Lesion. facial Conference at New Delhi
in December 1981.
- Dr. A. P. Bhatt .. Symposium on Dentifrice .. At annual conference of Maha-
rashtra State Dental Association
held at Thane in November 1981
- Dr. A. P. Bhatt .. Symposium on Oral Diagnostics .. Spring convention Maharashtra at.
State Dental Association held on
February 1982, at Kolhapur
- Dr. A. P. Bhatt .. Dentinogenesis imperfecta .. J. I. D. A. April-1981.
Dr. (Smt.) V. R. Brave
Dr. H. M. Dholakia
- Dr. A. P. Bhatt .. Dens invaginatus : Its prevalence Dental Dialouge December 1981.
Dr. H. M. Dholakia .. in 1000 Indian patients.
Dr. (Miss) Geeta Madan
- Dr. A. P. Bhatt .. Focal epithelial hyperplasia .. J. I. D. A. May, 1981.
Dr. (Smt.) L. S. Poonja
Dr. H. M. Dholakia

ORAL DIAGNOSIS AND RADIOLOGY

- Dr. (Mrs.) B. K. Parikh Accanthosis Nigricans .. Journal of Oral Maolicine 37 : 18
Dr. S. A. Jakhi .. 20 : January-March 1982.
- Dr. M. N. Risbud .. Radiographic Comparision of Root Journal of the Orthodontive Socity.
Dr. S. A. Jakhi. resorption following orthodontic 13 : 1-6-1181.
treatment by removable and Fixed
appliances.

APPENDIX ' L '

Prizes and Awards won by the Staff and Students of the College

Serial No.	Name of the Student	Name of Prize
' ACADEMIC '		
1	Dr. E. V. Rodriques ..	IV B.D.S. Best student Award.
2	Shri M. D. Deshpande ..	I B.D.S. Silver Jubilee Scholarship.
3	Miss. S. S. Bhat ..	II B.D.S. Do.
4	Miss. P. N. Parekh ..	III B.D.S. Do.
5	Dr. E. V. Rodriques ..	IV B.D.S. Do
6	Miss. P. N. Parekh ..	III B.D.S. Dr J N Dubhash Scholarship.
7	Dr. E. V. Rodriques ..	IV B. D. S. Dr. P, P, Shahni Scholarship.

Best student award delivered by Medical Welfare Trust.
One Male and One for Female.
Male prize was shared between

- (1) Dr. E. V. Rodriques.
(2) Dr. S. G. Karandikar.
Female prize was delivered to.
(1) Dr. (Miss) K. H. Mirchandani.

G. T. B. Hospitals

T. B. CONTROL PROGRAMME

HIGH-LIGHTS OF THE YEAR 1981-82.

I The services aim at the following :

1. To ensure proper control and effective working of the Anti-T. B. activities conducted by various agencies in Greater Bombay to bring this disease under reasonable control.
2. To give concentrated attention to the management and implementation of the measures to be adopted in the control of the disease.
3. To co-ordinate and manage the whole T. B. programme.
4. To remove short-falls which are in existence in the control programme.
5. Research work.

Achievements :

Six Up-graded General Dispensaries which were adopted as Area Tuberculosis Centres have been replaced by full fledged T. B. Clinics at Suburban General Hospital. Four Area Tuberculosis Centres have been added to the present strength of 16 Area Tuberculosis Centres raising the total to 20 Area Tuberculosis Centres in Greater Bombay.

II.—Expenditure :

	Rs.
1. Total Expenditure	2,04,62,781.00
2. Amount spent on In-patients	1,92,55,033.00
3. Amount spent on Out-patients	24,79,554.00
4. Average cost per day on—	
(i) In-patient	45.69
(ii) Out-patient	10.90

III.—Significant Activities :

1. Schedule Bed Strength	1,330	G. T. B. Hospitals Sarvodaya Hospital Ghatkopar.
	+ 350	
	1,680	
2. Admissions	12,532	
3. Daily average of In-patients	1,154	
4. Out-patients at Clinics	17,176	
5. Average stay of patient in the hospital	1 ½ months.	
6. Operations carried out during the year	157	
7. Health visits paid	4,396	
8. Patients advised hospitalization, by Board	349	
9. Patients covered under City Tuberculosis Programme	37,179	
10. Patients under treatment at Municipal Centres	29,700	

The Group of T. B. Hospitals is administered by the Medical Superintendent with the help of Deputy Medical Superintendent and Assistant Medical Officers.

Treatment to T. B. 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 T. B. Clinic, Samaldas Gandhi Marg, Bombay 2.
- (4) Municipal T. B. Clinic, Balaram Street, Bombay 8.
- (5) Municipal T. B. Clinic, Khar, Bombay 52.
- (6) Municipal T. B. Clinic, Nawab Tank, Bombay 10.
- (7) Municipal Sub-T. B. Clinic, K. B. H. K. Bhabha Hospital, Kurla, Bombay 70.
- (8) All Free Municipal General Dispensaries and T. B. Sections in General Hosps. (City & Suburbs, extended Suburbs.)

In addition to above, the Corporation have hired 350 beds for T. B. Patients at the Sarvodaya Hospital at Ghatkopar, where in-patients are treated.

Thus, the total bed strength of both the Municipal and hired beds comes to 1,680, as under :—

G. T. B. Hospitals—	Male	Female	Children	Total
Medical Ward ...	852	250	35	1137
Surgical Ward ...	131	62	...	193
	983	312	35	1330
Sarvodaya Hospital, Ghatkopar (Hired beds) ...	200	150	...	350
Total ...	1183	462	35	1680

After discharge, 8,820 patients attended the hospital for follow-up.

G. T. B. Hospitals—

Patients			Discharged			Remained at the end of the year
From previous Year	New Admissions	Total	Cured	Otherwise	Died	
994	12,532	13,526	9,891	994	1,526	1,115

Mortality figures revealed the high incidence in the age-group of 30-35 years. Ratio of death to total patients treated was 11.3 percent.

Municipal T. B. Clinics—

The six T. B. Clinics serve as Diagnostic and Treatment Centres for Pulmonary Tuberculosis patients. They also serve as Out-patient Centres, for admissions to the Group of T. B. Hospitals at Sewri, or to Sarvodaya Hospital at Ghatkopar.

Out patients attended and treated during the year—

Names of the clinics	No. of patients attended	T. B. Cases	Non-T. B. Cases
(1) R. D. T. B. Clinic, Dadar ...	5,451	4,201	1,250
(2) Samaldas Gandhi Marg T. B. Clinic ...	7,204	1,171	6,033
(3) M. M. Munshi T. B. Clinic, Khar ...	11,073	6,287	4,786
(4) Balaram Street, T. B. Clinic ...	4,393	1,759	2,634
(5) Nawab Tank T. B. Clinic ...	1,509	842	667
(6) Sub-T. B. Clinic, at Bhabha Hospital, Kurla ...	4,086	2,916	1,170
	33,716	17,176	16,540

Sarvodaya Hospital, Ghatkopar :

The following beds were reserved in Sarvodaya Hospital, Ghatkopar by the Corporation—

For TB patient	350
For Orthopaedic	500

Patients			Discharge			Remained at the end of the year
From previous year	New Admissions	Total	Cured	Otherwise	Died	
284	1,005	1,289	817	...	213	259

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 incidental expenses. Amount of Rs. 47,619.00 was collected for the Poor Box Charity Fund of the hospital & Clinics during the year.

Teaching—

The Group of T. B. Hospitals and T. B. Clinics continued to be recognised for Diploma course in T. D. D. by the college of Physicians and Surgeons and for Degree Course in M.D. (Tuberculosis and Chest Diseases) by the University of Bombay, so also for D. P. H. (Bombay University) and Homoeopathy students. Clinical instructions are imparted to under-graduate students of G. S. M. College, Parel & L. T. M. M. College, Sion.

City Tuberculosis Programme—

The Municipal Corporation of Greater Bombay have established City Tuberculosis Programme in Greater Bombay on behalf of State Government. The Central Government gives free supply of Anti-T. B. Drugs to the City Tuberculosis Programme of the Corporation. It is also under consideration of the Central Government to grant "X-Ray machines with Odelca Camera" for T. B. Clinics.

For proper implementation of this programme, Greater Bombay has twenty centres (Area Tuberculosis Centres) for diagnosis & treatment. Two are managed by State Govt. and one by the Maharashtra State Anti-Tuberculosis Association and the remaining 17 by the Municipal Corporation. Work at all these centres is co-ordinated by Medical Supdt., with the assistance of Medical Officers, T. B. Clinics and Assistant Health Officer (T. B.) as a City Tuberculosis Officer and the staff consisting of 4 T. B. Inspectors, 88 Treatment Organizers, 15 Health Visitors and 1 B. C. G. Team Leader. This staff is engaged on case-findings, case-holding and for defaulter-action. Summary of work done in this respect is given in Table 2.

2. Following are the upgraded dispensaries, Peripheral Centres (T. Cs.) and B. C. G. Vaccination Centres covered by each A. T. C.

Ward	Area (Sq. km.)	Population	Name of the A. T. C.	No. of upgraded dispensaries peripheral centres (T. Cs.) and B. C. G. Vaccination Centres covered by each A. T. C.		
				Upgraded Disp. having facilities of screening & Lab.	Peripheral Cent. (T. B. Centres)	B. C. G. Vaccine Centre
A	10.48	1,84,531	G. T. Hospital ...	1	4	5
B	2.47	1,74,536	Municipal T. B. Clinic at Nawab Tank, Mazgaon.	2	1	3
C	1.79	3,11,795	Municipal T. B. Clinic at Samaldas Gandhi Marg.	1	3	1
D	6.63	4,47,811	Municipal T. B. Clinic at Balaram Street. B. Y. L. Nair Hospital.	1	3	4
E	7.40	4,62,065	J. J. Hospital ...	6	5	10
F/W	10.5879	3,83,191	R. D. T. B. Clinic, Dadar } L.T.M.G. Hospital, Sion. }	4	2	6
F/B	10.579	2,79,385	O. H. T. B. Clinic, Sewri ...	3	4	4
G	17.84	8,24,007	Bai Gulbai Dispensary, Dadar, Bombay. 28.	6	14	8
H	25.8	5,23,402	M. M. Munshi T. B. Clinic at Khar, Bombay	4	5	2
K	43.00	5,74,275	K. B. Bhabha Hosp. Bandra. } Cooper Hosp., Juhu Vile Parle .. }	5	8	7
L	13.00	2,98,840	Munl. Gen. Hosp., Santacruz. } Bhabha Hospital, Kurla Sub-T. B. Clinic. }	2	5	1
M	62.19	2,25,000	MAA Hosp., Chembur.	..	9	4
N	39.00	3,47,012	Rajawadi Hosp., Ghatkopar.	1	5	3
P	74.83	3,96,496	Malad General Hospital, Haji Bapu Road., Malad(E).	2	8	2
R	82.73	2,36,931	Bhagwati Hospital, Borivali (W).	1	4	4
T	41.44	1,24,272	M. T. Agarwal Municipal General Hospital., Mulund (W).	1	5	2

Every Area Tuberculosis Centre is staffed by Medical Officer, Health Visitor and 2 to 3 T. B. Investigators (Treatment Organizers) and some members of lower staff. Out of 20 Area Tuberculosis Centres, 8 have M. M. R. X-ray equipment and Pathology Department and the remaining are having X-ray and/or Screening Machines and Laboratories. All these Centres serve as diagnostic-cum-treatment centres. The Peripheral Centres which are Municipal General Dispensaries, serve as Treatment Centres only. The Medical Record Department of the hospital and T. B. clinics and Central Statistical Section for field services is located at the Group of T. B. Hospitals, Sewri, and A. H. O. (T. B.)'s Office, F/south ward Office respectively for collection of data.

As provided under the National Tuberculosis Programme, Central Control Agency is also formed under the Chairmanship of the Municipal Commissioner.

B. C. G. Programme. :-

(1) B. C. G. Vaccination to children of 3 months to 14 years of age is carried out in all the 22 Municipal Maternity Homes and in the paediatric wards attached to 12 municipal general hospitals. It is also carried out in the Municipal schools (1 standard students every year) under the control and supervision of the Medical Officer (Schools). In all there are 62 B. C. G. Vaccination centres in Greater Bombay.

(2) Maharashtra Government's B. C. G. Team No. 1 and Organised Home Treatment Clinic, Sewri, carry out B.C.G. work in private Schools. In addition, O.H. T. Clinic is also conducting B. C. G. in slums during their shibirs.

(3) Central Training Centre of the Municipal Corporation has been established at the Bhabha Hospital, Kurla for imparting training in B. C. G. Technique to the staff involved in City Tuberculosis Programme. This Centre is conducted by Non-medical Team Leader (B. C. G.) trained at the National Tuberculosis Institute, Bangalore. In all 1,38,060 B. C. G. Vaccinations were given during the year.

The Bombay City Tuberculosis Control Campaign—1982 :

The Year 1982 is the Centenary year of the discovery of T. B. causing organism by Robert Koch. The Jaslok Hospital and Research Centre have, in collaboration with the B. M. C., the E. S. I. S. and the Maharashtra State Anti-TB Association, formulated a project, "THE BOMBAY CITY TUBERCULOSIS CONTROL CAMPAIGN—1981-82" with Dr. R. D. Lele as the Project Director and Dr. A. P. Rao, Medical Superintendent, G. T. B. Hospital as Campaign Director.

The Municipal Corporation has accepted the major responsibility of this Campaign by (i) proposing to bear 50% of the cost, i.e., about 2.5 crores, (remaining would be met by the State Government and the E. S. I. S. and from donations to be raised by Jaslok Hospital and Research Centre) and (ii) by posting Dr. A. P. Rao, Medical Superintendent, Group of T. B. Hospitals at Sewri as In-charge of the City TB Control Programme. Dr. Rao is given the assistance of Dr. P. C. Mehta, Asstt. Health Officer (TB). He will work in close collaboration with Dr. R. D. Lele, Project Director of the TB Control Campaign, 1982 and co-ordinate all the anti-TB activities in the City of Bombay. Services of Shri V. S. Morye, O. & M. O. (M. C.) have also been made available for this work. All the data collected will be processed by computerisation, for which the Jaslok Hospital and Research Centre has provided the expertise and expenses.

"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.

Dr. A. P. RAO
Medical Superintendent,
Group of T. B. Hospitals

TABLE NO. I.

GROUP OF T. B. HOSPITALS, SEWRI.
Performance Targets and Achievements—Hospital.

	Target laid down	Target achieved	Remarks
(1) Indoor cases ..	12,000	12,532	
(2) Operations (Nos.) ..	96	157	
(3) Follow-up examinations ..	7,982	8,820	
(4) Patients kept on Waiting List	382	349	Emergency cases are more than regular admissions.
(5) X-Rays :			
(a) Mass Miniature Radiography (Nos.) ..	13,403	25,671	
(b) Big Plates (Nos.) ..	8,715	8,364	Due to shortage of Big Plate X-ray Films
(c) Screening Exams. (Nos.)	706	266	Screening is done as and when required.
(6) Pathology :			
(a) Blood ..	14,546	23,449	
(b) Sputums ..	34,547	41,001	
(c) Urine ..	15,141	12,847	} This is done only when it is necessary and not as a routine. one like sputum, blood etc.
(d) Stools ..	208	181	
(e) Histopathology ..	427	417	
(f) Sensitivity Tests ..	474	1,316	
(g) Pleural fluids & Biochemistry ..	7,591	7,253	
(h) Blood Bank ...	2,476	1,676	
(i) Serology ...	186	95	

Dr. A. P. RAO
Medical Superintendent,
Group of T. B. Hospitals.

PROGRAMME WORK—LOAD SUMMARY OF T. B. CLINICS.

1981	R.D.T.B. Clinic Dadar.		Sarnaldas Gandhi Marg T. B. Clinic.		Balam St. T. B. Clinic		M. M. Munshi T.B. Clinic. Khar		Nawab tank T. B. Clinic.		Sub-T. B. 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	
I.—OUTDOOR CASES													
(a) T. B. Cases ...	4,685	4,201	1,155	1,171	1,496	1,739	7,105	6,287	927	842	2,878	2,916	(1) The X-ray Machines R. D. T. B. Clinic, Pp Street T. B. Clinic & Nawab Tank T.B. Clinic were not working intermittently.
(b) Non-T. B. Cases	3,241	1,250	8,037	6,033	703	2,634	4,298	4,786	981	667	2,047	1,170	
Total ...	7,926	5,451	9,192	7,204	2,199	4,393	11,403	11,073	1,908	1,509	4,925	4,086	
I.—X-RAYS													
(a) Mass Miniature Radiography	17,169	7,160	12,073	10,000	...	5,460	10,954	10,358	6,076	4,588	Shown under R.D.T.B. Clinic Dadar	...	(2) Screening is done as and when required.
(b) Big Plates	...	40	219	307	...	...	591	731	...	...	...	...	(3) Pathology Examination are done as and when required.
(c) Screening ...	...	...	...	33	...	...	...	...	...	...	...	...
II.—PATHOLOGY													
(a) Blood Exam. ...	202	72	1,223	1,028	25	148	904	130	121	103	...	...	(4) Under City Tuberculosis Programme pattern of Health Visiting is changed. Health Visitors & Treatment Organisers visit ATCs Gen. Dispa., and house of the patients in the area given to them Hence, Health Visiting are less.
(b) Sputum ...	8,629	6,808	5,098	4,277	3,361	3,992	9,158	8,090	2,438	2,045	3,645	3,369	
(c) Urine ...	...	...	12	2	5	5	300	153	31	20	...	...
(d) Stool ...	...	...	...	...	2	2	7	...	2	1	...	...
IV.—Health Visiting	...	429	368	182	1,110	1,060	868	1,902	370	423	326	400	

Dr. A. P. Rao
Medical Superintendent,
Group of T. B. Hospitals

TABLE No. 2.

Anti T. B. Activities carried out in the year 1981.

1	No. of new T. B. patients interviewed by treatment organisers at the Municipal General Dispensaries/Hospitals	...	17,481
2	No. of repeaters interviewed by the treatment organiser at the Municipal General Dispensaries/General Hospitals	...	1,23,230
3	No. of Home visits paid by treatment organisers and T. B. Inspectors at the residence of the T. B. Patients	...	50,879
4	No. of close contacts contacted	...	38,707
5	No. of close contacts referred to the Municipal T. B. Clinics for detection and treatment	...	11,186
6	No. of close contacts who attended the T.B. Clinics	...	5,960
7	No. of positive cases detected from the referred contacts	...	790
8	Defaulters:—		
	(i) No. of defaulters	...	39,978
	(ii) No. of defaulters brought on regular treatment	...	16,546
	(iii) No. of defaulters lost/expired.	...	23,432
9	No. of persons know who have undergone B. C. G. vaccination	...	2,839
10	No. of School children who have undergone W. B. treatment	...	5,109
11	No. of B.C.G. Vaccination in the Municipal Schools	...	26,557
12	No. of Laboratory Examinations done at 46, Mun. Gen. upgraded dispensaries—		
	(a) Blood (E. S. R.)	...	11,894
	(b) Urine	...	16,515
	(c) Sputum	...	6,770
	(d) Screenings		23,489
	(i) Positive		1,850
	(ii) Negative		21,639

Dr. A. P. Rao
 Medical Superintendent,
 Group of T. B. Hospitals.

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

HIGH LIGHTS :

						Rs.	P.	
I.—	(A)	1.	On In-Patient	...	...	16,82,633	83
		2.	On Out-Patient	...	...	8,41,316	65
	(B)	Average Cost :						
		1.	Per In-Patient per day	...	...	99.97	
		2.	Per In-patient admission	...	...	316	70
		3.	Per Out Patient attendance	...	...	6.32	
		4.	Per Out Patient admission	...	...	13.43	

II.—Results :

(A)	1.	Scheduled Bed Strength	...	...	...	100
	2.	Daily Average In-patient in wards	...	...	...	46
	3.	Admission including those brought over previous year (5313+60).	...	...	...	5,373
	4.	Patients Discharged	...	...	...	5,324
		(i) as Cured	...	...	...	—
		(ii) as Unchanged	...	...	...	—
		(iii) as Left against Medical advice	...	...	...	4
		(iv) Expired	...	...	...	2
		(v) Patients Remained in the hospital on last day of the year	...	...	...	43
	5.	Average stay of the In-patients (In days)	...	...	...	3.12
(B)	1.	Patients (New)	...	...	...	64,499
	2.	Daily average of Out patients (new)...	...	...	...	211
	3.	Out Patients (New & Old)	...	...	...	1,32,997
	4.	Daily average of Out Patients attendance	...	...	...	436

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 Bankebihari Municipal E. N. T. Hospital.

The Scheduled bed strength of the hospital is 100 and all the beds were commissioned for patients admitted in the hospital during the year. The highest number of patients admitted on a single day 31 (on 2-11-81) and the highest number of Out Patients attended on a single day was 497 (on 23-3-81) during the year. 4,883 Operations were performed on In-patients. In Pathology Department 50,852 Clinicopathological investigations were performed and in Radiology Department 7,685 Radiological investigations including 4,864 patients 324 Screening were recorded. An Audiology Room for full comprehensive hearing tests of handicapped individuals with service of speech therapy is also available in this hospital. In audiology and speech Therapy Department 7,234 audiograms including, 1,363 post-operative audiograms were recorded. 581 speech cases were treated.

Since August 1978, a Medico Social Worker has been appointed at this hospital. The work carried out by the Dept. is given below.

Month	Deaf Child	Deaf Adult	Cancer	T. B.	Miscellaneous
January	21	9	15	10	9
February	19	7	14	6	10
March	16	17	13	8	8
April	17	8	17	7	12
May	22	11	16	11	10
June	13	13	19	6	9
July	15	7	21	9	13
August	19	9	16	15	9
September	27	11	18	7	12
October	30	12	17	9	17
November	25	9	13	5	11
December	17	6	17	6	8
Total	241	119	195	99	128

Deaf children are re-habilitated at special schools and vocational centres. Adult deaf patients are help by assessing their need to obtain hearing aid at concessional rate. 6 T. B. patients are given nutritional aid and their membes are helped to have a vaccination (B. C. G.) Cancer patient after treatment referred for rehabilitation and Oesaphagus speech training at Indian Cancer Society. Dcnations were obtained from Individual and Charitable Oranisations to purchase Inj. Bleo-mycin and other medicines. 10 patients came at hospital who were mentaly retarted.

Total Home Visit Paid	..	..	...	137
Institution visits for the Deaf	..	..	...	36
Cancer Institution visited	..	..	...	7
Charitable Organisation	...	...	..	9
Total ...				189

An amount of Rs.15,958.68. was collected through the poor Boxes during the year was utilised to provide Trachostomy tubes and free blood transfusions to the poor and deserving patients.

The Medical staff consisted of Six Honorary Surgeons, Three Honorary Assistant Surgeons (Part-time), 5. E. N. T. Registrars, 5 House Surgeons, 1 (PT) Anaesthetist, 2 Jr. Assistant Medical Officers, & 1 (P. T.) Pathologist

Nursing Staff consisted of 1 Sr. Sister, 6 Sisters, & 26 staff Nurses.

Rs. 14,23,622.72 have been spent on establishment of the hospital during the year.

Classification of O. P. D. :

Sex	New O.P.D.	Old O.P.D.	Total Attendance
Male	20,854	25,067	45,921
Female	21,014	22,887	43,901
Male-Child	11,979	10,981	22,960
Female Child	10,652	9,563	20,215
Total	64,499	68,498	1,32,997

Classification of Indoor Patients:

Sex	Admitted	Discharged	Died	Remained in the hospital.
Male	2,127	2,107	2	18
Female	1,599	1,580	...	19
Male-Child	856	853	...	3
Female-Child	791	788	..	3
Total	4,373	5,328	2	43

DR. (Smt.) S. C. BASRUR,
Assistant Medical Officer.

Seth V. C. Gandhi and M. A. Vora Municipal General Hospital, Rajawadi, Ghatkopar

Highlights : I—Expenditure.

	Rs.
(A) (1) On in-patients	1,19,76,980
(2) On out-patients.	59,88,990
(B) Average Cost per.	
(1) In-patient per day.	66.10
(2) Out-patient per day	6.91

II—Results-In-patients

(A) (1) Scheduled Bed Strength	559
(2) Daily average in-patient in wards.	419
(3) Admissions including those brought over from previous year.	33,857
(4) Number of patients discharged as	
(i) Relived	11,000
(ii) as cured	8,430
(iii) Otherwise	12,332
(iv) Expired	1,594
(A) Within 24 hours	732
(B) After 24 hours	317
(C) Exceeding 3 day	545
(v) Remained in the hospital on the last day of the year.	501
(vi) Daily average number of admissions.	92
(vii) Average stay of in-patients (In days)	5 days.
(viii) Highest number of in-patients in a single day.	580
(ix) Average cost per in patient	Rs. 66.10
(x) Average cost per out patient	Rs. 6.91

(B) Out patients.

(i) New Out patient attendance	1,56,449
(ii) Daily average number of new out-patients.	516
(iii) Highest O. P. D. attendance of a new patients on a single day.	820
(iv) Total no of casualty attendance	60,507
(v) Dog Bite (New cases)	4,396
(vi) Municipal Dispensary	4,520

(C) (1) Operation Indoor	3618
(2) Operation Outdoor	11516

(D) Confinements

(i) Booked cases (A. N. C. Indoor admissions)	8,999
(ii) Emergency cases (L. S. C. S.)	175
(iii) Normal Deliveries	6,592
(iv) Abnormal deliveries.. .. .	694
(v) Left before delivery	707

Neo-natal and Maternal deaths—

(i) Maternal deaths.	8
(ii) Neo- natal deaths.	61
(iii) Still-Births.	406
(iv) Premature live born in infants	263

Specialised treatments.

(i) Sterilization (Male)	6
(ii) Sterilization (Female)	1,158
(iii) I. U. C. D. (inserted)	205
(iv) Medical termination of Pregnancy	381
(v) Disease-wise distribution of cases treated and deaths including tuberculosis S. T. D. and food poisoning cases.	

Name of the diseases	No. of cases	Deaths
(1) Infective Hepatitis.	1	Nil.
(2) Gastro Enteritis and Colitis.	6	Nil.
(3) Pulmonary Tuberculosis	Nil.	Nil.
(4) Diabetes Mellitus	1	Nil.
(5) Diseases of Aortic valve.	N.I.	Nil.
(6) Diseases of Mitral valve.	Nil.	Nil.
(7) Essential Benign Hypertention	Nil.	Nil.
(8) Acute Myocardial infarction	Nil.	Nil.
(9) Left Ventricular Failure.	1	1
(10) Heart block	Nil.	Nil.
(11) Acute Upper Respiratory infection of multiple or unspecified sites.	Nil.	Nil.
(12) Chronic Bronchitis.	Nil.	Nil.
(13) Asthama.	Nil.	Nil.
(14) Anaemia of Pregnancy	61	Nil.
(15) S. T. D.	Nil.	Nil.
(16) Food Poisoning.	Nil.	Nil.

This Hospital continued to render Medical Relief to the sick in the North East Suburbs of Bombay.

Dr. M.J. Nerurkar, M.S. and Dr. (Smt.) V. M. Jaisinghani held the posts of Medical Superintendent and A. M. O. (Administration) respectively during the year,

This Hospital runs the following Departments —

(1) Medical, (2) Surgical including minor surgery, (3) Paediatrics, (4) Gynaecology and Obstetrics including Antenatal and Postnatal Clinics, (5) E. N. T., (6) Orthopaedics, (7) Skin and V. D. (8) Ophthalmology, (9) Psychiatry O. P. D., (10) Dental O. P. D., (11) O. T. and P. T., (12) Blood Bank, (13) Pathology Laboratory, (14) Family Welfare Centre, (15) Audiology and Speech Therapy (16) Evening Dispensary (Municipal staff 6.30 to 8 P.M. daily except Sundays and Bank Holidays), (17) Anti Rabic Centre (2 to 3.30 P. M. daily except Sundays and Bank Holidays), (18, Casualty, (19) Radiology, (20) International Health Certificates (daily except Sundays and Bank Holidays), (21) M. S. W. Department, (22) School Clinic, (23) T. B. Clinic, (24) Immunization Clinic (9 A. M. to 11.00 A.M.) and (25) Intensive Care Unit.

(1) Medical Department :—

The Department of Medicine consists of 3 part time Units each manned by Honorary Professional Doctors. Each Units function twice a week.

(2) Surgical :—

The department of Surgery consists of 2 part time and one full time units, two part time units are manned by Honorary Professional Surgeons and the full time unit under the direct supervision of Dr. M. J. Nerurkar, Medical Superintendent. Each unit function twice a week.

(3) Department of Paediatrics :—

The Department consist of one part time unit under Hon. Professors of Paediatrics/ Hon. Pediatricians. The Department functions daily except on Sundays and O. P. D. holidays. 4132 Polio immunization and 4054 triple injections were administered to childrens. 7232 small pox vaccination were also administered upto July 1981.

Besides, paediatric work, new born follow up clinic, Nutritional Clinic, Chronic diseases clinics were run concurrently.

The attendance at the O. P. D. is shown in Appendix

(4) Gynace and Obstetric Department including Anti/Post natal :—

This Department consists of 3 part time unit under Hon. Professors of Obstetrics and Gynaecology/Hon. Gynaecologists and Obstetrician, Each unit function twice a week.

(5) E. N. T. :—

This Department consists of one part time unit under Hon. E.N.T. Surgeon/Hon. and Prof. of E. N. T. and functions twice a week.

(6) Orthopaedic Department :—

This Department consist of only one unit under the charge of Hon. Professor of Orthopaedic Surgery and Hon. Orthopaedic Surgeons. This Department function twice a week.

'Bombay Orthopaedic Society' held periodic clinical meetings at various teaching hospitals including peripheral and associated hospitals.

A Similar meeting was held at this hospital about 2 years ago with great success. This year on 30-8-1981 another such meeting was held, This meeting was attended by large number of Senior and Junior Orthopaedic Surgeons and large number of post graduate doctors, students and residents doctors.

The Department presented fifteen interesting problematic and treated cases which had evoked good discussion on each and every case.

(7) Skin and V. D. :—

This Department functions on all days except Sunday. This Department consist of only Part time unit which is under charge of Hon. Professor of Dermatologist.

(8) Ophthalmology Department :—

This Department consists of one part time unit under Hon. Professor of Ophthalmology/Hon. Ophthalmologist and functions thrice a week.

(9) Psychiatric Department :—

This department Consists of one part time unit under Hon. Psychologist and functions on all days except Sundays.

(10) Dental :—

This department Consist s of only one part time unit under Hon. Dental Surgeon and function on all days except Sundays. }

(11) Family Planning :—

This Department is looked after by the Family Planning Officer and functions on all days of the week except Sundays.

(12) O. T. P. T. Department :—

Functions on all days of the weeks except Sunday.

(13) Municipal Staff O. P. D. :—

The O. P. D. function daily except Sunday between 6.30 P. M. to 8 P. M. for Municipa Employees. Municipal employees are examined by the A. M. O. on duty.

(14) International Health Certificate :—

This Department functions on all days of the week except Sunday and Saturday and Holidays People desiring Health Certificate for going abroad attend this centre between 2.00 P. M. to 3.30 P. M.

(15) School Clinic :—

Functions on all days except Sunday. Children from neighbouring Municipal School are brought to the O. P. D. for examination, treatment, etc., during the afternoon session.

(16) T. B. Clinic :—

Functions on all working days except Sundays. It is looked after by a Hon. T. B. Specialist and A. M. O. Dr. Nadkarni, Patients attending this clinic are given necessary injections and medicine for a period upto 1 month.

(17) Immunization Clinic :—

Functions on all days except Sundays, between 9.00 A. M. to 11.00 A.M. Triple vaccine, Polio vaccine and B. C. G. vaccine are giving to children at this clinic.

(18) Pathology Department :—

This Department is looked after by a Hon. Part Time Pathologist.

(19) Court Cases attended by Doctors.

MACT—80 Metropolitan Magistrate Courts—139 Session Court—24 Industrial Court—3

PATHOLOGY DEPARTMENT

Department-wise yearly workload of 1980.

Bacteriology & Serology:—

Gram Stain.	..	1,308	Bronchial aspiration	..	12
AFB Stain	..	2,470	Nasal Swab	..	16
Albert Stain	..	431	Pharyngeal Swab	..	4
Clot Culture	..	7,007	Miscellaneous	..	1,774
Blood Culture	..	1,558	O. T. Sterility (Swabs)	..	4,018
Pus Culture	..	1,085	Blood VDRL	..	10,909
Urine Culture	..	1,899	CSF VDRL	..	808
Sputum Culture	..	3	Blood Bank VDRL	..	3,537
CSF Culture	..	1,856	Blood Widal	..	1,422
Stool Culture	..	438	Blood Saw Bannel	..	11
Throat Swab	..	439	R. A, Test	..	616
Eye Swab	..	161	Pregnancy Test	..	59
Ear Swab	..	223	Casone's Test	..	6
Antibiotic Sensitivity Test	..	2,454	CSF Widal	..	2
Urethral Smear	..	97	Liver Aspiration	..	5
Pleural Fluid Culture	..	648	Fungus	..	1
Peritoneal Fluid Culture	..	40	Liver abscess	..	10
Ascitic Fluid Culture	..	203	Prostetic	..	1
Vaginal Swab	..	33	Renal Swab	..	40
Gastric Fluid Culture	..	148	Stool for darking motility	..	18
Pericardial Fluid culture.	..	27	Savoping material	..	1
Hydrocele Fluid Culture :	..	15	Cathetor Lip	..	15
Sinoveal Fluid culture.	..	7	Knee aspiration	..	7
Wound Swab	..	11	Prosthatic masige Swab	..	3
Umbilical Swabs	..	93	Sinus	..	2
Ulcer Swabs	..	10	Tracheal Swab	..	1

BIOCHEMISTRY :

Blood Sugar	..	18,683	Alkaline Phosphatase	..	1,305
Blood urea.	..	7,579	C. S. F. Sugar	..	...
Serum Cholesterol	..	2,808	Electrolytes (Na.)	..	3,145
Serum Bilirubin (Total)	..	1,701	Electrolytes (K)	...	3,145
G. A.	..	1,878	Serum anyalss	..	..
S. G O. T.	..	2,750	S. Uric acid	..	652
S. G. P. T.	..	2,272	Serum albumin	..	1,878
Serum Protein	..	1,884	Blood Gas Analysis	..	42
Serum creatinine	..	4,289	Electrophoresis (Protein)	..	17
Amylase	..	200	Direct Bilirubin	..	1,701
Hlb Electrophoresis	..	9			

O. P. D. Indoor routine work.

(1) Hb.	..	15,919	(5) Stool	..	6,496
(2) W. B. C. TC.	..	13,645	(6) Semen	..	497
D. C.	..	13,645	(7) A. N. C. Hb.	..	6,156
(3) F. S. R.	..	10,240	(8) Sputum	..	10,322
(4) Urine	..	17,913			

Haematology

Hb.	..	4,668	R. B. C. Count.	..	568
W. B. C.T.C.	..	4,668	P. C V.	..	569
DC.	..	4,668	Reliculocute count	..	479
E.S.R.	..	2,760	Platelet count.	..	486
Complete Haemogram	..	515	Prothrombin time	..	700
Haemoglobin	..	518	Prothrombin Index	..	700
Total W. B. C.	..	518			

T. B. Clinic.

Hb.	..	2095
CBC	..	2067
E.S.R.	..	2,067
Urine	..	2,291
Sputum	..	9,557

Cytology

Fleurecil Slides.	..	288
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Histopathology

Total Slides.	..	5,721
Total blocks	..	4,897

School clinic.

Hb	..	597	Urine	..	316
W.B.C. TC	..	526	Stool	..	253
DC	..	526	C.T.	..	183
E.S.R.	..	197	B. T.	..	183

RADIOLOGY DEPARTMENT

1. Total No. of patient's investigated :-

Indoor	..	..	..	..	..	..	19,000
Outdoor	..	..	..	..	..	..	22,745
Total ..							41,745

INTENSIVE CARE UNIT :

The Intensive Care Unit was started at this hospital from May 1979. Cases were transferred to I. C. U. The cases admitted during the year as follows :-

Indoor admission	755
Indoor attendance	2603
Expired	251
% of expired Patients	33.2

BLOOD BANK

Throughout the year blood donation drives organised by various organisations were attended to by the staff of the Blood Bank. The first programme for the year under report was arranged at Ambarnath by Akhil Bhartiya Vidyarthi Parishad.

As usual Somaya College of Commerce and R. S. S. Chembur arranged emergency Blood donation drives at short notice whenever there was shortage of blood in the Blood Bank.

Voluntary Donors were also called to donate Blood in times of acute emergency.

A detailed report of the Blood collection and utilisation of Blood is as under —

1. Voluntary Donors	..	..	..	..	..	1511
2. Replacement Donors	..	..	..	..	..	811
3. Blood brought from other hospitals	..	..	..	..	..	207
4. Blood Bottles sent to other Hospital	..	..	..	..	..	494
5. Blood Bottles utilised for the hospital	..	..	..	..	..	1769
6. Blood Bottles sent for plasma providing	..	..	..	..	..	270
7. Discarded bottles	..	..	..	..	..	23
8. Transfusion given from take used bottles	..	..	..	..	..	1875
9. Bottles wasted	..	..	..	..	..	..
Total						

ELECTROCARDIOGRAM SECTION :

E. C. G. taken (Diagnosis) :—

1. WNL	..	..	..	..	..	2922
2. IHD	..	..	..	..	..	1648
3. Hypertension	..	..	..	..	..	990
4. C.C.F.	..	..	..	..	..	320
5. Chest pain	..	..	..	..	..	571
6. Corpulmonale	..	..	..	..	..	216
7. Rh. H. D.	..	..	..	..	..	92
8. Mitral H. D.	..	..	..	..	..	89
9. A.F.	..	..	..	..	..	94
10. Anaemia	..	..	..	..	..	176
11. Diabetic	..	..	..	..	..	201
12. Angina pectoris	..	..	..	..	..	104
13. S. Tachycardia	..	..	..	..	..	58
14. S. Bradycardia	..	..	..	..	..	120
15. V.S.D.	..	..	..	..	..	78
16. A.S.D.	..	..	..	..	..	31
17. Avistiniuous	..	..	..	..	..	576
18. Heart-block	..	..	..	..	..	63
19. Tetology of fallot	..	..	..	..	..	8
20. P.D.A.	..	..	..	..	..	17
21. Hypertrophy	..	..	..	..	..	171
22. S. Arrythmia	..	..	..	..	..	54
23. Pericarditis	..	..	..	..	..	22
24. Dextrocardia	..	..	..	..	..	12
Total						8533

PHARMACY

Total quantity of preparation for Indoor and Outdoor patients

1. Quantity of stock solution preparation	..	..	..	10,510 Litres.
2. No. of packets of tablets made	..	..	..	59,92,730 pkts.
3. No. of packets of powder prepared	..	..	..	68,995
4. No. of prescription account kept (O. P. D.)	..	..	Nos.	93,705
5. Special prescriptions attended	..	..	..	Nil
6. Prescriptions where special drugs issued and account is kept.	..	..	..	Nil
7. Syrup simples.	..	..	..	Nil
8. Stock mixture preparations	..	..	..	24,112 Litres
9. Ointments prepared	..	..	..	480 Kgs.
10. Lotion prepared	..	..	..	7521 Litres

MEDICO SOCIAL WORKERS (GENERAL SECTION-I)

I Total No. of cases referred during the year 1980 under different categories.

Categories	No of cases referred	New patients	Old patients
(i) Pradiatric cases for nutritional Clinic & Skimmed milk powder. and Bal Amul	38	68
(ii) Medical Aid	563	924
(iii) Unmarried mothers and for M. T. P. cases	25	68
(iv) Misce, (i.e. for other reasons such as adoption of job & case work etc.)	29	47
I Total o. of Cases		639	
II Cases Carried over	45	
III Case work done on No. of cases	16	
IV No. of Social Service Institutions and Agencies contacted for donations and other material help		13	
V No. of employees seen	1	
VII Handled the N. S. S. project of			
(i) Somaiya college of Arts & Commerce.			
(ii) Somaiya College of Science			
(iii) Smt. P. N Doshi womens College Recreation projects like decoration on Diwali & Christmas eve are arranged with the help of N. S. S. students.			
VIII The Social worker attends Psychiatry O. P. D. from Monday to Friday from 1.30 to 4.00 P.M. The duties performed by her are as follows :			
(i) Taking down the complaints and family history of newly registered patients.			
(ii) Social casre work and counselling			

This year 58 Patients were and referred for Social Case work and counselling

GENERAL SECTION II

(1) No. of cases referred during the year,	.. .. .	349
(i) Cases carried over	.. .. .	21
(ii) Blood Bank cases handled	.. .. .	52
(iii) Blood Donation Drives attended	.. .. .	2
(1) Arranged by Bharatiya Janata Party, Kurla, Vidhan Sabha at Manekal Estate, Ghatkopar. Total collection of Bottles	.. .. .	45
(2) One mini Drive attended at Somayya College, Arts, Science and Commerce College total collection of Bottles	.. .. .	51
(2) Case work done in number of cases	.. .. .	27
(3) Medicine supplied in number of cases	.. .. .	39
(4) Orthopaedic appliances supplied in number of cases both in Rajawadi and Sarvodaya Hospital Total patients	.. .. .	81
(5) Implants (Orthopaedic) like S. P. Pins, Screws provided on deposit basis to Orthopaedic Ward admitted patients on part payment 50 to 60% recovery is made from the patients as per their social economic condition and per capita income and rest of the amount is sanctioned from Poor Box Charity Fund		
(6) Number of Institutions visited	.. .. .	3
(i) Chembur Medice Club.		
(ii) Nirmala Niketan College of Social work—Attended the lecture of Dr. J. A. Lobo, Dy. Secretary of Urban Development and Public Health Department of Government of Maharashtra. Subject was "Role of the Government in effective delivery of health services.		
(iii) Sion Hospital—Attended the seminar on "Interdisciplinary approach to the rehabilitation of the Orthopaedically Handicapped, Organized in the celebration of the Silver Jubilee Year of the Department.		
(7) Home visit paid	.. .. .	21
(8) Number of employer seen	.. .. .	1
(9) Number of Social Agencies contacted—		
(i) Narayan Seva Mandal, Ghatkopar		
(ii) Anand Relief Fund, Ghatkopar		
(iii) Lior.s Club of Ghatkopar		
(iv) Abhilasha Charitable Society, Ghatkopar		
(v) NASEOH Mr. Vijay Merchant		
(10) Nutritional Clinic Project of last year continued upto April 1981 and then it was closed as per D. M. C. s order, as its sanction period was over. This pilot project was Supervised by Dr. Khokhani, Hon. Paediatrician,		
(11) Discharged patients problems.		
(A) Ward Discharged patients having no relatives and medico legal cases which were admitted by P. C. of different police stations of Bombay are referred to M. S. W. for making arrangement to send them to their residence by ambulance alongwith Ward boy. 2 of them were sent out of Bombay by giving the train fare of their native place from P. B. F.		
(B) Handled N. S. S. Projects at Somayya Arts, Commerce and Science College and S. P. N. Joshi College for Women, S. N. D. T. Recreational.		
(C) Recreational Project like Decoration on Diwali and Christmas eve are arranged with the help of N. S. S. students in Rajawadi Hospital.		
Health Education for scabies patients	.. .. .	23

Orthopaedic appliances like calipers, Tailor Braces L. S. Belt and crutches are made available for patients by recovering 50 to 60 % cost as per their socio economic condition and the rest is made from Poor Box Charity Fund. In very deserving cases it is given free of cost. Sometimes for such patients the help of Social Institutions like Narayan Seva Mandal, Abhulasha Charitable Society. Lions Club of Ghatkopar is sought for defraying some cost towards the costly appliances.

AUDIOLOGY AND SPEECH THERAPY DEPARTMENT

No. of Speech cases	..	..	..	..	..	750
No. of Audiogram	..	..	..	..	..	852
Total						1,777

Equipment present in the Department—

1. Puretone Audiometer
2. Hearing aid
3. Teaching Aids
4. Small mirror
5. Impedance Audiometer—Model is out of order. This model is discarded by company as it is not repairable. Company was ready to give any other product of cost Rs. 11,500 instead of Impedance Audiometer but our accountant denied to take it. So hospital lost Rs. 11,500.

Future Requirement of the Department : Sound proof room, New impedance Audiologist and speech therapist.

OCCUPATIONAL THERAPY AND PHYSIO THERAPY

Analysis Indoor attendance	..	..	..	..	..	39,394
O. P. D.	..	..	..	..	..	46,711
Sarvodaya Hospital	..	..	..	..	..	40,826
Total						1,26,931

SCHOOL CLINIC

Department	New cases	Old cases	Indoor cases admitted
Paediatric	1137	6784	9
Ophthalmic	652	2586	6
E. N. T.	485	2476	35
Skin	387	1370	4
Dental	441	1381	..
Surgery	50	39	5
Orthopaedics	40	47	2
T. B.	27	20	Nil
Total	3619	14703	61

T. B. CLINIC

New patients

1910

Old patients.

15280

Ttransferred to T. B. Hospital=119.

LIBRARY

The total number of books added to the Library during the year 1981 was 63, as against 96, during the previous year, 8 books are to be received.

Late Shri Satynarayan Pande has donated six middle books to our Medical Department. We are very much thankful to him.

The Library had subscribed towards 15 Medical Journals as against 30 in the previous year. 40 Journals were bound.

The Library had at the end of the year, 866 books as against 802 during the previous year. Some of the issue have not been received yet. They are likely to be received within a short period.

PSYCHIATRY O. P. D.

The Psychiatry O. P. D. was started in October 1978. The old and new patients are examined and treated at the O. P. D. No. 13(A) between 1-30 P.M. and 4-00 P.M. as follows :—

New Cases .. Monday, Wednesday, Friday.
Old Cases .. Tuesday, Thursday.

Referred Cases from Wards .. Tuesday and Thursday.

The No. of new patients treated as follows :—

Sex	YEAR	
	1980	1981
Male Child upto 12 Years of age ..	14	18
Female Child ..	11	11
Male ..	600	635
Female ..	813	1,061
Total ..	1,438	1,735

Total No. of times old patients seen in the O. P. D. and No. of patients referred

Year.	No. of patients	No. of Inpatients.
1980 ..	4,634	246
1981 ..	4,838	183

Table showing diagnosis wise distribution of the patients during 1981.

Diagnosis	No. of patients;
(1) Psychosis—	
(a) Schizophrenia ..	158
(b) M.D.P. (i) Mania ..	18
(ii) Depression ..	168
(c) Organid Psychosis ..	39
(2) Neurosis	
(a) Anxiety Neurosis ..	159
(b) Hysterical Conversion Reaction ..	49
(c) Neurotic Depression ..	937
(3) Personality Disorders and addictions	39
(4) Psycho-somatic disorders	12
(5) Epilepsy ..	48
(6) Mental Subnormality	37
(7) Miscellaneous	16
(8) Nil active Psychiatric	27
(9) No. of Psychiatric diagnosis could be arrived at undiagnosed.	56
Total ..	1,725

Other treatments:—

Patients for E. T. C. are called on Monday and Friday.

Year	No. of Cases	No. of E. C. T.
1981	68	256

(B) Social Case work :—

The patients who are in need of social case work are referred to Medico Social worker. This year 57 patients were referred for social 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 during the year was 397.

FAMILY PLANNING

(1)	Persons contacted for F. P. education	..	..	..	..	27,802
(2)	No. of cases given advice	..	..	..	..	24,680
(3)	No. of active cases following F. P. methods	..	..	..	..	23,853
(4)	Clinic attendance	..	..	..	..	17,182
(5)	No. of persons visited at home	..	..	..	..	8,850
	(i) New contacted	..	..	..	..	14,270
	(ii) Follow up	..	..	..	..	7,531
(6)	Vasectomy	..	..	..	..	6
(7)	Tubectomy	..	..	..	..	1,158
(8)	No of Jelly	..	..	..	..	1 Tube
(9)	Condoms distributed	..	..	..	..	14,090 pcs
(10)	I. U. C. D.	..	..	..	..	205
(11)	Oral Pills	..	..	..	..	354
(12)	M. T. P.	..	..	..	..	381
(13)	Total meeting held 140. General-18 Group-200. No. of persons attended-12,027 General-9,210. Group-3,078.					

Highlights during the year under report (comparison between 1980-1981)

No. of inpatients is increased from 32,307 to 33,366.

Daily average of inpatients has increased from 473 to 491. Total indoor attendance increased from 1,72,100 to 18,112. The O. P. D. attendance new including casualty, is increased from 20,06,43 to 2,16,556. The daily O. P. D. average of new patients is increased from 475 to 516. The no of operations has increased from 1,48,07 to 1,51,34. The total expenditure has increased from Rs. 1,38,96,964 to Rs. 1,79,66,870

The staff of this hospital is as below :—

Medical	..	78	Paramedical and others	161
Nursing	..	203	Administrative	5
			Labour	386

Poor Box Fund Collection :

			Rs.
Donations received.	..	..	Nil
Amount collected from the boxes.	..	..	8,850.00
Amount spent on appliances to per patients.	..	..	Nil
Amount spent on medicines to per patients.	..	..	5,000.00

Following heavy equipment have been purchased during the year 1981 and they are functioning properly.

Operating Microscope	..	..	..	1 No.
Ambulance	..	..	..	1 No.
Auto pacer	..	..	..	1 No.
Deodino scope	..	..	..	1 No.
Cryo Surgery Apparatus	..	..	..	1 No.
Pulmotestor	..	..	..	1 No.
Solid state cautery machine	..	..	..	1 No.

FUTURE DEVELOPMENT

The work of Construction of Coroner's Court at this hospital cannot be taken up in hand as the plot is encumbered with hutments. Similarly the proposal to start nurses training school also cannot be proceeded with unless student nurses quarters' class room and family quarters for the staff are constructed. The plot for this is also encumbered by hutment dwellers. Deficiencies and shortcoming—as per previous report.

DEFICIENCIES AND SHORTCOMINGS :

The existing O. P. Ds are still not well situated and results in overcrowding. This is some what controlled by segregating Gynae and Obst. O. P. Ds. temporarily since 1978. Many of these ground floor structures are deficient in ventilation, leak heavily in moonsoon and become hot and stuffy in hot seasons.

The Medical Records Department is hampered for want of adequate place for its sooth function. A proposal to house it in a shed to be constructed on the terrace of the old hospital building as a temporary measure, has been turned down by the architect as the building is old. Efforts are still being made to erect a shed on the terrace with support of wall and at least use it as a record room for medical record department which also is required to be given on urgent basis.

There is a dearth of qualified and full trained nurses and anaesthetists at this hospital. The R. M. Os quarters need to be expanded to accommodate more doctors for its expanding activities.

APPENDIX No. 1
Distribution of beds according to departments and Sex.

Department	Male	Female	Children	Total
Medical	34	35	..	69
Surgical	57	27	..	84
Burns	..	12	..	12
Gynaecology.	..	51	..	51
Obstetrics.	..	108	..	108
Pediatrics	..	..	76	76
Ophthalmic.	20	13	..	33
Skin & V. D.	10	10	..	20
E. N. T.	16	15	..	31
Orthopaedics.	19	20	..	39
M. I. C. U.	7	4	..	11
Side Rooms	8	2	..	..
Medical	..	..	..	..
Surgical	2	..	..	..
Obstetrics.	..	2	..	..
Gynaec	..	9	..	..
Orthopaedics	1	1	..	..
Total	174	309	76	559

APPENDIX No. II.
No. of accident cases treated.

Sex.	Treated in Casualty Department 1981	Admitted through Casualty Department.
Male	13,271	1,849
Female	3,328	983
Children } Male Female	1,918	610
	862	383
Total	19,379	3,825

APPENDIX No. III

Statement Showing the out-patients (New O. P. D. Casualty) in Rajawadi Hospital during the year 1981, Classification 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	19289	15262	..	..	34551	8502	4940	..	..	13442
Surgical	9287	3678	2348	1288	16601	3872	4940	3214	1912	23938	
Ophthalmic	2923	2216	396	355	5890	1059	355	212	101	1727	
Gynaec.	..	10415	..	..	10415	..	4802	..	..	4802
Dental	2442	2363	670	538	6013	140	91	19	5	255	
Skin and V. D.	6416	3022	3358	2444	15240	431	211	72	34	748	
E. N. T.	1929	1683	929	707	5248	964	533	440	329	2266	
Orthopaedics	2629	1786	762	477	5654	2234	880	920	445	1479	
Paediatrics.	646	980	17	14	1657	..	..	..	..	..
Maternity	..	11064	..	..	11064	..	..	..	..	..
New Born	..	..	1266	1052	2318	..	..	..	..	..
Psychiatric.	..	..	10684	8870	19554	..	..	5217	3633	8850
Anti Rabie	1344	725	1525	802	4396	1268	..	..	..	..
T. B.	1191	493	118	108	1910	..	..	..	..	..
B. M. E.	1999	1116	818	587	4520	8	..	..	..	..
Immuniztuib Small pox	..	..	3968	3444	7412	..	..	..	..	..
B. C. G.	..	..	1551	1226	2777	..	..	..	..	..
Polio Triple	..	..	667	562	1229	..	..	..	..	..
Total	..	50095	54803	29077	22474	156449	27202	16752	10094	6459	60507

APPENDIX.—IV.

Summary of In-patients classified according to Department and Sex.

Deptt.	Sex.	In the hospital on the midnight of 31-12-1980	Admitted during the year.	Total	Discharged		Death	Remaining in the hospital on the midnight of 31-12-1981
					cured	Otherwise		
1. Medical								
Male	..	47	3140	3187	246	2679	196	66
Female	..	23	2065	2088	250	1696	108	34
M/ch.	3	..	..	..	..	..
F/ch.
Total	..	70	5205	5275	496	4375	304	100
2. Surgical—								
Male	..	40	2754	2794	458	2195	92	49
Female	..	21	716	737	100	582	39	16
M/ch.	..	6	588	594	98	480	10	6
F/ch.	..	4	258	262	50	202	8	2
Total	..	71	4316	4387	706	3459	149	73
3. Ophthalmic—								
Male	..	18	547	565	150	399	1	15
Female	..	14	449	463	115	341	..	7
M/ch.	..	1	66	67	15	52	..	..
F/ch.	..	1	30	31	6	24	..	1
Total	..	34	1092	1126	286	816	1	23
4. Gynaec—								
Female	..	49	2060	2109	410	1656	3	40
M/ch.
Total	..	49	2060	2109	410	1656	3	40
5. Skin & V.D.								
Male	..	6	131	137	35	91	..	11
Female	..	3	55	58	18	36	2	2
M/ch.	..	1	23	24	6	18	..	..
F/ch.	17	17	12	5	..	..
Total	..	10	226	236	71	150	2	13
6. I. C. C. U.—								
Male	..	3	518	521	..	348	169	4
Female	..	2	234	236	..	154	80	2
M/ch.	1	1	..	..	1	..
F/ch.	2	2	..	..	2	..
Total	..	5	755	760	..	502	252	6
7. Orthopaedics—								
Male	..	26	960	986	60	873	20	33
Female	..	13	355	368	20	326	8	14
M/ch.	..	7	325	332	18	302	1	11
F/ch.	..	2	188	190	14	170	1	5
Total	..	48	1828	1876	112	1671	30	63
8. E. N. T.—								
Male	..	13	414	427	122	296	1	8
Female	..	7	339	346	55	280	2	9
M/ch.	..	1	158	159	50	108	..	..
F/ch.	..	3	160	163	52	111	..	..
Total	..	24	1071	1095	279	795	3	17
9. Paediatrics—								
Male	..	39	3822	3861	92	3387	348	34
Female	..	19	2864	2883	60	2482	324	17
Total	..	58	6686	6744	152	5869	672	51
10. Maternity—								
Female	..	105	9703	9808	6000	3696	13	99
Total	..	105	9703	9808	6000	3696	13	13
11. Burns—								
Male	..	3	12	15	..	..	13	2
Female	..	3	238	241	10	92	133	6
M/ch.	..	5	96	101	6	80	12	3
F/ch.	..	6	78	84	2	71	7	4
Total	..	17	424	441	18	243	165	15
Grand Total	..	491	33366	33857	8430	23332	1594	501

APPENDIX—V.

Cost per in patient and out patient per day.

Year.	Establish- ment.	Contin- gencies.	Drugs and Medicines	Diet	Stores and Linen	Repairs Maintenance Special Repairs New Works.	Total.
In-Patients.							
1980	.. 20.02	6.75	15.81	4.70	6.15	1.00	53.83
1981	.. 24.50	6.80	19.70	5.50	6.60	0.20	66.10
Out-patients.							
1980	.. 2.00	0.43	1.79	..	0.10	0.06	4.38
1981	.. 2.91	0.90	2.00	..	0.90	0.20	6.91

K. B. Bhabha Hospital, Bandra.

This hospital continued to render medical relief services 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 1981 is as under :

High Lights :

I—Expenditure—

(A) 1. On inpatients	Rs. 40,86,562.00
2. On out-patients	Rs. 49,06,829.00
(B) Average cost per—	
1. In-patient per day	Rs. 64.76
2. Out-patient per day	Rs. 5.37

II—Results—In-patients

(A) 1. Scheduled Bed Strength	204
2. Daily average in-patients	173
3. Admissions including those brought over from previous year.	12,545
4. Number of patients discharged as	
(i) Relieved	120
(ii) as cured	11,787
(iii) Otherwise	130
(iv) Expired	341
(v) Remained in the hospital on the last day of the year	167
(vi) daily average number of admissions.	34
(vii) Average stay of in-patients (in a day)	173
(viii) Highest number of in-patients in a single day	29-11-81 205

(B)—Out-patients—

(i) New out-patient attendance	1,88,785
(ii) Daily average number of outpatients.	3,015
(iii) Highest O. P. D. attendance on a single day	25-8-81 on 3,168
(iv) No. of casualty attendance	54,959

(C) (i) Operations on in-patients	3,302
(ii) Operations on out-patients	8,569

(D)—Confinements—

(i) Booked cases	3,414
(ii) Emergency cases	120
(iii) Normal cases	3,160
(iv) Abnormal cases	340
(v) Left before delivery	178

Neo-natal and Maternal deaths :

(i) Maternal deaths	Nil
(ii) Neo-natal deaths	Nil.
(iii) Still births	62
(iv) Premature live born infant	92

Specialised treatments :

(i) Sterilization (Male)	28
(ii) Sterilization (Female)	525
(iii) I. U. C. D. (inserted)	137
(iv) Disease-wise distribution of cases treated and deaths including tuberculosis & S. T. D. of all forms. There should also be death of food poisoning cases.	Enclosed appendix I, II, III

This hospital conducts the following departments.

- (1) Medical (including E. C. G. facilities)
- (2) Surgical (including minor surgery)
- (3) Paediatric.
- (4) Gynaecology and obstretic including anti-natal & Post-natal clinics.
- (5) E. N. T.
- (6) Skin & S. T. D.
- (7) Ophthalmic.
- (8) Dental.
- (9) O. T./P. T.
- (10) Pathological Laboratory
- (11) Blood Bank.
- (12) Family Planning.
- (13) Municipal Staff dispensary (evening from 6.30 p. m. to 8.00 p. m.)
- (14) Anti-Rabic treatment clinic. (Dog bite)
- (15) Issue and authentication of International Health Certificates and innoculation centre.
- (16) Immunization centre of B. C. G., Polio & Triple between 1.30 p.m. and 3.30 p.m.
- (17) Speech therapy and Audiogram.

Blood Bank :

During the course of the year as many as 1,000 blood bottles were collected and used as under :

No. of blood bottles	..	..	..	..	..	1000
No. of voluntary donors	..	..	..	..	..	628
No. of replacement donors	..	..	..	..	..	82
Brought from other hospital	..	..	..	..	..	290
Bottles used for the hospital	..	..	..	..	..	456
Bottles sent to other hospital	..	..	..	..	..	372
Bottles sent for Plasma	..	..	..	..	..	161
Bottles Discarded.	..	..	..	..	..	11

The relatives of the patients were motivated to donate blood. Various social organisations were approached for organising campaigns of blood donation. The following organisations arranged the blood donation drives for the hospital.

1. National College.
2. Mount Carmel's Church.
3. Khar Gymkhana.
4. D. M. C. office, D. A. (Sub.)
5. St. Andrew's Church.
6. Sanjay Gandhi Smruti Saptah.
7. St. Tresa's Church.
8. Bhartiya Janata Party.
9. Sewree Municipal Quarters.
10. Prabhat Colony, Santacruz,
11. St. Peter's Church.
12. Lions Club of Mahim.
13. Akhil Bhartiya Vidyarthi Parishad, Vikhroli.

ELECTRIC CARDIOGRAM

E. C. G. Diagnosis during the year 1981 as follows :

(1) Normal	..	..	..	..	..	922
(2) Hyper Tension	..	..	..	..	..	75
(3) Ischemic heart diseases	..	..	..	..	..	202
(4) Deviation (Rt. axic and left axic)	..	..	..	..	..	156
(5) Heart Block (complete + incomplete)	..	..	..	..	..	275
(6) Sinus Tachicardia	..	..	..	..	..	65
(7) Sinus Branchicardia	..	..	..	..	..	40
(8) Fell of tetreloy—	..	..	..	..	..	Nil.
(9) Auncular Fibrilator	..	..	..	..	..	25
(10) Sinus Arythornia	..	..	..	..	..	120
(11) Hypertrophy	..	..	..	..	..	250
(12) Cor-pulmonale	..	..	..	..	..	160
(13) Anaemia	..	..	..	..	..	200
(14) Angina Pectoris	..	..	..	..	..	125
(15) V. S. D.	..	..	..	..	..	2
(16) C. C. F	..	..	..	..	..	55
(17) A. S. D.	..	..	..	..	..	2
(18) Chest Pain	..	..	..	..	..	425
(19) Rh. heart disease	..	..	..	..	..	25
(20) Dextro cardia—	..	..	..	..	..	Nil
(21) Stenosis Aortic	..	..	..	..	..	4
(22) Pericardia-	..	..	..	..	..	1
(23) Diabetic—	..	..	..	..	..	92

Total 3,221

Total No. of E. C. G. Taken during the year 1981-1,860

Radiology :

X-Ray department is provided with one 200MA capacity of X-Ray machine and one screening machine. The installation of extra X-Ray machine work is being installed in the side room of Existing room and will be started function from next year.

The work done during the year is as under—

Berium studies :

	Indoor patients	Outdoor Patients
(i) Ba-meal	200	83
(ii) Ba-Swallow	45	20
(i i) Ba-Enema	21	Nil
(iv) I. V. P.	130	103
(v) H. S. G.	8	57
(vi) Oral cholecystography	27	5
(vii) Urethrogram	Nil	Nil
Total	431	268

Total No. of patients screened and X-Rayed during the year **12,909**

Pharmacy :

Pharmaceutical preparation for Indoor and Outdoor patients were made during the year as under :—

(1) Total quantity of stock mixture prepared	15,500 lts.
(2) No. of packets of tablets made	2,06,000 pkts
(3) No. of packets of powder made	Nil.
(4) No. of prescription account kept	Nil.
(5) No. of preparation where special drugs issued and account kept.	15,200 lts.
(6) Stock mixture preparation	18,500 Bottles of 5 lts.
(7) Ointment prepared	10,000 Kg.
(8) Lotion prepared : Benzyl Benzoate	17,200 Lts.
(9) Lotion prepared : Calamine	16,100 Lts.

Physiotherapy and Occupationaltherapy :

Indoor Patients	2,215
Out Patients	8,397
Total	10,612

Audiogramme and Speechtherapy :

Out Patients	802
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Immunization work done during 1981 as under

Immunization	1st dose	2nd dose	3rd dose	Booster	Total
(1) Triple Vaccination	1298	1059	803	352	
(2) Polio-Vaccination	1307	1086	883	401	
(3) Tet. Taxoid (A.N.C.)	3723	2218	733		
(4) O.P.D.T.T.				31744	

- (4) New born babies given B. C. G. —2428
- (5) O. P. D. 1 to 14 years children given B. C. G. —249
- (6) Anti cholera —12533
- (7) T. A. B. —325
- (8) Domicillary visit by two Health visitors (excluding—4862
- (9) family planning.) Family Planntng Visits. —3039
- (10) Well baby clinic (supply of Milk etc.) —9574

Issue of authentication of health certificates and immunization against Cholera and Small Pox is done between 2.00 and 4.00 p.m. on all week-days except sundays and holidays.

Summary of attendance of Patients

O. P. D. Total attendance	9,13,558
Casualty total attendance	54,969
Total admissions	12,384
New born babies	1,810 Male } 1,928 Female } 3,738

Municipal Staff Dispensary

Total number of Municipal staff patients., treated at this hospital as under—	
New Cases	3,121
Old Cases	4,287
Total attendanc :	7,408

Nursing Section.

During the year under reference number of nursing staff working at this hospital is 102.

Senior Asstt. Matron	..	..	..	..	..	1
Juniar Asstt. Matron	..	..	..	..	..	1
Sister Incharges	..	..	..	..	..	14
Full trained	..	..	..	..	..	22
Auxilliary ..	..	..	..	..	..	57
Mid-wifes ..	..	..	..	..	..	7
						102
Health Visitors	..	..	..	..	..	2
					Total	104

T. B. Clinic :

Due to shortage of accommodation T. B. Cases were treated in this hospital in general O. P. D. in the Medical Unit. The patients who were diagnosed were referred to the nearby Municipal dispensaries for the further treatment. However, S. M. Injections 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—29,210.

Ambulance facilities :

One ambulance van attached to this Hospital for round the clock services. The van was made available to the general patients at the scheduled rates.

Hearse facilities ; One hearse was provided for round the clock for removal of dead bodies from this hospital is made available for general publics at the Scheduled rates.

Mobile dispensaries :

Two mobile dispensaries vans are attached to this hospital to cater the needs of the people residing in the slums where no medical facilities are available.

Medico-Legal Work :

Type of cases registered during the year.

Average no. of registered cases per day	Accident	Homicide	Suicide	Others	Total
29	3,228	3834	2,071	1470	10603

Metropolitan Magisterial and Session Court cases attended by A. M. O's and C. M. O's during the year as under :—

(1) Metropolitan Magisterial courts cases	..	..	..	..	31
(2) Session courts	..	..	..	..	12
(3) Coronors Court Claim Trilund	..	..	..	..	Nil.
(4) Vehicular acident tri-unal	..	..	..	..	2
(5) Judicial Magistrate Court	..	..	..	..	1
(6) A. C. P s inquiries	..	..	..	..	2
				Total	

Type of Medico Legal work done during the year.

1. Consumption of Poisonous drugs, Liquids etc.
2. Minor Injuries
3. Assault Injuries Injuries
4. Vehicular Injuries.

The information required in various proforma is compiled in appendix—I-II and III.

Distribution of beds according to the sex.

Serial No.	Deptt.	Male	Female	Child	Total
(1)	Medical	23	9	..	32
(2)	Surgical	23	9	...	32
(3)	Paediatric	..	..	32	32
(4)	Gynaec.	..	20	..	20
(5)	Obstetrics	..	70	..	70
(6)	E N. T.	2	2	..	4
(7)	Ophthalmic	2	1	..	3
(8)	Skin	..	1	..	1
(9)	Casualty & Emergency	..	..	..	10
		50	112	32	204

APPENDIX-I

Summary of indoor admissions, discharges, death and last remainings classified according to departments/units.

Serial No.	Department	Admission & last remainings.	Discharges	Transferred to other hospital.	Death	Remaining on 31-12-81
(1)	Medical	2291	2105	34	130	25
(2)	Surgical	1956	1873	26	38	19
(3)	Paediatric	2519	2263	48	173	35
(4)	Gynaecology	836	814	7	..	15
(5)	Maternity	3880	3796	15	..	66
(6)	E. N. T.	518	515	..	..	3
(7)	Ophthalmic	474	472	..	..	2
(8)	Skin-S. T. D.	71	69	..	..	2
Total		12545	11907	130	341	167

Pathology:

The clinical laboratory of this hospital is running under the supervision of one Hon Pathologist appointed. The report of the various test for the year 1981 is as under :

Blood routine	..	14,580	L. F. T.	..	481
E. S. R.	..	8,240	SGOT & PT	..	391
P. C. V.	..	8,240	C S F	..	358
Urine routine	..	21,148	Body Fluid	..	133
Stool routine	..	5,537	Semen	..	377
V. D. R. L.	..	7,631	Sr. Protein	..	168
Widal	..	323	Sr. Bili rubin	..	259
BT & CT	..	516	Gram Stain	..	43
Grouping	..	6,030	Sputum AF B	..	418
RhOD	..	6,030	Pregnancy test	..	197
X-Matching	..	356	A N C Hb.	..	6,060
Blood Sugar	..	8,890	Cholesterol	..	578
Blood urea	..	3,305	Histopath.	..	780
Peripheral smear	..	86	Creatinine	..	167

Family Planning Clinic :

(1) Persons contacted for F. P. education	..	..	..	..	4,215
(2) No. of cases given advice	..	..	..	..	5,280
(3) No. of active cases following F. P. advice	..	..	..	..	2,110
(4) Clinical attendance	..	..	..	..	Nil.
(5) No. of persons visited at home	..	..	..	..	25,801
(6) Vasectomy done	..	..	..	..	29
(7) Tubectomy done	..	..	..	..	540
(8) No. of cases supplied contraceptive jelly	..	..	..	..	158
(9) No. of cases supplied contraceptive Condemn Loops..	..	..	..	..	153
(10) No. of M. T. P. done during the year	..	..	..	..	179
(11) No. of cases supplied contraceptive oral pills	..	..	..	..	225

APPENDIX-II

Disease-wise deaths during the year 1981.

Paediatric Unit.

(1) Gastro-entritis	36
(2) Broncho-pneumonia	32
(3) Pneumonia	8
(4) Bronchitis	4
(5) Bronchopneumonia with C. C. F.	12
(6) Aspiration with pneumonia	7
(7) Encephalitis	3
(8) Tuberculosis with menengitis.	17
(9) Bronchitis with C. C. F.	13
(10) Anaemia (severe)	4
(11) Mersasmus	2
(12) Cardio-respiratory failure	3
(13) Septicemia	7
(14) Pyogenic	4
(15) Post measles with C. C. F.	3
(16) Prematurity	6
(17) Post measles Bronchopneumonia	3
(18) Encephalitis	8
(19) Acute nephritis	2

174

Medical Unit :

(1) Cardio-respiratory failure	38
(2) Cerebrovascular accident	13
(3) Hypertension with congestive cardiac failure	19
(4) Aneamia with CCF with hypertension	22
(5) Pulm T. B.	6
(6) Ischamic H. D.	6
(7) C. C. F. with Kochs	3
(8) Giddiness with unconciousness	2
(9) ICC ovary	2
(10) T. B. Menengitis	5
(11) Amebic collitis	3
(12) Hepatic failure with cirrhosis of liver.	3
(13) Severe aneamia with general debility	4
(14) Hepatic cellure failure	2
(15) CA. stomach with secondaries in liver	1

129

Surgical Unit :

(1) Accidental injury	7
(2) Tiseal performance	10
(3) Acute Hemmerages panicroutitis	9
(4) Post operative complications	8
(5) Severe panitoritis	4

38

Total number of death

341

P. S. PARALKAR,
Medical Superintendent,
K. B. Bhabha Hospital, Bandra.

APPENDIX-III
Classification of patients according to Sex

Department.	O. P. D. Sexwise Departmental Attendance.					Casualty Sexwise Departmental Attendance				
	Male	Female	M/Ch.	F/Ch.	Total.	Male	Female	M/Ch.	F/Ch.	Total.
Medical ..	1,13,047	1,04,592	..	..	2,17,639	8,250	6,690	..	..	14,940
Surgical ..	51,880	45,242	40,682	38,240	1,76,044	5,192	4,988	4,115	3,865	18,160
Skin ..	34,031	31,905	28,340	26,185	1,20,461	..	..	..	..	..
Paediatric ..	..	..	80,662	78,465	1,59,127	..	..	8,960	8,820	17,780
A. R. V. ..	4,322	4,212	4,062	4,044	16,640	624	586	429	491	2,130
O. T. & P. T. ..	3,140	2,911	2,530	2,031	10,612	..	..	..	..	..
Gynaecology ..	..	42,188	..	..	42,188	..	1,137	..	..	1,137
A. N. C. ..	..	13,611	..	..	13,611	..	120	..	..	120
P. N. C. ..	..	..	3,894	4,095	7,989	..	..	..	..	..
Dental ..	10,717	9,303	9,209	9,640	38,869	27	21	19	23	90
E. N. T. ..	6,400	6,237	5,230	5,408	23,275	48	43	42	37	170
Ophthalmic ..	8,237	8,410	7,560	7,470	31,647	35	30	32	23	120
Speech Therapy & Audiology	190	201	216	202	809	..	..	..	..	..
Total	2,31,964	2,68,812	1,82,385	1,75,750	8,58,911	14,176	13,615	13,597	13,259	54,647

O. P. D.	8,58,911
Casualty	54,647
Grand Total	9,13,558

Future Projects and Development of the Hospital :—

The work of development of this hospital is proposed to provide the accommodation of 500 cots. The specimens of foundation were collected as the work of preparation of plans and estimates is in progress.

P. S. PARALKAR,
 Medical Superintendent,
 K. B. Bhabha Hospital, Bandra.

Dr. R. N. COOPER MUNICIPAL GENERAL HOSPITAL (JUHU)

In the year 1981-82, Dr. R. N. Cooper Municipal General Hospital, Juhu has completed 11 years of services, the hospital rendering Medical relief to the ailing persons in the western Suburbs of Bombay.

Medical Superintendent

Dr. (Smt.) Kusum Shah, M. D., D. G. O., appointed from 8-3-76.

Assistant Medical Officer (Administration)

Dr. (Smt.) S. K. Parshad, M. B. B. S., D. G. O. was appointed as Assistant Medical Officer (Administration) by Maharashtra Public Service Commission from 15-10-73 at Dr. R. N. Cooper Municipal General Hospital and continued to hold the said post through out the year under report.

Assistant Medical Officer

Dr. (Smt.) H. A. Mangat, M. D. D. C. H., Assistant Medical Officer from 1-11-75 and continued to hold the said post through out the year under report.

Honorary Staff

Medical Department.

- (1) Dr. J. C. Joshi, M. D. appointed from 6-10-70 and promoted as Associate Honorary from 3-1-75.
- (2) Dr. A. K. Joshi, Honorary appointed from 1-10-78.
- (3) Dr. R. D. Darne (Bom.) M. R. C. P. (U. K.), F. C. C. P. (U. S. A.) appointed from 2-5-72 was on study leave from 23-6-73 and has resumed duty from 11-10-75.
- (4) Dr. R. N. Shetty, M. D. Assistant Honorary appointed from 12-4-78.

Surgical Department

- (1) Dr. M. B. Wagle, M. S., F. C. P. S. with a fellowship in Plastic Surgery of Washington University Medical School, U. S. A. was appointed from 1-10-70. He is on leave from 1-10-80. Dr. A. C. Pinto is appointed in his place from 10-8-81.
- (2) Dr. Dastur, D. K. M. S. (Bom.) appointed from 13-6-72.
- (3) Dr. S. R. Padhye, M. S. assistant honorary from 1-6-78.
- (4) Dr. S. V. Shetty, M. A., M. S. M. S. appointed from 14-2-78.

Obst. and Gynaecology Department

- (1) Dr. Sharad H. Shah, M. D. (Bom.) D. G. O., D. F. P., F. C. P. S. is working as Honorary from 26-7-73.
- (2) Dr. (Smt.) K. S. Shah, M. D. D. G. O. working in Unit I from 1-1-80.
- (3) Dr. S. S. Palnitkar, M. D. (Bom.) D. G. O. F. C. P. S. M. R. C. O. G. (Lond.) appointed as assistant Honorary from 15-2-73.
- (4) Dr. A. G. Kale, M. D. (Bom.) D. F. P. F. C. P. S. appointed as assistant Honorary from 10-9-73.
- (5) Dr. S. D. Chaubal, M. D. D. G. O. D. F. P. was appointed as assistant honorary from 26-7-73.
- (6) Dr. S. J. Penkar, M. D. D. G. O. D. F. P. assistant honorary appointed from 19-10-78.

Paediatric Department

- (1) Dr. G. S. Hathi, M. D. (Paed.) D. C. H. Honorary was appointed from 17-4-72.
- (2) Dr. (Smt.) S. Y. Joshi, M. D. C. H. assistant Honorary appointed from 13-4-78.
- (3) Dr. P. N. Patnekar, M. D. (Paed.) D. C. H. Honorary was appointed from 21-9-73.
- (4) Dr. V. S. Kulkarni, M. D. D. C. H. Assistant honorary appointed from 15-5-79.

Orthopaedic Department

- (1) Dr. R. N. Katre, M. S. (Ortho.) appointed as honorary assistant surgeon from 16-6-75.
- (2) Dr. R. H. Pathak, M. S. Assistant honorary appointed from 8-2-79.
- (3) Dr. A. J. Thakur, M. S. (Ortho.) F. C. P. S. (Ortho) appointed from 14-1-75 as honorary assistant surgeon (Ortho.).
- (4) Dr. S. V. Shah, appointed from 1-4-81 as Assistant Honorary.

Ear, Nose, Throat Department.

- (1) Dr. M. V. Ingle, M. S. (Gy. Surgeon) M. S. (E. N. T.) appointed from 1-6-72 and deputed to K. E. M. Hospital.
- (2) Dr. S. P. Wagh, Honorary Assistant (M. S.) D. C. R. E. (E. N. T.) Surgeon appointed from 20-4-76.
- (3) Dr. S. S. Joshi, M. S. D. O. R. E. as assistant honorary appointed from 22-2-80.

Radiology Department

- (1) Dr. L. M. Pancholia, M. D. (Radiology), D. M. R. E. is appointed from 11-8-75.

Pathology Department

- (1) Dr. (Smt) A. S. Mehta, M. D. (Patho.) appointed from 1-8-72 as honorary Assistant Pathologist
- (2) Dr. S. A. Nimkar, M. D. D. D. P. E. Assistant Honorary appointed from 14-8-80.

Anaesthesia Department

- (1) Dr. U. V. Desai, M. D. (Bom.) appointed from 10-1-77

Skin and V. D. Department

- (1) Dr. D. D. Deshpande, M. D. D. V. D. appointed from 10-2-76 as Honorary Assistant.

Psychiatric Department

- (1) Dr. V. N. Vahia, M. D. D. P. M. Honorary Assistant is appointed from 15-6-77.

Ophthalmic Department

- (1) Dr. M. V. Gandhi, D. O. M. S. M. S. D. O. (London) F. R. C. S. Honorary Assistant Surgeon (Oph.) is appointed from 3-5-72.
- (2) Dr. M. V. Patel, M. S. D. O. M. S. F. C. P. S. appointed from 22-5-74.

Dental Department

- (1) Shri B. B. Wadgama, B. B. S. Honorary Assistant is appointed from 1-7-78.
- (2) Dr. A. B. Shroff, B. D. S. Honorary Assistant is appointed from 1-6-74.
- (3) Dr. V. C. Shroff, B. D. S. Honorary Assistant is appointed from 1-6-74.
- (4) Dr. B. S. Shroff, M. D. S. Honorary Assistant is appointed from 1-6-74.

Special Clinics**T. B. Clinic Department**

- (1) Dr. D. T. Jadhav, M. D. Assistant Honorary is appointed from 4-9-78.

Neurosurgery Department

- (1) Neurosurgery O. P. D. is conducted with the help of Neuro-Surgery Department of K. E. M. Hospital on every Wednesday.

Neonatology Clinic

- (1) Neonatology Clinic is started from 1-8-78 and conducted by Dr. Hathi, Dr. Patnekar, Assistant Honorary (Paed.).

Nutrition Clinic

- (1) Nutrition Clinic is attached to Paediatric O. P. D. and has on every Friday from 9-00 a. m. to 4-00 p. m. started functioning from February 1972.

Hansen's Clinic

- (1) Hansen's Clinic is managed by Acworth Leprosy Hospital, Wadala on every Friday from 9-00 a. m. to 4-00 p. m.

Diabetic Clinic

- (1) Diabetic Clinic is conducted by Dr. J. C. Doshi, on every Thursday from 8-00 a. m. to 10-00 a. m.

School Clinic

- (1) School Clinic Department started functioning from July 1973. Dr. Surekha, Honorary Assistant is appointed from 12-10-80.

Hospital**Expenditure :**

(1) Amount spent on Inpatients	..	..	..	..	1,30,06,559
(2) Amount spent on Out-patients	..	..	..	..	65,03,279
(3) Total expenditure excluding new works	..	..	..	..	1,95,09,838
(4) Expenditure on New-works	..	..	..	..	Nil

Approximately—

(1) Average cost per patient per day	..	..	..	..	48.28
(2) Average cost inpatient admission	..	..	..	..	345.62
(3) Average cost per out-patient attendance	..	..	..	..	6.98
(4) Average cost per out-patient admission	..	..	..	..	18.49

II A Results—

(1) Schedule bed strength	..	..	..	..	520
(2) Daily average in-patients in wards	..	..	..	..	650
(3) Total no. of admissions including those brought over from the previous year	..	..	..	..	38,239
(4) Total no. of patients discharged—					
(i) As cured	..	..	..	..	37,904
(ii) Left against medical advice or got discharged	..	..	..	..	335
(iii) Expired including neonatal & still births	..	..	..	..	2,326
(iv) Remained in the hospital on the last day	..	..	..	..	607
(v) Average stay of in-patient	..	..	..	..	7 days

B	(1)	Total no. of new out-patients admission	..	..	..	3,51,695
	(2)	Daily average no. of out patients	..	..	..	938
	(3)	Total no. of out patient (New & Old)	..	..	..	9,32,076
	(4)	Daily average no. of out patients	..	..	..	2,536
	(5)	Total no. of casualty attendance (M. L.)	..	..	..	7,69,096
C	(1)	Total no. of operation in patients	..	..	6429+1749 (F. P.)=8178	
	(2)	Total no. of operations on out-patients	..	..	..	33,172
	(3)	Total no. of plaster on patients	..	..	..	18,979
D	Confinents					
	(1)	Booked cases	..	..	..	3,208
	(2)	Emergency cases	..	..	..	530
	(3)	Normal	..	..	..	2,361
	(4)	Abnormal	..	..	..	859
	(5)	Neonatal and Maternal Deaths	..	..	..
	(i)	Maternal Deaths	..	..	..	20
	(ii)	Neonatal Deaths	..	..	..	25
	(iii)	Still Births	..	..	..	177
	(iv)	Premature ; Infants	..	..	..	200
Sterilizations :						
	(6)	(1) Male	..	..	..	19
		(2) Female	..	..	..	853
III—Radiology						
	(1)	Total no. of patients investigated	..	..	..	55,012
	(2)	Total no. of X-rays taken	..	..	..	78,386
	(3)	Barium investigations	..	..	..	846
Special Investigations						
	(1)	Splenogram	..	..	..	..
	(2)	Cystourethrogram	..	..	..	72
	(3)	Singogram	..	..	..	8
	(4)	Angiogram	..	..	..	4
	(5)	Intra venous pyelographies	..	..	..	333
	(6)	Myelogram	..	..	..	..
	(7)	Cholecystogram	..	..	..	..
	(8)	Bronchogram	..	..	..	..
	(9)	M. M. R.	..	..	..	1858
IV—Blood Bank						
	(1)	(i) Total no. of blood samples collected	..	..	..	9666
		(ii) From voluntary Donors	..	..	..	1947
		(iii) From O. P. D. Patients	..	..	..	309
		(iv) From Other hospitals	..	..	..	550
	(2)	(i) Total no. of bottles supplied to wards	..	..	..	2624
		(ii) Total collection of blood bottles	..	..	..	3649
School Clinic						
	(1)	Total no. of school children treated	..	..	..
		(i) New	..	..	..	2107
		(ii) Repeat	..	..	..	15,771
		(iii) Referred	..	..	..	17,878
	(2)	Total expenditure on clinics	..	..	..	1,49,281.75
VI—Physio Therapy and occupational Therapy						
	Total no. of attendance at the centre—					
	(i)	Total no. of out-patients	..	..	..	22,813
	(ii)	Total no. of In-patients	..	..	..	48,157
VII—Deficiencies :						
(1) Over crowding of patients in the wards. Against 520 schedule beds the daily average in patients strength in the ward is 650. The over crowding is particularly in Male Medical, Female Medical, Male Surgical, Post Natal, Paediatric and Orthopaedic Wards. There are no separate wards for E. N. T., Ophthalmic and Female Orthopaedic and burns cases.						
(2) Inadequate waiting space in O. P. D. Inadequate space for injections and dressing departments. (3) Lack of centralised hospital stores. (4) Medical staff working in O. P. D. needs to be augmented for speedy disposal of patients.						
Suggestions j—						
Recreational Facilities :						
Some sort of recreational facilities such as library.						
(1) Indoor games, television etc. may be provided to indoor ambulant patients. (2) Gift shop is needed for the benefit of patients. (3) Proposals for additional constructions has been approved but detail plans and estimated have not been worked out. It is necessary to have phased programme for new constructions to improve the hospital facilities. (4) Burn cases are increased in the surgical wards. It is suggested that there should be separate burn wards and the same will be provided when the Central Ambulance Scheme unit starts. It has a provision of 10 bedded burns wards.						

MEDICAL RECORD DEPARTMENT**In-patient Division :—**

The number of schedule bed strength during the year was 520. There was constant over crowding in the hospital wards, particularly in the male medical, female surgical, post-natal, paediatric and orthopaedic wards.

During the year 1981 the average no. of in-patients in the hospital was 650 as against 630 and 620 during the year 1980 and 1979 respectively. The total no. of patients admitted for hospitalization during the year under report was 37632 as against 37662 and 37415 respectively for 1980 and 1979. The average stay of in-patients was 7 days during the year under report as against 7 and 8 days respectively, in the year 1980 and 1979.

Results of treatment of Indoor-patients :

Out of total no. of 38239 including 607 brought over from the previous year 37004 were considered as cured 335 left the hospital either against medical advice or were otherwise discharged and 2125 died (excluding 177 still birth and 25 neonatal deaths, L. W.—Nil, 17 casualty deaths) At the end of the year 607 patients were in the hospital under treatment.

Deaths Classified :—

Out of 2148 deaths 679 died within 24 hours of admission, 499 after 24 hours but within 72 hours of admission, 744 deaths took place after three days from the date of admission, 205 premature infant deaths, 23 died at casualty. The figures are exclusive of 177 still births and 25 neonatal, L. W. Nil, Death rate was 7.5 against 7.4 during the last year. Total no. of autopsy performed during the year under report was 396 against 332 and 364 for the year 1980 and 1979, respectively. Autopsy rate was 9.7 for the year 1981 as against 9.3 and 9.6 for the year 1980 and 1979. All these autopsies were performed by the Coroner's Surgeon.

Confinements :—

During the year under report the total number of confinements were 3220 and abortions 1331.

Operations :—

8178 operations were performed on in-patients and 33172 operations were performed on out-patients.

OUT-PATIENTS DEPARTMENT**Out-patients :—particulars.**

The total no. of new cases papers issued during the year under report was 351695 against 341978 in the year 1980 and 343358 in the year 1979. The total no. of out-patient attendance (New and Old) including casualty cases was 932076 bringing the average total attendance 2536 per day.

Casualty cases registered during the year were 69096 as against 68743 and 76675 during the year 1980 and 1979 respectively.

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 cases.

(1) Presidence Magistrate Court	..	..	..	..	346
(2) Sessions courts	..	..	..	..	48
(3) Motor accident tribunal	..	..	..	..	35
(4) Other courts	..	..	..	..	4

During the year approximately 346 depositions were filled in the Coroner's court.

Medical Certificates :—

(1) Under workmen's compensation act	..	..	..	95 (10 M. E.)
(2) Medical opinion certificates	..	..	..	2598 (700 M. E.)
(3) Injury certificate to patients in medico-legal cases	..	..	..	300
(4) Injury certificates to police in medico-legal cases (free)	..	..	..	1745
(5) Injury certificates to Municipal employee injury and leave (free)	..	..	..	100
(6) Certificate for insurance purposes	..	..	..	20
(7) Essentiality certificates for reimbursement of medical expenses to Govt.	..	..	..	20
(8) Accident Insurance certificates	..	..	..	292

OTHER ACTIVITIES**Training Interns :—**

Training interns of the Seth G. S. Medical College are continuing to take their training at the Dr. R. N. Cooper Municipal General Hospital, Juhu.

Hearse and Ambulance Services :—

The ambulance service is made available to the public at the hospital. The ambulance services are available in emergency to any ailing patients on accident case to be transferred to any of the hospitals in Bombay. One hearse is provided for removing dead bodies at the hospital for Western Suburb

Mobile Health Unit—**Income from Ambulance and Hearse :**

During the year under report the income from ambulance and hearses was Rs. 27,407 against Rs. 21,790 in the previous year.

Mobile Health Unit—

A mobile van was donated by Bombay Pradesh Congress Committee on 1-7-73. The mobile health unit was started from 10-7-73 at this hospital. During the year under report Mobile Health Unit has completed five and half year services. It is being utilised at present for rendering medical aid to the slum areas in the form of :

- (1) Medical Treatment for minor injuries and ailments.
- (2) Immunization programme
- (3) Health education in family planning.

It visits the slum areas from Juhu, Vile Parle to Malad on the Western Suburbs on all days of the week except Sundays from 8-30 a. m. to 1-00 p. m.

The following staff is postioned in the Mobile Health Unit j—

- (1) One Doctor (Clinical Assistant).
- (2) One Interns
- (3) One staff nurse.
- (4) One Labourer.

Work done at Medical Mobile Health Unit in the year 1981—

(1) Total no. of patients seen and treated (In slum communities).	67401
(2) Total no. of referred to General Hospital	2772
(3) Total no. of immunization carried out	2685

Clinical Facilities in Modern Medicine, Mid-wifery Gynaecology and surgery to Homoeopathic College Students

Under S C. R. No. 3371 of 18-2-82 and C. R. 351 of 22-6-72 facilities were given to the Homoeopathic students of Homoeopathic education society from 1-5-71 to 31-5-74 for three years. Further extension is also granted by M. C. for three years from 1-6-74 to 31-5-77 vide sanction No. MDC-8928 of 15-6-77 to 31-5-80 vide S. C. R. No. 3712 of 8-2-80. This was discontinued from 1-6-80/ as Medical students of G. S. Medical students are being deputed here for training under directions of M. C. I.

Medico Social Service Department—

The social service department was started on 2-10-1972 for cases needing Physco-social worker who was appointed on 2-10-72. During the year under report social service department has completed 8 years services.

Following is the report of the cases that were given assistance in different areas of social Services.

General social work complied of work done in O.P.D. and ward level. Further to facilitate efficient functioning social work was divided between two workers and division was as follows :

(1) **Gynaec :** Counselling was done in the cases of (1) Unmarried mothers, whereby they were advised in the field of adoption/termination and rehabilitation. 137 such cases were counselled.

(2) **Married couples :** They were helped in the field of family planning where Termination/continuation was advised. Mothers already having three children were successfully advised for tube ligation and others were advised MTP/for spacing were motivated for loop insertions. One hundred and two such cases were reached throughout the year.

(3) **Anti 'D' for negative blood group ladies :** 67 ladies were referred for Anti 'D' PBF sanction. The same were reached by way of financial assistance.

(4) **Follow up done for referred cases and letters were sent to others to report to this hospital.** Paediatric : 100 kgs. of milk powder was distributed to patients suffering from Marasmus T.B. and others referred cases. Over 25 patients took regular benefit of this project. Inj. Cloxaxill was provided entirely on voluntary donation basis to needy patients in various wards. 15 such cases vials were donated by a single donor alone.

Miscellaneous : Biscuits, fruits etc. were donated by individual donors from time to time to patients admitted in our hospital.

Medical : Special mention needs to be made of cap Rifempicin project, which entailed special voluntary efforts including medical and organisational type.

Hearing aid : Four patients were distributed H. A. during the year.

Discharge cases : 34 such cases were patients attended to by given clothes, financial aids were given as requested by the cases. Three cases were sent to their native place. Train fare was also arranged for these cases. Paed. follow up done for regd. cases. Premature children were followed up by call letters. N.S.S. students of Mithibai college, Parle, Nutan Mahila, M.V.L.U. college, N.M. College etc. were guided.

Gynaecology and Obstetrics Department

Following is the account of work done in the Gynaec and Obsteric department during the year under report :—

(1)	Total no. of O.P.D. Attendent (New)	..	..	..	..	..	25994
(2)	Total no. of admissions	..	..	..	..	..	8999
(3)	Total no. of confinements	..	..	..	..	..	3220
	(i) Normal	..	..	..	..	..	2361
	(ii) Abnormal	..	..	..	..	..	859
(4)	Total no. of booked cases	..	..	..	..	..	3208
(5)	Emergency cases ?	..	..	..	..	..	530
(6)	Abortions : (i) Threatened	..	..	..	..	..	179
	(ii) Incomplete	..	..	..	..	..	1152
(7)	Total no. of operations : (i) Major	..	..	..	..	..	1749
	(ii) Minor	..	..	..	..	..	2005

Undergraduated from G. S. M. College are attending the department for training. Post-graduates seminars and discussions are being held periodically at least once a month.

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 to 5.00 p.m. All O. P. D. working days and during the year under report it has completed 81/2 years of services.

The staff consists of a part-time family planning officer, full time medical officer, store-keeper -cum-clerk and an attendant and field worker.

The following services are offered—

(1)	Distribution of condome	..	..	..	..	..	12220
(2)	I.U.C.D. insertions	..	..	..	..	..	409
(3)	Oral contraceptives	..	..	..	..	..	117
(4)	Other conventional contraceptives like diaphragm-Nil, Jelly-4, from tablet-Nil	..	..	..	..	..	19
(5)	Vasectomy	..	..	..	..	..	828
(6)	Tubectomy—This includes puerperal sterilisation both abdominal and vaginal	..	..	..	..	..	988
(7)	The medical termination of pregnancy is started from April 1974 and total M.T.P. done during the year under report was	..	..	..	..	..	988

The centre also conducts other regular progress like maternal health education programme in addition to Family planning information to antenatal and postnatal patients. It renders guidance services to those who desire it.

Following are the figures of attendance at the centre :—

(1)	New cases	..	..	..	..	..	3633
(2)	Condoms	..	..	..	..	..	12220
(3)	I.U.C.D.	..	..	..	..	..	409
(4)	Oral contraceptives (tablet)	..	..	..	..	..	117
(5)	Tubectomies	..	..	..	..	..	828
(6)	Vasectomies	..	..	..	..	..	19
(7)	Diaphragms	..	..	..	..	..	988
(8)	M.T.P.	..	..	..	..	..	988
(9)	Appplivator with jelly	..	..	..	..	..	3

Immunization centre :—

Polio.	1st dose ?	..	..	..	..	..	1138
	2nd dose	..	..	..	..	..	775
	3rd dose	..	..	..	..	..	687
	Booster dose	..	..	..	..	..	198
Total							2798
Triple	1st dose	..	..	..	..	..	1138
	2nd dose	..	..	..	..	..	775
	3rd dose	..	..	..	..	..	687
	Booster dose	..	..	..	..	..	198
Total							2798
Totanus	1st dose	..	..	..	..	..	30399
	2nd dose	..	..	..	..	..	1789
	3rd dose	..	..	..	..	..	1348
Total							33536
B. C. G.	O. P. D.	..	..	..	..	..	1566
	Ward (In patient)	..	..	..	..	..	2626
Total							4192
Antirabic treatment							17658

PAEDIATRIC DEPARTMENT

During the year under report 30384 were treated in the out-patient department and 5269 were admitted as in-patient.

Screening and Mantoux testing : These include respiratory cases and family contacts of those suspected or diagnosed as Tuberculosis Mantoux testing was done in about 13838 cases.

PREMATURE BABY WARD

The paediatric department also manages a premature baby ward (started functioning from October 1971 with a capacity of 7 cribs) and same is increased now to 10 cribs but actual figure ranges to 15 to 20 per day.

During the year under report 369 were admitted as in-patient and 203 expired. There is a regular premature baby follow up once in a week which has shown good results. A well baby clinic is also run in Gynaec O. P. D. by the Paediatricians.

NUTRITION CLINIC

A Nutrition clinic attended to Paediatric O. P. D. started functioning from February 1972. The work done in the year 1981 as under :—

Total nutrition clinic days	..	..	..	..	..	229
Total cases	..	..	..	..	..	645
Indoor cases	..	..	..	..	..	117
Feeding advice given	..	..	..	..	..	1079

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 2558 diabetics (including new and old are treated and followed up every week. Cardiology out-patients conducted on every Saturday to look after patients discharged from coronary care unit. This department consists of two registrars and three house officers.

The total no. of patients admitted during the year 1981, in the Medical Units was 8871 (5272 male patients, 3599 female patients) as against 8887 in the year 1980 and 8477 in the year 1979.

Heart disease patients were treated in the Medical ward during the year 1981. 8991 E. C. G.'s were taken during the year under report.

The O. P. D. attendance (New cases) was 48,748. A large increase in the no. of patients with Gastroenteritis disease was noted during the year 1981.

I. C. C. U. : This department started functioning from 1-3-75. The total no. of patients admitted during the year 1981 in I. C. C. Unit was 330.

T. B. Clinic :						
New cases	..	..	..	..	..	1720
Old cases	..	..	..	..	..	12631
						14351

DEPARTMENT OF SURGERY

Department of surgery consists of two units each staffed with an Honorary, Assistant Honorary, One Registrar and two house surgeons. In addition there is surgical Jr. A. M. O. and surgical tutor. The no. of Schedule beds allotted to the surgical department is 20 on M. W. and 20 in P. W. for each unit. Surgical department is well equipped to manage both emergency and routine problems. Our institution also caters to the needs of other suburban hospitals by accommodating their problem cases. Each unit has out-patients and emergency admission days on alternate days. Dressing department is attached to the surgical O. P. D. and also Minor surgery theatre, attached to the surgical O. P. D. managed by Minor surgery registrar with help of respective surgical unit.

Specialized work :

- (1) Hepato-biliary and gastrointestinal work, major surgical procedures like shunt for portal hypertension, pancreatoduodenectomies, hepatic.
- (2) Paediatric surgery.
- (3) Plastic surgery. Reorganization of the O. P. D. We hope to start surgical gastroenterology O. P. D.

The following is the account of work done in the department during the year.

(1) Total new O. P. D. attendance	..	..	..	..	54729
(2) Total admissions	..	..	..	..	8465
(3) Operations					
(a) Major	..	..	..	..	2075
(b) Minor	..	..	..	..	25732
(c) Emergency	..	..	..	..	665
4. Total no. of patients treated in minor surgery was	..	..	..	..	25732

DEPARTMENT OF PSYCHOLOGICAL MEDICINE

The department started functioning from 15-6-77, It consists of one assistant honorary, one registrar, one social worker and one labourer on the schedule staff.

The following is the statistical data of the work done during the year for the period 1981.

(1) Total O. P. D. patients (New cases)	..	..	..	1525
(2) Total no. of O. P. D. conducted	..	..	..	145
(3) Average attendance (New cases)	..	..	..	115
(4) Average attendance (Old cases for follow up) ?	..	..	..	753
(5) Total no. of patients treated with E. C. T. s (New cases)	..	..	..	262
(6) Total no. of patients treated with insulin (New cases)	..	..	..	46
(7) Total no. of E. C. T. sessions conducted	..	..	..	1539
(8) Total no. of patients treated with supportive psychotherapy	..	..	..	122
(9) Total no. of patients for social case work (New cases)	..	..	..	214
(10) Total no. of patients for special work	..	..	..	285
(11) Total no. of insulin sitting conducted	..	..	..	893
(12) Total no. of social case work sessions	..	..	..	1043
(13) Behaviour therapy No. of patients	..	..	..	53
(14) No. of patient for psychological testing	..	..	..	314
(15) No. of indoor patients	..	..	..	438
(16) Sex education sessions	..	..	..	141
(17) Total no. of patients for sex education	..	..	..	67
(18) Total no. of patients referred to day care centre	..	..	..	567
(19) Average attendance at day care centre per day	..	..	..	..
(20) Total no. of patients for child guidance	..	..	..	111
(21) Play therapy sessions patients	..	..	..	348
(22) Group therapy no. of sessions patients	..	..	..	450
(23) Group therapy no. of sessions	..	..	..	76
(24) Family therapy no. of patients	..	..	..	22
(25) Family therapy no. of sessions	..	..	..	93
(26) Marital counselling no. of patients	..	..	..	37
(27) Marital counselling no. of sessions	..	..	..	36

Impressions : A proposal for setting up a Psychiatry ward with day care centre was sanctioned in 1979. Design of the construction of this ward were drawn out by the Engineering in connection with the psychiatric department construction of the ward is now nearing completion.

Three out of the four residents appeared for D. P. M. Examination and passed the same. Dr. Doongaji, Honorary Psychiatrist at the K. E. M. Hospital visited the department in early 1979. A proposal to alter the method of record keeping of the department was discussed during his visit. In continuation with the same the department now maintaining a detailed file of case records of every patient admitted for treatment.

Besides this, registration of new and old cases is now being done by the departmental stenographer, we hope to cater to larger population in the next year. Our follow-up services recorded a larger population load. This indicates that larger number of patients continue treatment for a larger period of time.

The department has received a larger number of referrals from other departments. A proposal to start joint learning sessions with Medical department is being worked out. About sixty books covering several topics were brought for the department this year.

Zonal and national conferences of the India Psychiatric society were attended by members of our department.

DEPARTMENT OF ORTHOPAEDICS

Orthopaedic department consists of two Assistant Honorary, two registrars and two house officers. Following was the work done in this department during the year under report. In view of the heavy O. P. D. and the indoor work to dispose the patients efficiently, the record section and O. P. D. patients require with two clerical staff and one steno to manage the same.

Out door attendance	..	..	..	..	23519
Indoor admissions	..	..	..	..	2798
No. of operations	..	..	..	..	635

The department is well equipped to cope with the large no. of traumatic cases brought to the hospital. This is the only public hospital in the western suburbs having in Orthopaedic department. It is necessary to have a separate ward for female and paediatric orthopaedic patients and operation theatre and plaster room with attached dark room for quick development of X-Ray films.

EAR, NOSE AND THROAT DEPARTMENT

Ear, nose and throat department was started from June 1972. All the routine and emergency ear, nose and throat surgical procedure with constructive ear surgery and stapedectomy are now undertaken for which necessary operating microscope is available.

There are three O. P. D.s and two operations sessions each week. All the routine investigations like caloritic 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	..	..	..	..	21225
New admissions	..	..	..	..	922
Operations	..	..	..	..	854

AUDIOLOGY AND SPEECH THERAPY DEPARTMENT

The functioning of the audiology and speech therapy unit started from 19th July 1976. The unit have a Audiologist on its staff. The following is the account of work done during the year under report.

Audiograms	..	..	..	..	445
Speech cases	..	..	..	..	59
Total ..					504

OPHTHALMIC DEPARTMENT

There are one assistant Honorary, one Registrar and one house surgeons on its staff. The department needs a separate ophthalmic ward and an operation theatre to improve the working. The following is the account of work done during the year.

O. P. D. Attendance	..	..	..	..	20494
Total no. of admissions	..	..	..	..	895
Total no. of operations	..	..	..	..	860

Skin and Venerology Department

During the year under report 29181 new cases were treated at the out-patient department and 107 were admitted as In-patient. The following investigations were carried out in the Laboratory.

(1) Skin biopsy	..	..	..	..	236
(2) Venereal disease investigations	..	..	..	..	37538

Leprosy unit started from March 1974 and it functions on every Friday during the year under report 283 new cases were treated at the out-patient department.

DENTAL CLINIC

There are four part time surgeons, one staff nurse and one labourer on its staff.

This department attends the school clinic children, referred patients and general O.P.D. patients having Dental complaints are also examined and treated. The following is the account of work done in this department during the year 1981.

Total no. of patients examined :—

	General O.P.D.	School clinic
No. of medications	7676	603
No. of dental extraction	2881	325
No. of sealing teeth	127	383
No. of x-rays recorded	346	13
No. of filing cement	648	599
No. of minor surgical procedure	52	1
		under exam.

SCHOOL CLINIC DEPARTMENT

A school clinic was started functioning from July 1973. It is functioning in paediatric, ophthalmic, aural and dental departments where medical examination of school children from Suburban municipal schools between Bandra and Borivli is done.

The common ailments found among the children were malnutrition, vit 'A' deficiency, Anaemia, respiratory infection, scabies, pyoderma, and pharyngitis, Tonsillectomy operations were performed on 55 cases in the year 1981.

Total no. of school children treated :—

(1) New	..	..	..	..	..	..	2107
(2) Repeat	..	..	..	..	..	..	15771
(3) Referred	..	..	..	..	..	..	17878

The total expenditure on school clinic is Rs. 1,49,281.75 The details are as under :—

(i) Establishment	1,37,819.88
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Contingencies

(ii) Contingencies and miscellenous	16,63,660.00
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Medicine and Instruments

(iii) Medicine and Instruments	11,374.12
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Juhu Lions Dental Clinic

Establishment	28,135.95
Medicine and Instruments	920.70
Labour Technical and others	..	..	..	..	..	..	7,715.08
Total expenditure of establishment	..	..	..	..	..	..	93,92,165.00
Total expenditure of medicine and instruments	..	..	..	..	..	..	55,79,208.00

PATHOLOGY DEPARTMENT

Following investigations were done in the Pathology Department.

Investigations	Total No.
Biochemical	107933
Serological Khan Test	11817
Haematological	27662
Exam. of puncture fluids	1748
Histopathology	3315
Bacteriology	
(1) Culture	5267
(2) A.F.B. Smears and Diphtheria smears	163467
(3) O.P.D. laboratory routine work	5420
(4) School Clinic	2110
Nursing Staff	
Matron	1
Jr. Asstt. Matrons	2
Sisters Tutors	2
Ward Sisters	25
Staff Nurses	92
Auxillary Nurses	80
Theatre Assistant	7
Health Visitors	2

Nursing School :

There are 52 student nurses in the Nursing school. A batch of 19 students is taken for General Nursing Course in March 1981.

One of the student nurse Smt. Leena D'sa had attended international congress of nurses at Sanfrancisco (U.S.A.) from 28-6-81 to 3-7-81. She was selected on the National level as a S.N.A. (students nurses association) delegate. This is for the first time a Nursing School attached to Bombay Municipal General Hospital getting the honour of sending a student delegate to I.C.N. Congress (International Nurses Congress). She also had received the Mayors Award for the Best Student nurse of the year 1981.

Student Nurses had started going to Marol village and Malwani health centre for the Community Nursing practice. The students are accompanied by P. H. Nurse tutor. They have conducted once immunization programme at Marol village in November 1981. Many families have taken the advantage of this programme.

Student Nurses Association celebrates New Year, Diwali, Christmas every year and organise cultural programmes speeches etc.

TNAI Bombay City Branch every year celebrates Nurses week from 6th May to 12th May. Sports, seminars and cultural programmes were organised during this week. All the hospitals in Bombay City Staff participate in the programmes organised by TNAI. Our hospital Nursing staff have presented two dances in the Birla Matushri Hall and got the prizes. Maximum number of prizes were wintred by our Nursing Staff in the sports.

Smt. Joshi sister Tutor and Smt. Melekar, displayed two models in the exhibitions at Jaipur Conference organised by TNAI. Both the models were given prizes.

Smt. Rosy George, Staff Nurse is also attending post graduate nursing course i.e. B.Sc. Nursing at the Institute of Nursing Education at J. J. Hospital, Bombay and is on study leave for two years.

Smt. R. Rawal, Staff Nurse is also attending Trade Unions diploma course and is on study leave.

Smt. Ranade, Asstt. Matron has successfully completed Nursing Administration diploma for R.A.K. college of Nursing, New Delhi on 15-5-81.

Training of Medical students of G. S. Medical college :

Medical students training started from July 1979 at Dr. R. N. Cooper Hospital. The following departments of this hospital have been recognized by the University for the purpose of undergraduate Teaching-Medicine, Surgery, Gynaec and Obst., Paed., and ortho. The students of G. S. Medical college are attending the hospital from April 1979 onwards. The following members of the staff have been recognised by the University as post graduate teachers. Dr. J. C. Doshi, Dr. R. D. Darne, Dr. Dastur, Dr. Wagle, Dr. S. H. Shah and Dr. R. N. Katre. For sports, cricket tournament was conducted by Hoehst.

Expenditure out of poor box charity fund :

Besides the expenditure incurred from Municipal Funds as sum of Rs. 11,084.65 was spent out of the poor Box Charity Fund in the year of 1981-82. as against Rs. 21,913.82 the previous year. The amount was mostly spent on costly Drugs, Blood, Transfusion, Provisions of crutches, spectacles etc. for the poor and deserving patients of the hospital.

Expenditure out of the Hospital Budget Grant :

The total expenditure incurred on the maintenance of the hospital during the year 1981-82 including liabilities at the end of the year but exclusive of the cost on new works amount to Rs. 1,95,838 approximately. The expenditure was inclusive of the cost of Maintenance and treatment of in-patients, 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 buildings.

New constructions and expansions and extension work completed :

Only a new construction for Central Ambulance Scheme (Emergency medical care centre) which has been completed and taken over this year in the month of December 1981 from E. E. BMC (W.S.).

ANAESTHESIA DEPARTMENT

Anaesthesia department of Dr. R. N. Cooper Municipal General Hospital, Juhu has the following staff on its establishment Dr. U. V. Desai, Honorary Asstt. Anaesthetist appointed from 10-1-77.

Since date 1-9-78 Dean (K) has been deputing six registrars and six lecturers to manage the workload of the hospital.

This arrangement has been working very smoothly under the guidance of Dean (K).

SPECIAL ACKNOWLEDGEMENT.

Due to the persistent efforts and guidance of Dean (K) Dr. C. K. Deshpande, the number of posts of registrars and house officers recognised for the purpose of post-graduate studies in the various departments of Dr. R. N. Cooper Municipal General Hospital, Juhu have been increased. Eight posts were recognised in the year 1978-79. In the year 1979-80 sixty-five more posts are recognised in the following departments. The list of the same is given below :-

Serial No.	Department	Category	No. of posts recognised
(1)	Gen. Medicine	Registrar	4
(2)	I. C. C. Unit	Do.	2
(3)	Psychiatry	Do.	2
(4)	Skin & V. D.	Do.	1
(5)	Paediatrics	Do.	4
(6)	Neonatology	Do.	1
(7)	Gen. Surgery	Do.	2
(8)	Do. Minor O. T.	Do.	1
(9)	E. N. T.	Do.	1
(10)	Ophthalmology	Do.	1
(11)	Burns & Pl. Surg.	Do.	2
(12)	Orthopaedics	Do.	2
(13)	Obst. & Gynaec.	Do.	3
(14)	Anaesthesia	Do.	1
(15)	Pathology	Resi. Pathologist	2
(16)	Radiology	Resi. Radiologist	1

Serial No.	Department	Category	No. of posts recognised
(17)	Gen. Medicine	House Officer	5+1 recognised previously.
(18)	I.C.C. Unit	Do.	3
(19)	Psychiatric	Do.	2
(20)	Skin & V. D.	Do.	2
(21)	Paediatric	Do.	5+1 Do.
(22)	Neonatology	Do.	2+2
(23)	General Surgery	Do.	2 Do.
(24)	E. N. T.	Do.	1+1 Do.
(25)	Ophthalmology	Do.	1+1 Do.
(26)	Burns & Plastic Surgery.	Do.	2
(27)	Orthopaedics	Do.	4
(28)	Obst. & Gynaec.	Do.	4+2 Do.
Total			65+8

APPENDIX I

Statement showing the distribution of beds according to classification of departments, sex unit.

Departments	Head of the Unit	Male	Female	Child	Unclassified	Total
Medical I	Dr. J. C. Doshi	20	20	..	..	40
Medical II	Dr. R. D. Darne	20	20	..	..	40
Surgical I	Dr. M. B. Wagle	20	20	..	..	40
Surgical II	Dr. D. K. Dastur	20	20	..	..	40
Ophthalmic	Dr. V. H. Gandhi	10	10	..	..	20
Gynaec I.	Dr. S. H. Shah	..	40	..	..	40
Gynaec II	Dr. S. S. Palnitkar	..	40	..	..	40
Gynaec III	Dr. S. D. Chaubal	..	40	..	..	40
Skin	Dr. D. P. Deshpande	5	5	..	..	10
Orthopaedic I	Dr. R. N. Katre	30	10	..	..	40
Orthopaedic II	Dr. A. J. Thakur	30	10	..	..	40
Paediatric I	Dr. G. S. Hathi	..	..	30 10 pre.	..	40
Paediatric II	Dr. P. N. Patnekar	..	..	30 10 pre.	..	40
E. N. T.	Dr. S. P. Wagh	10	10	..	..	20
I. C. C. U.	Dr. R. D. Darne Dr. J. C. Doshi }	5	5	..	..	10
Psychiatric	Dr. V. N. Vahia	10	10	..	..	20
		180	260	80	..	520

APPENDIX NO. I 'A'

Statement showing the distribution of beds according to wards, service and heads.

Ward No.	Service	Name of the Head of the service	Bed Units Beds	Total Schedule strength of wards.
	Medical (Male)	Dr. J. C. Doshi Dr. R. D. Darne	20 20	40
	Medical (Female)	Dr. J. C. Doshi Dr. R. D. Darne	20 20	40
	Surgical (Male)	Dr. M. B. Wagle Dr. D. K. Dastur	20 20	40
	Surgical (Female)	Dr. M. B. Wagle Dr. D. K. Dastur	20 20	40
	Orthopaedic (Male)	Dr. A. J. Thakur	60	60
	Orthopaedic (Female)	Dr. R. N. Katre	20	20
			(F. S. W.)	
	Paediatric	Dr. G. S. Hathi Dr. R. N. Patnekar	30 30	60
	Premature	Dr. G. S. Hathi Dr. P. N. Patnekar	10 10	20
	Gynaec	Dr. S. H. Shah Dr. S. S. Palnitkar	20 20	60
	P. N. C.	Dr. S. D. Chaubal Dr. S. H. Shah Dr. S. S. Palnitkar	20 20 20	60
	Skin	Dr. D. P. Deshpande	5 (Male) 3 (FMW) 2 (Ch.)	10
	Ophthalmic	Dr. V. H. Gandhi Dr. S. P. Wagh	10 (MMW) 10 (FMW)	20
	E. N. T.	Dr. S. P. Wagh	10 (MMW) 10 (FMW)	20
	I. C. O. U.	Dr. J. C. Doshi Dr. R. D. Darne	10	10
	Psychiatric	Dr. V. N. Vahia	10 (MMW) 10 (MMW)	20
				520
	Anti-Natal	26	Exclampsia	4
	Post-Natal	46	Labour ward	12
	Septic-Ward	6	Receiving-Room	4
	Post-operative	22		
		100		20

APPENDIX-II

Statement showing the particulars of Indoor and Out-door patients, no. of operations performed etc. during the year 1981, 1980 and 1979.

Particulars	1981	1980	1979
(A) In-patients—			
1 Schedule Bed strength	520	520	520
2 Daily average no. of In-patients	650	630	620
3 Daily average no. of admissions	147	125	120
4 Total no. of new in-patients admitted	38239	37765	37415
5 Average of days each patient was resident	7	7	8
(B) Out-patients—			
1 Total no. of new out-patients attended	351695	349867	343358
2 Daily average no. of new out-patients	1208	1130	903
3 Total no. of out-patients attendance (New & Old)	932076	931793	930272
4 Daily average no. of out patients attendance (New & Old)	3200	3100	3012
5 No. of Casualty patients	69096	68743	64109
(C) Operations—			
1 Total no. of operations on In-patients	6429+1749 F. P.	6140+1574 F.P.	11133+2090 F.P.
2 Total no. of operations on Out-patient	33172	30761	35351

APPENDIX NO. III

Statement showing the In-patients treated in Dr. R. N. Cooper Municipal General Hospital Juhu during the year 1981 with the classification according to departments, discharge and deaths.

Department	In the Hospital mid-night of 31-12-80	Admitted during the year 1981	Total treated	Disch. during the year 1981	Died	In the hospital be mid-night of 31-12-81
Medical	152	8871	56756	5704	581	54
Surgical	115	8465	63713	4134	562	95
Gynac	130	8999	52619	5247	20	146
Paediatric	48	5269	33101	3031	626	66
Premature	5	369	8038	102	203	5
Orthopaedio	106	278	39106	2023	44	14
Ophthalmic	9	895	5157	5125	..	12
E.N.T.	3	922	4152	811	3	8
Skin	3	107	865	90	..	7
I.C.C.U.	3	330	2313	240	85	1
Psychiatric	8	407	5213	330	1	19
	582	37632	269413	26837	2125	607
L.W.	— Nil.					
Neonatal Death	— 25					
Casualty	— 27					
Still Birth	— 177					
	229					

APPENDIX—IV

Statement showing the out-patient (New-Old) and casualty in Dr R N Cooper Municipal General Hospital, Juhu during the year 1981 Classification according to the Dept, Sex

Department	Sex	OPD New cases	Casualty
Medical	Male	25291	4671
	Female	23457	2730

Surgical	Male	18554	25230
	Female	16357	10617
	M/ch.	14760	6915
	F/ch. ?	5058	5101
Gynaec	Female	25994	3314
Orthopaedio	Male	8959	913
	Female	5472	496
	M/ch.	5696	331
	F/ch.	3392	224
E.N.T.	Male	6829	127
	Female	4898	60
	M/ch.	4519	45
	F/ch.	4979	28
Ophthalmic	Male	5921	192
	Female	5384	121
	M/ch.	4311	41
	F/ch.	4878	27
Dental	Male	7556	115
	Female	6572	85
	M/ch.	5086	9
	F/ch.	5066	7
Paediatric	M/ch.	16252	4371
	F/ch.	14132	3156
Skin	Male	8988	79
	Female	8199	35
	M/ch.	5989	28
	F/ch.	5995	28
Psychiatric	Male	876	..
	Female	586	..
	M/ch.	41	..
	F/ch.	22	..
T.B.	Male	902	..
	Female	731	..
	M/ch.	50	..
	F/ch.	37	..
		282599	69096

APPENDIX—V

Statement showing the relative cost per in-patient and out-patient per day during the year 1981-82 and previous two years.

Particulars	1981-82	1980-81	1979-80
1. Average cost per In-patient per day	48.28	39.90	34.64
2. Average cost per In-patient admission	345.30	279.30	235.30
3. Average cost per Out-patient attendance	6.98	8.78	7.32
4. Average cost per out-patient admission	18.49	25.12	34.11

APPENDIX VI

Statement showing the details of cost-per In-patients day for the year 1980-81 and previous two years

Year	Diet.	Drugs & Dressing	Stores & linens	Healing Miscellaneous & lightining	Repair to Bldg. & Eng	Estt.	Total
1981-82	2.56	13.81	2.80	5.15	0.69	23.27	48.28
1980-81	4.45	11.13	2.83	3.46	0.51	17.52	39.90
1979-80	2.33	11.02	2.02	3.06	0.35	15.86	34.64

APPENDIX VII

Statement showing the average cost of each new out-patient attendance for the year 1981-82 and previous two years.

Year	Diet	Drugs & Dressings	Store & linens	Healing & Miscellaneous lighting	Repairs Bldg. & Engg.	Estt.	Total
1981-82	..	2.00	0.40	0.74	0.11	3.73	6.98
1980-81	..	2.54	1.10	1.47	0.17	3.58	8.78
1979-80	2.20	0.61	0.80	..	0.51	3.14	7.32

SHRI H. B. M. G. HOSPITAL, BORIVALI

The required informations are furnished as detailed below. (Along with Marathi version).

High Lights

I.—Expenditure	Rs. 1,28,32,560.00
(A) 1. On in-patients	Rs. 85,55,040.00
2. On out patients	Rs. 42,77,520.00
(B) Average cost per—	
1. In-patient per day	Rs. 36.89
2. Out-patient per day	Rs. 8.93

II.—Results in Patients :

(A) 1. Scheduled Bed strength	300
2. Daily average in-patients in wards	317
3. Admissions including those brought over from previous years ...	20,931
(4) Number of patients discharged as	18,148
(i) relieved	11,502
(ii) as cured	6,646
(iii) Otherwise	1,522
(iv) Expired	922
(v) remained in the hospital on the last day of the year ...	339
(vi) daily average number of admissions	57
(vii) Average stay in-patients (in days)	6
(viii) Highest number of in-patients in a single day ...	365
(B) Out Patients :	4,75,923
(i) New out patients attendance	4,78,897
(ii) Daily average number of new out patients	1,312
(iii) Highest O. P. D. attendance on a single day	1,650
(iv) No. of casualty attendance	31,012
(C) (i) Operations on in-patients	5,977
(ii) Operations on out-patients	6,962
(D) Confinements :	1,820
(i) Booked cases	1,431
(ii) Emergency cases	389
(iii) Normal	1,427
(iv) Abnormal	393
(v) Left before delivery	23

II. Neonatal and Maternal deaths :

(i) Maternal deaths	10
(ii) Neo-natal deaths	13
(iii) Still births	97
(iv) Premature live born infants	95

Specialised treatments :

(i) Sterilization (male)	161
(ii) Sterilization (Female)	512
(iii) I. U. C. D. (inserted)	128
(iv) Disease-wise distribution of cases treated and deaths including tuberculosis and S. T. D. of all forms. There should also be death of food poisoning cases ...	Nil.

1. Electrocardiography Departments :

(1) Electrocardiography tracing were taken during the year 3,777

2. Physiotherapy Occupational Therapy Department.

(1) Total No. of cases 6,756

3. Radiology :

(1) Total No. of X-Ray taken 34,378

(2) Total No. of Screening cases 6,349

4. Blood Bank :				
1. Blood samples collected from.				
(i) Voluntary Donors.	..	..	..	152
(ii) Professional Donors.	..	..	..	1,925
(iii) Other hospitals	..	..	..	120
(iv) Relative Donors	..	..	..	252
2. Bottles supplied.	..	..	..	2,025
5. Mobile dispensary. :				
(i) Total No. of cases.	..	..	..	32,015
6. Medical Record Department :				
(i) Total No. of Medical certificates (issued) to the patients.				17,32
(ii) Total No. court attended by the Doctors.	..	..	..	1
(iii) Medico legal cases	..	..	..	13,259
7. Ambulance Services :				
(i) Total No. of cases attended.	..	..	..	690
(ii) Amount Collected.	..	..	Rs.	4,550.00
(iii) Attended Free calls.	..	..	..	23
8. Hearse Services :				
(i) Total No. of cases attended.	..	..	..	650
(ii) Amounts Collected.	..	..	Rs.	9,614.00
9. Social Services :				
(i) Free Spects	..	..	..	259
(ii) Total cost collected	..	..	Rs.	4,403.00
(iii) Supplied appliance cases (orth)	..	..	..	85
(iv) Legal aid to patients.	..	..	..	3
(v) Supplied spects from Vol Donors dark of lens.	..	..	..	90
(vi) Babies handed over to (home for distilate children)	..	..	..	4
(vii) Non Scheduled drungns from voluntary donors.	..	..	..	100
(viii) Ceuncilling poisoning cases.	..	..	..	Nil.
10. Pathology Department :				
(i) Clinical Pathology investigations (including serology)	..	..	..	80,516
(ii) Biochemical investigations	..	..	..	27,352
(iii) Blood Grouping and cross matching	..	..	..	9,164
11. Anti Rabic Treatment :				
(1) Total No. of patients treated	..	..	..	18,964
12. School Clinics :				
Total cases treated	..	..	..	2,962
13. Psychiatric Department : Started from 8-9-1980.				
(1) Total cases treated	..	..	..	1,551
14. Dental Department :				
6,939 Patients were treated for various troubles	..	..	..	6,939
15. Anaesthesia Department :				
Total No. of cases treated	..	..	..	13,039
16. Audiology and Speech Thearapy Department :				
(i) Total No. of cases treated	..	..	..	1,067
17. Poor Box Charity Fund :				

The collection in the boxes of the Poor Box Charity Fund during the period from 1-1-81 to 31-12-81 amounted to Rs. 11,221.53 out of which Rs. 12,703.55 spent for purchasing the non scheduled drugs and orthopaedic appliances for poor patients.

18. Certificates :

1809 certificates of different types were issued to the patients during the year under report 1981.

19. Dispensary :

The work carried out in the dispensary is as follows.

(1) Out Patients	4,78,897
(2) In Patients	20,931

20. Family Welfare Centre :

A family planning centre is run for the benefit of patients attending the hospital. The work done is as follows.

(1) Vasectomy operations performed	161
(2) Sterilization operations performed	512
(3) Loops inserted	128
(4) Total No. of Oral pills given to patients.	1380
(5) Total No. of condom given to patients.	25,113

21. Special Facilities for Municipal Employees :

Separate counters have been kept reserved at the Registration Department, Dispensary for the municipal staff.

22. Library :

During the year 25 Books have been registered in the library.

Total No. of books————— 187

23. Interns :

215 Graduates from L. T. M. G. Hospital are allowed to undergo internship training at this hospital.

ADMINISTRATION

DR. (SMT.) S. K. SARAF,
M.D. D.G.O. D.E.P.
Medical Superintendent.

DR. (SMT.) S. N. JOSHI,
M.B.,B.S. D.G.O. D.F.P.
Asstt. Medical Officer (Admn.).

Other Heads of Department.

Name	Qualifications	Designation.
Dr. V. Y. Chavan ..	M.D.F.C.P.S.C.C.P.S.	Hon. Asstt. Medicine.
Dr. S. R. Deshpande ..	M.D.	Hon. Asstt. Medicine.
Dr. N. N. Desai ..	M.R.G.P.D.Ch. (Lond.)	Hon. Asstt. Paediatrician.
Dr. (Smt.) Shalini Bhatt. ..	M.D.D.C.H. (Bom.)	Hon. Asstt. Paediatrician.
Dr. D. V. Bhagat ..	M.S. (Bom.)	Hon. Asstt. Surgeon.
Dr. A. R. Nerker ..	M.S. (Bom.) M.R.S.H. (Lond)	Hon. Asstt. Surgeon.
Dr. (Smt.) Lata Dandekar	M.C.D.G.O.D.E.P.	Hon. Asstt. Gyn. & Obst.
Dr. S. K. Saraf ..	M.D.D.G.O.D.F.P.	Hon. Asstt. Gyn. & Obst.
Dr. A. N. Parelkar ..	M.S. Orth.	Hon. Asstt. (Orth) Surgeon.
Dr. K. P. Morwani ..	M.B.B.S. DORL. MS.	Hon. Asstt. ENT Surgeon.
Dr. M. B. Kukreja ..	M.D.D.V. & D.	Hon. Asstt. Skin & V. D.
Dr. N. S. Athanikar ..	M. S. (OPHTH)	Hon. Asstt. (Ophth) Surgeon.
Dr. M. R. Kamdar ..	M.D.	Hon. Asstt. Anaesthetist.
Dr. V. V. Cheda ..	M. D.	Hon. Asstt. Radiologist.
Dr. (Smt.) S. S. Deodhar ..	B.D.S. (Bom).	Part time Dental (Surgeon).
Dr. Anil Dave ..	M.D. (PSYCH)	Hon. Asstt. (Psych)

APPENDIX I

The Department-wise distribution of 20931, admitted Patients Plus 339 patients of previous year remaining as on 31-12-80 is given below (alongwith) O.P.D. patients.

Serial No.	Name of the Department	Treated O.P.D.	Patients Indoor
(1)	Medical	1,49,992	5,073
(2)	Surgical	88,806	4,227
(3)	E. N. T.	29,471	744
(4)	Ophthalmic	28,378	845
(5)	Skin & V. D.	37,428	4
(6)	Paediatric	56,980	3,447
(7)	Orthopaedic	27,914	1,988
(8)	Gyn. & Obst.	46,994	4,603
(9)	Dental	12,539	..
(10)	Psychiatric Patients	395	..
Including previous year 1980.		4,78,897	20,931

APPENDIX II,

The following Departments and services exist at the hospital.

Department	Bed strength.
(1) Medicine	48
(2) Surgical	52
(3) Orthopaedic	35
(4) E. N. T.	25
(5) Ophthalmic	25
(6) Gyn. & Obstetrics	75
(7) Paediatric	35
(8) Casualty	5
300	
(9) Skin and V. D.	
(10) E. C. G. Department	
(11) Radiology Department	
(12) Pathology Department	
(13) Hystropathology	
(14) Blood Bank (Round-the-clock)	
(15) Occupational Therapy and Physio Therapy (Part-time)	
(16) Dental Clinic (Part-time)	
(17) Medical Record Department	
(18) Social Service Department.	
(19) Family Welfare Centre	
(20) Immunization Centre.	
(21) Mobile Dispensary	
(22) Ambulance Service and Hearse Service (Round-the-clock)	
(23) School Clinics	
(24) Nursing School	
(25) Psychiatric Department.	
(26) Audiology and Speech Therapy Department.	
(27) Poor Box Charity Fund	
(28) Library (Department)	

This hospital has the facility of supply of 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 system has been installed and started functioning. Nurses Training School is started at this Hospital.

There are three buildings for residential quarters with in all 40 blocks in the compound of the hospital. At present there is no Mortuary at the hospital, However, necessary steps have been taken for the construction of the mortuary block and the same is expected to be completed soon.

DR. (SMT) S. M. SARAF
Medical Superintendent,
Shri H.B.M.G. Hospital,
Borivali, Bombay 92.

CITY ENGINEER'S DEPARTMENT

HIGH-LIGHTS :

I—(A) Expenditure :

	Rs. (In Crores)
Expenditure incurred :—	
(i) On execution of Loan Works	31,92,36,541.00
(ii) On execution of revenue works	5,74,36,212.00
(iii) On Establishment	24,07,46,795.00
(iv) On other heads—	
(a) From Loan Works Budget	4,71,92,411.00
(b) From Revenue Budget	7,80,92,291.00
(B) Revenue Earned	11,66,45,629.00

II—Achievements :

	Completed	In progress
(1) Building Construction Branch—		
(a) Housing tenements	2	939
(b) School Buildings	8	25
(c) Markets	4	6
(d) Hospitals, Maternity Home & Dispensaries	3	24
(e) Other Building Works	11	36
(2) Road Construction Branch—		
(a) Road surfacing in Asphalt Concrete	8	16
(b) Road surfacing in Cement Concrete	1	11
(c) New Roads including S.W. Drains	11	31
(d) Road widening	12	83
(e) Any Other Works	38	49
(3) Building Proposal Branch—		
(a) Residential Building Proposals—	Under Section 337	Under Section 342
(i) Received	2060	1852
(ii) Approved	1184	716
(b) Non-Residential building proposals		731
(c) Residential buildings constructed (No. of tenements are shown in brackets)—		

By Private Parties	By Co-op. Societies	By Employers for staff
674 (7185)	343 (12196)	18 (356)

(d) Non-residential building constructed by private parties. 268

(4) Slum Improvement Branch—

(i) Slum cleared and development completed 24
(ii) Slum under clearance and under redevelopment stages 3

(5) Air Pollution Prevention Cell—

(i) Air Pollution complaints attended 277 Nos.
(ii) No objection certificate issued 89 Nos.
(iii) Proposals concerning factory administration 344 Nos.
(iv) Proposals for registration of Electrical furnaces and ovens 91 Nos.
(v) No. of samples collected and analysed at Monitoring Stations 10,618 Nos.

(6) Mechanical Branch—

(a) Jobs attended by—

(i) Workshop	1,088
(ii) Foundry	212
(iii) Washing services rendered by Municipal Power Laundry	50 Inst.
(iv) Linen washed by Laundry	59,99,714

(7) Electrical Branch—

(i) Building Construction Section.
(ii) Works by Contract (a) Completed—35 (b) In Progress—74
(iii) Plant and Machinery Section—
 Jobs executed— (a) Departmentally—416 (b) Through Contract—43.
(iv) Refrigeration Section—
 (a) Completed—7 (b) In Progress—13.

(8) Transport Branch—

Transport Branch used 892 vehicles, for rendering various services to V.I.P. the staff and different committees and also for health services, conservancy services, meat van services and encroachment removal services, etc.

(9) Conservancy Branch—

(a) Refuse and other waste matter removal in tonnes.	..	..	13.35
			(Lakh tonnes)
(b) Total vehicles employed for removal of refuse ..	..	..	2,68,120
(c) Public Latrines maintained ..	..	..	900
(d) Urinal stalls maintained ..	..	..	854
(e) Welfare Centres for the Conservancy employees.	..	..	21

(10) Acquisition of Land—

(a) Properties acquired—Under L.A. Act—			18
By Negotiations—5.			
(b) Proceedings in Progress—			341

(11) Maintenance of Municipal Properties—

(i) Buildings			5880
(ii) Roads—			1384-2766
(iii) Works carried out through P. W. C.—			3596

(12) Supervision of private buildings and factories—

(i) Notices under different sections of the Act.			
Issued—3575; Complied with—1952, Pending—1545.			
(ii) Unsafe buildings or portions thereof removed by the Corporation under section 489 of Bombay Municipal Corporation Act.			255
(iii) Authorities granted to the tenants under section 499 of the Bombay Municipal Corporation Act.			236
(iv) Tenants who took advantage of the authorities	..	..	3,750
(v) Action taken against unauthorised structures ..	..	..	6237
(vi) Unauthorised structure removed—			
By Parties—780; By Corporation—510; Cases where action dropped—169			
(vii) Factory permits issued ..	..	..	1,719
(viii) Prosecution launched ..	..	..	1,646
(ix) Prosecutions decided in favour of the Corporation ..	..	..	1315

The City Engineer's Department is charged with the functions of Planning and Design and Slum Clearance Housing and Building Projects for Offices, Schools, Hospitals, etc. in addition to Road Construction and Maintenance thereof. It enforces Building by laws and Development Control Rules for the orderly growth of the City. It functions in three sections, viz. City, Suburbs and Extended Suburbs.

1. PLANNING BRANCH :

This Branch headed by Dy. City Engineer (Planning and Design) is mainly concerned with activities of preparing plans and estimates of Municipal Buildings, invitation of tenders and awarding contracts for the Works and also for Petty works of repairs to Municipal Buildings, propping works in respect of dangerous buildings and supply of drawing materials to Municipal Departments. The details of the work carried out during the year under report are as under :—

Serial No.	Particulars	General Building Works.		Housing		Slum Improvement		Annual Contract	Annual propping works	Providing Furniture to Municipal properties.	Waterproofing treatment to the Municipal properties and construction of compound walls.	
		City	Subs. & Ext. Subs.	City	Subs.	City	Subs.					P.W.C.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1	Cloth tracing ..	22	2	10	..	..	..	..	..	..	..	..
2	Paper tracing .. (General Drawing)	305	456	64	35	44	124	..	..	..	..	..
3	Blue print copies	20509	13949	2826	2116	838	359	..	..	..	..	..
4	Block estimates ..	17	31	18	2	..	..	..	..	..	24 Nos.	8 Nos.
5	Amount of Block estimates (in crores)	8.93	16.98	4.40	0.52	..	..	..	..	..	0.50	1.4
6	Detailed plans and estimates.	19	46	11	8	..	..	..	..	..	24 Nos.	8 Nos.
7	Amount of detailed estimates (in crores)	13.60	13.02	1.45	1.5	..	..	..	..	..	0.45	1.3
8	Amount contract awarded	58009774	74638364	13380671	9360610	..	..	33 Nos.	4 Nos.	11 Nos.	22 Nos. 27,54,323	3 Nos. 2,83,26,013
9	Detailed estimates in hand	28	26	13	10	..	..	..	..	..	10 Nos.	6 Nos.
10	Approx. cost of detailed estimates in hands (in crores)	31.45	26	3.03	1.00	..	..	..	..	..	0.20	1.5

2. REPAIR BOARD CELL :

Two A. Es. with four S. Es. are working in this Cell under the direct control of C. E.

This cell has been created in the year May 1970 for doing such work as will help the members representing the Corporation on the Bombay Housing and Area Development Board to play their roles effectively and also to collect such information as they may need for giving effect to the provision of Bombay Municipal Corporation Act, concerning the repairs action as enunciated under section 102 of Maharashtra Housing and Area Development Board Act.

The broad features of the work done by the staff working in the repairs cell during the year from 1-4-81 to 31-3-1982 are as under :-

(1) Preparation of Agenda Notes for Board's meetings, Technical Committee meetings and special meetings held every month (24).

(2) Security of the draft schemes submitted by the board for reconstruction of building (35).

(3) Sites inspection of the location of the building which were to be undertaken by the B. H. and A. D. Board for structural repairs (140) such inspections are necessary to determine the admissibility of structural repairs for such building viz. If affected by the D. P. reservations, proposed regular line of road, widening of road scheme etc.

(4) Replies to interpellations, short notice questions and notice of motion by the member in the Corporation and in the different committee members, replies to Assembly started questions referred to by the State Govt., etc.

(5) Comments on the proposals referred to by Building Proposal Section were given on the repairs to the cessed Bldgs. for considering the permission for repairs etc. (170).

3: SLUMS,

Since establishment of the Cell in 1969, the work of providing civic amenities in different hutment colonies has been continued under the programme of environment improvement work. A grant assistance of Rs. 72,11,843.00 has been received during the year from Bombay Housing & Area Development Board by way of reimbursement of the expenditure incurred on the basic amenities provided during the year.

The colonies comprising of a population of about, 79,121 were being provided amenities under the Slum Improvement Programme during the year. The Corporation has provided about 62 Nos. of W. C./A. P. Seats, 41,545 Sq. mts. passages of 27,640 R. Mts. of drains.

The Corporation under the Slum Improvement Programme has also provided additional amenities such as 6 Nos., Schools 5 Nos., Dispensary and Health Centres, two Welfare Centre, One Balwadi and One Police Chowky one rent collector chowky & 64 Tenements Transit Camp. during the year at the Municipal Cost. Total expenditure incurred is Rs. 74,08,466 on the above additional amenities during the year.

The details in respect of the colonies improved and works in progress during the year 1981-82 are given below :

(1) No. of colonies on Municipal land.	..	..	40 Nos.
(2) No. of colonies on Government land.	..	..	1 Nos.
(3) No. of Colonies private land	..	..	20 Nos.
			Total : 61 Nos.
Works Completed	26		
Works in Progress during the year	35		

(B) CLEARANCE OF SLUMS :

The Branch is mainly concerned with the following :

(1) Preliminary survey of Slum area, declaration of slum areas as 'Clearance area' making of clearance orders and compulsory acquisition orders under provision of Section 354-R of Bombay Municipal Corporation Act.

(2) Acquisition of Slum properties falling under Clearance areas.

(3) Formation of Schemes for the development of clearance area with the financial assistance from Government under the Government of India's subsidised Slum Clearance Scheme.

(4) Claiming financial assistance of subsidy only from the government and maintaining the record of the same.

(5) Taking preliminary steps for declaring 'Clearance Areas' under Section 354-R of the Bombay Municipal Corporation Act for enabling the Bombay Housing and Area Development Board to carry out the repairs and reconstruction of Scheme under the Boards Act.

(C) SLUMS ON MUNICIPAL LANDS :

During the year 1981-82 the Corporation have not declared and acquired any Slum for its development.

No. of slums declared and development completed.	No. of slums under clearance and redevelopment in stages.
24	3

4. DEVELOPMENT PLAN :

The Development Plan Department has the following main functions :—

- (1) Implementation of Development Plan sanctioned in 1967.
- (2) Revision of the Development Plan as required under Section 38 of the M.R. & T.P. Act, 1966 and
- (3) Acquisition of lands required for providing various civic amenities.
- (4) Town Planning Scheme.

The details of performance in respect of the above major functions are as under :—

(1) Implementation of Development Plan sanctioned in 1967 :—

Under this function, the 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 Building Bye-Laws, Development Control Rules and Urban Land (Ceiling and Regulation) Act, 1976. The Ward Offices are required to be guided in the matters regarding grant of factory permits under Section 390 of the Bombay Municipal Corporation Act and licences under Section 390 of the said Act.

This wing has also to guide members of public, Licenced surveyors as also the Government and semi-Government Departments regarding provisions under the sanctioned Development Plan of the Greater Bombay and Development Control Rules of the Greater Bombay, etc.

During the course of implementation of Development Plan provisions, at times it becomes necessary that the reservations provided for various public purposes are required to be modified or delated partly or wholly based on site conditions or to meet the immediate requirements of the public or with a view to modify the provisions under the sanctioned Development Plan in case of discrepancies as also changes in users of reservations, considering the difficulties of implementation etc. on representation from the owner of properties, licenced surveyors, Municipal Councillors and Government and Semi-Government Departments. Thus 22 such proposals were initiated for modifying the Development Plan reservation in the year 1981-82. Out of these proposals 16 proposals were sanctioned by the Corporation under Section 37 of the Maharashtra Regional and Town Planning Act 1966, and another 2 proposals were sanctioned under Section 50 of the aforesaid Act for delation of reservation. These proposals were processed further and submitted to the State Government in Urban Development and Public Health Department for their final sanction. In addition to this 4 proposals for modifying the provisions under Development Control Rules for Greater Bombay were also sanctioned by the Corporation.

(2) Revision of Development Plan :

The work of preparation draft revised Development plan of the City Wards is already completed and the draft revised Development Plans of the City Wards were placed before the Ward Councillors in their meetings with the concerned Zonal D. M. C. inviting their suggestions and/or objections as a part of effective public participation. The suggestions and/or objections received from the Ward Councillors have been duly considered and the draft revised Development Plans of the City Wards have already been finalised. For the purpose of preparing and presenting draft revised Development Plan of the City Wards, the newly painted metric scale base-maps to the scale of 1-2500 prepared from the City Survey Sheets by photo reduction process have been utilised. The base-maps for 'A', 'B', 'C', 'D', 'E', 'F/South', 'G/South' and 'G/North' wards have already been painted and the base-maps for 'F/North' Ward are naily likely to be received within a period of about month's time.

As far as Suburbs and Extended Suburbs are concerned, such base-maps to the same scale of 1-2500 are being obtained from Pilot Maps Production Plant, Unit of Surveyor of General of India, Hyderabad. For the purpose of preparing these base-maps for Suburbs and Extended Suburbs, the serial photos taken in the year 1975 have been utilised. Out of 206 sheets for Suburbs and Extended Suburbs, 168 sheets have already been up-dated and returned to Hyderabad for final printing. The work of up-dating the remaining 38 sheets is in progress. So far 136 sheets have already been finally printed for being used as base-maps for preparing draft revised Development Plans of Wards in Suburbs and Extended Suburbs. These sheets are required to be cleared by Defence Ministry, Government of India and matter is already taken up with their officers at personal level.

The work of existing land use survey is already completed in respect of the entire area under the jurisdiction of the Municipal Corporation. The survey is carried out in detail for the entire city of Bombay and critical areas in Suburbs and Extended Suburbs and is computerised. The output tables have been received for the said area and used for preparation of draft revised Development plan. The work of carrying out detailed Land Use Survey of the remaining outlaying areas in Suburbs for the Wards 'L' and 'M' is completed and the work in respect of 'M', 'K' and 'N' Wards is in progress.

The works of study of amenities, facilities and working out their deficiencies on the basis of the planning standards are also finalised for the population projected by 2001 for most of the Wards in Suburbs and Extended Suburbs and is nearing completion.

For the purpose of preparing reservation drawings, the old City Survey sheets are required to be up-dated and traced and the work of up-dating and tracing Survey sheets, of development areas about 5,000 in numbers, is completed.

The work of preparing maps, charts, diagrams for the purpose of preparing report for the draft revised Development Plan is also completed to extent of about 40 percent.

(c) Acquisition of Lands :

About 5 properties have been acquired by negotiations and further 18 properties were acquired through Land Acquisition proceedings during the year 1981-82. Awards were made by Special Land Acquisition Officer in respect of 24 properties.

The land acquisition proceedings as per the provisions under Maharashtra Regional and Town Planning Act, 1966 and Land Acquisition Act (I) 1894, in respect of 541 properties are in progress.

In addition to this, land rates in respect of acquisition of set back lands, in all 5 cases were fixed. The standard Rent in respect of 25 Municipal properties was also fixed.

(4) Urban Land (Ceiling and Regulations) Act :-

This Department is looking after the matters pertaining in the Urban Land (Ceiling & Regulation) Act, 1976 so far as the Municipal Corporation of Greater Bombay is concerned. It coordinates with the Competent Authority (ULC) Greater Bombay in respect of matter concerned with the Urban Land (Ceiling & Regulations) Act, 1976. Dy. C. E. (D. P.) is a member of the Land Allotment Committee for the disposal of the surplus vacant lands wherein demands have been made to allot many surplus vacant lands to the Municipal Corporation of Greater Bombay specially for the purposes of housing dis-housed persons affected by the implementation of the Development Plan and for other public amenities. A general demand of making about 25 acres of land available to the Municipal Corporation of Greater Bombay in each ward has also been made so far, the Municipal Corporation of Greater Bombay has secured the surplus vacant land amounting about 14,603 sq. mts. free of cost from the Govt. which otherwise would have been acquired at the cost of about Rs. 36 lacs after following the lengthy acquisition procedure. This, therefore, had saved the Municipal funds to the extent of about Rs. 36 lacs. This Department has also demanded the built up flats out of 10 percent reservation for the Govt. nominees, which can be utilised by the Corporation for housing of the essential Municipal staff as well as dis-housed persons affected by the Development Plan. These flats, if made available, will be at a very low price, of about Rs. 90 per sq. ft. which is much cheaper than the market value.

The proposal is being pursued.

TOWN PLANNING SCHEMES :

Town Planning Schemes in City, Suburbs and Extended Suburbs.

These are 33 town planning Schemes in the whole Greater Bombay-4 in city proper, 25 in suburbs and 4 in Extended suburbs.

CITY :

(i) Town Planning Scheme Bombay City No. 1 :- This scheme is under 1st variation and the preparation of the draft scheme is under progress.

(ii) Town Planning Scheme Bombay City No. 2 (Mahim area) (1st variation):-

Arbitrators Award is declared. Tribunal was appointed for this scheme vide Government's Notification of Urban Development and Public Health Department No. TPB/4381/2333-UD-5 dated 16-11-81 and Tribunal Concluded its hearing on 30-3-82. Further action is in progress.

(iii) Town Planning Scheme Bombay City No. 3 (Mahim area) :- Arbitrator has declared his award for this scheme on 24-12-1979 and tribunal is to be appointed by the Govt for this scheme.

(iv) Town Planning scheme Bombay City No. 4 :- (Mahim area) This scheme is under 2nd variation. Preparation of draft scheme is in progress.

SUBURBS :-

There are in all 25 Town Planning Scheme in suburbs and except the below mentioned schemes all are finalised and came into effect. These schemes are being implemented by concerned W.-Os

There is no change in the position as reported previously in respect of :

- (a) Town Planning scheme No. III Bandra :- 1st variation finalised.
- (b) Town Planning scheme No. VI, Santacruz :- 1st variation finalised.
- (c) Town Planning scheme No. III, Ghatkopar :- 1st variation finalised.

However, in respect of Town Planning Scheme No. V Santacruz, the first variation of the scheme has been sanctioned by the Government vide Notification-Urban Development and Public Health Department No. TPB/3876/1822-A-UD-5 dated 7-12-1981 and came into force from 1-2-1982 and scheme is now under control of W. O. H./East for implementation. The Arbitrator, Town Planning Scheme Bombay has already declared his award in respect of Town Planning Scheme No. V, Vile Parle nPrincipal (Draft).

EXTENDED SUBURBS :

The position as reported previously has remained unchanged in respect of Town Planning Scheme in Extended Suburbs.

2. MECHANICAL AND ELECTRICAL BRANCH :

1. The department of the Dy. City Engineer (Mech. and Electrical) Air Pollution Projects came into existence in June 1976.

2. The following offices work under the Administrative and Technical Control of this Department.

- (a) Air Pollution Prevention & Control Cell.
- (b) Central Ambulance Service and Emergency Medical Care Project including setting up of Tele-communication Net-work for Water Works installations and Gas;

(c) Civil Defence.

(d) Project on supply of Natural Gas in Greater Bombay and matter connected with Municipalization of Bombay Gas Company.

(e) Special Project

(f) Expansion proposals of Deonar Abattoir.

(3) Air Pollution Prevention and Control Cell :

As the Ambient Air Quality (AAQ) in Greater Bombay started showing deterioration, an independent Air Pollution Prevention Cell (APPC) was created by the Corporation in June 1976 to tackle exclusively the problem of Air Pollution and related matters. The APPC has two distinct wings.

(a) Administrative and Engineering Wing; and

(b) Health Survey Wing, which operates from KEM Hospital, Parel.

The administrative and Engineering Wing is further divided into three distinct Groups.

(a) Air Quality Monitoring Group which is entrusted with air quality surveillance, Air Pollution Meteorology and determination of the pollution trends, investigation of pollution episodes, vegetation and property damage studies etc.;

(b) Emission Inventory Group, which is entrusted with the task of compilation of comprehensive emission inventory of all polluting sources, stack monitoring, nature of pollutants, their transportation dispersion etc. industrial location policy, shifting of industries, which are obnoxious and posing danger to public health etc., and noise pollution surveys;

(c) Enforcement Group, which is entrusted with factory administration and licensing from Air Pollution Point of view, investigations of complaints concerning pollution, taking control measures.

3.1 Air Quality Monitoring Groups :

The Air Pollution Analytical Laboratory has been set up at Worli since 17th January, 1978 or carrying out AAQ monitoring for various Criteria. Pollutants like sulphur dioxide, suspended particulate matter, and oxides of Nitrogen in General and Ammonia, Oxidant, Carbon-monoxide Hydro-carbons at certain specific places. The meteorological parameters like wind speed, wind direction, temperature and humidity are also monitored.

3.1.1. During the year under report the following activities were carried out by this Group.

(i) Ten Air Monitoring Stations set up under Routine Survey Programme were continued to be operated with monitoring frequency being every sixth day to collect statistically valid data. The list of stations is as follows :—

Station Code.	Name
R-1	.. Colaba.
R-2	.. Babula Tank.
R-3	.. D. C. Road.
R-4	.. Dadar.
R-5	.. Chembur Naka.
R-6	.. Sakinaka.
R-7	.. Pant Nagar, Ghatkopar
R-8	.. Mulund.
R-9	.. Borivli.
R-10	.. Unnat Nagar, Goregaon.

(ii) Out of the six air monitoring stations set up under the Health Survey Programme, five stations are continued to be operated with the monitoring frequency being every sixth day. The list of stations is as follows :—

Station Code.	Name
H-1	.. Railway Colony, Chembur
H-2	.. H. P. Nagar, Chembur
H-3	.. Khar.
H-4	.. Santacruz.
H-5	.. Parel.

The sixth station set up at Poynad, near Alibaug was not operated as the Health Survey work was completed.

(iii) Three air monitoring Stations sponsored by B. M. R. D. A. continued to be operated during the year.

The list of stations are as follows :—

Station Code.	Name
B-1	.. Bharat Refinery, Mahul*
B-2	.. Sewree.
B-3	.. Mankhurd.

* Due to strike at B. P. Refinery, it was not possible to continue the air monitoring work at Mahul, hence the monitoring is carried out at Mankhurd since Feb. 1982. with the monitoring frequency being every 2nd day

(iv) Two air monitoring stations sponsored by R. C. F. continue to be operated during the year. The list of stations is as follows :—

Station code	Name
F-1	.. Maravilli.
F-2	.. Sion Koliwada.

(v) The pollutants monitored at all these stations during the year were SO₂, NO_x, SPM (Suspended-particulate matter). In addition Ammonia was monitored at F1 and F2 stations. The SPM was further analysed for 11 different parameters like water solubles, Sulphate, Nitrate, Chloride, Volatile Matter, Heavy metals like Cadmium, Lead, Nickel, Vanadium, Manganese and Carcinogenic substances like Benzo (L) pyrene (Appendixure-10).

(vi) The research projects like property damage (six sites) vegetation damage, sulphation rate (six sites) were continued during the year. A special project on growth of I pil-Ipil (Su-babul) trees in different environment was started.

(vii) The laboratory acquired two new instruments, microscope with Vedomat and Gas chromatograph in addition to spectrofluorometer, Autochemistry Analyser and Atomic Absorption spectrophotometer.

(viii) The meteorological data is collected at the twelve sites established by us for the measurement of wind speed direction, temperature and relative humidity. Rain fall data at the twenty monitoring sites is collected and Rain water is analysed for PH, Sulphates, Chloride and Nitrates. (Appendix 11).

(ix) During the year the following special studies were carried out-

- (i) Air quality survey at Lalbaug.
- (ii) Impact on the Air Quality during the closure of mills and Bombay Gas Company; and
- (iii) The Industrial effluent analysis for one chromate manufacturing firm,

(x) WHO Project :

Looking to the Laboratory facilities and an existing large air quality monitoring net work WHO has awarded the Research Project on "Assesment of Human Exposure to Air Pollutant" for a duration of 2 years. The Air Pollutants selected for this study are : Respirable Particulates sulfur-dioxide and sulfates. About 15 people residing in different parts of Bombay using different modes of transportation to commute, and having different life styles are selected to carry personal monitors.

Simultaneously Indoor and Outdoor (I/O) air quality at the places of residence and work of the selected subjects, will also be carried out. The main objective of the study is to establish relation between the I/O Air quality and human exposure to these three selected pollutants in a large metropolitan city in India. This project is of particular importance since it will be one of the five pilot projects being undertaken by WHO all over the World. WHO has extended financial assistance of US \$ 48000 to the Air Pollution Control Cell of the Corporation.

(xi) A new Laboratory is being planned on the first floor of the Khar Market building which is more spacious than the present Labatory at Worli. This new laboratory will start functioning from 1st April 1982.

3.2 EMISSION INVENTORY GROUP :

This Group was set-up during the year under report. The main task assigned to this Group is to complete comprehensive emission inventory of all polluting sources, which will include stationary and mobile sources. In addition, the group will deal with the proposal of shifting of industries which are obnoxious and posing danger to the public health. A beginning is also to be made to deal with noise pollution. During the year under report, the policy regarding shifting of about 100 Non-conforming industries in the Basic Metal industry Group, Chemicals and Paint industry group was finalized. The questionnaire for collecting emission inventory were also finalized. The air quality monitoring Laboratory from Worli will be shifted to Khar from 1st April 1982 and a new Laboratory for stack monitoring, traffic counting and noise pollution will be established under the control of Emission Inventory Group at Worli. During the year under report, steps were taken to procure noise and traffic monitoring equipment, Laboratory equipment etc. This group also deals with all matters pertaining to Air Quality Sectional Committees and its Sub-Committees of the Indian Standards Institution. The Corporation is also represented on several Study Groups appointed by the State and Central Government and other organisations. The meeting of these Study Groups and Committees, including those of the Maharashtra Smoke Nuisance Commission, were attended and active part taken in their deliberations. This Groups together with other two groups participated in various technical seminars on Air Pollution held in Bombay and other places outside the State.

3.3 Enforcement Group :

During the year under report 901 proposals dealt with as listed below as against 882 such proposal dealt with in the year 1980-81.

- (i) Air Pollution complaints including Noise, vibration, odour & smoke nuisance. ..277 Nos.
- (ii) Notification Certificates issued for steam Boilers, Thermix fluid heaters, oil/coke fired furnaces, Diesel Generating Sets etc.— .. 89 Nos.
- (iii) Proposals concerning factory Administration dealing with renewal of permits, regularisation/rejection of additional loads etc. ..444 Nos.
- (iv) Proposals for registration of Electrical furnaces ovens. ..91 Nos.

3.3.1 The Corporation has sanctioned the proposals for levying pollution abatement fees on permitted industries vide C. R. No. 1646 of 19-10-1978. During the year under report the pollution abatement fees to the tune of Rs. 40,65,750 were collected from the Industries in Greater Bombay as against Rs. 3,45,640 collected during the last year...

3.4 Health Survey Wing :

To study the effects of air pollution on human health the health survey cell has been carrying on work at K. E. M. Hospital.

3.4.1. Of original 4129 subjects from 4 areas under study, follow-up has been achieved on 2182 subjects at the end of 3 years. A report diet survey was done on 2327 subjects; assessment for housing and sanitation was done on all families and additional 600 subjects were studied for health cards. An Interim draft report (Section 1-5) has been prepared on the present state of analysis in December 1981. This includes report of an analysis at 2 years stage on the original population, a 3 years study on health diary data and a report on the new cross-sectional survey in 4 localities on 22,272 subjects. An analysis of trends in death records from 1971-79 has also been carried out, and included in the said report.

3.4.2 Preparations for final year analysis and correlation between air pollution levels and health morbidity are being still processed.

3.4.3 The Unit staff has carried out a follow up of-100 regular cases of chronic bronchitis.

3.4.4 The other work done by this unit is as follows :—

- (i) A study of Histamine sensitivity in cases with bronchial obstruction was done in 28 patients.
- (ii) A study of diet and health morbidity survey over 4 months among 1430 residents was carried out in Dadar area along with analysis of air pollution, food (85 samples) and water (67 samples)
- (iii) A study of measurement of carboxyhaemoglobin levels was done for 3 days in 173 patients with coronary heart diseases admitted to this institute. As a follow-up in normal community, level of carboxyhaemoglobin and health morbidity were studied in 1068 and blood samples were collected from 783 subjects. Further analysis are proposed to be done to establish likely contribution of vehicle pollution among residents residing at main traffic junctions.

3.4.5 The Officer-in-charge attended WHO/UNEP workshop on Monograph titled "Epidemiological methods for environmental health studies" from 27th November to 5th December 1981 at Moscow. One full section is being devoted to description of methodology of Bombay health survey study. Significant contribution was made in other areas of the Monograph.

3.5 Water Pollution Control :

3.5.1 Various industries are discharging their industrial effluent into Municipal drains, nallas, sewers without giving any treatment. A survey of such industries was started in the year 1980-81 and the same was continued in the year 1981-82.

3.5.2 218 industries were contacted to find out the measures taken by them for preventing the water pollution. In about 200 cases the matter was taken up with the Maharashtra Prevention of water Pollution Board inquiring about the action to be taken against defaulting industries as the consent for discharging the effluent is granted by the board. The sites are also inspected in the cases where complaints of smell nuisance are received and where the waste treatment plant is either constructed or not constructed by the industry.

4. Emergency Medical Care Project :

4.1 The Planning, execution and operation of the Emergency Medical Care Project was continued during the year under report as follows :

4.1.1 Emergency Medical Centres (EMC)

- (i) In the EMC at L. T. M. G. Hospital, Sion, the work of additional facilities such as I. C. C. U., separate operation theatres for emergency trauma care, piped oxygen supply etc. are in completion stage. The new I. C. C. U. is almost ready for being put into commission.
- (ii) The construction work on EMCC at Dr. R. N. Cooper Hospital is completed. The building is also ready.
- (ii) Installation of medical equipment is in progress. In stallation of pipes oxygen supply work will be taken up during the next year. The Centre will be ready for commissioning during the next financial year.
- (iii) Construction work of the building for EMC at Smt. M. T. Agarwal Municipal General Hospital at Mulund is in progress. The electrification and lift installation work is also in progress.
- (iv) 90 percent of the civil work of the EMC at Centenary Hospital, Kandivli is completed
- (v) In case of Centenary Hospital at Govandi also 90 percent of the civil work is completed.
- (vi) EMC at Rajawadi General Hospital, Ghatkopar is in planning stage.

4.1.2 Central Ambulance Service Head Quarters at Chembur :

Block estimate and plans are already prepared and detailed estimates are under preparation. The plot where the H. Q. is to be constructed is under litigation and steps have been taken to launch action under Section 105(B) of the Act.

4.1.3 Ambulance Garage and satellite Centres.

- (i) Garages and satellite centres at the following sites are ready.
 - (1) Maternity Home, Tagore Nagar, Vikhroli.
 - (2) Bandup Maternity Home.
 - (3) Maternity Home, Mulund (East)
 - (4) Binabha Hospital, Bandra (West)
 - (5) Maternity Home Kherewadi, Bandra (East)
 - (6) Haji Bapu Road, Maternity Home and General Hospital, Malad (East)
- (ii) The following garages are under construction :
 - (1) G. T. B. Hospital, Sewree.
 - (2) Rawli Maternity Home
 - (3) Maternity Home, Chuna bhutti,
 - (4) Mahim Maternity Home.
- (iii) For Garages at Municipal General Hospital, Santa Cruz and Municipal General Hospital, Ghatkopar (West)-Planning is in progress.

4.1.4 Ambulances :

- (i) The fabrication of bodies of 3 Nos. 'A' type ambulances is completed. One 'A' type Ambulance donated by Western India Automobile Association has been commissioned at L. T. M. G. Hospital and one which was used at the same Hospital is withdrawn for standardisation.
- (ii) 8 Nos. of B/C type Ambulance are kept ready for use.
- (iii) Workshop for repairs and maintenance of these ambulances has been established in the premises of L. T. M. G. Hospital.

4.1.5 Telecommunication Networks :

- (i) The existing 26 wireless sets including 22 static stations for water works installations and that of Central Ambulance Service were maintained satisfactorily during the year under report.
- (ii) The wireless operating licences for four additional stations in phase-II network for water supply Deptt. have been received from wireless adviser.
- (iii) Application for Nine additional wireless stations, six for phase-II and three for phase-I water works installations have been approved by wireless Adviser to the Government of India.

Wireless Maintenance Workshop :

In order to maintain the wireless sets and other electronic equipment under C. A. S., the electronics and tele communication workshop has been established with necessary testing facilities at L. T. M. G. Hospital premises.

5. Civil Defence Cell : —

The Civil Defence Cell was created in the year 1971 to look after the work of Civil Defence Measures to be undertaken by the Corporation and also to have a close liaison with the Director and Controller of Civil Defence. Subsequently, the Cell was entrusted with the additional work of vigilance over Electrical and Mechanical Works. During the year under report the following works were attended to by the Civil Defence Cell.

5.1 Civil Defence Training :

The Civil Defence Activities are decentralised by opening 61 sub-units in all wards, Engineering Departments and Hospitals. This has been basically done to impart Civil Defence training to as many volunteers as possible. The actual training courses are being arranged by the Department of Deputy City Engineer (Productivity) whereas the training is imparted free of cost by the City Controller of Civil Defence. However, during the year under report only 12 Municipal employees were trained in Civil Defence Courses.

5.2 Civil Defence Plans :

The Operational and survival plans of following essential services are revised and brought upto date.

- (1) Water works.
- (2) Roads Department.
- (3) Sewerage Department.
- (4) Care of Animals.
- (5) Disposal of Dead bodies.

5.3 Liaison work with Government Department :

A close liaison was maintained with State Directorate of Civil Defence and the City Controller of Civil Defence. The works pertaining to the maintenance of static tanks, construction of new tanks, installation of new sirens, warden posts and accommodation to Civil Defence—Divisional offices was attended to satisfactorily. In addition, the planning of new 60x600 PABX Telephone board at Head Office is undertaken and the matter is being pursued Telephones.

5.4 Vigilance over Elec. and Mech. Works :

Technical audit was carried out in respect of 226 proposals. The Electrical Mechanical and Refrigeration works totalling 124 and costing Rs. 98 lakhs were inspected. In addition, the proposals for additional staff, specifications for plant and machinery, contractors' appraisal reports were also scrutinised. The MBO and Project Monitoring Programmes pertaining to Electrical and Mechanical Works were also undertaken. The statistical information in case of vigilance work is given in Annexure—XII.

6. Project of Distribution of Natural Gas :— Greater Bombay :**6.1. Distribution of Natural Gas :— Greater Bombay :**

The Municipal Corporation has already decided to enter in the field of distribution of Natural Gas to the Industrial, Commercial and Domestic Sectors in Greater Bombay with a view to reduce Air Pollution, and also supply piped fuel to the citizen of Bombay. The Techno-Economic Feasibility Report was submitted to the Study Group appointed by the Govt. of Maharashtra. The meeting held in this connection were attended from time to time. It was decided in the meeting that the study Group will forward their report of recommendation to the Government. A report in this respect has been prepared and submitted to the Study Group. It is expected that much more gas will now be available for distribution and the earlier allocation of 0.835 million M3 per day is likely to be increased to 2.5 million M3 per day of natural gas, with priority for its distribution in domestic sector. The studies in this respect are in progress.

6.2 Municipalisation of the Bombay Gas Co.

The Corporation has already passed a resolution (C. R. No. 112 of 10-5-1976) to municipalise the Bombay Gas Co. and the correspondence has been made with the Govt. of Maharashtra from time to time, to move the Govt. in the matter. Fresh notices have also been issued to the Bombay Gas Company and actions have been taken under various Sections of the B. M. C. Act. However, during the year under report the Gas works of the company located at Lalbaug were not working due to the strike etc.

7. Special Projects :

7.1 Supply of Tractor Mounted Gully Emptier Units :

Out of the NINE Units ordered for cleaning water entrances on the storm water drains within the city area, only FOUR Units have been received. The organisation for maintenance and operation of these Units is finalised. The orders for purchase of tractors were also finalised.

7.2 Ferry Service at Marve-Manori Creek :

For the people residing at Manori Island in 'P/N' Ward, the ferry service between Marve and Manori was a night-mare. The problem was referred to APP Cell for procuring the ferry boats for meeting the needs of the people. Accordingly, two mechanised flat bottom 75 passenger capacity ferry boats on the lines of one ferrying between Punjim and Betim, Goa have been specially-constructed and commissioned during the year under report (1st November 1981).

These ferry launches have been constructed as per the requirements of Mercantile Mariner Deptt. of Govt. of India. The vessels have been provided with all passenger safety devices. The residents of Manori as well as the tourists have appreciated the ferry service. This service is handed over to BEST Undertaking, or operation.

7.3 Remodelling of Dhobi Ghat :

The Dhobi Ghat is in operation at Mahalaxmi, where there are 157 Bhatties provided for washing of clothes. The cheap type of fuel used in these bhatties, with no proper arrangement for supply of air required for combustion, cause severe ground level pollution. The problem being of society economic nature, was studied in depth and the practical solution of providing live steam to the bhatti pots directly from the Central Steam Generation Plant, rather than producing steam in each and every bhatti pot was found out. The scheme estimated to cost Rs. 25 lakhs was prepared and submitted to the Corporation for approval.

The administrative approval of the Corporation to the scheme has already been received. A proto type bhatti-pot was got manufactured and working trials were taken. Necessary modifications were also carried out on the proto type bhatti-pot and further trials were taken. The trials were found successful. The planning process for implementation of this project on turn key basis is also completed but actual execution is not undertaken due to the plot being under litigation. When the project is executed, the problem of ground level air pollution will get solved.

7.4 Rehabilitation of potters at Dharavi. :

There is considerable ground level air pollution and the smoke nuisance near Dharavi. This is mainly because of the potters manufacturing earthen pots using cheaper type of fuel without any effective combustion system. A techno-economic feasibility report was got prepared from Messrs. Kirloskar Consultants. They have suggested complete rehabilitation of potters in a planned and hygienic way. The project incorporate construction of residential buildings for potters, construction of centralised working paces for manufacturing activities and construction of mechanical furnaces to carry out manufacturing activities in planned and hygienic way. The project report prepared by Messrs. Kirloskar Consultants has been scrutinised completed by this Deptt. A decision has been taken that the potters should themselves implement this project under the overall supervision of B. M. C. on the guide lines suggested by Messrs. Kirloskar Consultants. The potters architects have submitted a scheme to this effect which was under scrutiny, during the year under report.

7.5 Design of small capacity smoke free light Diesel Oil fired type Tar Boiler :

The Ward Offices face various problems in their road maintenance works with the existing car boilers as they are bulky and work on fire wood. The designs of various tar boilers with indigenous available technology were, therefore, studied. None was found suitable to carry out small patch work efficiently and with clean environment. The design of small capacity tar boiler with light diesel oil firing system from pressurised air/fuel tank was, therefore, developed by this Deptt. The Combustion equipment specially designed for firing light diesel oil with automatised air supply was got manufacture through Pvt Contractors. The trials were taken on this combustion equipments which were found satisfactory. During the year under report orders have been placed to supply 50 Nos. of such tar boilers-mounted on mobile chasis. A proto-type tar boiler is under fabrication through the contractors. After extensive trials on the proto-type, balance 49 tarboilers will be made available to the wards.

8. Expansion of Deonar Abattoir :

The slaughter house at Deonar is working to the full capacity since the year 1972. On account of persistent demand for meat it needs to be expanded in its-slaughtering capacity. The tenders for expansion on turn-key basis were invited in the past. The expansion scheme is however, found to be capital intensive. Further, there is an uncertainty in the supply of cattle due to the agitation against slaughtering of horned cattle, increased export potential from other States and the Government policies in the matter of export of beef. The expansion proposal is therefore deferred and it is proposed to augment the slaughter capacity through modernisation and balancing of throughput. The consultancy services will be needed for this specialised job and the same are under consideration.

C.E.—6300 Report.

8.1 Ancillary Industries at Deonar :

At Deonar, the plot admeasuring 14.4 Hactres has been reserved for setting up Ancillary Industries based on the by-products available from Deonar Abattoir. Total as 88 polts were earmarked for allotment to set up such Industries. The proposal submitted by the allottees of plots are scrutinised from air pollution point of view and so far 18 proposals of ancillary industries have been cleared from locational angle.

6. MECHANICAL BRANCH :

During the year of 1981-82 under view Municipal Workshop received 1181 fresh Jobs. Total numbers of jobs completed 1088 Nos. including previous year pending jobs. The total expenditure on the departmental works amounted to Rs. 34,53,364.30. The up-keep and overhead charges amounted to Rs. 6,30,893.04 which works out to be 15.84% incurred on Labour and Stores. The labour strength during the year was about 400 No.s 18.21% There were 297 working days during the year 1980-81.

(i) *Machine Shop* : Repairs to the pumps of Pumping Stations and Purification works were undertaken Special jobs of large size pumps of L.G.P. Station were carried out. In addition manufacturing of Impellers, C. I. Bushings, shafts of pumps and C. I. casting of Hospital Lown, movers, Shear sharpening work of Garden Department were undertaken. Shaft spindles sheds Brass bushes were also manufactured.

(ii) *Boiler Shop* ; In this section the major jobs were of the fabrication of refuse bins and different types of new hand carts for conservancy department and Drainage Department, repairs to tar boilers and different types of handcarts were undertaken. Various play apparatus for Garden Department were fabricated and repaired by this section. Various clamps, hooks, axles, brackets and iron racks of Conservancy department were fabricated in the Smithy Section of Boiler Shop. The remarkable job of fabrication of 2 tons capacity cupole furnace of Foundry Shops was undertaken and completed satisfactory.

(iii) *Carpentry Shop* ; The work undertaken in this shop, was of manufacturing of wooden racks, Notice-boards, tables, benches, chairs, wooden handcarts, wooden cupboards, sea-avw plants for Garden department and diving boards for swimming pool, and some such other Special jobs were undertaken. The meter boxes and switch board required for hospitals and other departments were also manufactured. The Repairs work to seats, sofas, recanning of chairs and polishing of the wooden furniture of hospitals and other departments was undertaken.

(iv) *Paint Shop* : In the paint shop, besides day to day work of painting of name boards of various departments, painting of vehicles, refuse bins, different type of when 1 barrows, wooden articles were carried out spray painting of steel cupboards, hospital furniture was undertaken..

(v) *Design Section* : Mechanical Design Section prepares estimates, blue prints and specifications for machinery, furniture, and mechanical equipments and invites tenders or sealed quotations for all types of mechanical jobs for Municipal Departments it also helps to the other mechanical and elecincial Department in carrying out their job works.

The following general repairs works were carried out during the year 1981-82 : -

	Nos.
(1) Main Gates	10
(2) Collapsible gates	91
(3) Rolling Shutters	46
(4) M. S. Tanks	174
(5) Steel windows	59
(6) Carpentry jobs	34
(7) Painting jobs	9
(8) Annual Survey of boilers	3
(9) Repair to ho pital furniture and equipment	1005
(9) Repair to hospital furniture and equipment	1005
(10) Masonry repair jobs	21
(11) Major jobs such as erection demolition special repairs shifting of heavy machinery and equipments etc.	2
(12) Water pumping sets	2
(13) Repairs to mutton and vegetable stalls	80
(14) Drawings prepared	57
(15) Sketches prepared	57
(16) Tracings prepared	57
(17) Blue Prints Prepared	900
(18) Nawghani	19
(19) Flag Pole	4
(20) Wall Blocks	3
(21) L. P. G. B. Tank work	1
(22) Animal Cages.	2
(23) Play Apparate.	4

The following Special works were carried out and in progress during the year 1981-82.

- (1) Manufacturing and supplying M. S. Food Trollies ot K. E. M. Hospitals.
- (2) Manufacturing and Supplying Steel Body double Wheel-Barrows for 'T War.
- (3) Providing Grills to the Steel Windows of 1st Floor L. T. M. G. College Building.

- (4) Providing T. W. Furniture for A. P. A., Laboratory at Municipal Veg. Market at Khar.
- (5) Providing Additional T. W. Furniture at A. P. A., Laboratory at Municipal Veg. Market at Khar.
- (6) Manufacturing and fixing T. W. Furniture for Urology Deptt. at K. E. M. Hospital.
- (7) Replacing the Chimney of Paegeon Plant of Asphalt Plant, Worli.
- (8) Providing and fixing T. W. Counter near Auditorium at T. N. Medical College.
- (9) Manufacturing and Supplying T. W. Furniture for Opthaimic Deptt. of K. E. M. Hospital.
- (10) Fabrication, Supply and Installation of 5 Nos. of 25 Kgs. Capacity each Drying Tumbler Machines at Municipal Power Laundry.
- (11) Fabrication, Supply and Installation of 8 Nos. of 75 Kgs. Capacity each side loading Washing Machines at Municipal Power Laundry.
- (12) Fabrication, Supply and Installation One continuous Air Speed Drying Machine, 750 Pieces/Hr. Capacity at Municipal Power-Laundry.
- (13) Supply and Installation of L. P. G. Tank with suitable Pipe Line at G. T. B. Hospital.
- (14) Supply and Installation of L. P. G. Gas Pipe Line with Equipments at Nair Hospital Denta. College.
- (15) Providing & fixing T. W. Cash Counters, T. W. Cabines and other-Furniture for Dy. C. A. (E. S.) at 'M' Ward-Office, Chembur.

* During the Administrative year, this Section completed the work to the tune of Rs. 42,913,70

(vi) *Foundry Shop* :—Municipal Foundry situated at Municipal Workshops Caste Ferrious and Non-ferrous items as per requirements from various Municipal Departments. For Ferrous Castings, there is one No. of 2 Ton./Hr. Capacity Cupela and for non-ferrous castings-2 Nos. of Coel fired-pit Furnaces. C. I. Manhole frames and Covers are the main Products of Municipal Foundry. Other Articles includes Pump Castings, Casting type impellers Housing Plates, Hubs Bushings, Frames Gun-metal Brange, White Metal Brarings and Special Allege etc.

During the year, under report, Foundry received 187+25 Jobs. for Manhole Frames and Covers, numbers of Jobs out of this 204 Nos. of Jobs completed and 8 Jobs of the year, 1980-81, Foundry has supplied to Dy. Chief Engineer, (Stores) and other Departments-1,218 Nos. of Circular Manhole frames and Covers and 276 Nos.-of Rectangular M. H. F. Covers, 4 Boxes and 4 Nos. of different Boxes against a Guarantee of 600 Nos. of Manhole frames and Covers per year.

(vii) *Municipal Power Laundry* : During the Administrative year, the Laundry washed 59,99,714 Linen of 50 Medical Institutions mentioned above. The rate of washing was fixed at Rs. 90 for 100 Pieces of Linen for the period from March, 1981 to June, 1981, at Rs. 100 for 100 Paises of Linen for the period from July, 1981 to Feb. 1982.

7. 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 recommendation of tenders, 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-5.

(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 of the works carried out are furnished in Appendix No. 8.

(iii) *Plant and Machinery Section* :— This section carries out repairs and maintenance of Electrical Machinery and Electrical works in the existing Municipal properties.

30 Estimates were prepared.

43 works were carried out through outside agencies costing Rs. 1,13,013.00

416 works were executed departmentally costing Rs. 6,33,151.00.

(iv) *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 were 101 estimates amounting to Rs.25,28,221.00 prepared and works of electrification providing pumping sets electrical fans, fitting clocks, repairs etc., amounting to Rs. 4,42,470.00.

(v) *Refrigeration Section* : This section is entrusted with the preparation of estimates invitation and recommendation of quotation and tenders, execution of contracts and supervision of contracts in respect of works for purchases and installation of air conditioning and Refrigeration Machinery under Loan Works Programme as well as under the Revenue Budget for City and Suburbs. Moreover, the works pertaining to repairs, maintenance and servicing of existing air-conditioning and refrigeration machinery in the City, Subs. and Extended Subs. is also looked after by this section. The works of Repairs/Maintenance are carried out through private agencies by inviting quotations and by entering into service contracts. The work of servicing and maintenance of the equipments, located at major Municipal Establishment, however, is carried out departmentally, the details of which can be seen in Appendix NO.—7.

8. CONSERVANCY BRANCH :—

The Department of Solid Waste Management including the Transport Branches works under the direction and control of the Director, (Solid Waste Management). He is assisted in the work by Dy. City Engineer (Solid Waste Management), Head Supervisor, Dy. Head Supervisors, Assistant to the Head Supervisor and by two Executive Engineer in the Transport wing. The Transport Wings provide vehicles for transportation of refuse and cess pool contents from unsewered area.

Solid Waste Management :— The service consist of collection, removal and disposal of garbages and sweeping from the Public Roads, streets, foot-paths and by-lanes and maintenance and Dumping Grounds. The work of removal of Night Soil and Cess Pool from un-sewered area and maintenance of public sanitary conveniences is also undertaking.

(i) *Collection of refuse* : All the public roads, foot-paths and house gullies were cleaned daily. The quantity of refuse and other waste material collected in street cleansing operation from the City and Suburbs is as follows :

Refuse collected.	Average per/day.
City 8.58 Lakh tonnes. 	2350.14 tonnes.
Subs. & Ext. Subs. 4.77 Lakh tonnes. 	1,307.8 tonnes.

During the year 585 (City), 692 Sub. and (Ext. Subs) Hutmet Colonies situated on the Government of Maharashtra Housing Board, private and B.M.C.'s lands were attended to and 30,000 tonnes (City), 63,130 tonnes (Subs. and Ext. Subs.) refuse was removed from said colonies.

(ii) *Transportation of refuse* : Transportation of refuse was regularly carried out by engaging Mechanical traction. Total vehicle shifts employed for removal of refuse during the year are as follows :—

Serial No.	Area	Municipal vehicle	Vehicle shifts on contract	Ratio
1	City	.. 43,277	1,31,627	25.75
2	Subs. & Ext. Subs.	.. 36,641	56,575	39.61

18 Nos. compacting vehicles which carry 2½ times more load than that carried by conventional vehicles were used.

(iii) *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 and Few Suburban Wards was 9,56,155 tonnes. The final disposal of refuse in suburbs was done by reclaiming low-lying land at Chincholi, Gorai, Esic Nagar and Charkop in Eastern Suburbs and Deonar and Mulund in Eastern Suburbs. Total disposal in the Suburban dumping ground was 12,05,413 tonnes.

(iv) *Collection, Removal and Disposal of Night Soil :*

Night Soil, Collection and disposal service was rendered to 2826 basket privy seats Total 826 Kilo Litres quantity of night soil was removed daily in the City and Suburbs 230 kilo mitres quantity of Night Soil was removed in Municipal Mechanical tranction using 2 vehicles per shift and emptied in Night soil Depot at Dharavi and Kurla.

(v) *Public and Private Latrines and Urinals :*

During the year 206 public sanitary conveniences with 1,015 W. C. seats and 836 urinal stalls were maintained, there exist 106 separate urinal blocks with 444 urinal stalls in the City area and 184 urinal blocks with 734 urinal stalls in Subs. & Ext. Subs. were maintained.

(vi) *Prevention of Nuisance :*

During the year 1,423 cases in the City and 2130 cases in the Suburbs and Extended Suburbs were made by 96 Nuisance Detectors for offences such as Urinating, detecting and throwing refuse on public roads under section 115 of Bombay Police Act and Rs. 36,335 were recovered as fine. During the year 1,665 cases in the City and 779 cases in Suburbs were made under section 372 (B) of the Bombay Municipal Corporation Act and Rs. 29,744 and Rs. 20,015 were levied as fine respectively in the City and Suburbs.

(vii) *Removal and Disposal of Dead animals :*

The work of removal and disposal of dead animals from area within the Greater Bombay Limits is carried out by the contractors Bombay Khadi and village Industries Associations. Skinning work is being carried out at village Bapno in Thana District since 1-5-1973 about 68,793 dead animals were removed during the year.

(viii) *Conservancy and Special Services :*

These services were rendered to circuses, Exhibitions Big-concerns, Industrial Establishments etc., on payment of Scheduled charges. A amount of Rs.38,45,976.82 was collected for rendering conservancy services.

(ix) Conservancy Staff Quarters :—

160 Labour Chawls in the City and 122 chawls in Suburbs with 3,957 and 1,830 tenement respectively were looked after and maintained for housing conservancy staff. 40% and 30% of the staff in the City and the Suburbs respectively have been provided with the free accommodation and the rest are given House Rent Allowance.

(x) Labour Welfare :—

21 Nos. welfare centres are functioning for the benefit of conservancy staff at different places in the City and Suburbs.

(xi) Co-operative Credit Societies for Labourer :—

There are in all 12 Co-operative Credit Societies with an aggregate membership of 8,191 members for the benefit of Labour Staff of the Branch. The share capital subscribed was Rs. 40,68,070/-.

(xii) Expenditure on conservancy Services

The total expenditure incurred on Conservancy Services for garbage cess pool and public sanitary conveniences etc., during the year was Rs. 10,06,56,522.31 out of which Rs. 9,52,93,813.31 was for clearance, transportation and disposal of refuse of 8.58 lakhs tonnes. The expenditure on Halalkhore services in the City and Suburbs were Rs. 53,62,709.00 and Rs. 5,64,43,029.00 respectively. The cost per tonne of garbage come to Rs. 130.41 and per capital Rs. 23.71.

(xiii) Special features :—

(a) Rat Incinerator at Haffkine Institute is installed and will be commissioned shortly.

(b) 250 kg./hour capacity incinerator plant installed at group of T. B. Hospital at Sewri for burning of hospital refuse has also been commissioned and is functioning smoothly.

(c) Emergency services were given in all city wards. 100 chronic complaints were attended during night time and 2,043 tonnes of refuse was removed. A good relief has been given to public.

(9) TRANSPORT BRANCH :

The Transport Department (City) is entrusted with the maintenance and operation of vehicles supplied to various Municipal Departments. There are 552 Vehicles 19 Bulldozers and 50 Trailers in the City Fleet.

The overall efficiency of the fleet was maintained at 80 per cent. throughout the year.

During the year 1981-82 new vehicles and 20 new compactors are added to modernise the refuse collection service.

The suburban Transport Department is entrusted with maintenance and operation of vehicles for various departments. New vehicles were purchased and thus, there were 340 vehicles in running condition, excluding the vehicles proposed to be scrapped.

The vehicles which were utilised for rendering the various services are detailed below :—

Health services ...	...	...	...	...	65
Conservancy services	...	...	...	...	165
Encroachment removal	...	...	...	...	17
Others	...	...	...	...	93
				Total	340

ACHIEVEMENTS.

(a) Selling of the accumulated scrapped material.

(b) The 17 Nos. (3 donated) of new vehicles were added in the fleet.

(c) Due to improvement in utilization of vehicles this department has realised Rs. 54,66,660.00 more than that of last year.

(d) Total efficiency of the fleet achieved during the year. 70 per cent.

10. PRODUCTIVITY UNIT :—

Manpower development : In the year under review, the Productivity Department conducted 113 training programmes, including Management Training, Job training and Preparatory Training for promotional tests and examinations held by the administration.

The participants included 2822 employees ranging from top executives, administrative and accounts staff to lower cadre staff from the transport and conservancy departments.

Projects & studies : Projects and studies undertaken numbered 48 major and minor studies besides scrutiny of staff proposals from Engineering and Accounts Departments mainly, specially referred by the M. C.

Central Library : 467 new books were purchased during the year, taking the total number of books to 2759. The number of members has gone up from 1073 to 1216. Besides the periodicals, now being received in the library, 42 additional periodicals mainly technical subjects, including Management and Public Administration, Audit and Accounts Architecture and various engineering branches, have been subscribed for and would start coming in. These include inland as well foreign publications.

Efforts are being made to recognise the Library Services with a view to increase coverage and utility.

Research & Development : At the end of the year, a special Research and Development Cell has been formed to combat the increasing economical and technological challenges.

To promote individual research, a monthly seminar is held where officers undertaking special studies and research read papers.

Civic Training Institute & Research Centre, Borivli.

Construction work is in progress and ground floor structures are like to come up by end of 1982. The Productivity staff is busy planning details of facilities to be provided at the centre.

Performance Budget :

The performance Budget Cell succeeded this year to put up Performance Budget simultaneously with the traditional financial budget. The cell is now busy collecting and checking periodical reports and to advise and educate the Departmental staff in putting up factual information helping to bridge the gap between the goals set and the performance achieved.

As initiated by a resolution passed at the Conference of Municipal Corporation, endorsed by the Ministry of Works and Housing, Government of India, the inservice training programmes, introduced by this Department, have received wide publicity and Corporation, from all over India have started seeking information and advice. For the benefit of these bodies, the Department has brought out two booklets, giving information about the proposed civic training Institute and Research Centre and objective and activities of the Productivity Department.

11. MAINTENANCE OF MUNICIPAL BUILDINGS AND ROADS :

(1) **Municipal Buildings :** Municipal Buildings in the City at the end of the year were :—

(a) **Housings :** (Tenements 24,603) in the City and (Tenements 8,517.00) in the Suburbs.

(b) **Other Buildings :** 4,936 in the City and 974 in Suburbs.

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

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

The total expenditure incurred on the maintenance of Municipal properties was Rupees 6.11 Crores (City Rupees 3.28 crores and Rs. 2.83 crores in suburbs) out of this an amount of Rs. 3.34, crores was spent on Normal maintenance. An amount of Rs. 2.76 was spent on new special repairs works. Works costing Rs. 5.118 crores (City 1.96 crores and Suburbs 4.22 crores) were executed through the Petty Works Contractors Total No. of works carried out through petty works Contractors was 3,596 and total No. of works carried out departmentally was 1,2431 and the amount of expenditure incurred was 2.74 crores Rupees.

(2) **Roads and Footpaths.**

and Length of Road (K. M.)

	Cement Concrete	Block tapped	Sett paved	Water bound Macadam.	Others	Total length.
City	67.4646	307.3072	.55	..	103.6018	478.9266
Suburbs.	.. 106.05	739.30	..	5.00	55	905.35

Improvement of Roads.

	Street Asphalt	Chipon Asphalt	Semi- grouting.	Asphalt concrete	Surface dressing
City.					
Area (Sq. Mtrs.)	27,000	24,500	.. 81,400
Expenditure (Rs. in lacs)	8,10,000	6,31,000	.. 10,90,252,98
Suburbs.					
Area (Sq. Mtrs.)	9,500	83,626	16,500 1,78,616
Expenditure (Rs. in lacs.)	4,75,000	34,40,000	11,41,000 70,66,000

Rs. 114 crores and Rs. 69.21 lacs have been spent to repairs of road including reinstatement of trenches in City and Suburbs respectively.

343 works and 1,154 works costing Rs. 1.17 crores and Rs. 2.60 crores respectively in City and Suburbs were executed through the Annual Petty works contractors.

As usual an amount of Rs. 2,70,128 was paid to Bombay Port Trust for clearing and repairing the Port Trust wharves and Roads.

Miscellaneous works like repairs, repainting of sheets name boards, providing new boards, maintenance of public movements, benches on the footpath and guard railings were under taken as usual.

While widening road 3317.33 sq.mtrs. land & 16364.20 sq. mtrs. land was acquired under setback and compensation claims for set back settled during the year amounted to Rs.2.00 lacs and 1.32 lakhs in city and Suburbs respectively.

There were 40 road rollers out of which 1 petrol driven and 36 were diesel driven and 3 steam driven.

Permits :— 4,195 permits in City and 7,723 in suburbs were issued for excavation in roads and footpath; the cost of reinstatement of disturbed surface was charged to the respective permit holders and the trenches were repaired. Amount of Rs. 44,755.30 in City and Rs. 1,76,940 in Suburbs were recovered as fees for the purpose.

602 Notices under section 322 (b) of the Bombay Municipal Corporation Act were issued in City against unauthorised occupation of roads and footpath by dumping building materials. In addition 5,955 in City and 310 in Suburbs permits were issued for occupation of roads for erecting mandaps, placing chairs and benches etc., and Rs. 43,628.20 were realised from City and Rs. 7,087 from Suburbs.

12.—Asphalt Plant and Crusher —

The work of asphaltting roads approved by the Corporation was continued during the year and Roads covering an area of 1,00,164 Sq. meters, were asphalted at a cost of Rs. 29,49,579.40 (Please see Appendix II).

Asphalt Plant. :—

(a) The Municipal hot-mix asphalt Plant at Worli was in operation throughout the year except during the monsoon from July 1981 to October 1981. The Pegaon Plant mixer worked for taking out cold-mixed materials required to fill in the potholes in the City. The labourers for running the Asphalt Plant were engaged departmentally.

(b) The total area of 99,37 Sq. mts. of potholes were repaired during the year.

(c) Capital roads admeasuring 100,164 Sq. mts. were repaired by surface, chip boat, Grit coat.

The main Asphalt Plant and Pegaon Plant worked for 283 days and remained closed for 82 days on account of rainy season, Sundays holidays and break downs of Plant.

The rates adopted for booking expenditure for different mode of construction were the same as per previous year. The total expenditure for repairing the road surface the cost of which chargeable to repairs grant amounted to Rs. 29,49,579.80.

The total turn over by the main and Pegaon Plant were 319430 kgs. and 3191210 kgs respectively please.

13. BUILDING AND ROAD MATERIALS TESTING LABORATORIES AT WORLI :

I. Road Material Testing Laboratory :

Tests on	No of tests done	Amount of Revenue earned
(1) Asphalt Mixes	11,032	4,546.00
(2) Aggregate Samples	272	175.00
(3) Soli Samples	396	4,832.00
(4) Bitumen Samples	19	575.00
(5) Chemical Analysis on water	22	..
Total	11,741	10,128.00

Cost of testing Municipal samples which are tested free of cost is Rs. 1,13,700.00

II. Buildings Material Testing Laboratory :

Particulars of the samples.	No. of samples Tested			
	Deptt. work	Govt. work	Private work	Total No.
Concrete	6402	1260	2000	9662
Bricks .. .. .	..	Combined Total	..	1500
Cement	79	27	25	131
Miscellaneous Sieve analyses Hammer tests etc. .. .. .	..	Not Separated		

Table No. II

Particulars of the samples.	Cost of testing actually Recovered in Rs.			Total cost in Rs.
	Deptt.	Govt.	Private	
Concrete ..	Free	9,450	30,000.00	39,450
Bricks. ..	..	..	Combined Total	19,500
Cement ..	Free	2,835	2,625	5,460
Miscellaneous Tests. ..	..	..	..	..
Hire of Moulds. ..	..	..	1,501	1,501.00
			Grand Total:	65,911
Free cost of testing (cement) Rs. 8,295.00				
" " " (concrete) Rs. 96,030.00				
Total Cost of Municipal work Rs. 1,04,325.00				
Total cost of work done: .. 1,70,236.00 1,70,236.00				

14. PUBLIC STREETS LIGHTING :

Lighting Electric street lamps on the Roads, Gardens, on foot over bridges were 25,982 in the City and 33,290 in Suburbs giving an increase of 547 and 1201 respectively over the last year.

The details of the different types of street lighting of wattages varying from 80 watts high pressure mercury vapours (HPMV) to 400 watts HPMV and from 500 watts (Tungstone Filament) T. F. to 1000 watts T. F. are shown as follows —

Description.	T. F. Lamps.	H.P.M.V. & Flourscent	T. D. Ballards.	Total
Municipal	9,933	34,745	357	45,025
All in hire	Nil.	14,247	Nil.	14,247
			Total	59,272

During the year 6,175.602 K. wts (Load) and 22,60,934 K.W.H. units were consumed for maintenance of street lighting through B. E. S. T. Undertaking.

Additional expenditure of Rs. 27,6646.34 has been incurred on street lighting on number of roads and junctions, some of the newly constructed roads were provided with street light, some of the street lighting poles were required to be shifted from traffic point of view due to widening of roads. or realignment of traffic Islands chanreliser.

Additional expenditure of Rs. 8,17,805.00 was incurred for the rebate given to Bombay Port Trust Authorities as usual due to maintaining and lighting some of the roads in B. P. T. areas which are used by the general public and for the light maintenance and cleansing of these roads, cotton depots, whaval, docks and bunders.

The lighting arrangement on 45 roads have been improved, street lights were provided on 36 new roads.

The temporary lighting arrangement was made during the Ganapati Festival at Girgaum Chowpatty, Cuffe parade, Mazgoan, picr Colaba, Banganga, worli, Prabhadevi, Dadar, Shivaji Park Sewri, Mahim Beaches for safety of General Public Visiting immersion ceremny.

The lighting arrangement was provided during Navratri, Festival at Mahalaxmi Temple area Mahim Fair at Mahim and on 'New Year Evening,' and 26th January at Gateway of India

The traffic islands, central divider and railing have been provided at 95 different junctions at the total cost of Rs. 11,84,363.

All these arrangements were provided at the cost of Corporation from safety point of view.

To illuminate the big junctions where vehicular as well as pedestrian Traffic is heavy semihigh mast lighting being provided for better result.

(ii) Removal of Vehicles.

Vehicles which were found undergoing repairs or abandoned on public roads or footpath thereby causing obstruction to traffic and pedestrian, removed in the Municipal custody under section 314 of the Bombay Municipal Corporation Act. During the year under report total number of vehicles removed to Municipal custody was 1283 out of which 1174 vehicles retrieved by the parties were released on payment. Steps are taken to auction the unclaimed 109 vehicles to recover Municipal dues.

(iii) Traffic :—

The work of constructing traffic islands, central dividers, R.C.C. Railings, were carried out on 85 roads at the approximate cost of Rs. 24,26,636.

Automatic traffic signals were installed on junctions during the year company of sole contractors Messrs. I.T.I. Ltd

Road marking strips, pedestrian crossings and road divide line and Kerbs were painted on all important roads in City and Suburbs.

Traffic system management plan for Central Business District of Bombay Dadar and Andheri has been prepared with the assistance of Traffic consultant and the recommendations have been approved by the Municipal Corporation, 'One way Road Scheme, parking restrictions, Pedstrian subways, footover bridges, and Pedestrian plaza at Dr. Dadabhay Nowroji Road, have been proposed in the plan. Implementation of the scheme except subways etc. especially in the area around Churchgate and V.T. Railway station has already been started. The work of providing sophisticated premed traffic responsive signals has commenced.

STORM WATER DRAINS & NALLA PLANNING.

Various suggestions regarding the 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 9 Wards in City (one each) for (a) Repairs to the Storm Water Drains, and (b) Desilting of dhapa Drains. These Agencies were utilised during the Course of a year and the work was carried out the extent of Rs. 22,00,000/-.

Water entrances, gullies, drainage connections were cleaned through the Ward Staff in the City.

The work of desilting of major drains and nallas in 'F & 'G Wards was carried out through the two Agencies.

11, major works pertaining to the Storm Water Drains and nallas were executed at a total cost of Rs. 1,08,39,897/-.

11, estimates, were prepared for the works pertaining to the Storm Water Drains. The cost of these estimates, worked out to Rs. 1,13,00,000/-.

(II) Regarding the Suburbs, the following jobs were carried out :—

r Tenders were invited and the Contractors were appointed for the 12 Wards in the Suburban Areas and the various Drains, Culverts, nallas were desilted during the Course of a year. The adv ses were given to the Wards regarding the measures to be taken as and when necessary in the form of excecavating Kutcha drains, desilting and diversion of Storm Water drains wherever necessary

16 estimates, were prepared during the year, under review. The cost of such estimates was Rs. 99,14,195/-. 16 tenders were invited, amounting to Rs. 67,24,658/- in the Suburban areas This is in addition to the tenders invited in the City.

Last year, the cement was not adequately available. The position regarding the supply of cement improved considerably in the third quarter of the year and as such the tempo of the work of construction and training of nallas improved considerably. 16 works were commenced and the 'Work-orders, therefore, issued amounting to Rs. 99,14,195/-.

During the Course of a year, 450 proposals for the Development of the areas and Building Plans were received from the Private Builders. They were scrutinised and the recommendations were made for the purpose of implementation.

As an experimental measure, the work of desilting the River Dahisar in the Regions which were subject to flooding, was taken up through the Contractual Agency, for the purpose of giving relief to the areas which were getting badly affected. In addition, the desilting job was extended to the Rivers Valbhat and Vakola. The jobs on these three Rivers were completed before the onset of monsoon.

The works of desilting the Drains and the Culverts through the Railway Properties between Churchgate and Dahisar and from V.T. to Mulund, were executed through the Central & Western Railways. These works were carried out at the cost of B.M.C.

Regarding the widening of existing Culverts or providing of new Culverts across the Railway lines & the Express Highway, and the matter was taken up with the Authorities concerned; matter pursued and the payments made wherever, necessary, in four cases.

15. BUILDING CONSTRUCTION BRANCH :

This branch supervised the work of Building construction after contracts are awarded by Planning and Design department. A synopsis of the work done by this branch during the year is as follows :—

Particulars.	Zone	Works completed		Works in Progress	
		Nos.	Cost (in lacs)	Nos.	Estimated cost (in lacs)
A. Housing.					
(a) Works including pile foundation	City	..	..	..	..
	W. S.	..	..	2	64,19,324
	E. S.	1	71.67	2	111.04
(b) Structures.	City	..	..	..	..
	W. S.	..	..	..	..
	E. S.	..	..	..	..
(c) Tenements.	City	2	77.69	13	345.84
	W. S.	..	..	..	..
	E. S.	..	..	924	..
B. Other than Housing.					
(a) Schools	City	2	40.54	7	178.02
	W.S.	4	68,01,391	11	2,76,99,309
	E. S.	2	18.50	7	273.98
(b) Markets.	City	3	58.38	4	140.51
	W. S.	1	2,42,009	..	..
	E. S.	..	..	2	48.43
(c) Hospital & Maternity Homes.	City	3	76.86	15	452.73
	W. S.	..	..	5	2,54,03,287
	E. S.	..	..	4	391.70
(d) Other works.	City	3	41.57	12	271.60
	W. S.	5	38,72,443	9	4,36,07,525
	E. S.	3	34.64	15	1,013.32

16. PRIVATE BUILDINGS AND STREETS :

(i) *Building Proposals* : 39.12 proposals (1,144 in City and 2,763 in Suburbs) under Section 337 and 342 of Bombay Municipal Corporation Act for erection of new buildings and additions and alterations to the existing buildings respectively were received during the year. Out of those 1,900 proposals (299 in City and 1,601 in Suburbs) were passed :—

Serial No.	Particulars	City	Suburbs
1	Building applications received	11,49	2,763
2	Permits for construction of buildings issued	299	1,601
3	Completion certificate received	65	1,251
4	Buildings dealt with	232	3,752

(ii) *New Buildings* : The position of residential buildings constructed by different agencies (other than Municipal) was as under :—

Agencies	No. of Buildings		No. of tenements	
	City	Suburbs	City	Suburbs
(a) Private enterprises	28	646	782	6,403
(b) Co-operative Societies	17	326	412	11,784
(c) Employers for their employees	3	15	16	340

731 proposals (168 in City and 563 in Suburbs) for non-residential building were received during the year—But of which 531 (56 in City and 475 in Suburbs) were disposed of and 268 (11 in City and 257 in Suburbs) non-residential buildings have been constructed during the year.

76 layouts 56 proposals for amalgamation and 15 proposals for sub-division were received and 51 layouts 39 amalgamation and 7 proposals for Sub-divisions were sanctioned.

APPENDIX No. 1

Statement showing the works of building Construction Completed and those in progress

(Amount shown in lakhs).

'A' Works completed.

Serial No.	Name of the Work	Expenditure (Rs. in lakhs)
(a) Housing (City)		
1	Construction of 282 T/S X 8 shops at Sector 'B', Dharavi	68.90
2	Construction 72 T/S at Sanaswadi Mazgaon Division	8.79
	Total	77.69
(E.S.)		
1	Construction of 600 T/S at Deonar Slaughter House (Work terminated)..	71.67
	Total	71.67
(b) Other than Housing (City)		
1	Repairs to roof and drainage arrangements at M.J.P. Markets. ..	40.66
2	Construction of shed No. 5 and 8 at M.J.P. Market	11.11
3	Construction of temporary mutton and eggs stalls at M.J.P. Market ..	6.61
4	Construction of Gymnasium Bldg. at B.I.T. Chawl	9.98
5	P/F for multistorey Bldg. at Nair Hospital (600 beded)	69.71
6	Construction of School Bldg. at Finlay Mill Coumpound, Parel ..	39.42
7	Construction of Community Centre at Worli	16.01
8	Construction of Laundry and Kitchen Block at A. L. Hospital at Wadala..	5.00
9	P/F for cement godown at C.S.N.M. Joshi Marg	15.58
10	P/F for R.M.O. s quarters in the compound of Kasturba Hospital ..	2.15
11	Extn. to School Bldg. on plot No. 998 at T.P.S. IV Mahim	1.12
	Total	217.35
(W.S.)		
1	Waterproffing treatment to the existing basement of Municipal Office Bldg. at Waterfield Road, Bandra (West)	61,983.00
2	Construction of School Bldg. at Tarun Bharat Society, Chakala, Andheri (East)	20,01,381.00
3	Providing Pile foundation for School Bldg. at Gundavali, Andheri (East)	3,33,149.00
4	Manufacturing Supplying Fixing or placing Wooden furniture and other Decoration Work in D.M.C. IV s chamber K/W Ward.	75,210.00
5	Pile foundation for proposed const. of Market at Turner Road, Bandra	2,42,009.00
6	Dev. of Cementry at Dahanukarwadi, Kandivli (West)	5,57,213.00
7	Construction of Elcc. Cremetorium at Hindu Cementry at Oshiwara Jogeshwari,	31,16,431.00
8	Pile foundation for School Bldg. at D- N. Nagar, Andheri.. ..	2,01,209.00
9	Manufacturing Suppling and Fixing T. W. sliding and folding Decorative Shutters cum partition at Ccooper Hospital, Juhu.	61,897.00
10	Construction of School Blcg. at Eksar Village, Borivli	42,62,652.00
	Total	1,09,13,134.00

APPENDIX No. 1—(Contd.)

Serial No.	Name of the work	Expenditure (Rs. in lakhs)
(E.S.)		
1	Construction of godown for storage of hazardous goods at Deonar. ..	12.92
2	Construction of compound walls for protection of Municipal vacant lands in L, M, N and T Wards	17.96
3	Expansion of Dhanji Dershi School at Hingwala Lane, Ghatkopar (East)	7.35
4	Repairs and renovation of School Bldg. at Chembur Colony	11.15
5	Providing compound wall and filling work in the cemetery at Deonar...	3.76
	Total ..	53.14

‘B’ Works in Progress

Serial No.	Name of the Work	Estimated Cost	Expenditure incurred upto 31-3-1982
(a) Housing			
(City)			
1	Guniting to 1 to 19 Bldgs. at B.I.T. Chawl, Bellasis Road	29.10	14.66
2	Const. of 45 Transit T/S at Tardeo	5.20	3.90
3	Reconstruction of Sukhlaji St. Chawl Phase-I ..	22.76	16.13
4	Construction of conservancy staff quarters at Dadasaheb Phalke Road.	22.04	13.03
5	Construction of 358 T/S at Worli	45.85	21.67
6	Development of H. S. Chawls at Palton Road ..	16.27	7.56
7	Construction of Memanwada Fire Brigade, Bhendi Bazar	57.46	1.02
8	Construction of Sweepers Quarters at Kasturba Hospital	15.29	1.21
9	Construction of low cost Housing at D. P. Wadi ..	49.71	21.33
10	Construction of Conservancy T/S at Walpakhadi ..	46.78	6.21
11	Construction of Staff & Managers Quarters at Thakre Uydan, Sewri	12.49	7.51
12	Construction of T/S at Bhatt Chawl Coumpound at Worli	12.28	3.35
13	Construction of T/S and Gym. on Plot No. 1096 B.T.P.S. IV Mahim	10.61	0.74
	* Total ..	345.84	118.32
(W.S.)			
1	Construction of T/S on 16 B.T.P.S. VI, Shastri Nagar, Santacruz (West)	58,17,066.00	25,81,526.00
2	Proposed Construction of Ghadiali Chawl at Borivli..	6,02,258.00	5,46,876.00
	Total ..	64,19,324.00	31,28,402.00

Serial No.	Name of the work	Expenditure (R.s in lakhs)	
(E. S.)			
1	Construction of 260 T/S for redevelopment of Chembur	64.21	39.86
2	Construction of multistoried Bldg. in the compound of 664 T/S at Parksite Colony, Vikhroli (West).	46.83	0.75
Total		111.04	40.61

Serial No.	Name of the Work	Estimated cost	Expenditure incurred upto 31-3-1982
(Rs. in Lakhs).			

(b) Building other than Housing

(City)

1	Expansion of Municipal Printing Press at Carnac Bunder.	18.45	17.41
2	Construction of Maternity Home & Dispensary at Zaobawadi.	68.43	32.98
3	Construction of lift block at Nair Hospital.	21.87	18.82
4	Expansion of Kamathipura Eye Hospital.	43.39	13.28
5	Construction of Library Bldg. at G. S. M. College.	36.88	33.69
6	Construction of multistoreyed bldg. for store at K. E. M. Hospital.	31.48	15.61
7	Construction of Market at Elphinstone.	77.77	27.09
8	Additions & alternations expansion of K. E. M. Hospital Bldg.	37.79	36.36
9	Construction of Transport Garage at E. Moses Road.	91.94	29.06
10	Construction of School Bldg. at Sitaram Mill Compound.	52.58	32.00
11	Construction of School Bldg. at Jogalekar Wadi.	66.90	25.75
12	Adds. & Alterations to O. P. D. at L. T. M. G. Hospital.	49.29	27.54
13	P/F for School Bldg. at C. G. S. Colony Sion Koliwada.	14.44	10.79
14	Improvement of Dharari Hindu Cemetery.	11.48	11.35
15	Construction of Compound wall & Security Chowkey in City.	27.81	24.58
16	Repairs to E. N. T. Hospital Neppar Road.	11.03	1.75
17	Construction of School Bldg. at Sindi Lane, 'C' Ward.	19.80	0.50
18	Construction of open Air Theatre at B. I. T. Chawl, Bellasis Road.	3.57	2.90
19	Construction of Ba bu Genu Market Phase III.	18.33	1.00
20	Adds. & Alterations to Maternity Home, Reay Road.	2.92	1.55
21	Guniting & Painting to 'E' Ward Office Bldg.	8.17	7.75
22	Extn. to School Bldg. at E. S. Patanwada Marg.	7.50	3.32
23	Construction of Market at Ghorapdeo X Lane.	17.50	7.38
24	Additional floor over Nawab Tank Disp. Mazgaon.	1.07	0.60
25	Additional floor over Sewri Cross, Road School Bldg.	6.70	3.16
26	Proposed various works in K. E. M. Hospital.	98.63	25.73
27	Addl. floor over Northern wing at F/S Ward Office Bldg.	10.93	3.68
28	Construction of addl. floor over R. M. O.'s Quarters at L. T. M. G. Hosp.	6.29	2.60
29	W. T. to basement of Bldg. No. 3 & 3A at L. T. M. G.	21.05	12.35
30	Proposed stage tires & sets on play ground near Ma harwala Bldg.	10.92	0.75
31	Addl. floor over G/N word office Bldg.	12.59	11.36
32	Addl. floor over School Bldg. on Plot No. 130a at T. P. S. Mahim.	11.90	5.28
33	Construction of Ambulance Garages at various Mat. Homes.	4.35	1.60
34	W. T. to the terraces of various Municipal Bldgs.	35.65	17.03
35	W. T. to the terraces of G/S G/N Wards.	13.83	6.06
36	W. T. to the terraces of F/S F/N Wards.	26.26	..
37	Addl. & Alts. to Neuro Science Lab. at Nair Hospital.	18.26	6.73
38	Carrying out civil works including waterproofing to the basement of cold storage at G. S. M. Market.	26.91	14.68
Total		1043.04	494.07

Serial No.	Name of the Work	Estimated Cost	Expenditure incurred upto 31-3-1982
			(Rs. in Lakhs)
	(W. S.)		
1	Construction of Centenary Hospital Kandivali (West) ..	92,46,965.00	75,14,201.00
2	Costn. of Mat. Homes & dispensary at Marol Maroshi.. Road, Andheri (E).	19,66,618.00	16,39,594.00
3	Costn. of compound wall & Quarters for watchmen at.. Munl. vacant land at H, J, P & R wards. ..	54,45,359.00	27,75,297.00
4	Constn. of school bldg. at Jawahar Nagar, Khar ... (E).	13,71,954.00	8,19,360.00
5	Construction of superstructure for school bldg. at.. Oshivara Dumping ground, Jogeshwari (W). ..	35,53,418.00	25,27,701.00
6	Constn. of cattle pound at Malad. ..	11,15,417.00	9,93,818.00
7	Proposed constn. of Mortuary in the compound of Harilal Bhagwati Munl. Hosp. Borivli (W). ..	7,90,316.00	5,31,982.00
8	Proposed additional floor over school bldg. at plot No... 370, Vakola, Santacruz. (E).	6,23,584.00	6,05,149.00
9	Construction of school bldg. at Ga dhi Gram Road, Juhu.. Vileparle.	22,97,699.00	10,01,536.00
10	Proposed development of Mithi River cemetery, Phase II..	13,06,475.00	6,67,334.00
11	Proposed constn. of school bldg. Vakola pipe line, plot.. No. 427/5, 530 at Santacruz (E). ..	66,32,071.00	11,86,183.00
12	Proposed constn. of 3rd floor over the existing school bldg. at Dawood baug at Andheri (W). ..	6,55,905.00	5,60,616.00
13	Proposed constn. of training centre on plot No. 205,206,.. & 209, 210 at Borivli (E).	1,08,53,569.00	54,36,664.00
14	Proposed constn. of Mat. Homes at Squatters colony,.. Jogeshwari (E).	31,64,153.00	5,50,179.00
15	Constn. of H/E ward office bldg. on plot No. 133, T. P. S. V Santacruz (E).	19,70,283.00	4,72,525.00
16	Proposed additional floor over the existing school bldg. at Petit compound waterfield road, Bandra..	7,19,826.00	1,03,280.00
17	Constn. of school bldg. on plot No. 1126, Yari Road.. Andheri (W).	54,92,379.00	1,29,938.00
18	Proposed Maternity home & health Centre. & quarters at Kasturba Cross Road No. 2 Borivli.	1,02,35,235.00	43,425.00
19	Constn. of fire brigade station at Malvani Marve Road .. Malad.	64,50,109.00	44,606.00
20	Providing waterproofing treatment to the terraces at.. existing Municipal bldgs. in various wards.	17,65,101.00	1,28,635.00
21	Manufacturing erection of ABCD Type R. C. C. marble.. mosaic chairs in various Munl. garden & public places.	17,60,595.00	2,01,495.00
22	Proposed extension to the school bldg. at C. S. No. 370.. Nehru road, Vakola school compound, Santacruz (E).	20,13,836.00	1,83,553.00
23	Extension to school bldg. at Marol, Andheri (E). ..	39,63,429.00	1,13,090.00
24	Completing incomplete work at fire brigade station at.. Marol Maroshi road, Andheri (E). ..	1,29,40,517.00	1,68,232.00
25	Proposed additional floor over the school bldg. at saraswati baug, Jogeshwari (E).	3,75,288.00	79,380.00
	Total ..	9,67,10,101.00	2,84,77,173.00

Serial No.	Name of the Work	Estimated Cost	Expenditure incurred upto 31-3-1982.
(E. S.)			
1	Construction of centenary hospital at Govandi. ..	255.74	79.40
2	Construction of Central Ambulance Service at Mulund...	38.25	22.18
3	Construction of permanent office bldg., loading, unloading platform at Octroi Naka, Mulund (W). ..	37.67	15.70
4	Proposed school bldg. on plot given by children aid society at Agarwadi, Mankhurd.	33.64	25.81
5	Constn. of school bldg. at Podar Compound, Ghatkopar.	47.17	30.86
6	Proposed additional two floors over Centralised Ambulance Service bldg. at Mulund.	60.94	12.52
7	Providing compound wall and amenities for cemetery.. ward No. 134, Tagore Nagar, Vikhroli. ..	17.77	2.73
8	Providing M. S. grill work for the compound gate, compound wall & pathway parament at Acharya Garden, Chembur.	4.20	3.78
9	Construction of three additional floors and lift block at.. Bhabha Hospital, Kurla.	36.77	6.29
10	Development of Garden at M. P. Road, Mulund (E)...	37.84	12.77
11	Proposed constn. of Muslim cemetery behind I. O. L. at.. Vikhroli (W).	8.97	3.64
12	Proposed constn. of bull dozer garage at Deonar...	25.06	..
13	Constn. of school bldg. at Parsiwadi, Ghatkopar (W)...	61.32	10.19
14	Constn. of Swimming Pool at Chembur...	77.40	32.23
15	Development of Karia Estate at Bhandup (W) for proposed ward Office bldg. ..	15.05	2.07
16	Constn. of Transport Garage at Vikhroli (E)...	190.88	15.59
17	Constn. of Sport Complex at Sonar Bangla, Mulund (W).	523.16	60.09
18	Completing incomplete work of school bldg. at Chuna-bhatti Kurla.	60.54	13.82
19	Constn. of Surat Type pyres & replacement of existing.. pyres in suburbs.	10.96	0.92
20	Constn. of school bldg. at Paspoli village, Powai Garden...	58.75	2.57
21	Civil work for proposed acconstical treatment to the.. auditorium at Deonar Abattoir.	1.22	0.65
22	Completing the incomplete work of Kena Market below.. Govandi Bridge.	19.88	2.79
23	Const. of stage in the compound of Municipal school at.. R. R. T. Road, Mulund.	6.48	0.65
24	Constn. of proposed market at Tagore nagar, Vikhroli (E)	28.55	1.89
25	Waterproofing treatment to terrace of municipal bldgs. in Eastern Suburbs.	24.42	1.67
26	Centralised overhead storage tank & suction tank for 396-300 tenements at Sambhaji Nagar, Deonar. ..	12.78	..
27	Providing water proofing treatment to sanitary blocks of.. municipal bldgs. in Eastern suburbs. ..	25.94	..
28	Construction of auditorium at Rajawadi School, .. Ghatkopar.	6.09	3.40
Total :		1727.43	364.07

APPENDIX No. 2.

Statement showing details of repairs to roads and foot-paths carried out by
Assistant Engineer Asphalt departmentally.

(Rs. in Lacs)

Serial No.	Mode of Repairs	Area in Mts.	Amount
			Rs.
1	Asphalt Roads repaired with Binder Grit Coat, Surface Coat, etc.	1,00,164	29,49,579.80
2	Potholes repaired	9,937	2,33,561.35
		1,10,101	31,83,141.15

APPENDIX No. 3.

Detailed report of total out put of Municipal Foundry.

Serial No.	Type of Castings	Quantity	Weight in Kg.	Rate	Per	Amount
				Rs.		Rs.
1	C. I. Manhole frames and Covers Complete	1,248	3,04,512	640.00	Each	7,98,720.00
2	Rectangular M.H.F. & Covers (914×457) mm.	118	28,910	700.00	Each	82,600.00
3	Rectangular M.H.F. & covers (914×610 mm.)	158	48,980	840.00	Each	1,32,720.00
4	S.T. Boxes	20	600	70.00	Each	1,400.00
5	O.P. Boxes	2	480	1,00.00	Each	2,400.00
6	C.I. Steps	630	3,150	15.00	Each	9,450.00
7	C.I. Machinable Castings	Lot	50,000	7.00	Each	3,50,000.00
8	C.I. Non-machinable Castings	Lot	5,000	7.00	Each	35,000.00
9	C.I. Wheel 6" × 2"	70	560	7.00	Each	3,920.00
10	Brass Castings	Lot	2,643	45.00	Each	1,18,935.00
11	Copper Castings	Lot	21	45.00	Each	945.00
12	Alluminium Castings	Lot	291	25.00	Each	7,275.00
13	White Metal Bearing	5	--	200.00	Each	1,000.00
				Total		15,44,365.00

APPENDIX No. 4.

Statement showing the details of asphalt plant production.

	Main Plant.	Pegson Plant
	K.G.	K.G.
Binder	59,160	25,020
Surface	35,21,370	30,93,030
Chip coat	...	...
Grit coat	5,250	...
Premix 1"	5,720	...
Premix 1/2"	37,27,930	73,160
	73,19,430	31,91,210

APPENDIX No. 5.

Statement showing the details of Works carried out by Electrical and Design Section (City and Suburbs).

Serial No.	Description	Estimated Prepared		Amount Rs.		Contracts Awarded				Amount Rs.				
		City	Sub.	City	Subs.	Civil		Elect.		Civil		Elect.		
						City	Subs.	City	Subs.	City	Subs.	City	Subs.	
Loan Work														
1	Schools.	2	8	4,69,000	13,27,500	...	...	...	...	...	...	...	...
2	Medical Institutions	2	7	5,14,000	13,19,800	2	3	...	...	...	...	6,33,450	53,25,850
3	Housing.	7	4	6,20,000	4,79,500	1	...	...	...	...	...	1,05,000	...
4	Markets.	2	2	1,32,500	2,79,000	...	...	...	...	...	...	...	...
5	Slums.	...	...	...	...	...	...	...	...	...	...	...	...
a)	Schools.	...	7	...	4,40,500	...	1	...	...	...	...	...	...
b)	Medical Institution	...	1	...	7,30,000	...	...	...	...	...	...	...	...
	Housing.	...	1	...	17,000	...	1	...	...	...	...	...	1,05,840
6	Lifts.	2	2	9,62,900	9,34,000	4	1	...	...	...	...	14,75,800	2,22,156
7	Intercommunication	7	3	2,57,400	2,26,300	8	5	...	...	...	...	2,84,238	2,41,698
8	Miscellaneous.	10	4	23,05,700	1,09,47,500	1	1	...	...	...	...	67,000	24,17,250
Total:		32	39	52,61,500	1,67,01,100	17	11	...	...	...	...	25,63,488	83,31,824

APPENDIX No. 6.

Statement showing the works carried out by Road Branch (City and Suburbs) during the year.

Serial No.	Particulars	Completed works.				Works in Progress.				
		Nos.		Actual cost Rs. in lakhs,		Nos.		Estimated cost Rs. in lakhs.		
		City. (Proj.)	Sub. (Proj.)	City. (Proj.)	Sub. (Proj.)	City. (Proj.)	Sub. (Proj.)	City. (Proj.)	Sub. (Proj.)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
				Rs.	Rs.			Rs.	Rs.	
1	Road surfacing work in asphalt Concrete.	7	1	9.13	6.35	11	5	1039.94	287.75	
2	Road surfacing work in cement concrete	1	...	7.44	...	3	8	211.26	219.10	
3	Construction of new road including S. W. Drains. (Proj. Haji Ali)	2	9	9.75	14.03	3	28	212.77	666.65	
4	Road widening Project Section.	...	12	..	200.83	6	77	117.13	2510.79	
5	Any other works	..	20	6	76.77	21.28	10	17	230.94	205.60
	a) Road Works	..	...	..	82.40	...	..	..	..
	b) Bridge Works by (U. T. P.)	2	...	..	..	10	...	504.87	..
6	S. W. Drains	...	1	...	3.26	...	6	...	53.36	
7	Nalla work	...	9	...	25.12	...	8	...	49.88	
Total		32	38	267.49	397.87	43	149	2396.91	3993.13	

APPENDIX No. 7.

Statements showing the details of works carried out by refrigeration Section (Subs.)

Serial No.	Nature of the Works	Estimates pre-pared		Work Orders received	Quotations invited for Supply of the materials		Quotations invited for Partial Works through the Contractors		Cash Purchases through Interest Cash		Works executed Departmentally				Works executed through the Contractors				
		Nos.	Amount		Nos.	Nos.	Amount	Nos.	Amount	Nos.	Amount	Works Completed		Works in Progress		Works Completed		Works in Progress	
				Nos.								Amount	Nos.	Amount	Nos.	Amount	Nos.	Amount	Nos.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
			Rs.			Rs.		Rs.		Rs.		Rs.		Rs.		Rs.		Rs.	
1	Installation of Equipments/Units.	..	2	50,713	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	Repairs to Equipments/Units/Plants	..	..	..	60	11	64,500	16	16,710	70	11,512	57	1,20,000	3	5,450	..	..	..
	Servicing Equipments	..	..	..	9	9	3,000	..	..	41	8,000	9	12,000	..	..	..	..	..
	Supply of Materials	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1,300	..	..
3	Supply & Installation of Filters for A/c. Plant at Deenanath Mangeshkar Natyagriha.	..	..	..	1	..	..	..	..	..	..	..	..	..	1	9,870	..	..
	Total	..	2	50,713	71	66	1,32,000	3	5,450	2	11,170

APPENDIX No. 7

Statement showing the details of works carried out by Air-Conditions & Refrigeration Section (City and Suburbs)

Serial No.	Nature of Proposal.	Estimates prepared.				Works Contract awarded				Works completed.				Works in progress				
		City		Suburbs.		City		Suburbs		City		Suburbs		City		Suburbs		
		No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
Loan Works																		
1	Central Plants.	...	...	1	15,97,454.00	4	64,02,250.00	...	...	...	...	...	...	4	...	...	64,02,250.00
2	Packaged A/c. Water Cooled.	...	4	25,43,242.00	3	12,16,600.00	3	8,71,900.00	1	3,98,890.00	1	2,44,000.00	1	3,98,890.00	2	...	1	10,26,790.00
3	Package A/c. Air-Cooled.	...	...	1	4,37,622.00	2	2,42,807.00	...	...	...	...	...	...	2	...	...	2,42,807.00
4	Mortuaries.	...	...	1	5,04,000.00	1	1,39,830.00	1	56,700.00	...	...	...	...	...	...	...	...
5	Window Air-Conditioners.	...	18	12,99,771.00	5	1,36,928.00	6	3,85,693.00	1	44,278.00	2	1,03,140.00	4	2,82,553.00
6	Ventilation Plant Miscellaneous.	...	1	3,16,470.00	...	...	...	...	...	...	...	...	...	...	...	...	...
7	Roof Insulation, Boxing Ducting, False Ceiling and Acoustic Treatment.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Providing Electric supply to Air Conditioning Plant.	...	2	26,013.00	...	...	1	9,603.00	...	...	1	9,603.00	...	...	...	...	...
9	Blood Storage Cabinet Water Coolers.	...	1	3,76,625.00	2	1,83,925.00	...	...	...	...	...	...	...	...	...	...	...
10	Cooling Tower.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total Rs. ...		26	44,12,121.00	13	40,76,529.00	17	80,52,083.00	3	13,61,542.00	4	3,56,742.00	1	3,98,890.00	12	...	1	79,54,440.00	

APPENDIX No. 7.

Statement showing the details of the works carried out by Refrigeration Section (City)

Serial No.	Nature of Works	Estimates pre-pared		Work Orders received Nos.	Quotations invited for supply of materials		Quotations invited for partial works through the Contractors		Cash Purchases through Imprest Cash		Works executed Departmentally				Works executed through the Contractors				
		Nos.	Amount		Nos.	Amount	No.	Amount	Nos.	Amount	Works Completed		Works in Progress		Works Completed		Works in Progress		
											Nos.	Amount	Nos.	Amount	Nos.	Amount	Nos.	Amount	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
			Rs.			Rs.		Rs.		Rs.			Rs.		Rs.		Rs.		Rs.
1	Supply of Equipments ..	4	2,73,230	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Installation of Equipments/Units ..	3	82,382	1	1	13,200	..	..	..	..	..	..	..	..	1	13,200	..	..	..
	Repairs to Equipments/Units ..	3	3,54,191	1	1	6,500	..	..	..	..	..	..	..	..	1	6,500	..	..	..
2	Repairs to Equipments/Units/Plants ..	..	..	92	23	66,546	31	28,558	25	4,297	84	1,27,101	18	15,564	..	..	..	..	..
	Servicing of Equipments ..	..	..	14	11	16,000	..	..	46	5,000	14	24,000	..	..	..	..	..	..	..
	Supply of materials ..	..	..	3	..	..	..	..	..	..	..	..	..	..	3	5,700	..	..	..
3	Supply of Sign Boards ..	..	..	..	1	4,212	..	..	..	..	..	..	..	..	..	..	..	..	..
	Repairs to CLS-81 Comp. of G.T.B. ..	..	..	1	..	1,000	1	3,500	..	..	1	5,000	..	..	..	..	..	..	..
5	S. & I. of Developing Tank at Balam St. T.B. Clinic ..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	23,172	..
	Total ..	10	7,09,803	112	..	..	..	..	..	..	99	1,56,101	18	15,564	5	25,400	1	23,172	..

APPENDIX No. 8

Statement showing details of works carried out by building construction
(Electrical Section)

Serial No.	Description of the work	Works Completed	Actual Expenditure	Works in progress	Expenditure up to 31-3-1981 (Rs. in Lacs)	
					Rs.	Rs.
Electrification of providing Electrically driven water pumping sets at—						
1	Schools—					
	City	1	30,000.00	2	1,10,000.00	
	Western Suburbs	4	4,09,836.00	9	2,05,480.00	
	Eastern Suburbs	5	78,000.00	4	60,000.00	
2	Ward Offices—					
	City .. .. .	..	..	1	40,000.00	
	Western Suburbs .. .. .	..	..	1	..	
	Eastern Suburbs	1	1,10,000.00	1	..	
3	Hospital & Dispensary & Maternity Home—					
	City	2	5,70,000.00	5	2,10,000.00	
	Western Suburbs	2	8,94,081.00	3	78,022.00	
	Eastern Suburbs .. .. .	..	..	3	30,000.00	
4	Markets—					
	City	2	1,05,000.00	..	..
	Western Suburbs .. .. .	..	..	..	..
	Eastern Suburbs .. .. .	..	..	1	..	
5	Housing —					
	City	3	2,00,000.00	4	2,55,000.00	
	Western Suburbs	1	61,680.00	2	85,421.00	
	Eastern Suburbs .. .. .	..	..	2	70,000.00	
6	Garages Cattle Pond—					
	City .. .. .	..	..	..	..
	Western Suburbs .. .. .	..	..	1	11,527.00	
	Eastern Suburbs .. .. .	..	..	2	..	
7	Welfare Centre—					
	City .. .. .	..	..	3	70,000.00	
	Western Suburbs .. .. .	..	..	..	..
	Eastern Suburbs .. .. .	..	..	4	..	
8	Lifts—					
	City	3	2,80,000.00	7	4,00,000.00	
	Western Suburbs	1	1,30,000.00	3	2,00,000.00	
	Eastern Suburbs	1	20,000.00	4	6,26,000.00	
9	Cemeteries—					
	City .. .. .	..	..	..	..
	Western Suburbs .. .. .	..	..	2	1,45,000.00	
	Eastern Suburbs .. .. .	..	..	3	70,000.00	
10	Fire Brigade —					
	City .. .. .	..	..	1	80,000.00	
	Western Suburbs .. .. .	..	..	..	..
	Eastern Suburbs .. .. .	..	..	..	..
11	Drama Theatre—					
	City .. .. .	..	..	..	..
	Western Suburbs .. .. .	..	..	..	..
	Eastern Suburbs .. .. .	..	..	..	..
12	Swimming Pool—					
	City .. .. .	..	..	..	..
	Western Suburbs .. .. .	..	..	..	..
	Eastern Suburbs .. .. .	..	..	..	..
13	Misc. Works Air-Conditioning Electrification in Slums P.S.C.'s etc.).					
	City	2	80,000.00	1	1,75,000.00	
	Western Suburbs	7	3,20,000.00	5	..	
	Eastern Suburbs .. .. .	..	..	..	..
Total		35	33,88,597.00	74	29,21,450.00	

APPENDIX No. 9

Statement showing the Road Construction Works completed and those in progress.
 'A' Works Completed

Serial No.	Name of the work	Expenditure (Rs. in lakhs)
I-Road surfacing in Asphaltic concrete		
CITY		
1	Resurfacing of certain roads in asphalt oncrete Part-I. ..	9,33,278.00
2	Resurfacing of certain roads in asphalt concrete part-V... ..	8,00,891.00
3	Resurfacing of certain roads in asphalt oncrete Part-VII... ..	14,46,306.00
4	Resurfacing Western Carriage way of Lady Jamshedji Road between Shivaji Park and Mahim Bus Depot.	14,23,646.00
5	Resurfacing certain roads in City in M. P. Part XIII- ..	28,28,671.00
6	Resurfacing certain roads in City in A. P. Part-XXI. ..	15,91,579.00
7	Resurfacing Pappuswadi Road in a.c. including improvement of S. W. drain	89,226.00
		91,13,597.00
SUBURBS		
1	Resurfacing of D. K. Sandu marg from its junction with R. C. marg to V. N. Purav marg, Chembur. ..	6,35,843.97
		6,35,843.97
II Road resurfacing with Cement Concrete City		
1	Resurfacing with cement oncrete P. D'mellow road from Mallet Rd., to.. princess dock.	7,44,831.00
		7,44,831.00
SUBURBS		
NIL		
Serial No.	Name of the work	Expenditure (Rs. in lakhs)
III—Construction of New Roads		
CITY		
1	Construction of certain roads with S. W. Drain in B. B. R. S. BLK III.....	7,84,819.00
2	Constn. of 24.4 M. road over repaired portion of T. B. drain between Sane... Guruji marg, and K. K. Road.	1,90,207.00
		9,75,026.00
SUBURBS		
1	Constn. of 18 Mts. D. P. Road. through C T. I. from Kurla station to cemetery Kurla (W).	11,55,516.36
2	Extension of road from Deonar Dumping station to Deonar refuse dumping.. ground and extension of Shivaji Nagar Road.	14,58,348.03
		26,13,864.39
IV-Road Widening		
CITY		
NIL		
SUBURBS		
1	Widening and improving L. B. S. marg, from E. E. Co. to the culvert near J & J Co. at Mulund (W). ..	26,48,026.98
2	Widening & improving Adi Shankaracharya marg from L. B. S. marg to.. Saki Vihar road, Part-II.	29,89,392.91
3	Widening & improving 13.41 mts. D. P. Road from Kajupada brikge to.. Kulkarni wadi, Kurla (W)..	4,56,789.03
4	Widening and improving S. G. Barve marg from culvert to E. E. Highway,.. Kurla (East).	3,36,028.58
		65,57,602.21

V—Any Other Works

City

1	Providing and laying 300 mm. dia. S. W. drain at Bhanji Rathod marg from Body Guard lane to K. K. marg (Clerk road).	1,41,709.00
2	Conversion of old dhapa drain into U. G. Pipe S. W. drain along shankar puppala road, Kamathiura.	5,63,725.00
3	Do. Manaji Rajuji road	6,55,267.00
4	Providing and laying 600 mm dia pipe drain leading to Centuy Mill Culvert from Century Bazar.	35,105.00
5	Providing and laying 300 mm. dia. U.G.S.W. drain along T. J. road from its junction with Sakharam Lanjekar marg upto its junction with Acharya Donda marg.	10,620.00
6	Repairs to bad spots on major roads in city except 'C' ward.	26,45,766.00
7	Repairs to bad spots and rectification of bad streches of roads in 'C' ward.	7,49,983.00
8	Conversion of old dhapa drain into U. G. pipe S. W. drain along Sukhalaji street at Kamathipura.	37,710.00
9	Providing and laying 450 mm. S. W. pipe drain at Modi compound, Reay Road.	73,400.00
10	Providing and laying 900 mm. dia. R. C. pipe drain from Garamkhada market to Ambewadi Arched drain passing along Ambedkar marg via. Dinshaw Petit Lane.	1,64,535.00
11	Repairs to Potholes and patch work in City in A,B,C & D Wards.	6,26,829.00
12	Do. E. F/South and F/North ward.	7,36,139.00
13	Do. G/South and G/North.	5,47,259.00
14	Repairs to bad spots on major roads in the City during the period from 1st September 1979 to 31st August 1980.	2,86,468.00
15	Providing and laying S. W. drain in Nair Hospital compound.	68,728.00
16	Providing and laying 600 mm. dia. S. W. pipe Drains at Bharat Bazar, Worli...	1,34,56.00
17	Providing and laying 450 mm. dia. S. W. pipe drain at Shankarrao Naram.. path at Worli.	91,434.00
18	Repairs to potholes and patched work in city.	14,861.00
19	Providing and laying S. W. drain on road off Netaji Subhash road, New.. Marine Lines.	31,356.00
20	Construction of double barredl drain across B. P. T. Railway Tracks between Z. B. Road to M. S. Road at Sewri.	64,114.00
		76,77,569.00

SUBURBS

1	Remodelling of four culverts on L. B. S. marg at Bhandup (West).	2,82,399.31
		2,82,399.31

VI-Storm Water Drains

CITY

Nil

SUBURBS

1	Construction of U. C. R. S. W. drain in Tilak Nagar, 'N' ward, Part-I...	3,26,646.30
		3,26,646.30

VII-Nalls

CITY

NIL

SUBURBS

1	Training of nalla from Salpadevi Rahiwashi, Sangha to Railway Culvert.. Mulund (West).	8,09,441.13
2	Training of nalla adjoining Shivaji Kutir from L. B. S. marg to Mithi River.. Kurla, (West).	1,69,279.47
3	Training of nalla adjoining Nariman Lane from L. B. S. marg, to Mithi River, Kurla (W).	1,36,483.21
4	Training of nalla from Culvert across L. B. S. marg near J J. Co. Mulund.. (W).	3,01,745.72
5	Training of nalla from Guru Govind Singh marg to Tansa Mains in Mulund Colony.	3,52,520.78
6	Training of nalla passing through Railway compound upto the culvert under the station road, Vidyavihar (E.)	1,44,079.96
7	Training of nalla from culvert under Vidyavihar Railway station upto the.. the trained nalla, Vidyavihar (east).	2,44,406.45
8	Training of nalla at Nimkar Society Mulund. (W)	3,03,012.12
9	Training of nalla from Skroop Vyayamshala to pole No. 17, Tembeapda,.. Bhandup (W.)	51,247.68
		25,12,216.52

' B ' Works in Progress

Serial No.	Name of the Work	Estimated Cost (Rs. in Lakhs)	Expenditure booked upto 31-3-1981 (Rs. in Lakhs)
1	Resurfacing of certain roads city in A.P. Part IV ..]	40,18,016.00	5,85,807.00
2	Do. Do. Part II ..	2,09,31,830.00	47,75,325.00
3	Do. Do. Part III ..	20,62,28,371.00	23,21,573.00
4	Do. Do. Part VI ..	1,50,16,857.00	33,42,516.00
5	Do. Do. Part VIII ..	33,91,664.00	20,89,505.00
6	Do. Do. Part IX ..	1,58,30,080.00	37,06,015.00
7	Do. Do. Part XII ..	20,39,853.00	5,33,111.00
8	Do. Do. Part XVIII ..	61,98,263.00	12,13,769.00
9	Do. Do. Part X ..	36,68,243.00	16,12,280.00
10	Resurfacing M. K. road from Opera House to Cooperage.. Band Stand excluding the portion between Shamaldas Gandhi marg and Anandilal Poddar marg.	33,85,324.00	10,79,387.00
11	Resurfacing certain road in City in a. p. part XIV...	1,08,91,041.00	23,68,406.00
		10,59,94,008.00	2,36,27,684.00

SUBURBS

1	Concreting of Internal roads and parking places of provid- ing S. W. drains, compound walls for Octori entries on East side, of Eastern Express Highway, Mulund..	28,24,428.00	11,96,735.18
2	Resurfacing of Chembur Mankhurd road.	1,35,56,968.00	80,98,100.76
		1,63,81,396.00	92,94,835.94

**II—Road Resurfacing in Cement Concrete
CITY**

Serial No.	Name of the work	Estimated Cost. (Rs. in lakhs).	Expenditure booked upto 31-3-1982
1	Reconstruction in c. c. the portion of (a) Sion Road.. between M. L. Chowk and road No. 19 scheme No. 6,; / Sion and (b) Tilak road between Khodada Circle and and Sir Bhalchanddra Rd.	94,22,374.00	12,68,949.00
2	Reconstruction of Sion Road between M. L. chowk and.. E. E. Highway in c. c.	44,62,025.00	9,64,938.00
3	Reconstruction of Dr. Ambedkar Road and Sion road.. between B. N. Maheshwari Udyan and Road No. 19, Scheme No. 6, Sion in c. e.	72,42,153.00	28,71,401.00
		2,11,26,552.00	51,05,288.00

SUBURBS

1	Concreting the major roads & junctions across V. N. Purav marg at Panjarpole Naka Jn.	33,48,012.00	
2	Do. at Panvel Naka junction.	28,77,536.00	6,37,769.52
3	Concreting of central lanes & junctions of major roads in cement concrete in E. S.	48,99,194.00	2,04,612.42
		1,11,24,724.00	3,82,634.81

**III—Construction of new Roads.
CITY**

1	Construction of 27.45 M. wide and 13.40 M. wide road giving access to the proposed B. E. S. T. Depot at Dharavi.	25,15,305.00	
2	Extension of Senapati Bapat Marg with S. W. double barrel drain from its junction with Mori Road to City limit.	99,88,107.00	15,24,582.00
3	Construction of proposed 18.30 M. wide D. P. Road from proposed truck terminus to E. E. Highway at Wadala. Anik Village.	87,74,406.00	1,03,545.00
		2,12,77,818.00	16,28,127.00

SUBURBS

1	Construction of 27 Mts. D. P. Road through Garodia.. Nagar & Pant Nagar, Part III.	17,23,099.00	4,86,625.02
2	Extensions of P. K. Road from Goshala Road to Vidya-pathi Nagar of providing S. W. Drains at Mulund.	13,76,077.00	4,57,916.45
3	Ext of 18 Mts. D. P. Road from R. C. Marg, to Siddharth Nagar behind Begger's Home, Chembur.	7,72,024.00	2,39,051.00
4	Construction of access road off E. E. H. leading to B.E. S. T. Work Shops & Bus Depot. in Wadala Reclamation Scheme.	36,56,412.00	10,92,042.31
5	Construction of 13 Mts. D. P. Road & Part of 18 Mts. D. P. Road from Vishwakarma Marg to the extension of P. K. Road, Mulund (West).	14,48,180.00	4,99,970.83
6	Construction of 13 Mts. D. P. Road from Ghatkopar Road of 13 Mts. D. P. Road from V. N. Purav Marg to Govandi General Hospital, Govandi.	12,48,000.00	88,447.71
7	Construction of 18 Mts. D. P. Road parallel to E. E. Highway from Pestom Sagar Colony to Ghatkopar Andheri Link Road.	53,75,600.00	16,79,282.71
8	Extension of Nahur Village Road & P. K. Road upto Mulund Goregaon Link Road at Mulund (West).	34,19,122.00	1,71,981.37
9	Construction of 18 Mts. D. P. Road off Si. G. Barve Marg near Thakkar Bappe Colony giving excess to the proposed bus depot at Kurla (East).	8,21,454.00	
		1,98,39,968.00	47,15,317.45

IV—Road Widening.

CITY

Serial No.	Name of the Work.	Estimated Cost (Rs. in Lakhs)	Expenditure booked upto 31-3-1982
1	Widening remaining portion of Barkatali Durga Marg...	49,11,167.00	33,87,944.00
2	Adding setback lands to the roads in A, B, C, & D Wards.	27,16,342.00	11,09,842.00
3	Do. E., F. and G Wards. ..	26,36,127.00	7,65,491.00
4	Widening and resurfacing G. M., Bhosale Marg from.. Acharya Atre Chowk to Pandurang Budhakar Marg.	24,67,570.00	3,00,552.00
5	Adding Setback lands to roads in E, F, & G Wards...	24,91,362.00	..
6	Do. A, B, C & D Wards. ..	24,91,362.00	..
		1,77,13,930.00	55,63,829.00
SUBURBS			
1	W/I Adi Shankaracharya Marg from L, B, S. Marg to Saki Vihar Road, Part-I.	38,83,071.00	12,61,172.02
2	W/I 18 Mts. D. P. Road from junction of Nahur Village Road to L. B. S. Marg Mulund (Wrst).	35,20,181.00	24,65,249.21
3	W/I 18.30 Mts. D. P. Road parallel to Railway line from Bhandup Station upto Bhandup Village.	36,13,884.00	19,40,326.09
4	W/I 15 Mts. & 12 Mts. Bus route at Pant Nagar of.. Hingwalla lane of providing S. W. Drains at Ghatkopar (East)	18,76,682.00	7,88,587.12
5	W/I L. B. S. Marg from Culvert near Johnson & Johnson Co. to Bhandup Cemetery Part I.	30,69,495.00	17,76,915.54
6	Do. in Part II. ..	50,44,236.00	38,19,114.80
7	W/I Internal roads in Tilak Nagar, Chembur. ..	20,56,912.00	12,74,655.27
8	W/I Peripheral Roads of Deonar Abattoir of providing.. S. W. Drains at Govandi.	37,76,233.00	21,14,603.92
9	W/I Internal Roads with A. M. in Deonar Abattoir at .. Deonar.	11,19,825.00	8,47,091.28
10	W/I Shivaji Bhai Doshi Marg of providing S. W. Drains, .. Chembur.	11,14,337.00	4,12,602.97
11	W/I S. G. Barve Marg from L. B. S. Marg to Mithi River Kurla (West).	18,49,469.00	10,95,879.06
12	W/I of 18 Mts. D. P. Road to Ganesh Mandir Road at.. Vikhroli.	20,57,660.00	1,03,936.33
13	W/I the Carriageway of remaining portion of main road.. leading to cemetery & other road connecting the same to 27 Mts. D. P. Road & providing S. W. Drains.	24,63,698.00	1,06,710.22
14	W/I Shradhanand Road from junction of M. G. Road to Hanuman Mandir & providing V. G. S. W. Drains. ..	19,44,148.00	..
15	W/I Ghatkopar Industrial Estate Road at Ghatkopar.. (West)	26,84,877.00	..
16	W/I L. B. S. Marg in 'S' Ward limit from Subhash Road to Lake Road.		9,94,557.07
17	W/I L. B. S. Marg in 'S' Ward limit from Powai Road to Subhash Road, Bhandup (West).	1,76,26,693.00	4,46,725.00
18	W/I L. B. S. Marg from Vikhroli Station to Powai Road at Vikhroli (West).	..	..
19	W/I L. B. S. Marg from Nariseva Sadan Marg to Vikhroli Station (N Ward limit).	..	1,26,561.00
20	W/I Ghatkopar Mahul Road from Refinery Railway crossing to Mahul Villale, Chembur.	56,25,973.00	6,99,987.48
21	W/I the existing M. V. Road between Saki Naka to Bail Bazar, Kurla (West).	39,39,550.00	18,10,885.73
22	W/I V. N. Purav Marg from its Jn. with Mankburd Rly. Station Road up to Checta Camp at Trombay.	97,51,936.00	26,92,102.17
23	W/I Chatain roads in Tilak Nagar of Pestom Sagar in.. Chembur.	48,93,861.00	24,49,525.10
24	W/I the existing D. P. Road in Sr. No. 14 leading to proposed Subway under reginary Railway track Kurla (East).	11,81,407.00	..
25	W/I L. B. S. Marg from the junction of Sion to Sitaram Bhairu Marg Kurla (West).	64,18,420.00	..
26	W/I L. B. S. Marg from Sitaram Bhairu Lane to L Ward.. limit Part II.	41,88,680.00	1,15,672.30
		9,57,77,850.00	2,99,11,390.08

V—Any Other Works

CITY

Serial No.	Name of the work.	Estimated cost (Rs. in Lakhs)	Expenditure booked upto 31-3-1982
1	Maintenance of F. O. B. R. O. B. and Sub-ways within limits of M. C. G. B.	43,43,729.00	3,07,006.00
2	Training & covering of Nalla at Antop Hill, Wadala ..	20,28,844.00	1,32,108.00
3	Training of nalla at Indira Nagar, Dharavi, Part-I. ..	13,85,417.00	1,78,548.00
4	Construction of additional S. W. Drain from Dhobighat .. upto Joglekar Nalla adjacent to the existing S. W. drain in Dharavi and construction of S. W. Drain along the periphery of transit camp abutting 90' Road.	27,29,678.00	22,35,362.00
5	Providing and laying 1400 mm. S. W. pipe drain in Wadi .. Bunder area.	31,08,605.00	8,10,400.00
6	Providing and laying VGSW Pipe drain on N. M. Joshi .. Road and Hook Mill Lane.	20,12,322.00	..
7	Providing and laying S.W. Drains and construction of out-fall and S. W. gates for S.W. Bye pass drain at Haji Ali.	39,19,178.00	14,43,978.00
8	Providing and laying 300 mm. dia. R. C. drain and partly open S. W. drain in Hindu Cemetery, Sion in F/North Ward.	1,40,153.00	..
9	Repairs to bad spot on major roads in City.	30,25,346.00	..
10	Reconstruction of open S. W. Drain at Shastri Hall from Forjett Street to Tardeo Road.	4,01,625.00	..
		2,30,94,837.00	51,07,402.00

SUBURBS

1	Adding Set-backs anywhere in L/M Wards. ..	20,27,440.00	9,25,527.61
2	Adding set-backs anywhere in N/T Wards: ..	18,89,250.00	6,14,897.46
3	Providing retaining wall to City limit nalla at Mulund .. Check Naka, Mulund (West)	7,66,212.00	4,15,083.41
		46,82,902.00	1,95,508.48

VI-S. W. Drains

CITY

NIL

SUBURBS

1	Providing open S. W. drain at Tilak Nagar, Part-II. ..	9,58,950.00	4,81,514.72
2	Do. Part-III.	8,01,869.00	3,38,942.77
3	Construction of U. C. R. Masonry S. W. drain & cross .. drain in Nehru Nagar, Kurla (East), Part-I.	9,68,237.00	1,24,179.00
4	Construction of U. C. R. masonry S. W. drain U cross .. drain in Nehru Nagar, Kurla (East) Part-II.	9,43,312.00	1,48,474.00
5	Construction of Major S. W. drains in Kannamwar Nagar Vikhroli (East), Part-I.	9,98,100.00	66,991.00
6	Construction of S.W. drain at Lokhan de Marg, Chembur. ..	6,65,760.00	..
		53,36,628.00	11,60,101.49

331

VII-Nallas
CITY
NIL
SUBURBS

Serial No.	Name of the work	Estimated cost (Rs in Lakhs)	Expenditure booked upto 31-3-1982
1	Training of nalla from Tansa main to the culvert across R. C. Marg, Part-II.	20,85,955.00	11,09,530.07
2	Training of further portion of nalla upto the Housing Board Limit, Laxmi Nagar, Ghatkopar (E).	7,66,716.00	26,779.63
3	Training of nalla from Hanuman Nagar to Pratap Nagar, Bhandup (West).	3,24,668.00	..
4	Training of nalla & construction of S. W. drains through the premises of Fatima School, including remodelling of culvert at Vidhyavihar (West).	1,78,560.00	..
5	Training of nalla on the up-stread side of culvert No. 10, near Sakinaka, Kurla (West).	7,28,645.00	1,37,131.04
6	Training of construction of nalla approach road culvert in slum colony known as Ambika Nagar off Nehru Road, Mulund (West).	1,64,600.00	34,843.97
7	Training of minor nalla from Garan passage to nalla near Govandi station passing through the plot of B. E. S. T. Bus Depot.	3,72,975.00	..
8	Widening of nalla from Kurla Car shed to Creek passing through the Railway quarters, Kurla.	3,65,961.00	..
		49,88,080.00	13,00,284.71

APPENDIX—10
AIR QUALITY MONITORING PROGRAMME

Station No.	Monitoring Station Code	Locational Address.	Date of Installation	No. of Sampling days in the year.	No. of Samples collected & Analysed.					Total on of sample
					SO-2	NO-X	SPM	Sulphation Rate.	S.P.M. Parameters.	
1	2	3	4	5	6	7	8	9	10	11
I HEALTH SURVEY MONITORING PROGRAMME										
H-1	Railway Colony, Chembur.	Bldg. No. MH/RB/II/1 Railway Colony, Central Railway, Ghatkopar, Mahul Road, Vashi Naka, Bombay-400 074.	11-1-78	80	919	919	80	..	680	2,598
H-2	H. P. Nagar, Chembur.	Hindustan Petroleum, Club House, H.P. Residential Colony Chembur, Bombay-400 071.	10-12-77	45	524	530	43	..	430	1,527
H-3	Khar Colony, Khar.	Bldg. No. 1 Municipal Tenements, S. V. Road, Khar, Bombay-400 052.	4-1-78	65	737	745	65	..	550	20,97
H-4	Santacruz (West)	Gazdar Park Municipal School North Avenue Road, Santacruz (West), Bombay-400 054.	15-1-78	65	738	746	64	..	550	2,098
H-5	Railway Colony, Lalbaug.	Bldg. No. RBII/255 Railway Colony, Central Railway, Parel, Bombay-400 012.	3-1-78	71	836	841	71	..	550	2,298
H-6	Poynad, Alibaug.	Primary Health Centre, Poynad Taluka Alibaug, Dist. Colaba.	6-2-78	..	..	..	..	..	..	..
Total :				326	3,754	3,781	323	..	2,760	10,618
II. ROUTINE SURVEY MONITORING PROGRAMME										
R-1	Colaba.	Transport House, BEST Shahid Bhagat Singh Road Colaba, Bombay-400 039.	11-6-80	60	617	620	57	..	500	1,794
R-2	Babula Tank	Imamwada Municipal Secondary School, Imamwada Road, Bombay-400 009.	14-4-79	69	825	830	69	12	53	2,266
R-3	D. C. Road.	D. C. No. II Municipal Primary U. P. School, Drainage Channel Road, Worli, Bombay-400 018.	2-5-80	65	746	750	65	..	510	2,071
R-4	Dadar-Matunga	Woolen Mill Lane Municipal School, Dadar, Bombay 16.	15-4-79	75	866	876	71	12	560	2,385
R-5	Chembur Naka	Municipal U. P. School, Chembur Naka, Bombay-71.	2-9-78	64	735	740	64	12	570	2,121
R-6	Saki Naka	Marol Municipal Urdu School, Saki Naka.	17-4-79	66	759	762	66	12	550	2,149
R-7	Pant Nagar, Ghatkopar.	Centenary year Primary School, Pant Nagar, Ghatkopar (East) Bombay-400 075.	1-9-78	65	693	698	61	12	550	2,014
R-8	Mulund.	Municipal Secondary School, P. Khemraj Road, Bombay-80.	4-6-80	65	763	792	65	..	650	2,270
R-9	Borivli.	Municipal Primary School, Sodawala Lane, Borivli, Bombay-400 092.	22-8-78	65	777	785	65	12	510	2,149
R-10	Unnat Nagar, (Goregaon)	Municipal U. P. School Unnat Nagar, Goregaon (West), Bombay-400 062.	15-6-80	65	737	745	65	..	650	2,197
Total				659	7,518	7,598	648	72	5,580	21,416
III B.M.R.D.A. STATION										
B-1	Bharat Refinery Mahul.	Staff Training Centre Bharat Refineries, Mahul, Bombay-74.	1-6-80	86	926	935	86	..	600	2,547
B-2	Mankhurd.	Municipal School, Mankhurd.	5-10-80	140	1,526	1,526	136	..	600	3,788
B-3	Serwree.	Lal Bahadur Nautical Engg. College M. S. R. Road, Bombay-400 074.	7-5-80	120	1,268	1,283	133	..	600	3,264
Total				346	3,720	3,744	355	..	1,800	9,599
IV R.C.F. STATIONS										
1	Maravali.	Maravali Municipal |Ghatko- per Mahul Marg, Bombay-74.	2-5-80	153	1,693	1,715	153	NH3 1,627	600	5,788
2	Sion Koliwada	Karmaveer Dada Saheb Gikwad Municipal U. P. School, Mulund Road, Koliwada, Bombay-400 037.	2-6-80	180	1,864	1,888	163	906	600	54,21
Total				333	3,557	3,603	316	2,533	1,200	11,209
SUMMARY										
I	Health Survey Monitoring Programme.	..	..	346	3,754	3,781	323	..	2,760	1,068
II	Routine Survey Monitoring Programme.	..	..	659	7,518	7,598	648	72	5,580	21,416
III	B.M.R.D.A. Stations.	..	..	326	3,720	3,744	335	..	1,800	9,599
IV	R.C.F. Stations.	..	..	333	3,557	3,603	316	2,533	1,200	11,209
Grand Total				1,664	18,549	18,726	1,622	2,605	11,340	52,842

APPENDIX No. 11
AIR MONITORING PROGRAMME
(MICRO-METEOROLOGICAL DATA)

Serial Station No.	Code	Meteorological Station	No. of observations in year 1881-82				Remarks	
			Wind Gate	Rain Fall Data		Ambinet Airtemp Data		
				S.R. Rain gauge	F.R.P. Rain gauge			
1	R-2	Babula Tank	..	1550	..	..	(1) Wind data includes speed and direction.	
2	R-4	Dadar	..	1726	..	..	(2) S.R. Rain gauge q uto-matic operation.	
3	R-5	Chembur Naka (Shakar Nagar).	*1350	..	*	*1389	(3) F.R.P. rain gauge man manual operation.	
4	R-7	Ghatkopar Pant Nagar	1310	..	8	1339	* () This data is collected at a separate weather station located near Chembur Naka.	
5	R-8	Mulund	..	..	..	29	1374	(5) Ambient air Temp recorded includes maximum, minimum, Dry Bulb and Wet Bulb Temp.
6	R-9	Borivli	..	1291	..	11	1410	(6) Rain water is collected in specially designed glass bottles at the monitoring sites. Total 100 samples were analyse for Ph. Sulphate, Mitraites and Chloride. This as a part of the Precipitation studies.
7	B-1	Mahul	..	412	..	..	..
8	B-2	Mankhurd	..	1371	..	..	..
9	H-4	Santacruz (West)	..	453	..	7	875	
10	H-5	Parel	..	1300	..	..	..
11	F-2	Sion-Koliwada	..	1369	..	..	..
12		Worli (Laboratory site)	..	..	..	..	638	
Grand Total			..	12132	..	66	7023	

ANNEXURE—12
(CIVIL DEFENCE CELL—VIGILANCE WORK)
YEAR—1981-82

1	Inspection of works	..	124 Nos.
2	Total cost of works inspected	..	98 Lakhs
3	Technical audit of proposals.		
	(a) Internal proposals	..	193 Nos.
	(b) Inter-departmental proposals.	..	21 "
	(c) Staff proposals	..	7 "
	(d) Internal & inter-Departmental Enquiries.	..	5 "
	Total	..	226 "
4.	Liasion work.		
	(a) Union Matters.	..	2 "
	(b) Registration of contractors.	..	2 "
	(c) Tender Committees meetings Internal	..	30 "
	(d) Inter-departmental	..	8 "
	Total	..	42 "
5.	Project Monitoring & MBO Programme.		
	(a) Scrutiny of reports.	..	108 "
	(b) Contractors appraisal reports.	..	3 "
	(c) Miscellaneous proposals & their follow up.	..	93 "
	Total	..	204 "

The amount received by way of premium etc., during the year was Rs. 10,24,884.34.

As can be seen in the Statement 'J' vide Item No. 8 that percentage of 56.09 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. 91,06,542.00 pertaining to 'B' Budget and of Rs. 2,31,218.00 pertaining to 'A' Budget shown in statement 'D' can be classified as under :—

Ground rent	Rs.
1) With held by lessees to the extent of their Security deposit.	1,46,749
2) Of plots occupied by Government of Maharashtra and Defence Department.	6,95,301
3) Off properties vested in the Deputy Custodian of Evacuee Property. ..	2,253
4) Of Plots against which disputes have been raised and cases are under consideration.	13,24,891
5) Due from Western and Central Railways.	81,829
6) Due from Municipal Departments.	1,09,405

(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 were 2783 and 1766 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. 8,06,348 and Rs. 2,27,811 and the recovery was Rs. 13,48,111 and Rs. 10,03,024 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. 52,20,500 on 31st March 1981 as against Rs. 47,09,179.

The concessional rent includes the rents of rooms let out to the peons of the different departments in lieu of house rent allowance and rent free quarters allotted to 193 sweepers of this department.

The Collection on account of rent from the permanent chawls during the year amount to Rs. 46,58,085 deducting therefrom the charges on account of outgoing amounting to Rs. 1,792,945 net loss comes to Rs. 1,32,71,365.

The capital expenditure incurred on the chawls including the value of the land is Rs. 246 lakhs. The Corporation have to pay interest and sinking fund charges at the rate of 4.61 per cent. per annum on the capital expenditure prior to 1919-20 and 6.35 per cent. per annum on the capital expenditure incurred in subsequent years and 4.24 per cent. in respect of those constructed after 1950. This amounts to 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. 38,57,987.

(b) *Semi permanent Sheds* : The gross demand in respect of 7,237 rooms in the Semi Permanent Sheds including Labour Camps for the year was Rs. 20,52,119. The net demand after excluding the concessional rent and vacancies was Rs. 20,52,992. The revenue actually collected comes to Rs. 25,83,300 which was equivalent to 125.83 per cent. of the total recoverable rent including arrears of Rs. 35,48,626 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. 48,27,808 for chawls and Rs. 22,74,329 for semi-permanent sheds, total outgoing being 86.74 per cent. and 101.74 per cent. respectively.

Amounts transferred to Rent Equalisation Fund and Amenity Fund were Rs. 1,78,178 and Rs. 59,591 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. 37,48,300 against the demand of Rs. 87,18,982 inclusive of arrears.

Acquired properties: At the commencement of the year there were 433 acquired or surrendered buildings in charge of this department containing 6037 tenancies. At the close of the year, corresponding figures were 449 Buildings and 6479 Tenement.

The gross demand of 6479 tenements in the acquired and re-entered buildings was Rs. 19,63,101. After excluding the amount for concession in rent and vacancies the net demand for the year was Rs. 19,62,314.

The revenue collected amounted to Rs. 21,07,663 which was equal to 54.84 per cent. of the total recoverable amount including arrears of Rs. 38,43,110 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. 1,77,732 and the recovery was Rs. 75,392 which was equal to 42.42 per cent. of the total recoverable amount.

During the year under review, the demand and recovery of taxes aggregated to Rs. 42,924 and Rs. 10,603 respectively. The arrears due for collection at the close of the year stood at Rs. 4,23,776.

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'.

N. R. JANORKAR,
Ward Officer (Estates). I/C.

"A" Statement showing the total area of Developed Land.

Change in		As at the beginning of 1980-81	As at the end of 1981-82
Developed Land		Sq. Meters in thousands.	Sq. Meters in thousands.
Area of Trust Chawls leased	...	6441.60	6441.60
Area of trust chawls sites	...	158.86	158.86
Area sold	...	7.53	7.53
Area reserved for a Municipal Market	...	0.97	0.97
	Total	6608.96	6608.96
Rent of permanently leased area in rupees (in thousands)		13,711.45	13,711.45

"B" Statement of permissions granted in respect of leased plots for 1981-82.

Description	No. of proposals	Premium	Ground rent
		Rs.	Rs.
Motor Garages	19	...	10,280.00
Additional floors	--	--	--
Change of users and Misc. proposals such as encroachments, Basement floors, Canopies, temporary structures, Gallery Projections, Rewas Projections, Otha Projections, Lifts and Mezzanine floors etc.	22	371.50	11,140.00
Fines	...	...	...
Transfer fees	...	...	12,000.00

Statement 'C' showing the disposal of Municipal Ex-Trust Plots during the year 1981-82.

Land/Estate	Plot No. & C.S. No.	Area in Sq. Mts.	Capital	Annual
			value	Ground Rent,
			Rs.	Rs.
Municipal				
(1) Goregaon Industrial Estate	9(3)	250.84	87,694.00	17,559.00
(2) Goregaon Industrial Estate	9(1)	836.13	60,000.00	6,000.00
(3) Plot bearing C. T S. No. 28	...	3,344.52	3,84,620.00	38,462.00
(4) Borla Govandi	12	1,192.00	57,025.00	5,703.00
Total	4	5,623.49	5,89,339.00	67,724.00
Ex-Trust				
(1) Lease-hold land bearing C.S. No. 181 (part) of Dharavi Division (Mukund Nagar)	C.S.No. 181 (Part)	1640.00 Sq. Mt.	2,95,200.00	29,520.00
(2) Subhash Nagar Colony Co-op. Housing Society. Limited.	C.S. No. 40 (Part)	780.63 59 mts.	1,40,513.40	14,051.34
Total	2	2,420.63	4,35,713.40	43,571.34
Total (Munpl + Ex-Trust)	6	8044.12	10,25,052.40	1,11,295.34

"D" Summary of Revenue of Properties for the year 1981-82.

(000 omitted)

Particulars	Properties under 'B' Budget			Property of 'B' Budget under			Properties under 'A' Budget		
	Per- ment	Tempo- rary	Total	Slum Clearance.			Per- manent	Tempo- rary	Total
				City	Suburbs	Total			
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Demand for the years.	64,34	104,69	169,03	27,74	14,39	42,13	469	76,40	81,09
Arrears, as on 1-4-81	84,93	118,10	203,03	24,65	19,49	44,14	151	63,25	64,76
Totals	149,27	222,79	372,06	52,39	33,88	86,27	620	139,65	145,85
Amount collected.	59,82	104,77	164,59	25,21	12,26	37,47	402	65,29	69,31
Variation in Demand for the previous year.	+ 161	+ 786	+ 947	+ 104	+ 9	+ 113	+ 12	+ 771	+ 783
Carried out during the year.	..	- 13,06	- 13,06	- 23	..	- 23	..	- 869	- 869
Amount written off	...	684	684	..	..	..	..	..	..
Arrears as on 1-4-82	91,06	112,82	203,88	27,59	21,70	49,69	231	73,39	75,70
Arrears as on 1-4-81	84,93	118,10	203,03	24,65	19,49	44,14	151	60,69	62,20
Arrears as on 1-4-80	68,75	108,04	176,80	22,31	15,49	37,80	95	47,26	48,21

"E" Statement of tenements constructed for Slum clearance Scheme (City and Suburbs)

Serial No.	Locality.	Yard of Construction	No. of structures	Number of Tenements		Subsidised rents Charged	Standardised Rent	
				Residential	Shops Godowns		Rs. P.	Rs. P.
Municipal Scheme :-					3			
1	Palton Road Chawl No. 4	1956	1	8	20	34.30	50.43	
2	Haines Road Transit Camp.	1957	19	137 +9	...	26.98	105.85	32.05
3	Tank Palkhadi Transit Camp	1958	27	254	...	26.98	40.08	
4	Dharavi	1959	5	120	...	31.95	...	...
5	Shopping Block at Haines Road	1960	1	...	4	...	22.69	63.20
6	Do. Do. Milk Street	1962	1	...	17	16.48	73.64	92.05
7	Shopping Block at Tulsiwadi Body-Guard line	1963	1	...	15	32.27	31.92	
8	Shopping Blocks at Water St.	1963	1	112	10	...	Varying from 35.15 to 43.94	
Government Aided Schemes								
1	Haines Road	1959	7	112	...	32.05	62.52	
2	Haines Road	1959	5	80	...	32.05		
3	Sukhalaji Street	1960	1	76	...	42.29		
4	Sion Scheme 6	1960	1	40	...	31.50		
5	Body ward Lines	1960	6	96	...	31.49	52.23	51.32
6	Dharavi	1961	5	168	...	31.50		
7	Foras Road	1961	1	42	13	31.49		
8	Rawli Camp	1961	18	288	...	31.50	80.55	
9	Bane Compound Arthur Road	1961	6	208	...	31.49	57.03	
10	Water Street, Byculla	1961	7	112	...	34.26		
		1962	2	32	...	32.05		
11	Haines Road	1961	2	80	...	32.05		
12	Sion Scheme 6	1962	2	80	...	31.50		
13	Body Guard Lines	1962	8	128	...	32.48		
14	Papty Road	1963	1	40	...	34.24	75.40	
15	Haines Road	1963	6	96	...	34.26	70.85	
16	Rawli Camp	1964	14	224	...	33.64		
					11	73.16	135.40	
17	Sion Village Blk E	1964	1	24	...	34.07	69.66	
18	Kamathipura C Blk Bapty Rd.	1964	1	22	...	34.24	26.98	66.67
19	Do. Bapty Rd. 'A' Block	1964	1	26	11	28.81	87.25	87.25
						34.21	89.91	89.91
20	Kamathpura MI Area stable street	1965	1	41	11	34.26	96.28	96.28
21	60 t. Falkland Road	1966	1	60	...	41.61	25.98	194.81
	8th X Lane	1966	3	60	...	42.38	69.45	73.49
22	60 t. Hains Road	1967	6	240	...	42.68	61.00	61.00
23	Rawli Camp	1969	5	132	8	42.68	61.00	61.00
24	Rawli Camp	1969	1	32	10	42.68	61.00	147.00
25	Rawli Camp near Koliwada level crossing Opp. S. S. S. Nagar	1970	1	45	12	56.44	145.00	75.00
							149.00	149.00
26	Kamathipura M.I. area stable street	1970	1	45	12	56.44	145.00	75.00
27	30 Tenements Peru chawl Lalbaug Gas Work Lane	1970	1	30	...	39.39	77.82	77.82
28	60 t. Rawli Camp	1971	3	60	...	40.77	81.70	81.70
29	Rawli camp BKE 3 & A. 7	1972	2	44	...	...	100.06	100.06
30	230 T and 20 shops Rowli Camp.	1973	...	230	...	...	105.00	252.00
31	Vikroli	1961	16	396	...	31.51	52.00	57.00
32	Do.	1963	12	348	...	31.51	57.00	55.50
33	Kherwadi Bandra	1964	17	217	...	34.55	55.50	64.12
34	Tenements along Eastern Express Highway Ghatkopar	1965	108	1004	...	...	...	...
35	60 t. at Bombay Agra Road	1966	3	60	...	...	...	...
36	320 t. at Santacruz Ghatkopar	1966	20	320	...	34.55	64.12	64.12
37	200 t. at Match Factory Kurla...	1973	10	200	...	...	...	...
38	40 t. at Sion Village	1974	...	40	...	55.00	117.00	117.00
39	Rawli Camp	1972	...	108	12	39.92	170.73	170.73
40	20 Tenements at Peru Chawl	1976	...	20	...	...	...	...

" F " Statement of percentages of outgoings in respect of Chawls and S. P. Sheds.

Particulars	Permanent Chawls		Permanent ground floors rooms	
	1980-81	1981-82	1980-81	1981-82
Sanitary Staff and Pumpmen ...	33.49	10.41	33.89	39.53
Cost of Management and Establishment ...	7.50	7.50	7.50	7.50
Municipal Rates and Taxes ...	53.28	18.27	52.72	45.07
Repairs and Maintenance including lighting, vacancies. ...	91.75	50.56	27.60	9.64
Total ...	186.02	86.74	121.71	101.74

'G' STATEMENT

Particulars of Municipal (Improvements) Chawls cost-

"O" Statement showing Particulars of Municipal (Improvements) Chawls Cost. Net Annual Returns

Serial No.	Name of the Chawl	Year in which the site of chawls appropriated of construction of Chawls	Total area of chawls sq. Metres	Rate per sq. yd. as in the year given in column 3	Value of the site Cols. 4 & 5	Constructional cost of the Chawls including 1/2 per cent. or management and establishment	Cost of work of the land management and establishment columns 6 and 7	Interest and Sinking Fund charges on capital outlay at 461 per cent. on column 8 upto 1919 and there after at 635 per cent.
1	2	3	4	5	6	7	8	9
			Sq. Metre	Rs.	Rs.	Rs.	Rs.	Rs.
1	1-4 Agripada A Chawls	1900	6091.21	8	50,995	1,85,505	2,36,500	10,903
2	5-16 Agripada B Chawls	1903	9970.85	6	71,550	5,41,639	6,13,189	28,269
3	31-32 } Agripada C Chawl	1903	5226.65	6	37,506	2,79,182	3,16,688	14,599
4	45-46 } Agripada C Chawl	1903	5226.65	6	37,506	2,79,182	3,16,688	14,599
4	19-24 Chaitanwadi Chawls	1904	8080.36	16	1,44,960	3,76,915	5,21,875	24,059
5	26-27 Imamwada A Chawls	1905	11239.26	13.8	1,81,467	4,98,562	6,80,029	37,349
	29 30 & 31 } Imamwada B Chawl	1905	793.49	13.8	12,811	19,368	32,179	1,483
7	33-37 Mandvi-Koliwada Chawls	1908	3485.83	75	3,12,675	2,76,040	5,88,715	27,140
	52 Workmens Cottages, Matunga	1905	789.31	5	4,720	12,083	16,803	774
9	17-18, Nagpada C Chawls	1903	2148.02	7	17,983	82,358	1,00,341	4,676
10	39, Nagpada A Chawl	1904	1755.04	7	14,693	99,776	1,14,469	5,277
11	28, Princess Street Chawls	1907	1237.47	30	44,400	42,417	86,812	4,002
12	42-44 } Suparibaug Chawls	1910	6756.77	48	36,364	3,39,878	3,76,242	17,345
	47-49 } Suparibaug Chawls	1910	6756.77	48	36,364	3,39,878	3,76,242	17,345
13	52-57, Chinch Bunder Chawls	1913	7103.76	26.66(d)	2,26,560(a)	6,79,622	6,06,182	27,945
14	86-95 Cottage Blocks (Old)	1920	2324.44	10	27,800	36,069	63,869	4,056
15	58-61, Clerk Road Chawls	1921	3495.86	15	62,715	4,39,814	5,02,529	51,911
16	62 Paise Street Chawls	1921	2858.73	15	51,285	1,70,863	2,22,145	14,106
17	63-66, Mominpura Chawl (Old)	1921	6488.37	15	1,16,400	4,31,655	5,48,055	34,801
18	67-72, Three room tenements Scheme 5	1922	4689.85	6	33,654	2,64,717	2,98,371	18,946
19	73-78 Two room tenements, Scheme 6	1922	3540.17	6	25,404	2,91,972	3,17,376	20,153
20	79-85 Cottage Blocks (New)	1922	6528.50	6	46,848	69,312	11,660	7,376
21	Blocks 1-19 Bellasis Road Chawls	1922	29853.19	19	6,78,376	25,75,065	32,52,441	2,66,594
22	1-16 Mazgaon Chawls	1922	24315.50	10	2,90,810	21,77,079	24,67,889	1,56,711
23	1 Mominpura Chawls (New)	1923	3270.10	20	78,220	3,14,276	3,92,496	24,923
24	1-23, Love Lane Chawls	1925	11176.50	188	2,47,289	11,36,407	13,83,696	87,865
25	1-10 Sydenham Road Chawls	1925	10698.28	16	2,04,720	7,78,071	9,82,791	62,407
26	1-2 Paltan Road Chawls	1946	2721.60	25	85,373	2,32,503	3,13,878	19,93
27	2 Paltan Road Chawls	1952	9551.85	50	92,777	3,48,544	4,41,321	28,024
28	A-J Sewri Chawls	1956	5554.41	25	1,66,075	5,06,514	6,72,589	28,120
29	Naigaon Chawls	1957	3362.08	4	1,60,840	5,59,481	7,20,321	29,110
30	Sion Chawl	1958	927.27	4	44,360	1,40,842	1,85,202	7,997
31	Wadala Chawls 112 Tenements	1959	2397.19	40	1,36,640	6,27,259	7,65,899	32,474
32	Wadala Chawls 272	1960	10068.68	40	4,81,680	15,55,841	20,37,521	86,391
33	Wadala Chawls 144	1961	6765.13		4,04,550	8,2,806	12,97,356	55,008
34	Wadala Chawls 160	1961	6212.45	50	3,71,600	10,13,999	13,86,499	58,745
35	Wadala Chawls 224	1961	7836.21	50	4,68,600	14,87,658	19,56,258	82,945
36	60 T. Morbag	1963						
37	Tenements at 144 S.G. Marg	1968						
38	Jasmiene Mills Rajeshtri Shahu Nagar	1967						
39	10 Steps 40 R. Sion Koliwada							
40	Deonar New Colony	1967						
41	36 T. Worli	1969						
42	144 Tenements at Deonar	1975						
43	252 Tenements at Deonar	1975						
44	105, Tenements and 13 shops on Plot No. 107, Worli	1976						
45	40 Tenements at Chowney Gully	1976						
46	28 Tenements at Abdul far Khan Road	170						
47	130 Tenements at Worli for Municipal Staff & Councillors	1971						
48	240 Tenements at Haji Ali	1975						
Total ..			2,65,288		54,30,602	91,81,087	52,46,14,689	12,96,41

(a) Rs. 8-0-0 for 8 larger rooms (double) rooms having partition inside.
 (b) Represents loans.
 (c) The figure represents the value of Rs. 40 per sq. ft. of the site situated between the 25 road and the Railway and measuring 5,666 sq. yds. figure is arrived at by dividing By 8.496 yds. Calculated at 4.24 percent.

A—Includes rooms ren. free nil Sweepers.
 B—Rooms used for Office and Stores.
 C—do. temporarily occupied by Schools.
 E—do. do. do. Shops.
 F—do. do. do. Gymnasium.
 G—do. do. do. Godowns.

Number of tenements, full letting value.

Gross annual rent.	Annual profit + or loss— i.e. 86.02 per cent. of column 10-9.	Percentage of rate annual return* of 86.02 col. (10) of capital cost (col. 8)	Total Number or rooms	Number of floors including ground floor.	Floor area of tenements including Verandah.	Rent per room as on 31-3-1962 inclusive of increase in taxes.	Economic rent Ex-clusive of increase in taxes.	Number of rooms living purposes.	Number of rooms let of Shops, Godowns, or Municipal purposes.
(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
Rs.	Rs.				Sq. ft.	Rs. P.			
47,764	4,566	2.68	312	3	175	7.49	8 14 0	276	1—B, 5—D & 50—E.
66,734	19,420	1.45	658	4	1107	10.40	7 10 0	926	20—E
1,20,722	1,408	5.05	258	4	142	7.75	8 1 0	414	18—E, 1—F
4,07,453	9,810	2.73	433	4	177	7.49	8 12 0	633	2—D, 9—E
			857	4	125	9.36	10 6 0	846	2—B, 4—C & 5—D
1,26,723	22,028	2.35	30	4	135	8.95	9-13, 10-1 10-5	30	..
1,13,386	12,105	2.55	278	4	160	11.93	Rs. 9-13 10-1, 10-5	222	308-B-26-G
2,083	498	1.64	15	1	176	8.31	9.96	..	..
20,204	1,997	2.65	144	4	120	8.31	9.96	144	..
21,813	2,385	2.53	144	4	148	10.83	12 7 0	144	..
10,443	2,617	1.62	64	4	160	12.98	9 10 0	64	..
65,736	8,628	2.32	481	4	176	9.36	9 0 0	479	1—B, 1—F, 33—C
1,00,350	14,639	2.20	405	2	176	11.24	10.09	372	..
5,382	3,342	1.12	14	1	275	8.36	13 6 0	..	..
55,440	4,560	1.46	325	4	176	24.81	28.80	320	4—E, 1—F, 3—E
23,898	10,937	1.43	134	4	175	9.62	13 12 0	131	6—D
48,346	28,390	1.17	246	4	175	10.66	15 13 0	241	..
			(b) 160			12.82	9.36	..	..
28,864	15,119	1.28	26	4	562	11.24	13 8 0	..	..
9,717	18,864	0.41	72	3	338	46.34	Rs. 55.60 & 65	..	..
4,698	6,753	5.34	10	3	325	22.81	29.47	..	..
2,74,566	2,30,187	1.12	1,549	3	176	30.83	Rs. 35,33,32	..	..
2,09,478	1,28,935	1.12	1,385	3	176	10.00	35	..	..
82,110	14,035	2.77	234	3	3	12.83	Rs. 16-5 18-6, 17-14	1,513	20-C7-D & 9 E.
1,53,598	67,498	1.47	..	..	176	9.36	Rs. 15-6, 15-14	1,263	36-C, 4-D, 5 2-E, 7—E, 6-D, 22-E, & 1—F.
						11.24	13 8 0	227	..
						9.46	Rs. 15.9, 16-1, 16-9, 17-1, 17-9.	792	..
						10.69	Rs. 15-7.	387	1—B, 1—C, 1—D, & 1—
						12.38	32,33,35	125	24—E, —7G, 4—E, 6-G
						26.74	R. 15-7	76	..
						10.38	Rs. 16, 16-8	194	..
						11.09	Rs. 35	120	..
						26.03	Rs. 35	24	..
						27.06	Rs. 36-10	..	..
						22.91	Rs. 4	..	..
						24.20	..	..	..
						21.86	..	..	..
						29.43	..	..	..
						50.33	..	..	..
						31.50	..	..	..
						47.00	..	..	..
						64.00	..	..	..
						66.50	..	..	..
						67.50	..	..	..
						07.00	..	..	..
			60					60	..
			150					..	..
			1040					..	..
			50	..	..	..	..	40	40 10E
			582	..	..	..	..	578	3B, 1C
		
25,87,893	—26,24,047	18.949	13,484	..	..	..	..	..	..

* 5—B, 61—C 35—D, 180—E, 4—F 72—G.

REMARKS

1 Bldg. on ownership "D" type

A Type 3 bldgs.

B Type 2 bldgs.

C Type 3 bldgs.

Ownership
1 Ownership
for staff.

2 Bldgs. Ownership

2 Bldgs. Nair Hospital

1 Hostel

1 for Staff

"H" Statement of Tenements constructed from Budget 'A' for Municipal General Staff :-

Serial No.	Locality	Year of construction	No. of structures	No. of tenements	Subsidised Rent		Standard Rent	
					Maximum	Minimum		
					Rs.	Rs.	Rs.	
					(Subsidised rent at Rs. 12 per 100 Sq. ft.)			
1	Gilder Lane Tenements,	1958	4	144 (64)*	62.52 39.85		103.30 71.93	
2	Elphinstone Road	...	1958	3	72	28.33	20.69	45.89
3	Surya Cinema Tenements Naigaum	1958	2	48	28.33	20.69	45.15	
4	Chinchpokli Tenements Arthur Road.	1959	2	32	34.21 33.05 37.28 35.05	29.41	59.39	
5	Maratha Hospital Compound, Byculla.	1959	4	64	38.17 40.17		57.67	
6	Worli Tenements Dr. Annie Beasant Road.	1961	7	112	36.91 36.25 37.08 37.77	29.41	71.82 75.69 77.44	
7	40 tenements Maratha Hospital Compound.	1965	2	40	36.11 35.65 37.12 38.08	...	79.88 78.84 82.12 84.20	
8	Maratha Hospital Compound, Eyculla.	1962	2	16 8@	45.22 41.81 74.75	...	77.19 77.16 125.04	
9	88 tenements near Wadala Railway Station.	1966	3	88 22	...	24.57	61.35 (for Rooms) 146.41 (for Shops)	
SUBURBS								
1	Khar Tenements Hasnabad Lane	1961	5	60	44.02	40.63	76.22	
2	18 tenements at Khar	...	1968	...	18	89.47	43.13	..
3	Tata Compound Andheri	...	1970	3	80	93.00

* Three room tenements. Rest are two rooms tenements. @ Four room tenements.

'J'—Comparative statement of demand, collection, etc. in respect of permanently leased plots

Particulars.	1979	1980	1981	1982
(1) Number of Tenancies	4393	43.93	4398	4404
(2) Balance of arrears in lacs of rupees....	66.14	69.70	80.86	88.19
(3) Demand for the year in lacs of rupees....	80.87	63.56	69.19	69.03
(4) Total demand including arrears in lacs of rupees.	147.01	129.36	147.06	157.23
(5) Amount collected in lacs of rupees.	47.95	59.65	60.61	63.85
(6) Percentage of collection to the demand including arrears.	32.62	46.11	41.21	40.61
(7) Percentage of collection to the demand for the year.	59.29	93.85	87.60	92.50
(8) Percentage of arrears to amount for collection.	44.99	53.88	54.98	56.09

BOMBAY FIRE BRIGADE

Salient Features :

Expenditure : Rs. 2,06,20,352/-

Income : Rs. 2,33,71,398/-

Fire Stations : 19

Emergency Calls :

Fire : 3049	House Collapse : 475	Rescue : 588
Other Service : 957	False : 76	

Ambulance Calls :

Accidents : 351	Maternity : 31	Fire Brigade Staff : Nil
Hire : 233	Free Poor Cases : Nil	

Premises inspected for rendering advice on Fire Precautionary measure—9556.

New equipment purchased :

Breathing Apparatus Van	..	1 No.,
Fire Engine (Escape)	..	4 Nos.,
Fire Engine (Extension)	..	7 Nos.
Fire Engine (Escape Angus 464)	..	5 Nos.
Ambassador Car	..	1 No.

Shri L. S. D. Mehervanjee was In-charge of the Fire Brigade Department during the year under report.

The highlights of the administrative events for the reporting year are as under —

(1) Income-Expenditure :

The annual receipt by way of taxes comes to the tune of Rs. 2,33,71,398 and the amount of expenditure comes to Rs. 2,06,20,352

(2) Premises :

(a) Fire Stations :

The total number of Fire Station in Greater Bombay remains 19 only.

Detailed drawing for Phase III and Phase IV for the remodelling of Fire Brigade Headquarters at Byculla (incorporating Workshop, Administrative Unit, Control Room, Auditorium, Staff-Quarters etc.) are ready and tenders will be invited very soon.

Construction of Maro Fire Station and Suburban Headquarters is in progress. Construction of Malad Fire Station is also in progress. Remodelling of Memonwada Fire Station is also just taken in hand.

(b) *Control Room* : Corporation has accorded approval to implement the project report for Control Room and Communication set up-prepared by Messrs, Tata Consulting Engineering costing nearly Rs, 7½ Crores. Messrs. Telecommunication Consultants of India Ltd., A government of India undertaking have been appointed as Consultants for implementation of the project. The same will be completed in phases.

(3) Communications :

(a) Fire Alarms :

The total number of Fire Alarms were 218. Number of Fire Alarms in the City were out of order due to non-availability of spare parts.

(b) Telephones :

Eight Hot lines for emergency calls (101-4 lines and 395991-4 Nos.) two for ambulance 102 and 3 other lines (376111) were in operation during the year.

(c) Wireless Communications System :

Besides having Telephone lines as above, the Brigade has been supplemented with 18 static Wireless sets, 31 Mobile sets, add 9 Walkie Talkie sets.

(4) Appliances and Equipment :

The Brigade has purchased most sophisticated Angus 464 Ladder from a firm in U. K. The ladders are very light in weight and easy to operate. The Brigade has also purchased tanker type Fire Engines having water capacity of 1000 gallons. The Brigade has also planned to purchase more fire engines of similar types and certain sophisticated appliances like DL-37, Snorkels have been ordered, 11 Ambulance have been ordered and likely to be commissioned by early next year.

The Brigade continued to render fire fighting and rescue operations with snorkels, motor pumps with escape and extension ladders, Turn Table Ladderst motor emergency tenders, Breathing Apparatus Van etc. The details of appliances and equipment are furnished in Appendix I.

(5) Emergency Calls :

The emergency calls during the year under report were as follows :
 Fire : 3049 House collapse : 475 Rescue Service : 588
 Other service : 957 False : 76

(a) Fires :

There were 57 serious fires during the year (vide Appendix II).

Burning Casualties :

There were 357 casualties due to fire out of which 95 lost their lives 262 persons received burns and subsequently recovered Out of the total The casualties also include 58 cases were of suicide. Most of these fires were domestic.

Casualties amongst Brigade Personnel :

Three personnel of the Brigade were killed at serious fire at Donlad street on 21st June 1981. The fire occurred on 20th June 1981 and the deceased personnel were engage in cooling down operation on 21st June 1981. The Brigade Personnel were.

Shri B. P. Chavan, Station Officer, Shri Sawlaram Dnyandeo Rane, Fireman, Shri Suresh Angulya Varatka, Fireman of Vikhroli Fire Station were killed on the spot when a portion of the fire affected building crashed on them.

The three Brigade Personnel were creamated with full Brigade Honour.

Fire loss :

The total loss due to fire was approximately Rs. 5,91,71,628. Out of this, damage to insured property was Rs. 5,02,68,250. The total property involved was worth Rs. 1,23,34,40,341.

(b) House collapse :

37 persons lost their lives and 160 persons were injured in House Collapse. Some serious House Collapse are mentioned in Appendix III.

(c) Other Service -

There were 957 calls of other services which include leakage of poisonous gases and noxious fumes, spilling of acids, falling of trees, shock due to electricity, vehicle accident etc.

158 persons lost their lives in such accidents and 184 persons received injuries.

(d) Rescue Service :

The Brigade attended 588 calls of vaiours types of rescue work such as persons fallen in wells, drowned in sea, trapped in lift, sewers, etc. In all 181 persons died in Rescue Service and 270 persons were injured. Majority of deaths (141) were by drowning. The Brigade also rescued 209 animals and birds.

(6) Water Supply and Sources :

The approximate quantity of water used for extinguishing fires was about 93 lakhs, 82 thousand 922 litres out of which 91 lakhs, 79 thousand 234 litres were drawn from municipal mains and rest from sea, wells ponds etc.

The total number of hydrants in City and Suburbs is 11,281.

Number of other sources available for water supply have been listed in appendix V.

(7) Ambulance Services :

The ambulance service continued to attend hire calls, maternity calls, in addition to fire house collapse calls etc. The details are as follows :

Accident : 351	Maternity : 31
Hire : 233	Free poor cases : Nil.
Fire Brigade Staff : Nil.	

In all 256 persons were removed in Amublances First aid rendered on 182 occasions. The Total receipts during the year on account of hire cases amounts to Rs. 4,201.

(8) Fire Prevention Cases :

Year	Total cases received	Disposal of
1980-81	10251	9083
1981-82	10046	9556

The cases received in the year 1980-81 :

Type of cases	No. of cases.
Licence, Factory and Health Department of Municipal Corporation	7680
Public Entertainments and Buildings	902
Commissioner of Police, Inspector of Explosives and Controller of Drugs	326
Complaints	816
Multi-storeyed buildings	322

(9) Deputation of Fire Officer :

During the year under report Shri A. D. Jhandwal, Station Officer was deputed to National Fire Service College, Nagpur, for undergoing training of Divisional Officers Course.

Shri V. B. Nikam, Dy. Chief Fire Officer, and Shri D. J. Kulkarni, Div. Officer have been appointed as visiting faculty for various courses at National Fire Service College and also External Examiners for B. E. (Civil Engineering) Course at Nagpur University.

(10) Other Activities :

(a) Silver Jubilee celebration at National Fire Service College, Nagpur.

Professional Fire Drills in (i) Fire trailer pump drill (ii) Extension ladder with Rescue (iii) Tactical medley drill organised at National level by National Fire Service College.

Two teams of Bombay Fire Brigade participated in three events and won First prizes in Fire Pump Drill and tactical Medley Relay and also won the shield for over all best performance.

(b) Annual Drill competitions : The Annual Drill competition were conducted as usual. During the year, competitions were held, (1) Trailer pump and extension ladder. Teams from different fire stations participated in each competition.

Shri D. M. Sukthankar, Municipal Commissioner presided over the function, Chembur Team led by Station Officer A. R. Yadav secured 1st place in Fire Trailer pump and Extension ladder drill competitions.

The Chief Officers Rotating Trophy for Best performance in Drill Competition was awarded along with prize of Rs. 100 to Shri Rajaram Vasudho Shingre, Driver Operator, from Chembur Fire Station.

(c) Sports : The annual tournaments in various games were conducted and the sports meet was held during the year under report. All Fire Stations showed great enthusiasm by sending teams and competitors. The function was presided over by Deputy Municipal Commissioner Shri S. V. Ghambhir and prizes were also distributed by him.

(d) Observance of Fire Services week : The Bombay Fire Brigade in Co-ordination with other Fire Services of the City observed the fire service week from 8th April to 13th April 1981 and Fire Service Day on 14th April 1981.

A number of Fire fighting demonstrations were arranged to make the public fire conscious in various parts of the City...

A Press Conference was held in M. C. s office and the Press highlighted for the events.

Radio and Doordarshan programme were arranged. Films were shown, special wall posters and folders and stickers were distributed in schools and various establishments. Special Cinema slides were prepared. Lectures were arranged.

Officers of the Brigade visited several industries of the City and delivered lectures on fire prevention. The Brigade personnel joined hands with other organisations to raise funds for the welfare of the Fire Services personnel by selling flags to the Public on Fire Service Day. The solemn function of the week was the Prayer Meeting at Fire Brigade Headquarters to pay homage to the gallant Fire Officers and men who laid down their lives while fighting the fire in disastrous Dock Explosion of 1944. Shri D. M. Sukthankar, Municipal Commissioner presided over the occasion.

(e) Republic Day : The contingent of this department consisting of Officers and men and the Band Unit participated in the Republic Day Police Parade alongwith the Defence and other services and Organisation.

A guard of honour was presented to Mayor of Bombay by Fire Brigade staff at the Flag Hoisting ceremony at Municipal Head Office.

(11) Awards :

(a) The Lions Club of Walkeshwar, Bombay has offered the following awards to the personnel of this department.

(i) Annual Rotating Trophy and Cash Prize of Rs. 251 to the Best Fire Brigadier of this year 1981—Shri M. G. Sirkhot, Assistant Divisional Officer.

(ii) A cash prize of Rs. 151 to the Second Best Fire Brigadier of the year 1981—Shri Ramhari Sonaba Bobade Driver Operator.

(iii) Cash Prize of Rs. 101 to the 3rd Best Fire Brigadier of the year 1981—Shri G. S. Thakur, Leading Fireman (Fitter).

(b) Best Fireman Award of Rs. 100 to Driver Operator Shri Babu Shankar Gaikwad.

(c) Good conduct and long service medals to :—

(i) F/M Atmaram Babaji More (Retired)

(ii) F/M Pandu Laxman Mhamunkar.

(iii) F/M Mahadeo Bhiwaji Pawar.

(d) Award of Scholarship to children of Brigade Employees. As in the previous year scholarships ranging from Rs. 15 to 75 were awarded to 54 school going children of the Brigade employees who passed the Annual Examination with credit, from Std. IV to XII.

(12) Fire fighting training to outside candidates :—

(a) Practical training in fire fighting and rescue operations were imparted to the Home Guards of Greater Bombay.

(b) Officers of Bombay Fire Brigade gave a number of lectures on fire fighting to the security guards of the Corporation.

(c) Training wing has undertaken the training programme during the year and has trained personnel from various industries.

(d) Practical Attachment to the students of B. E. (Fire Engineering) Course and Sub-Officers Course of National Fire Service College, Nagpur by the training section of this Brigade.

APPENDIX ' I '

Sr. No.	Fire Appliances and Equipment	Nos.
(1)	Motor Turn Table Ladder :	
	(a) of 100 ft. Extension with Pump	2
	(b) of 125 ft. Extension with Pump.	4
(2)	Hydraulic Platform—SS 300 Simon Snorkel	2
(3)	Motor Pumps :	
	(a) with Escape of 50 to 60 ft. extension	13
	(b) with extension ladder of 35 ft. extension	39
	.. .. .	5
(4)	Fire Tender with Extension ladder	2
(5)	Motor Emergency Tender with Special Gears	1
(6)	Motor Emergency Tender-cum-Fire Tender	2
(7)	Rescue Tender - Model RW2	1
(8)	Trailer Pumps :	
	(a) Medium type	18
	(b) Light type	2
(9)	Water Tankers	16
(10)	Hose Laying Lorry-cum-Canteen Van	1
(11)	Control Post Van	1
(12)	Motor Ambulances	13
(13)	Other vehicles—	
	(a) Delivery Van	3
	(b) Jeeps	22
	(c) Cars/Station Wagons	4
(14)	Scooters	3
(15)	Ladders of various sizes	91
(16)	Breathing Sets—	
	(a) Oxygen	36
	(b) Compressed Air	110
	(c) Breathing Air Compressor	1
(17)	Hose Delivery R.R.L. 2 3/4" size 21830 ft.	84,180 ft.
(18)	Hose Delivery R.R.L. 1 1/2" size 20500 ft.	29,200 ft.
(19)	Gas Masks of various types	42
(20)	Three Wheeler Tempo	1
(21)	Power Cutter/Rescue Saw	5
(22)	Power Chain Saw	3
(23)	Pneumatic lifting bags	4
(24)	High Pressure Pumps	4
(25)	High Expansion foam unit Foam Generators	4
(26)	Davy's Fire Escape	5
(27)	B. A. Van	1
(28)	Ambassador Car	1
(29)	Mini-Bus	2
(30)	Turn Table Ladder	1
(31)	Rescue Tender	1
(32)	Jeeps	4
(33)	Water Tanker	8
(34)	Fire Engines (Extension Unit)	5

Out of the above appliances and equipment the following were purchased during the year 1981-82 :—

(1) Breathing Apparatus Van	1 No.
(2) Fire Engine (Escape)	4
(3) Fire Engine (Extension)	7
(4) Fire Engines (Escapo Angus 464)	5 "
(5) Ambassador Car	1 Nos.

APPENDIX II.

Brief details of serious fires during the year 1981-82.

Date & time.	Place.	Business	Extinguished by	Description of Damage.	Estimated Loss.
1	2	3	4	5	6
19-4-81 1158 hrs.	Dr. E. Moses Rd., Laxmi Woollen Mills Compound Bombay.	..	Firemen with 4 engine lines.	Large stock of raw materials, wooden loft, kerosene stoves and wicks stoves, in card board press, cutting lathe & drill machines, various types of dyes, office record, wooden furniture etc. severely damaged by fire, heat, smoke and water.	15,90,000
20-4-81 0556 hrs.	Vijay-Kailas Indl. Estate, Sorawala X Rd. Goregaon (E.), Bombay.	Mfg. Chemicals.	Firemen with 6 motor pumps.	Large stock of Aromatic chemicals, finished products, plastic raw material, shoes, wooden & steel furniture, Machinery, electric motors, wooden loft, Asbestos roof, wall etc. severely damaged by fire, heat, smoke and water.	15,80,000
12-4-81 0103 hrs.	Messrs. Bharat Crown & Metal Industries, Chinchpokali X Lane No. 2, Bombay.	Mfg. of Crown Corks.	Firemen with 2 jets of 2 motor pumps.	One electric oven, stock of tin sheets, cutting machines, electric motor, electric installation etc. severely damaged by fire, heat, smoke and water.	1,35,000
24-4-81 1222 hrs.	Food & Inns Ltd. Deonar, V. N. Pura Marg, Chembur, Bombay.	..	Firemen with 2 engine lines of 2 motor pumps and employees with 8 extinguishers.	Spray drying machinery, ducting pipes, electric installation & few quantity of sulphur etc. severely damaged by fire, heat, smoke and water.	5,19,000
25-4-81 1124 hrs.	Anil Hardboards Ltd., Kanjur Village Road., Bhandup (E). Bombay.	Mfg. of Hard-Boards.	Firemen with 4 water lines of pvt. hydrants and 3 water lines of 3 motor pumps.	Large stock of bugases severely damaged by fire, heat, smoke and water.	2,90,000
9-5-81 1221 hrs.	Ibrahim Adam Compound, 93, Maulana Azad Road, Bombay.	Anodising works etc.	Firemen with 8 jets from 6 pumps.	Large stock of wood wool, timber, buffing machines & temporary sheds were severely damaged by fire, heat, smoke and water.	2,02,150
11-5-81 0300 hrs.	Govind Nagar, Opp. Hima-laya Co-op. Hsg. Soc. Nari Seva Sadan Rd., Ghatkopar (W), Bombay.	Dealing with wooden plank and boxes.	Firemen with 4 water lines of 6 motor pumps.	Stock of wooden planks, boxes, wood & timber, cutting machines, Office records, etc. severely damaged by fire, heat, smoke and water.	1,08,000
20-5-81 1719 hrs.	The Mahalaxmi Glass Works P. Ltd. Dr. E. Moses Rd., Mahalaxmi Bombay.	Mfg. of Glass containers.	Firemen with 9 motor pumps.	Large stock of empty glass bottles of different sizes and quality packet in corrugated boxes, gunny bags, large quantity of packing materials, Old office records, R. C. C. structure including walls ceiling, beam, window etc. severely damaged by fire, heat, smoke and water.	24,00,000
31-5-81 0235 hrs.	Kamala Nagar, Jasmin Rd. Near Dharavi Fire Stn., Dharavi.	Godown & residence.	Firemen with 7 motor pumps.	In all 116 huts were damaged by fire, heat, smoke and water.	6,03,400
6-6-81 2311 hrs.	Anil Hardboard Ltd., Kanjur Marg, Kanjur Village (East), Bombay.	Mfg. of Hard-boards.	Firemen with 4 water lines of 2 motor pumps & 2 lines of 2 pvt. hydrants.	Some stock of insulation boards, hard-boards, severely damaged by fire, heat, smoke and water.	2,15,000
7-6-81 0438 hrs.	Messrs. Thackersee Hirji & Sons, Saksoria Compound, Chinchavli Naka, Jn., S. V. Road, Bombay.	Mfg. Polyester cloth.	Firemen with 2 engine lines of 3 motor pumps.	Stock of polyster yarn, 4 powerlooms, wooden and steel furniture, cupboards, office cabin, currency notes, documents, doors, windows, etc. severely damaged by fire, heat, smoke and water.	1,50,000
7-6-81 1711 hrs.	397, B-Sir, Mangaldas Wadi, Opp. Naaz Cinema, Dr. D. Bhadkamkar Marg, Bombay.	Garage & printing press.	Firemen with 7 lines of 6 motor pumps.	9 motor cars, cup-boards, machineries, various types of Auto Spares, papers, electric installations, etc. severely damaged by fire, heat, smoke and water.	2,25,700
10-6-81 1527 hrs.	25/29, Dr. B. A. Road, The New Great Eastern Spg. & Wvg. Co. Ltd.	Textile mills.	Firemen with 5 engine lines of 4 motor pumps.	Large quantity of cotton yarn, cones, & cloth bales, electric installation, machinery etc. severely damaged by fire, heat, smoke and water.	5,32,500
12-6-1981 1245 hrs.	Dattamandir Road, Vokola Pipe Line, Gaumdevi, Santacruz, (W), Bombay.	Private	Firemen with 4 engine lines of 8 motor pumps.	Nearly 250 hutments, were severely damaged by fire, heat, smoke and water.	2,14,200
20-6-1981 1717 hrs.	House No. 47 to 59, 58 on Dotted St. H. No. 21/23, 19, 17, 13, on Dotted X Lane, House No. 2/4, 6, 12, 14, 16, 18, on Khadak Street, Bombay.	..	Firemen with 15 lines of 20 motor pumps.	13 Bldg., 37 shops used as transport godowns, timber, bamboo plywood etc., storages of spices, camphors, tapaulin, printing press, etc., 37, tenaments, including house hold articles, garments, food-grains, etc., severely damaged by fire, heat, smoke and water. Due to sudden collapse of flooring and wall. Three Personnel of Fire Brigade viz. Stn. Officer B. P. Chavan, Fireman Savlaram Dnyandeo Rane, Fireman Suresh Angulya Vartak were buried under the fallen debris. They were declared dead by Hospital Authority.	1,07,80,000

APPENDIX II.

Date & time.	Place.	Business	Extinguished by	Description of Damage.	Estimated Loss.
1	2	3	4	5	6
26-6-1981 1505 hrs.	Messrs. Music India Ltd. (Polydor) Chakravarti Ashok Nagar, Kandivali (East), Bombay 67.	Gramophone recording.	Employees with 7 D. C. P. and 3 soda acid extinguishers, firemen with one line.	Diesel generator, Air compressor, Control Panel and electric cables were involved in fire.	3,55,000
28-6-1981 0539 hrs.	Unit No. 24/25, Messrs. Powerline Industries and Messrs. New Lisut rubber Products, Navandanvan Indl. Estate, Mulund (W), Bombay.	Fibre glass cloth and rubber goods.	Firemen with 3 motor pumps.	Large quantity of fibre glass yarn and cloth, metal furniture, nearly 6 tons of rubber powder, gunny bags, books of accounts, electric installations etc., severely damaged by fire, heat, smoke and water.	1,42,000
30-6-1981 1349 hrs.	Kapur Mahal, N. S. Road, Bombay.	Residential	Firemen with 9 lines of 14 pumps.	Room air conditioner, steel and wooden furniture, household articles, interior decoration etc., severely damaged by fire, heat, smoke and water.	2,07,000
2-7-1981 2217 hrs.	220/100, K. V. Receiving Station, M.S.E.B. National Park, Borivali (West).	..	Firemen with 2 engine lines from 3 motor pumps.	200 K.V.C.T., 220 K.V., three lighting arrestor, 125, M.V.A. 220/100, K.V. Transformer, with oil severely damaged by fire, heat, smoke and water.	25,05,000
2-7-1981 2302 hrs.	'Vaibhav', 80 B.D.Road, Bombay.	Private	Firemen with 4 lines of 9 motor Pumps.	11 A. C. Machines, wall cupboards, dining table, household articles, tele-phones, electric installation, refrigerator, doors, window, false ceiling etc., severely damaged by fire, heat, smoke and water.	10,51,700
5-7-1981 0230 hrs.	Ashish Indl. Estate, Premises Co.Op.Soc.Gokhale Road, South, Dadar, Bombay.	International garments exports.	Firemen with 4 pumps.	10, embroidery machine, sewing machines, finished and unfinished garments, A. C. machine, electric installation etc., severely damaged by fire, heat, smoke and water.	1,55,000
9-7-1981 2331 hrs.	B. K. Chhabra kheds, Shivaji Indl. Estate, Compound, Wakola Bridge, Santacruz (E), Bombay.	Private.	Firemen with 4 engine lines of four motor pumps.	Stock of dyes, timber, Office, furniture, working tables, large stock raw material, wooden loft, etc., several damaged by fire, heat, smoke and water.	2,10,000
16-7-1981 2115 hrs.	Elphinston Spg. and Wvg. Mills Co. Ltd., S. B. Marg, Sayani Road, Bombay.	Textile	Firemen with 4 motor pumps and 11 soda acid extinguishers.	Large quantity of loose cotton and packed cotton bales severely damaged by fire, heat, smoke and water.	1,50,000
28-7-1981 2023 hrs.	Jyoti Transport Corpn. Akme Indl. Estate, Sewree (East), Bombay.	Transport godown.	Firemen with 8 motor pumps.	Large quantity of various types of chemicals electric installations, A. C. Sheet roof, portion of wall, glasses of Office cabin, corrugated pressing, machines, electric motors, etc., severely damaged by fire, heat, smoke and water.	7,33,300
28-7-1981 2234 hrs.	Victoria Dock shed No.15, 15, M. V. Unibaksh.	..	Firemen with 5 lines, B.P.T. with 2 lines, C. D. with one line.	Furniture, linen, super structure of carbo sheet, etc., severely damaged by fire, heat, smoke and water.	2,50,000
29-7-1981 1105 hrs.	Messrs. Advani Overlikon' Ltd., 1177, C. S. T. Road, Kalina, Santacruz (E).	Mfg. of electro static photo copying machine.	Firemen with 4 engine lines of 4 motor pumps.	Large stock of flammable liquids, packing material, electric installation, etc., severely damaged by fire, heat, smoke and water.	3,00,000
1-8-1981 1144 hrs.	Elphinston Spg. & Wvg. Mills Ltd., Blk. No.2, S. B. Marg, Elphinston Road, Bombay.	Textile	Firemen with mills hydrants.	Large quantity of loose cotton and 40 cotton bales severely damaged by fire, heat, smoke and water.	1,25,000
2-8-1981 1810 hrs.	Glestern Ministil Co., L. B. S. Marg, Mulund (West), Bombay.	Mfg. M. f.	Employees with 25 chemical extinguishers and firemen with sand.	Main incoming circuit breaker insulator bars cable box, metering equipment body of electrical panel board severely damaged by fire, heat, smoke and water.	1,00,000
5-8-1981 2037 hrs.	Poonam International Hotel, Shivasagar Estate, Dr. A. B. Road, Worli, Bombay.	Lodging and Boarding.	Firemen with one small engine line and 1 first aid appliances.	Furniture, carpets, curtains, radio, air-condition machine, electric installation, doors, windows, etc., severely damaged by fire, heat, smoke and water.	1,50,000
20-8-1981 1310 hrs.	Khandelwal Herrmann electronics Ltd., Bhandup Village Road, Bombay.	Mfg. electronics goods.	Firemen with one engine line and employees with 12 chemical extinguishers.	Electrical oven, electrical installations, electrical distribution board etc., severely damaged by fire, heat, smoke and water.	1,06,000
12-9-1981 1805 hrs.	Premier Textile Processor, Military Road, Marol, Andheri (East).	Textile Dyeing and printing.	Company workers with 14 dry powders, chemical extinguishers with water buckets.	Dryer of the rotary screen printing machine, asbestos sheets, roofing window glass panes, etc., severely damaged by fire, heat, smoke and water.	4,06,000
15-9-1981 0515 hrs.	Laxmi Indl. Estate, Premises Co., Op. Soc. Hanuman Lane, Lower Parel, Bombay.	Printing Press and Mfg. Plastic.	Firemen with 5 motor pumps.	Printing papers, machinery ink, furniture etc., severely damaged by fire, heat, smoke and water.	6,65,000

APPENDIX II.

Date & time.	Place.	Business	Extinguished by	Description of Damage.	Estimated Loss.
1	2	3	4	5	6
20-10-81 0329 hrs.	M/s. Mahendra & Mahendra Ltd., Akurli Road, Kandivali (East).	..	Employees with one soda acid and 4 DGP extinguishers and firemen with 2 engine lines and one hydrant line.	4 diesel generators, 4 diesel feeding tanks, electric high tension cable etc., severely damaged by fire, heat, smoke and water.	2,50,000
22-10-81 1732 hrs.	Asian Paints Ltd., L. B. S. Marg, Mulund (W), Bombay.	Mfg. paints	Firemen with 5 motor pumps and employees with 40 extinguishers.	Stock of resin, blender, sludge tanks, supply pipe, installations, electric motor, etc., severely damaged by fire, heat, smoke and water.	9,00,000
13-11-81 2232 hrs.	Padmanabh Bunglow, 10, M. L. Dahanukar Marg, Bombay.	Private	Firemen with 8 lines of 5 motor pumps.	3 steel cupboards, 3 wooden cupboards, valuable articles, 3 A. C. Machine, garments, electric appliances, decorative material false ceiling, A. C. ducting etc., severely damaged by fire, heat, smoke and water.	1,10,000
14-11-81 0452 hrs.	The New Great Eastern Spg. & Wvg. Co. Ltd., B.A. Road, Byculla.	Textile Mills	Firemen with 6 engine lines of 5 motor pumps.	Large quantity of cotton waste, oily rags, hessian cloth, lubricating oil, electric wiring, ring frame machine, etc., severely damaged by fire, heat, smoke and water.	7,31,000
14-11-81 1744 hrs.	Mahatma Gandhi Road, Near Sahakar Telkies, Tilak Nagar, Chembur.	Shops and residents.	Firemen with 5 engine lines of 4 motor pumps and Civil Defence with one engine line.	In all 17 residential rooms and 15 shops were severely damaged by fire, heat, smoke and water.	3,89,350
18-11-81 0244 hrs.	Sewree Coal Depot, Fosberry Road, Sewree.	Charcoal dealers.	Firemen with 6 engine lines from 5 pumps.	A large Stock of charcoal wooden frame, G. I. Sheet, G. I. roofed shed severely damaged by fire, heat, smoke and water.	3,85,000
18-11-81 1028 hrs.	Asian Paint India Ltd., L. B. K. Marg, Mulund (West), Bombay.	Mfg. Paints	Firemen with 11 lines of 16 motor pumps.	Large Stock of laboratory chemicals equipment, and furniture, stock of paints, electrical installations, ducting, doors, window etc., severely damaged due to fire, heat, smoke, water and breakage.	45,00,000
19-11-81 2116 hrs.	Elphinston Bldg., Nariman Road, Fort, Bombay.	..	Firemen with 8 lines of 16 pumps.	Electric installation, air-condition Machine, telephone board, telex machine, wooden and steel furniture, calculating machine, records, files, portion of roof, etc., severely damaged by fire, heat, smoke and water.	3,10,000
4-12-81 0155 hrs.	Indira Dock Shed, No. 16, Bombay.	..	Firemen with 2 engine lines and one B. P. T. Line.	About one thousand drums of sodium hydrosulphide, country craft and other material severely damaged by fire, heat, smoke and water.	1,70,000
5-12-1981 2335 hrs.	Princess Dock 'F' Shed, M. V. Kukistar, Bombay.	..	Firemen with 9 lines, and B. P. T. with one line.	Crew cabin on lower and upper decks, personal belongings, furniture, fixture, electric installation etc., severely damaged by fire, heat, smoke and water.	35,00,000
13-12-81 0053 hrs.	138, Dr. Masocharhance Road, Rangwala Compound, Mazgaon.	..	Firemen with 7 engine lines of 7 motor pumps & Civil Defence with one engine line.	Temporary sheds, housing soap-manufacturing, paint manufacturing, auto-repair workshop & other mechanical workshop, etc. severely damaged by fire, heat, smoke and water.	4,68,500
1-1-82 0152 hrs.	27-Naviwadi, D. A. Lane, (Welkar Bldg.) Bombay.	..	Firemen with 9 lines of 10 motor pumps & disconnecting electric supply.	Large stock of synthetic fabrics in bales, sarees, household articles, office, furniture, office records, etc. severely damaged by fire, heat, smoke and water.	5,31,000
7-1-82 0445 hrs.	Sadguru Indl. Estate, Vishweswar Nagar Rd., Goregaon (East).	Mfg. rubber gaskets & electroplating.	Firemen with 5 engine line of 8 motor pumps.	Stock of finished and semifinished goods, of rubber gaskets, one type writer machine, telephone equipments, furniture, office records, electric installation, machines, Nickel & Chrome plating solution, electric motor, 6 electric heater etc. severely damaged by fire, heat, smoke and water.	4,60,000
10-1-82 1834 hrs.	Messrs. Shalimar Motors (India), Biscuitwala Compound, Pipe Rd., Kurla (W), Bombay.	Mfg. rubber goods.	Firemen with 4 motor pumps.	Machinery, compressor, rubber hose pipes, raw materials, Office furniture, records, electric installation etc. severely damaged by fire, heat, smoke and water.	1,75,000
23-1-82 0100 hrs.	Balaram Lilaram Compound, C. B. Rd., Mazgaon, Bombay.	Silk Mills etc.,	Firemen with 8 engine lines of 16 motor pumps.	Textile silk mills with various department machinery, electric installations, fabrics, raw material, etc. severely damaged by fire, heat, smoke and water.	50,50,000

APPENDIX II.

Date & time:	Place.	Business	Extinguished by	Description of Damage.	Estimated Loss.
1	2	3	4	5	6
28-1-82 1304 hrs.	Dr. A. B. Rd., Neharu Centre Compound, Near Lotus Cinema, Bombay.	Residential.	Firemen with 4 lines of 4 motor pumps.	204, bamboo matting huts with household articles, garments, foodgrains, etc. severely damaged by fire, heat, smoke and water.	6,92,000
2-2-82 2245 hrs.	Messrs. Popular Automobile Industries, Masrani Indl. Estate, Halav Pool, Kurla (W) Bombay.	Production of Heat lights etc.	Firemen with 3 water lines of 3 motor pumps.	Stock of paint, thinner, 2 vacuum metalising machines, a compressor, buffing machine, hand pressing machine raw material finished products, electric motors, etc. severely damaged by fire, heat, smoke and water.	2,25,000
6-2-82 0800 hrs.	Sun Mill Lane, S. J. Marg, Cama Indl. Estate, Lower Parel, Bombay.	Plastic garment etc.	Firemen with 8 motor pumps.	Large stock of papers, readymade garments, cloth bales, paper storages, machineries, of various kinds, electric installation, etc. severely damaged.	28,75,000
10-2-82 1427 hrs.	Disilva Compound, N. S. S. Rd., Ghatkopar.	Godown.	Firemen with 3 water lines of 2 motor pumps.	Large quantity of tarpaulins, & hesse in cloth bags and the shed severely damaged by fire, heat, smoke and water.	1,26,000
3-3-82 0053 hrs.	Bapurao Jagtap Marg, Byculla Stn. Road., Jn. Gafoor Pehalwan Compound, Byculla, Bombay.	Bakery Residential.	Firemen with 10 engine lines of 8 motor pumps.	Timber framed structure, electric installation, tailoring, household articles etc. severely damaged by fire, heat, smoke and water.	12,82,000
8-3-82 0534 hrs.	The vegetable Vitamin Food Co., Ltd., Plot No. 109, Sion Koliwada, Sion (E), Bombay.	Mfg. exports of fatty acid & spent catalyst.	Firemen with 10 motor pumps.	A large quantity of fatty acid, spent catalyst, gunny bags, steel cup-boards, furnitures, office records, etc. severely damaged by fire, heat, smoke and water.	12,50,000
14-3-82 2305 hrs.	Plant No. 1, Godrej and Boyce Mfg. Co. P. Ltd., Pirojsha Nagar, L. B. S. Marg, Vikhroli, Bombay.	Mfg. of steel furniture.	Company staff by cutting off current Firemen with one foam line & one engine line & 4 hydrant line by Co. staff.	Conveyor deeping chamber, 2 paint tank, electric installation, electric oven machine, paint work of 400 steel cup-boards etc. severely damaged by fire, heat, smoke and water.	1,81,000
16-3-82 0454 hrs.	Sonal Metal Reeds Mfg. Works, 36, Sonal Co-Op. Indl. Estate, Ltd. M. Vasanji Road, Andheri, Bombay.	Mfg. of readymade garments.	Firemen by cutting off current & with 3 engine lines.	Large stock of finished & semi finished garments, fabrics, etc. sewing machines, tables electric irons, office files, furniture, electric installation etc. severely damaged by fire, heat, smoke & water.	5,35,000
18-3-82 1929 hrs.	Shivaji Kutir Mandir, L. B. S. Marg, Kurla (West).	Scrap dealers.	Firemen with 5 lines of 6 motor pumps.	Large stock of wooden planks, scrap, combustible material, waste oil etc. severely damaged by fire, heat, smoke and water.	3,45,000
25-3-82 1640 hrs.	American Consulate, General American Embassy Bldg., Bhulabhai Desai, Road, Bombay.	Embassy.	Firemen with 5 1st aid appliance of three motor pumps.	Car parking garage and in all 7 Cars severely damaged by fire, heat, smoke and water.	7,03,000

APPENDIX—III.

Brief details of serious House Collapses during the year 1981-82.

Serial No.	Date and Time.	Place	Death	Injury	Details.
1	2	3	5	5	6
1	12-5-1981 1713 hrs.	40, Memonwada Road, Bombay.	1	5	Some portion of living rooms on the upper floor of partially demolished Bldg. was collapsed on the ground floor of a five floored brick walled timber framed building.
2	25-5-1981 1051 hrs.	28, M. A. Sarang Marg, Bombay.	9	6	The sanitary block and the living rooms from ground floor to fourth floor and portion of tiled roof & partition wall was collapsed on ground.
3	18-6-1981 1422 hrs.	286, Bakary Bldg., Shahid Bhagat Singh Rd., Bombay.	3	1	The flooring of a living room on each floor i.e. 2nd, 3rd 4th at South side of the bldg. collapsed on the first floor.
4	24-7-1981 1723 hrs.	Opp. Yusuf Chawl, Durga Rd., Bhandup (West) Bombay.	2	2	Wall of a demolished chawl had collapsed.
5	14-8-1981 1700 hrs.	Central Rd., Near M. I. D. C. Colony behind Arvind wood Co. Andheri (East) Bombay.	2	3	East side wall while constructing ground floored structure collapsed.
6	23-9-1981 0529 hrs.	Ramswamy Chawl, Jan- gal Mangal Rd., Opp. Datta Wadi, Post Office, Bhandup (W) Bombay-78.	3	0	The Top portion of a hill was slid on a ground floored brickwalled manglore tiled structure.
7	28-9-1981	20, Kamathipura 9th X lane.	2	3	A ground and four upper floored brick walled, partially steel, wooden, & R. C. C, framed bldg., No. 20, was collapsed on the adjacent ground floor brick wall timber framed, having tiled roof structure No. 22 on the western side.
8	29-9-1981 2104 hrs.	Sakina Manzil Raja Ram- mohan Roy Rd., Jn. Charni Rd., Bombay.	2	1	A portion of balcony of a second & third floor was collapsed on the ground floor of a five floored brickwalled timber framed structure.
9	30-9-1981 2211 hrs.	55, Masjidwala Bldg. 55 Jackeria Masjid Street, Bombay,	2	2	Entire staircase portion of a three floored brickwalled timber framed structure had collapsed.
10	5-3-1982 1058 hrs.	15, Rupa Lane, Chandan- wadi, Girgaum Bombay.	1	4	Entire middle portion from ground to top floor of a ground and two upper floors.
11	8-3-1182 0922 hrs.	63/69, Amoledine Bldg., Sun Mill lane, Bombay.	1	3	Portion of wall on second floor of a four floored brick walled timber framed building had collapsed.

APPENDIX—IV

Serial No.	Type of Rescue	In fire	In accident	Total
1	Number of persons rescued alive with subsequently recovered.	262	714	976
2	Number of persons rescued alive with burns and/or injuries but subsequently died.	53	184	237
3	Number of human lives lost before arrival of Brigade	42	192	234
4	Number of casualties amongst Fire Service personnel	10	6	16
5	Number of animals lives rescued	4	209	213

APPENDIX No. V.

Fire Risk Covered :

1	Textile Woollen Silk and artificial silk (Rayon etc., Mills)	...	...	165
2	Ginning Mills	...	...	4
3	Cotton Presses	..	..	11
4	Oil Mills	..	..	26
5	Petrol and Oil storages, refineries	...	...	24
6	Match factories, fire works and explosives manufacturers	...	..	3
7	Explosives stores	...	...	12
8	Processes involving dangerous petroleum products	...	...	9
9	Cinematograph films Celluloid plastics and Bakelite works	...	...	21
10	Timber and wood working paper manufacture	...	...	106
11	Chemical Works	..	...	59
12	Gas and Electricity Undertaking	...	...	69
13	Docks, railways, Air-Port installations	...	...	30
14	Warehouses, Goods Yards, Goods Sheds	...	...	212
15	Manufacture of rubber goods	...	...	17
16	Manufacture of other goods	...	...	433

Water Facilities :

17	Hydrants and approximate capacity	...	...	8726
18	Water Ponds	...	...	15
19	Refilling places	...	..	37
20	Wells Rivers and Canals	..	..	693
21	Other facilities like static tanks, storage tanks etc. { and Sea Water around the island of Bombay.	..	..	182

Appendix No. VI

Summary of calls to Fires (including false alarms) showing the number of times appliances of the Fire Brigade attended and extinguished fires during the year 1981-82.

Sr. No.	STATIONS.	NUMBER OF FIREALARMS ATTENDED.	HOW CALLED			HOW ATTENDED															HOW EXTINGUISHED.										
						STATION APPLIANCES					AIDING APPLIANCES.																				
			Municipal.	Private.	By Strangers.	By Fire Alarms.	Control Room	Total.	Motor Pump carrying Escape or Ladder	Extension	Snorkel	Escape	Extension	Motor Turn table Ladder.	Water Tanker	Trailer Pumps.	Motor Emergency Tender.	Control Post	Hose Lorry	Snorkel	Sund.	Buckets.	Chemical Extinguisher.	Cutting of Current	First Aid Appliances.	Hydrants.	No. of Motor Pumps.	Nr. of Jets.	B.A. Sets	Peak Equipment.	
1	Colaba ...	21	...	...	146	167	146	35	...	31	10	11	9	...	6	...	...	10	33	15	5	38	3	...	11	11	...	...	...	...
2	Fort ...	44	...	...	308	352	319	56	...	97	48	6	...	...	4	1	1	6	149	20	7	134	19	...	26	12	...	...	...	...
3	Memonwada...	50	4	565	619	560	69	...	...	40	32	12	...	4	2	4	1	7	123	94	36	149	28	3	23	7	...	...	...	1
4	Gowalia Tank	54	...	472	526	520	6	...	...	125	62	22	36	2	9	4	2	18	114	51	3	109	41	1	57	22	1	...	...	...
5	Byculla ...	62	1	272	335	219	136	3	38	39	...	23	...	...	32	4	4	...	59	35	25	64	27	9	67	75	5	1	...	...
6	Worli ...	44	73	256	373	192	251	...	56	185	4	13	...	...	6	3	2	1	110	37	239	...	8	16	68	67	...	...	...	...
7	Dadar ...	39	80	211	330	265	146	...	109	59	3	10	...	...	6	...	...	...	59	44	264	70	24	14	19	20	...	...	...	...
8	Shivaji Park ...	13	...	175	188	...	188	...	29	28	...	1	...	...	3	2	...	2	89	90	5	...	...	...	...	...	...	...	...	...
9	Indira Dock...	9	26	101	135	92	76	...	60	37	...	...	...	...	5	2	...	...	33	11	3	...	31	...	33	36	...	...	...	...
10	Mandvi ...	10	...	144	154	124	54	...	59	19	...	21	...	...	...	...	2	1	...	41	15	4	...	6	...	36	20	...	...	...
11	Sewree ...	15	...	118	133	132	1	...	39	31	...	8	...	...	1	...	...	...	32	15	23	...	16	5	2	21	4	3	...	...
12	Andheri ...	3	...	567	570	...	604	...	9	67	...	8	...	...	6	3	3	...	142	67	...	...	9	6	12	53	...	...	...	...
13	Vikhroli ...	41	...	249	290	...	268	...	...	56	...	18	...	...	...	...	2	1	...	60	10	102	3	5	60	70	...	...	...	...
14	Chembur ...	34	...	175	209	...	218	...	...	19	...	15	...	...	9	...	...	...	50	28	...	40	11	1	28	38	...	...	...	...
15	Dharavi ...	19	...	101	120	16	113	...	9	26	...	13	...	...	4	3	...	1	37	23	9	37	5	2	33	28	...	...	...	...
16	Deonar ...	10	...	26	36	...	36	...	...	21	...	3	...	...	...	...	...	...	7	3	2	6	...	...	9	9	...	...	...	...
17	Mulund ...	38	...	106	144	...	157	...	...	48	...	...	...	12	8	2	2	3	18	15	33	...	14	3	47	48	...	...	...	...
18	Raoli Camp...	33	...	31	64	6	58	...	9	19	...	5	...	...	4	1	17	...	9	...	21	...	9	...	10	...	...	...	...	...
19	Kandivli ...	77	...	249	326	...	340	...	5	49	...	34	1	...	5	2	2	...	48	43	38	54	17	3	...	39	...	...	...	...
	Total ...	628	185	4312	5125	2591	2812	3	712	855	92	185	18	110	36	26	48	1153	664	777	803	271	68	651	573	10	6

APPENDIX No. VII.

Fires and losses for the period from 1976-77 to 1981-82.

YEAR	NO. OF FIRBS	ESTIMATED LOSS
		Rs.
1976-77	2487	5,25,01,970
1977-78	2546	6,22,20,180
1978-79	2907	6,05,21,621
1979-80	3090	5,00,00,276
1980-81	3286	5,64,00,000
1981-82	3048	5,91,71,281

APPENDIX No. VIII

Special Service Call

Serial No.	Date and Time	Place	'Death, Injury'	Details
1	16-10-1981 1230 hrs.	Dr. E. Moses Rd., Mun.- Water Supply & Severage Deptt., Love Grove Yards, Worli, Bombay-18.	..	110 A chlorine gas cylinder capa- city of 100 kgs. was leaking through the damaged and rusted main valve in the shee with result 110 persons over- come by the gas.
2	24-11-1981 1319 hrs.	Opp. B. E. S. T. Depot Link Rd., Ghatkopar, Bombay.	..	18 A four wheeler Tempo bear- ing No. MMT 7317 carrying about 40 drums fromic acid had collided with B. E. S. T. Bus (Single Deck) bearing No. MRL 5570 on the road and causing injury to 18 persons.

MARKET DEPARTMENT

Salient Features

In the year 1981-82.

Income	Rs. 1,89,54,126	Expenditure	1,65,78,152
Markets maintained :		Municipal	Private
City		34+1 (A.P. Mkt taken over from 11-2- 1982)	11-1-10 (A.P. Mkt. was taken over from 11-2- 82 by B.M.C.)
Western Suburbs		30	5
Eastern Suburbs		14	1
		City	Western-Suburbs
Markets developed	..	2	2
Markets under development	6	2	2

There are 95 markets—79 Municipal and 16 Private Markets, under the control of the Corporation. In addition to this, 935 licences have been issued for outside shops of meat and fish to cater to the increasing demands of the citizens.

The entire activities of the Market department are managed by 1081 personnel (supervisory-6, Inspectorial-205 Indoor staff-60 and labour staff 810).

The markets are situated in different areas viz. (1) city, (2) western suburbs & (3) Eastern suburbs. Their financial position etc. is as under :—

Unit	Municipal Markets	Private Markets	Licences issued to O.S. shops	Revenue Collected	Expenditure	
					Estt.	Maint.
				Rs.	Rs.	Rs.
(1) City ..	34+1	10(11-1)	282	1,54,32,585	63,48,000	52,99,155
(2) Western Subs. ..	30	5	360	23,15,961	22,83,147	11,07,156
(3) Eastern Suburbs...	14	1	293	12,05,580	85,16,620	68,96,032
Total ..	79	16	935	1,89,54,126	94,82,809	70,95,343

Cold storage at M. J. P. Market is out of order for some years. It has been scrapped, and the machinery is proposed to be sold by inviting quotation or by auction.

During the year, revenue amounting to Rs. 1,89,54,126 was collected against the amount of Rs. 1,76,56,646 for the previous year. So also, expenditure for the year was Rs. 1,65,78,152 against Rs. 1,47,94,267 for the previous year.

Wholesale articles viz. vegetables, fruits, mutton, beef pork, fish, poultry eggs etc. were supplied through the markets to the citizens of Bombay.

Surprise raids to detect smuggling of animals and unauthorised slaughter of animals were carried out regularly by the special staff. Nearly 5352 raids were carried out and Rs. 2,11,352 were collected by way of fine and auction of stuff.

Immunisation of cattle and dogs was done by a Board of Veterinary staff. During the year, 159 dogs and 75,593 milch cattle were immunised at 10 centres. The curative and preventive treatment of animals was continued at Khar Veterinary Dispensary.

Due to increasing number of hawkers during the year 1980-81, most of the municipal markets in suburbs and extended suburbs were not patronized well. Majority of the markets were running in deficit.

The progress of the development of the markets is as below ;

Following markets are under development.**City.**

- (1) Colaba Market .. The pile foundation of the 3rd phase is to start within a week or so. The design and estimates for the superstructures are already ready.
- (2) M. J. P. Market .. Construction of transitory mutton & eggs stalls is completed
- (3) Babu Genu Market .. Work of 3rd phase is recently started by the contractor Messrs Desai Lallubhai & Co.
- (4) Kamathipura Market .. Work of construction of 1st phase is recently started by the contractor Messrs. Desai Lallubhai and company.
- (5) Elphistone Rd., Market .. Work of super structure is nearing completion. The market will be ready shortly.
- (6) Prof. Khamkar Mandai .. The construction work is still incomplete This is being carried out by Repairs Board. They have assured me that the work will be completed by Oct. 1982.

Markets in Western Suburbs.

The following markets are fully developed.

- (1) Topiwala Market Goregaon (West) .. All the works are completed but the court case filled by the dealers is not yet finalised. The matter is on the board from 5-4-1982. M. C. on his visit to P/South Ward on Friday, 23rd April 1982, instructed E. E. (Struct) (S) that the proposal for construction of 2nd phase of the market should be withdrawn in view of non-utilisation of the market by the dealers.
- (2) Khar Market .. (i) Proposal for disposal of 17 vacant stalls has been sent for orders. Orders received on 1-6-1982. Press Advertisement will be released shortly.
(ii) Quarters on the 2nd floor have already been given in possession of the employee. Only the quarters meant for an officer and a peon, are yet to be occupied.

Following Markets are under development.

- (1) Extension of Khar Danda Market .. Work order was issued to start the work. Work was started. However, stopped due to objection from Sonkoli Samaj of Khar Danda. A meeting was called on 26-2-1982 in D. M. C. (Z-III) s chamber in this case. W. O. H/W is to take further action.
- (2) Market at Turner Road, Bandra. Construction of super structure has already been started.

Markets in Eastern Suburbs.

The following markets are fully developed.

- (1) Market on portion of private plot No. 5-A & 36, at Mulund (West). Govt. stay is not yet vacated. E. E. D. P/ D. M. C. (Engg) are pursuing the matter.
- (2) Donar Hutment Colony. As per S. C. R., draw of lots were drawn and successful bidders have started occupying inside stalls. Electrification of the market is not yet completed.

Following Markets are under development.

- (1) Kena Market, Govandi .. Tenders for remaining work are ready for invitation. The market is incomplete and presently under G. M. D. A.
- (2) Tagore Nagar Mkt. Vikhroli The work is in progress.

W O.(Markets).

DEONAR ABATTOIR

Since the commissioning of the Abattoir all the units continued to function smoothly.

During the year under report there is an increase in the arrival and slaughter of sheep and goats on account of resumption of export slaughter from November, 1980. Cold Storage facilities are also made available to the licensee and exporters to the full extent.

Production of the blood meal and meat meal was continued in the inedible plant and the International standard was maintained for the products. Approximately 117.8 tons of blood meal and 58.2 tons of meat meal were produced during the year under report. This scientific disposal of the waste material, had avoided environmental pollution and health hazard.

The exporters continued to take the benefit of the ideal arrangements provided at the Abattoir.

The gas produced in the Gobargas Plant was continued to be supplied to the two canteens in the Abattoir premises.

As usual special arrangements were made during the Bakri-Id Festival for "Sacrificial Slaughter" of Horned Cattle in one of the livestock market sheds and Municipal Meat Vans were made available for the transportation of sacrificed meat.

Messrs. Hoechst Pharmaceuticals Ltd., continued to utilise the facilities for the slaughter of animals at Deonar Abattoir for the pharmaceutical use for production of foot and mouth diseases vaccine. Pharmaceutical concerns like Messrs. Griffon Laboratories, Messrs. Raptakos and Brett. Co., Messrs. Immu Kimia 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, Konkan Krishi Vidyapeeth, Marketing trainees from Director of Marketing and Inspection Government of India, Local Self Government Institute Bombay and many other Educational Institutes availed of the facilities for demonstration/training etc.

Dignitaries from various States and from abroad paid visits to the Abattoir and took advantage of the technical expertise available here.

DR. S. N. BRAHME,
General Manager,
Deonar Abattoir.

STATEMENT I.

Part—I.

		Buffaloe	Bullocks	M. B. Cs.	Sheep & Goats	Pigs
Brought						
1980-81	..	73,368	1,16,383	4,986	26,97,373	33,955
1981-82	..	54,172	1,03,994	5,263	33,58,471	35,272
Rejected						
1980-81	..	767	1,208	74	1,605	...
1981-82	..	472	1,076	72	1,252	357
Percentage of Rejection.						
1980-81	..	1.5%	1.03%	1.4%	0.07%	...
1981-82	..	1%	1.1%	1%	0.04%	1.05%
Animals Removed						
1980-81	..	980	58	51	3,37,821	...
1981-82	..	322	39	39	3,53,861	...
Slaughtered.						
1980-81	..	73,257	1,18,268	5,135	17,60,072	34,044
1981-82	..	53,577	1,05,134	5,357	22,16,976	35,239

Part—II.

Meat	Quantity Produced (in tons)		Quantity Condemedned (in tons)		Percentage of condemnation	
	1980-81	1981-82	1980-81	1981-82	1980-81	1981-82
Beef	26,311.02	11,831.73	85.85	520.95	0.32%	3.4%
Mutton	17,548.98	22,045.21	9.24	10.72	0.05%	0.04%
Pork	850.09	879.70	10.72	10.72	1.17%	1.20%

STATEMENT—II

Revenue collected at Deonar Abattoir

	1980-81	1981-82
	Rs.	Rs.
(1) Fair fees	46,14,176	45,15,578
(2) Slaughter fees	76,69,241	80,02,126
(3) Licence fees	2,52,858	2,94,771
(4) Blood fees	4,18,899	3,30,319
(5) Service charges for slaughter of animals	89,81,111	1,14,82,619
(6) Miscellaneous Receipts	21,54,912	37,43,833
(7) Rent	3,11,629	3,55,231
(8) Cold Storage	...	3,21,206
Grand total	2,44,02,826	2,90,45,683

LICENCE DEPARTMENT

HIGH LIGHTS :

- (1) Expenditure on the Department :—
 (a) Establishment .. Rs. 84,72,409 }
 (b) Others .. Rs. 2,26,009 } Rs. 86,98,418
- (2) Revenue earned by the Department : Rs. 3,42,66,969.
 (No. of licences issued and amount realised)

Section of B.M.C. Act.	No. of Licences issued.		Revenue realised (in Rs.)	
	Div. I	Div. II	Div. I	Div. II
313(1) (b)-(c) ..	43,172	2,953 *	35,15,810	1,68,771
313(A)/313B ..	10,066	3,410	45,82,876	19,64,138
328/328A ..	5,153	2,146	58,17,642	13,17,133
393/394 ..	64,910	43,903	88,36,680	80,63,919

- (3) No. of prosecutions launched and amount of fines inflicted :—

	Prosecutions launched		Fines inflicted (in Rs.)	
	Div. I	Div. II	Div. I	Div. II
	8,365	8,243	8,06,352	9,33,690

Functions and Activities: The Licence Department functions in four wings viz. (1) Licence Section (2) Encroachment Section (3) Stall Board and other projection Section and (4) Advertisement Section and their activities are as under :—

(1) **Licence Section :** This Section issues licences under section 394 of B. M. C. Act for storages and trades which are either in flammable, combustible, corrosive, poisonous etc. and/or which has a nuisance value from public health point of view. Permits under section 393 of the said act are also issued for controlling Steam Whistles and Steam trumpets etc. A revised Schedule 'M' has come into effect from 26th November 1979, which includes several new commodities and trades. There was a stiff apposition to implement this schedule from the Trade Association including Indian Merchants Chamber as they feel that implementation of this schedule will cause harassment to the trade. However, this department has already started implementing the schedule. Maharashtra Government has also appointed an Experts Committee to go into details regarding grievances of the traders and the Committee is studying their grievances.

(2) **Encroachment Section :** This wing controls hawkers and squatters either by issuing licences at suitable places or by removing unauthorised hawkers from roads and footpaths. Municipal Commissioner has prepared his report regarding Hawking Zones and it was submitted to the Ex. Mayor, Dr. A. U. Memon for getting the same approved from the Hawkers Committee. The matter is still under consideration of the Hawkers Committee. After Hawkers Committee approves the report, final sanction of the Corporation will be taken for implementing the same.

(3) **Stall Board :** This wing deals with issue of permissions for various types of projections viz. Stall Board, Weather Frame, Over Hanging Awning, Show-cases, Cupboard, 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, to implement the provision of Section 328-328A.

(5) **Mass Raid Section :** There are five Mass Raid Sections for detecting unauthorised, inflammable and explosive storages. As a result of their detections of unauthorised storages and trades and infringement in case licensed premises, 4206 court cases have been launched in addition to forfeiture of deposit of Rs. 170316.00. One more Detection Squad has also been established and new trades which were originally not requiring any licences are now being detected and the process of issue of licence is started. It is expected that the revenue of the Licence Department will increase considerably because of licensing of new items.

D. A. PADGAONKAR,
 Superintendent of Licences.

APPENDIX 'C'

Statement showing the number of Hawkers Licences issued and amount of fees collected during the year 1979-80 to 1981-82

Description.	Year.	No. of Licences issued.			Amount of fees collected.		
		City.	Suburbs	Extended Suburbs.	City.	Suburbs	Extended Suburbs
					Rs.	Rs.	Rs.
(1) Squatter's fees collected in the reserved areas (under Sec. 313).	1979-80	9,253	2,938	413	29,86,108	7,93,296	1,75,851
	1980-81	10,059	2,372	645	27,95,442	7,87,471	2,12,683
	1981-82	8,615		*3,253	29,21,774		*11,58,299
(2) Fees received from itinerant hawkers licenses (under Section 313A).	1979-80	1,669	2	175	97,573	17	29,908
	1980-81	401	147	166	1,01,646	15,505	35,741
	1981-82	1,451		*157	4,630		*62
Total of Items 1 and 2	1979-80	10,922	2,940	588	30,83,681	7,93,313	2,05,759
	1980-81	10,460	2,519	811	28,97,088	8,12,976	248,424
	1981-82	10,066		*3,410	29,26,404		*11,58,361
(3) Recovery of expenses under (Section 490) for removal of Encroachments under Section 314.	1979-80	2	---	---	10,97,541	3,02,591	1,12,098
	1980-81	---	---	---	13,58,391	3,45,871	1,69,129
	1981-82	---	---	---	16,56,472		*8,05,777
Final Total	1979-80	10,924	2,940	588	41,81,222	10,95,904	3,17,859
	1980-81	10,460	2,519	811	42,55,479	11,58,847	4,17,553
	1981-82	10,066		*3,410	45,82,876		*19,64,138

* This figure includes revenue of Sub & Ext Sub together

APPENDIX 'D'.

Statement showing the number of Licences issued in respect of St all-board etc. projections in City, Suburbs and extended Suburbs during the Year 1979-80 to 1981-82 under Section 313(1) (b) (c).

Year	No. of licences issued.			Amount of fees collected.		
	City.	Suburbs.	Extended Suburbs.	City.	Suburbs.	Extended Suburbs.
				Rs.	Rs.	Rs.
1979-80	48,168	2,322	778	33,98,300	1,54,245	52,189
1980-81	47,226	2,440	858	36,48,684	1,68,738	42,529
1981-82	43,172		*2,953	35,15,810		*1,68,771

* This figure includes revenue of Sub & Ext Sub together

SHOPS & ESTABLISHMENTS

SALIENT FEATURES:

Revenue receipts	Rs. 26,86,052.30
Expenditure on different activities (exclusive of Provident Fund, contribution and supervision charges etc.)	Rs. 24,64,480.00
Number of Establishments registered	: 2,31,877
Complaints received	: 1,017
Complaints disposed of	: 894
Prosecutions launched	: 14,202
Cases decided.	: 15,540
Total fines realised.	: 7,75,640
Grant-in-aid received during the year for the administration of the year 1980-81 from State Govt. :	NIL.
Total benefits regarding Minimum wages :—	
(1) Number of employees benefitted	: 796
(2) Amount paid by way of owners	: Rs. 1,83,799.34

This department administers Bombay Shops and Establishments Act, 1948, Payment of wages Act, 1936, Minimum wages Act, 1948 and Workmen's Compensation Act, 1923, throughout Greater Bombay, on behalf of the State Government. It will have to administer the Maternity Benefit Act, 1961 also after issue of a notification by the Government of Maharashtra.

The Department consists of 5 Supervisory Staff, 94 Inspectorial Staff and 46 indoor staff. The Chief Inspector is in charge of the department.

The total number of Establishments registered under the Bombay Shops and Establishments Act, 1948, were 2,31,877 and their classification is shown in Appendix 'A'.

The total complaints received during the year were 1,017 out of which, 894 were disposed of as detailed in (Appendix 'B').

Similarly total number of prosecutions launched under the Bombay Shops and Establishments Act, 1948, during the year were 14,202 and 15,540 prosecutions were decided and fine of Rs. 7,75,640 was inflicted.

This year the State Government have not sanctioned grant-in-aid for the year 1980-81 as there was no surplus of expenditure over income for the administration of the Shops and Establishments Act, 1948, for the said year.

The total expenditure incurred on different activities of this Department during the reporting year amounted to Rs. 24,64,480.00 P. (exclusive of Provident Fund Leave Contribution and Supervision charges). As against this, the total income by way of Registration etc. fees during the year was Rs. 26,86,052.30.

The total number of visit paid to the Establishments for the purpose of the enforcement of Minimum wages Act, 1948, during the year under report were 8,379 out of which 4,041 were for Shops, 3524 for Commercial Establishments, 793 for Residential Hotels, Eating Houses and Restaurants and 21 Theatres.

As a result of intervention of Inspectors of this Department an amount of Rs. 1,83,799.34 was distributed to 796 employees of different Establishments by way of increase in wages, differences, etc. Due to efforts of Jr. Inspector Shri H. V. Mayekar of G/South Ward, 18 employees of a commercial establishment were benefitted to the tune of Rs. 28,388.75 P. during the year, by way of difference in rates of Minimum Wages.

In all 1,317 Mass Raids were held during the year for the purpose of enforcement of the provisions of the Bombay Shops and Establishments Act, 1948 and Minimum wages Act, 1948.

APPENDIX 'A' Registered Establishments.

Category.	City	Suburbs	Exte. Subs.	Total.
1 Shops	79,789	43,557	15,154	1,38,500
2 Commercial Establishments ..	60,258	13,628	7,823	81,709
4 Restaurants & Eating Houses. ..	5,776	3,847	948	10,571
3 Residential Hotels.	738	148	38	924
5 Theatres, etc.	93	57	23	173
Total	1,46,654	61,237	23,986	2,31,877

APPENDIX 'B'

Complaints Received.

	Complaints.											
	Outstanding at the beginning.			Received during the year.			Investigated during the year.			Pending at the end of the year.		
	City	Sub.	Ext. Sub.	City	Sub.	Ext. Sub.	City	Sub.	Ext. Sub.	City	Sub.	Ext. Sub.
(1) Shops & Estts. Act, 1948.	48	16	16	574	159	72	535	161	74	87	14	14
(2) Payment of wages Act, 1936	1	..	..	82	...	..	82	...	...	1	..	..
(3) Minimum wages Act 1948	3	1	...	35	8	2	34	7	1	4	2	1
(4) Workmen's Compensation Act. 1923	..	..	..	..	...	..	..	...	..	..	..	..
Total..	52	17	16	691	167	74	651	168	75	92	16	15

V. R. SARANG,
Chief Inspector, Shops and Establishments.

MUNICIPAL GARDENS

Salient Features

(1) Income	..	Rs.	7,70,700.00
(2) Expenditure	..	Rs.	7,21,51,130.00
(3) Amount spent on the Zoo	..	Rs.	(Including Loan Works) 12,77,125.00
(4) Expenditure on New Works and Special Repairs	..	Rs.	(Exclusive Estt. Cost) 82,32,750.00
(5) Recreational activities added during the year 1981-82.			
(1) Gardens	..		12
(2) Playgrounds	..		20
(3) Fountains	..		2
(4) Band Stands	..		..
(5) Traffic Islands	..		15
(6) Nurseries	..		3
(7) Plant Sale Counter	..		..
(6) Tree Planted	..		8154 Nos.
(7) Plant distributed	..		65000 Nos.

The Garden Department looks after the recreational activities of the Corporation and maintains 278 gardens, 143 playgrounds, 25 gardens attached to Municipal Buildings, 55 Traffic island gardens, 59 Water Fountain, 12 Band-Stands, 19 Nurseries and 4 sale counters all over Greater Bombay.

Veer mata Jijabai Bhosle Udyan which is centrally located has remained one of the best attractions to the visitors as it was in the past. Joy rides, shady trees and modern play-apparata installed in the garden remained the attraction of the children.

ZOO.

During the year under report we have achieved a good record in breeding the important animals like Hippopotamus, Nilgai, Sambar, Spotted deers, Albino Black Buck, Indian Antelope, Barking deers and birds like peacock and painted stork etc. 4 Lions, one leopard, two striped Hyenas, Five Spotted deers, one nilgai, one Hippopotamus, two sambar deers, two Indian Antelopes, Twenty Muscovy ducks, two paryedstes, three black swans, ten brahminy ducks, five demacelve craners, and two hundred snakes were added to the Zoo during the year.

Regular annual painting, maintenance of the cages, planting of trees in the cages and enclosures to offer shade and natural environment to the animals, breeding facilities for the birds and animals were provided as was done in the past. Preventive maintenance of the live stock has been the key note during the year. The Zoo dispensary is maintained to provide for emergency.

During the year under report an amount of Rs. 12,77,125/- was incurred on Zoo as against the budget provision of Rs. 13,65,000/-

Within the limited area of about 18 acres, 198 animals of 40 varieties, 680 birds of 100 varieties and 500 reptiles of 15 varieties were displayed in 15 cages for the visitors.

Open Air Theatre.

The Open Air Theatre was hired out to the public on reasonable rent on 166 occasions for drama, social gatherings etc. The theatre is becoming popular day by day.

During the year under report 12 gardens, 20 playgrounds, 15 traffic islands, 9 rockeries, and 2 fountains were added.

The existing gardens and playgrounds in the City, Eastern and Western Suburbs were maintained properly.

Fountains.

59 fountains were run throughout the Greater Bombay. The fountain with multicoloured lights provided at Madhu Park, Nanda Deep, Kasturba Chowk, Horniman Circle, Acharya Udyan, Dr. Ambedkar Udyan, Netaji Subhash Chandra Bose Udyan and a row of fountains in Acharya Udyan, Chembur are other attractions of the Bombay ites.

During the year under report a massive tree plantation programme was undertaken to combat the evil effects of air pollution faced in major parts of the city and 8154 trees were planted : 2770 trees in City, 3100 trees in Western Suburbs and 2284 trees in Eastern Suburbs.

As a part of grow more tree campaign 65,000 trees were distributed free of cost to Co. Op. Housing Societies, Public Trusts and Institutions, Educational Institutions etc. Technical guidance for scientific plantation and maintenance of trees was also rendered.

(1) Maintenance of Gardens and Playgrounds.

Description	City	Western Suburbs	Eastern Suburbs	Total	Remarks
(1) Gardens	.. 146	80	52	278	
(2) Playgrounds	.. 89	34	20	143	
(3) Gardens attached to Municipal Buldgs.	18	4	3	25	
(4) Fountains	.. 33	11	15	59	
(5) Band Stands	.. 6	3	3	12	
(6) Box Hedges	.. 1	1	..	2	
(7) Statues	.. 10	1	4	15	
(8) Traffic Islands	.. 47	7	1	55	
(9) Nurseries	.. 7	7	5	19	
(10) Sale Counters.	.. 1	1	2	4	One counter in the Western Suburbs is closed as there is no sale.
(b) Planting of Trees	.. 2770	3100	2284	8154	

(J. C. GARKHEL),
Supdt. of Gardens

MUNICIPAL FREE READING ROOMS & LIBRARIES

There were 30 Municipal Free Reading Rooms and Libraries (including one Circulating Library). Out of these 25 libraries (19 on Div.-I and 6 on Div.-II) were managed by the Mumbai Marathi Grantha-Sangrahalaya as per C. R. No. 1822 of 17-3-1981. The remaining five libraries (four on Div. I and 1 on Div. II) were managed by the Municipal Corporation of Greater Bombay.

The Weekly off of the Municipal Free Reading Rooms and Libraries under the Municipal management was changed from Monday to Wednesday under C. R. No. 1254 of 11-12-1980, (Effect to the change given from 22-4-1981 (Office of the Chief Librarian) and 16-9-1981 (Libraries)).

The details of books purchased, number of visitors, income and expenditure etc.

Particulars	Division I.		Division II.	
	1980-81	1981-82	1980-81	1981-82
Books Purchased ..	320	287	289	236
Cost of the books (excluding discount) Rs.	4,675	4,777	4,064	4,361
Number of Visitors ..	56,462	@28,687	23,925	27,253
Income Rs.	9,420	*461	3,337	4,911
Expenditure excluding grant paid to the M. M. Grantha Sangrahalaya. Rs.	1,33,141	1,29,405	38,590	39,230
Grant paid to the M. M. Grantha Sangrahalaya. Rs.	1,39,000	2,53,000	36,000	96,000

@ Sobani Library was closed to the public from 25-6-1981 onwards as some portion of the building collapsed and repairs were undertaken by the contractor of the tenents with the consent of the Repairs Board. Khatry Library was also closed to the public from 17-10-1981 onwards as repairs were unertaken by the contractor of the Repairs Board.

* The question of recovery of compensation was under dispute hence the amount is less.

V. N. BARVE,
Chief Librarian i/c.,
Municipal Free Reading Rooms and Libraries.

Dr. Bhau Daji Lad Museum (ESTD-1855)

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 containing specimens of Indian Textile are also made available for reference/perusal on request.

The work of preparing one album of positives from the negatives on Old-Bombay was completed.

In order to get rid of the plantation growing on the Museum building 'Globe Tree Killer' was used. The Museum was got painted from outside.

A note on the regular working of the Museum was prepared for guidance and reference of the Museum staff.

As per C. R. No. 1544 of 12-1-1982 the Admission Fee of the Museum was revised from 10 paise to 20 paise per visitor above 12 years of age; the benefit of free admission was extended to (i) Handicapped persons (ii) Mentally retard persons and (iii) to the members of the staff accompanying K. G. and Primary students. The students from secondary schools coming in groups by giving prior intimation are given the benefit of concessional rate of 10 paise per head. The revision was given effect from 1-3-1982.

As per C. R. No. 1254 of 22-4-1981 the weekly off of the Museum was changed from Monday to Wednesday. The change was given effect from the week commencing from 19-4-1981 (i.e. from Wednesday the 22nd April 1981).

The details regarding the Number of visitors, sale proceeds of Admission-Tickets, Total Expenditure etc.

Particulars	1980-81	1981-82
The number of days Museum was kept open	301	291*
Total Number of visitors	8,79,028	8,49,165*
Sale proceeds of Admission Tickets	Rs. .. 54,960.00	52,858.20*
Sale proceeds of Museum Guides & Minor Receipts	Rs. .. 1,002.75	1,590.75
Fees for taking photographs of exhibits etc.	Rs. .. 194.00	788.00
Sale proceeds of scrap, waste papers etc.	Rs. ..	73.50
Receipt of grant from the Central Government	Rs. .. 2,250.00	..
Total expenditure (Excluding the amount spent from the grant from Central Govt.)	Rs. .. 1,48,397.00	1,14,818.00

* The Museum was kept closed to the public for 11 days as the work of oil-painting the building externally was carried out.

V. N. BARVE,
Curator,
Dr. Bhau Daji Lad Museum.

C. L.

MUNICIPAL SWIMMING POOL

All the four Municipal Swimming Pools in Greater Bombay viz. Mahatma Gandhi Memorial Olympic Swimming Pool at Dadar, Ghatkopar Lions Municipal Swimming Pool at Ghatkopar S. V. P. Swimming Pool at Kandivali, & Nirlon Olympic Municipal Swimming Pool at Goregoan were fully utilised by the public during the year under report. The number of casual Swimmers and the regular members are on increased scale from year to year. Concessional facilities for the school students were adequately utilised by school.

29th Anniversary of the M. G. M. O. Swimming Pool was observed on 28-6-81 by holding swimming competitions amongst the members of all the four Municipal Swimming Pools as the M. G. M. O. Swimming Pool was closed for repairs in the month of April 1981.

National Open Aquatic Championship was held at Madras from 14th Nov. 1981 to 17th Nov. 1981. Seven members of M. G. M. O. Swimming Pool participated in the National Open Aquatic Championship. Three members participated in the Age Group National Aquatic Championship, held at Calcutta from 30-11-81 to 7-12-81. Seventeen members participated in Bansilal Agarwal Aquatic Tournament held at Pune from 5th to 7th Feb. 1982

M. G. M. O. Water Polo League Tournament was held at M. G. M. O. S. Pool in July 1981.

Financial

Swimming Pool	Income	Expenditure
	Rs.	Rs.
(1) M. G. M. O. Swimming Pool	4,07,624	4,56,928
(2) S. V. P. Swimming Pool, Kandivli.	2,71,685	2,64,904
(3) Ghatkopar Swimming Pool	1,90,568	2,33,103
(4) N. O. M. S. Pool, Goregoan	78,454	2,08,917

Swimmers.

Swimming Pool	New Admissions.	Casual Swimmers.	School children	No. of Institutions.	Private Reservations.
(1) M G. M. O. Swimming Pool	7264	65800	1679	11	113 Hrs. With Revenue of Rs. 6,476/-
(2) S. V. P. Swimming Pool, ... Kandivali.	3200	73500	3029	25	188 Hrs. With Revenue of Rs. 11,384.50
(3) Ghatkopar Swimming Pool ...	2374	29206	807	3	10 Hrs. With Revenue of Rs. 520/-
(4) N. O. M. S. Pool Goregoan ..	1570	20280	33	4	74 Hrs. with Revenue of Rs. 1924/-

R. S. RANE,
Manager,
M. G. M. O. Swimming Pool.

Raja Dr. Baldeodas Birla Kreedā Kendra

Raja Dr. Baldeodas 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 loudspeakers with six microphones etc, required for staging dramas or musical concerts. The auditorium has a seating capacity of 625 pushback type chairs. The auditorium is rented to various organisations and individuals for staging dramas, musical entertainment, social functions, meetings etc.

Children Hall and Boat House are also rented for drama rehearsals, meetings, Rangavali exhibitions.

Municipal Departments arranged their programmes at Birla Kreedā Kendra. These included :-

- (a) Inter-Ward & Inter Department Dramatic Competitions, organised by Labour Department of Bombay Municipal Corporation.
- (b) Sports and Guide meetings of Education Department.
- (c) Exhibition of articles made at Balbhavan Centres.
- (d) Prize distribution functions of Education Department and Health Department.
- (e) Gathering & other functions of Municipal Medical Colleges & Hospitals.

Birla Kreedā Kendra has a first grade Restaurant on its premises. It is open to the audience as well as to the public. Terrace garden is visited by the Public for sight seeing. The Garden is also rented for marriage receptions, lunches and dinners.

During the year under report the Auditorium, Boat House, Children Hall and Garden were booked as under :-

1. Auditorium	..	618 Sessions,
2. Boat House	..	776 Sessions,
3. Children Hall	..	616 Sessions,
4. Garden	..	324 Sessions.

Professional drama producers and orchestra Producers are taking advantage of Auditorium, Children Hall and Boat House for staging dramas, orchestras and for rehearsals,

An amount of Rs. 2,63,160.00 was collected by way of revenue and an amount of Rs. 3,28,183.00 (approximate) was expended on salary of Staff and other items of maintenance.

J. S. SATAM
 Manager,
 Birla Kreedā Kendra.