



BOMBAY METROPOLITAN
REGIONAL PLANNING BOARD

REPORT OF THE
STUDY GROUP ON
MOGGRAPHY

2311.N7

I. Constitution of the Study Group

I.1. The Bombay Metropolitan Regional Planning Board in its third meeting held in Bombay on 14th. November, 1967 decided to constitute a Study Group to Study the demographic aspects of the Region from point of working out the projected population of the Region over a period of 30 years which would serve as an indicator of the extent of the problem of metropolitan regional planning for the Bombay Metropolitan Region.

I.2. Accordingly the Study Group on Demography was formed with the following three members, namely:-

1. Shri S.V. Desai, Chairman of the Study Group,
2. Shri J.G. Keskar, as Member-Secretary,
3. Dr. S.N. Agarwala, Director, DTRC, Chembur as Member.

The first meeting of the Study Group was held on 16th. December, 1967 from which date the Study Group actually started functioning. The Study Group held four meetings upto the end of April, 1969. The Study Group received the valuable assistance from Dr. Vaidyanathan of the Demographic Training & Research Centre (DTRC).

(a) to give on a priority basis within a month of so a tentative forecast of the Region's population at five year intervals upto 1991.

(b) to give more detailed forecasts of population on alternative assumptions;

(c) analyse immigration trends;

(d) give a breakup of projected population by ages and sexes;

(e) study labour participation ratios and project them, study current occupational patterns and project them;

(f) give a breakup of projected population into urban and rural and also to project the population of each urban centre in the region;

(g) suggest measures for controlling the population of Gr. Bombay;

and (h) other important demographic aspects, if any.

I.4. The Study Group referred to the following documents/papers/reports for its deliberations;

(a) District Census Hand Books of the 1951 & 1961 Censuses for Gr. Bombay, Thana and Kolaba Districts.

(b) Migrants in Gr. Bombay 1951-61 by Dr. Zachariah, of DTRC.

(c) Life tables (1951-60) prepared for Western Zone by the Registrar General of India.

(d) Population Projections for Maharashtra State-1951-81 by Shri R.E.Choudhery and Dr.Ramchandran of DTRC.

(e) Gadgil Committee's Report on Bombay and Poona Regions.

(f) "Population Projection needed for planning and policy making" by Dr. K.C. Zachariah.

(g) "Estimating Decade internal Migration in the cities from census data"Dr. S.N. Agarwala.

I I.5: According to the term of reference stated in para I.3,(a), the Study Group has worked out tentative forecast of the Region's population at five year intervals upto 1991, within a period of four months. These estimates were, however, afterwards revised.

II. Demographic features of the Region

II.1. Region and its population in 1961:-

The Bombay Metropolitan Region which is bounded on North by Vaitarna Creek and the taluka boundaries of Bassein and Bhiwandi along the river Tansa on East by Sahyadiri ranges, upto and including Khopoli in the Region, on South by the Patalganga river and on the West by the Arabian Sea is spread over about 3860 sq.km. of land comprising of 940 inhabited villages and 18 Towns besides Gr. Bombay. The Region had a population of 52.8 lakhs in 1961 of which about 46.4 lakhs was urban and 6.4 lakh was rural. The Region though hardly 1.2 percent of the state in Area, has almost 13.4 percent of the State's total population and almost 41.6 percent of urban population of Maharashtra. Whereas in the State the urban population forms only about 28 percent of the total state's population it is about 88 percent (including Gr. Bombay or about 43 percent excluding Gr. Bombay) in the Region thereby indicating the extent of urbanisation reached in the Region.

II.2 Settlement Pattern in the Region:-

The distribution of the population within the Region is of such an uneven character -- that whereas only 438 sq.km. of Gr. Bombay account for 41.5 lakh persons, the remaining about 342259km. of the Region contain only about 11.3 lakh persons in a hierarchy of big and small towns and villages. Of the 11.3 lakh population in the Region outside Gr. Bombay about 27.4 percent live in small villages of size below 1000 population another about 26 percent live in slightly bigger villages of size between 1000-4999 population; only about 3.2 percent live in villages of size above 5000 population and the remaining 43.3 percent live in 12 towns of size below 20,000 population, 3 towns of size between 20,000 to 49,999 population, 1 town of size 50,000 to 99,999 population and in 2 towns of size of 1,00,000 and above population. The Gadgil Committee on Regional Planning for Bombay and Poona Metropolitan Region observes in its report "The bigger of these Urban Centres namely, Thana, Kalyan and Ulhasnagar are situated in the close proximity of Greater Bombay. The area within the Salsette Island including Thana and Bhayander is in fact a continuous urban agglomeration while the area beyond upto Bassein on the W.Rly, Bhiwandi along Bombay-Agra Road and Ambernath along the C.Rly could be termed the peri-urban zone". "The rest of the Region which would be peripheral or rural zone contains 6 urban centres of population range from 2000 to 8000".

II.3. Variation in Population Densities in the Region:-

The Regional density of population is 1368 persons per sq.km. as against the State's average density of 129

per sq.km. The densities in all the talukas falling within the limits of the Bombay Metropolitan Region which ranges from 155 persons per sq.km. in Khalapur Taluka to 610 persons per sq.km. in Thana Taluka are much higher than the State's average density of 129 persons per sq.km. The average density in Gr.Bombay is about 9,486 persons per sq.km. which is almost three times the average density in the Region excluding Gr.Bombay. In the urban areas of the Region it varies from 673 persons per sq.km. in Karjat taluka to 5594 persons per sq.km. in Kalyan Taluka and upto 9,486 in Gr.Bombay and 11617 in Bhiwandi taluka. "Even within Gr. Bombay the population densities are again very uneven which vary from 6 persons per acre in 'R' ward to 769 persons per acre in 'C' ward in 1961" as is observed by the Gadgil Committee on Regional Planning in its report.

II.4. Growth of population during 1951-61:-

The Bombay Metropolitan Region had a population of about 38.4 lakh in 1951 which increased to 52.8 lakh during the decade 1951-61. The decade rate of growth of population in the Region was about 37.5 percent as against the growth of 23.6 percent in the State's population. The urban population of the Region which was about 87 percent of the Region's total population in 1951 grew by 39.2 percent i.e. faster during 1951-61. The urban areas in the talukas of Thana, Kalyan and Bhiwandi had a faster growth of population than the growth of population in Gr.Bombay during 1951-61. Whereas population in the towns in Bhiwandi, Thana and Kalyan talukas grew by 84.9 percent, 53.1 percent and 41.8 percent respectively in 1951-61, the corresponding growth in the population of Greater Bombay was only 38.7 percent. This trend during the decade 1951-61 exhibits physically expanding urban agglomeration at the doorstep of the Metropolitan City of Bombay along the main trunk routes Bombay-Poona Rly. link and the Bombay-Agra Road. Another significant feature of the 1951-61 growth in the Region's population is that the rates of growth in the urban areas of talukas of Panvel, Karjat and Uran were lower than those in the rural population of the corresponding talukas during the same period. In other words the urban centres in the Kolaba district within the Bombay Metropolitan Region which have the characteristics of almost "Service Towns" have not attracted much growth, during the decade 1951-61 although they were within 30 miles reach from the metropolitan city of Bombay.

II.5. Net-migration in the Region during 1951-61:-

The estimates of net migration in urban areas in different parts of the Region during the decade 1951-61 has been worked out by "Census Survival Ratio" method. The 1951 population surviving by 1961 in different age groups is worked out by applying the survival ratios worked out by Shri Shastri of DIRC for Gr.Bombay. The surviving population

so arrived at for a town is then deducted from the actual population enumerated for that town during 1961 Population Census to get the estimates of net-migrants within different age groups during 1951-61. This method is described in detail in the Appendix to this report. The net-migration rates are worked out only in respect of urban area of the Region. The net-migration in the urban areas of the Region is observed to be varying from about - 2.2 percent in towns in Bassein Taluka to 31.5 percent in towns in Kalvan taluka. In Gr.Bombay, the net migration during the decade 1951-61 is observed to be about 14.1 percent. The published work of Dr. S.N. Agarwala on the rates of net migration for three metropolitan cities in India show that the rate was about 30 percent in Gr.Bombay during the decades 1931-41 and 1941-51. In other words the net-migration in the metropolitan city of Bombay declined by almost half during last decade. Dr. Zacheriah in his treatise on the "Migrants in Bombay" has also come to the conclusion that the rate of migration in Gr.Bombay has declined during 1951-61 and he has in his study attributed this fall in rate of migration to reasons such as slowing down in employment opportunities, shift in the industrial structure of the city from the less organised to more organised and capital intensive industries and the Return of the earlier migrants above 35 years of age. He observes in his study "The census showed that the net migration in Bombay decreased from 9,50,000 during 1941-51 to 600,000 in 1951-61. This decrease in the net-migration is probably due to slowing down in employment opportunities. The new industries which came up during 1951-61 were more capital intensive and hence created few employment opportunities. Concomitantly, some of the established factories rationalised their production process and freed workers for other industries. Thus a shift in the industrial structure of the city, from the less organised to more organised and capital intensive industries, seems to be major cause of the decrease in net-migration to Bombay. The shift in the industrial structure of the city, from the less organised to more organised and capital intensive industries, seems to be major cause of the decrease in net-migration to Bombay. The decade 1941-1951 was of expansion for Bombay whereas the decade 1951-61 was of consolidation.

Out-migration of earlier migrants from Bombay was heavy, particularly during the first few years of their stay in the city and especially of those above 35 years of age. The rate of outmigration among persons enumerated at Bombay in 1951 was 18 percent for males and about 13 percent for females during 1951-61. This rate was even upto 30 percent per decade among males of 30 years and above. Among the females this rate was relatively higher at ages 15-19 years suggesting importance of marriage factor in the outmigration of females. The rate of net out-migration from Bombay during 1951-61 at ages 35 and over was relatively more than that in the previous decade. Among the recent migrants the rates of reverse migration were higher than among those with long duration of residence. Also the rates of reverse migration were relatively higher for migrants born in the surrounding states of Maharashtra and Gujerat born for these who were

born in more distant states such as U.P. or Andhra Pradesh". Thana and Bhiwandi towns which emerged as major job centres after 1951 have obviously attracted more migrants (net migration 20.9%) in Thana and 28.3 percent in Bhiwandi) than any of the other Urban centres in the Region. Also being almost practically a suburb of the great metropolitan city of Bombay, Thana has attracted the migrants who have their work place in Bombay. This town has further potentialities of growing into 'A' class city considering "push" factor from Gr. Bombay and the "pull" factor due to large scale industrialisation taking place on its outskirts and across the creek. Among the other towns, Ulhasnagar which is sandwiched between the industrialisation at Kalyan-Mohone and Ambernath has the potentialities of growing into a big city although the Net-migration to this town during 1951-1961 is observed to be only about 7.0 percent. The declining trends in the net-migration rate are carried forward while projecting the population of different parts of the Region over a period of 30 years i.e. 1961-91. The estimate of projected population in the Region its sex and age group composition and the estimates of potential labour force by 1991 in the Urban areas of the Region are discussed in section III of the Report.

III. Population Projection

III.1. Three sets : low, medium and high-of estimates of projected population of the Region are worked out, based on three different assumptions.

Projected population figures are worked out for 1966-91 with the following three sets of assumptions:

a. 10% reduction in the rates of natural increase and net migration for every subsequent 5th year.

b. 5% reduction in the rates of natural increase and net migration for every subsequent 5th year.

c. 5% reduction in the natural increase with no change in the rate of net-migration, observed during 1951-61 decade.

Results for (a) & (b) are available by age and sex while those for (c) are available for total, figures for rural areas are not changed due to changes in migration.

The first net provides the low estimate, the second set gives the medium while the third set gives the high estimate of the projected population in the Region.

Projections worked out for different parts of the Region:-

Considering the present industrialisation and the scope for future industrialisation within the Region, the population projections for urban and rural areas are worked out independently for different parts of the Region such as:

Urban Areas

1. Greater Bombay
2. Thana town
3. Kalyan town
4. Ulhasnagar town
5. Urban Thana taluka
(except Thana town)
6. Urban Kalyan taluka
(except Kalyan &
Ulhasnagar)
7. Urban areas in Bassein taluka
8. Urban areas in Bhiwandi taluka
9. Urban areas in Panvel taluka
10. Urban areas in Uran taluka.
11. Urban areas in Karjat taluka.

Rural Taluka

12. Rural-Thana taluka
13. Rural-Kalyan taluka
14. Rural-Bassein taluka
15. Rural-Bhiwandi taluka
16. Rural-Uran taluka
17. Rural-Panvel taluka
18. Rural-Karjat taluka
19. Rural-Khalapur taluka

* for the part included in the region.

Classification of areas is done on the basis of boundaries defined during 1961 census.

Position by 1991:- The Region's population which is about 52.8 lakh in 1961 is expected to reach a formidable figure of 109 lakh (under assumption(a)), 125 lakh (under assumption (b)) and 135 lakh (under assumptions (c)) by 1991. Urban population is expected to increase from 46.4 lakh in 1961, to about 98 lakh (under (a)) and 113 lakh (under (b)) and 123 lakh (under (c)). Rural population, which is 6.4 lakh in 1961, is expected to increase to 10.5 lakh (under (a)) and 11.6 lakh (under (b)). Population of Greater Bombay, which is about 41 lakh in 1961 would reach a threatening figure of 85.6 lakh (under(a)), 98.0 lakh (under (b)) and 106.2 lakh (under(c)) by 1991.

Comparison with projected population by other agencies:-

Population projection figures are previously worked out by Gadgil committee for the Bombay Metropolitan Region and also separately for Gr.Bombay, upto 1991. A set of figures are also worked out for Gr.Bombay by the Demographic Training Research Centre (DTRC) for census Department and on other set of figure are worked out by the Regional Transport Survey Unit (RTS) Finance Deptt. Government of Maharashtra, upto the year 1981. Their figures of projected population of Gr.Bombay and also for the Region are presented below for comparison with those worked out by the Study Group in this note.

Projected Population for Bombay Metropolitan Region & Gr. Bombay 1966-91

Year	Bombay Metropolitan Region						Greater Bombay			
	Study Group			Gadgil committee	Study Group			Gadgil committee	DTRC	RTS
	low	high	medium	ee.	Low	high	medium	tee		
1966	61.38	62.10	61.88	61.32	48.39	48.98	48.78	47.69	49.93	49.74
1971	70.38	72.82	72.03	69.26	55.58	57.59	56.89	53.94	58.50	59.36
1976	79.70	85.17	83.32	78.25	63.00	67.45	65.86	60.86	67.53	70.17
1981	89.25	99.41	95.82	88.34	70.55	73.73	75.71	68.71	76.94	80.82
1986	98.91	115.80	109.57	99.53	78.13	91.61	86.44	77.48	Not worked	
1991	108.59	134.70	124.61	111.83	85.68	106.26	98.07	87.18	out.	
Year in which computed	-----1969-----			1966	-----1969-----			1966	1961	1966

Differences in the estimates are due to the differences in the methods adopted and in the assumptions made in projecting population. The figures of projected population for the Region worked out by the Study Group under assumption (a) are fairly comparable with those worked out by the Gadgil committee, whereas the figures of projected population, worked out by the Study Group for Greater Bombay under assumption (b) are fairly comparable with those worked out by DTRC for Census Deptt.

III.2 Sex and Age group composition of the Projected Population:

The sexwise breakup of the projected population for the year 1966-1991 is worked out on the following assumption:

i. that the sex ratio for Greater Bombay in terms of no. of females per 1000 males would increase linearly from 663 in 1961 to 700 in 1981 and 720 in 1991.

ii. that in other parts of the Region the sex-ratio would remain more or less the same as in 1961.

Although no definite trend in the figures of sex-ratio for Bombay is observed during the period 1901-1961 the Study Group expects that the sex-ratio would increase linearly from 663 in 1961 to 720 in 1991 in favour of females.

The age composition of the projected population of Gr. Bombay, Rest of Urban areas and of Rural areas in the Region for the year 1966-91 has been obtained on the assumptions that the percentage of population in the three age-groups, namely, 0-14, 15-59 and 60 +, in each of above mentioned Urban or Rural part of the Region would change with the corresponding changes in the percentage of State's population* in the three age-group during the period 1966-91 at the level of 1961 actuals. In other words if within a age-group 0-14 the ratio of percentage of population in Gr. Bombay to the percentage of State's population is K and if the projected percentage of State's population within age group 0-14 for the year 1966 is x66, the projected percentage of Gr. Bombay's population within 0-14 age-group for 1966 would be approx. K times x66. The procedure is repeated to determine projected percentage pattern of population for different age-groups for different years separately sex-wise for Gr. Bombay, Rest of Urban and Rural parts of the Region. The percentage pattern so arrived at is applied to the Region's sex-wise projected population to get the projected population within different age-groups sex-wise, for different parts of the Region and hence for the Region as a whole for the years 1966-1991. The Study Group after taking into consideration the limitation of the method employed by the group for obtaining figures by age for broad areas came to the conclusion that it would not be appropriate to utilise this method for

obtaining similar data for small areas like towns or villages. The projected age-groups structure for the population of different parts of the Region is given in the table no.3. It will be seen from the table that age-wise population has been worked out and it has been found that during the period 1961-91 changes in the percentage of population belonging to the younger age-groups and working age-groups are minor.

III.3. Urban Labour force by 1991:-

Labour force or the persons available for work include working persons or the persons in employment plus the persons out of employment but seeking jobs plus the new entrants in the labour force or the persons who are seeking jobs for the first time. According to the Population Census 1961 about 41.8 percent of the total urban population in the region were available for work. In other words the urban Labour force in the Region formed 41.8 percent of the total urban population in the Region. In Gr. Bombay the labour force formed 42.5 percent of the total population in 1961. This percentage of the Potential working force to the total population is termed as a "Labour participation Rate". Censuses are normally the main source of information on population and its demography and economic characteristics. But none of the Population Censuses prior to 1961 give the labour participation rates for any part of the Region owing to defective definition and concepts for compiling the labour force statistics. Only few countries in Asia have data on participation rates. There are two possible approaches for projecting the labour participation rates. In the first approach the past trend in the participation rates is projected using mathematical formula such as an Exponential function. But due to non-availability of the data on participation rates for earlier censuses this approach is not useful. In the second method the future participation rates are not projected. But are only estimated by assessing the probable effects of expected changes in the social and economic setting. This approach is reported to be used in some of the Asian Countries like Ceylon and Phillipines, recently. The study group has adopted this second method for estimating the future participation rates for the urban areas of the Region. The estimates of future labour participation rates within the age groups 0-14, 15-59 and 60 + are worked out separately for Males and Females on the assumptions that:-

1. The participation of the young people (within age group 0-14) would decline by 30% i.e. at the rate of 1 percent per annum among males and by 50% among females over a period of 30 years from 1961 due to factors such as increase school and college attendance expected due to increased educational facilities in the Urban areas of the Region.

ii. The participation within age group 15-59 is not likely to vary much because the rates for ages between 25-55 are usually remarkably stable in any developing or a developed country where as the rates for the younger and older age group vary with the stage of economic development. In a developing country the participation rate for males in age group 15-59 vary 70% to 90% and hence the Study Group feels that the rate within this age Group which is 89.7% (males) for the Urban population in the Region in 1961 would not go below the 1961 level. Similarly the assumption for estimating the participation rate for females is that it would not decline below or appreciate above its 1961 level, which is 14.6 percent for this age-group.

iii. As there are new entrants in the Labour force in the earlier two age groups there are withdrawals due to retirement, deaths etc. from the labour force in the older age group i.e. 60+ The rate of withdrawal due to death at age corresponds to the probability of death at age X for the general population. Therefore the former i.e. the rate of withdrawal is likely to decline with the increased chances of surviving and with better and increased medical and public health facilities. The prolonged life of a man/woman with the need for the older people to earn their living to help family meet their both end during the days of dearer living if would not appreciate the participation rate beyond it's 1961 level for this age-group it would at least remain stable at the 1961 level. The Study Group has, therefore assumed that the participation rates for males and females in the older age-group would remain stable at their 1961 level i.e. 53.0% for males and 7.4% for females over a period of 30 years from 1961. According to the assumption made separately for males and females in different age groups the labour participation rates for the urban population 1991 are worked out to be 64.3 percent for males and 9.3 percent for females or about 40.5 percent for the total population. The estimates of labour participation rates for the population of Gr. Bombay in 1991 are 64.3 percent for males, 9.2 percent for females and 41.2 percent for the total population. Accordingly the urban labour force in the Region by 1991 would range from 40 to 45 lakh workers. The details are given in Table 10.

III.4. Occupational and Industrial compositions of the Urban labour force

The object of projections of the total labour force is to provide basis for projections of the members of workers in various occupational groups and industrial sectors for the purpose of economic planning. But the analysis involving projection of workers in various occupational groups and industrial sectors is primarily non-demographic in character and depend mostly on non-demographic factors. Therefore the study group feels that projection of workers according to different industry-occupation is beyond its scope and would leave it to its counter part on Industry.

IV. CONCLUDING REMARK

IV.1. The Study Group has worked out a set of three population projections for the Region and for Greater Bombay by age and sex for the period 1966-91. These projections have been worked out with considerable care and on the basis of information available with the group. The group, however, wishes to point out that the projected figures should not be considered as absolutely reliable and there would be need for looking into the various assumptions after the results of 1971 census become available.

IV.2. The estimates of future population for different Urban centres including the metropolitan city of Bombay as worked out by the Study Group under different assumptions only indicate the extent to which the growth of population in the respective urban centres would take place in the next 30, years if no measures are taken to disperse this growing population over the Region. However, to give any guidelines for effecting such a dispersal of population over the Region is outside the scope of the Study Group on Demography.

IV.3 The Study Group took into consideration the family planning programme which is being carried out in Gr. Bombay and in Maharashtra State and the new programmes and policies which have been initiated since 1967. The Group does not find it possible to predict with any exactitude the likely trend of birthrate as a consequence of the family planning programmes and policies. But it feels certain that the likely course of future birthrate would be covered by one of the three sets of population projections which the Group has prepared.

IV.4. It may be noted that net-migration was responsible for about 40% of the growth of Gr. Bombay during 1951-61 decade. There is evidence to indicate that there was a substantial decrease in net-inmigration during 1951-61 decade as compared to the 1941-51 decade. The future trend of net-inmigration remains uncertain and cannot be predicted with great precision. It, however, appears that Gr. Bombay, which is a premier metropolitan city of India will continue to attract migrants. The Group suggests that no measures be taken to limit migration into Gr. Bombay but areas around Bombay should be developed to diversify the population in order to avoid undue concentration of population in Gr. Bombay.

APPENDIX TO THE REPORT OF THE STUDY GROUP
ON DEMOGRAPHY

Methodology

1. Population Projections:- Bombay Metropolitan Region is first divided into urban and rural parts, urban areas is further divided into eleven parts separating important towns and urban parts in each talukas, Rural area is divided into eight parts, considering separately rural part in each taluka. The whole Region is thus divided into 19 parts as shown in para. III. 1 of the Report.

Population projections are worked out separately for each of the above 19 parts, for every 5th year starting from 1966 to 1991 on the basis of population growth observed during 1951-61 in each part. The method is explained in the following paras.

In case of urban areas growth in population is composed of (i) Natural growth (i.e. the difference in births and deaths) & (ii) Net migration (i.e. difference in in-migrants and out-migrants). Figures of net-migrants are worked out by applying to the urban population in 1951, the survivorship ratios (1950-1961) computed for Gr. Bombay by the Demographic Training & Research Centre, Chembur-Bombay and utilised by Dr. Zachariah in the treatise on the "Migrants in Bombay". Net migrants are obtained by deducting population surviving in 1961 from the actual census population 1961.. Rates for (i) Natural growth and (ii) Net migration are computed separately by compound method.

For rural areas, rate of growth is computed considering the total growth of population during 1951-61. Here the change due to migration is not considered as its magnitude is not significant unlike in urban areas.

By applying these rates to the actual population of 1961 census, projected population figures are worked out for 1966-1991, with the following sets of assumptions of changes in the rates for natural growth and net-migration.

Assumption: (b) 5% reduction in the rates for every 5th year. Assumption (a) 10% reduction in the rates for every 5th year. Figures under assumption (a) and (b) are worked out separately for males and females and then totals are obtained.

Assumption:(c): 5% in the natural growth every 5th year and no change in the rates of migration.

Figures under assumption are worked out for total population in each part of urban area. As the migration factor is not considered for rural area, figures for rural areas computed under assumption (b) are not changed under assumption(c). These three assumptions provide three sets of figures of population projections. The first set provides the medium estimate, the second gives the low estimate while the third provides the high estimate.

2. Changes assumed in the sex-ratio:- It is presumed that due to development in the near future, such as housing facilities etc, the present sex ratio in Greater Bombay would undergo a change. It is assumed that the sex-ratio for Gr. Bombay in terms of females per 1000 males would increase linearly from 663 in 1961 to 700 in 1981 and to 720 in 1991. While in other parts of the Region it would be the same. The total projected population figures, computed under assumptions (a) and (b) for Gr. Bombay are... therefore split up into males and females in the assumed ratio.

3. Age-group composition:- Population projections for Maharashtra State as a whole for the period 1951-1981, computed by Shri R.E. Choudhari and approved by Dr. Ramchandran of the Demographic Training & Research Centre, Chembur, Bombay, are worked out considering the various factors influencing projections such as future course of fertility mortality, migration, sex-ratio at birth etc. It is assumed that these factors will affect the population projections of the Bombay Metropolitan Region in a similar manner. Therefore, percentage pattern for the years 1966-1991 for the three broad age-groups 0-14, 15 to 59 & 60 & over is computed on the basis of the projected figures worked out for the State by Shri Choudhari in his booklet mentioned above and it is assumed that the changes in the percentage pattern from 1961 to 1991 in the projected population for Gr. Bombay, Rural area and rest of the urban areas in the Bombay Metropolitan Region would be approximately in the same proportion (at 1961 level) as those in the whole state. The actual calculations are done as follows. For example ratios of percentages of population in each age-groups for Bombay to the State are computed. These ratios are then imposed on the respective percentages of population of the State for the years 1966 to 1991, to get the percentage pattern for Gr. Bombay for the corresponding years. These percentage patterns for the years 1966-1991 are then adjusted to add up to 100, by keeping the same trend as observed in the State. A similar procedure is followed for the areas " Rest of the urban in the Region" and " Rural area". The percentage patterns, thus, worked out, are then imposed separately for males and females on the total projected population, to get age-group-wise figures.

4. Labour force: Labour force includes working population, persons seeking employment for the first time and persons employed before but now out of employment and seeking work. Labour participation rates separately for males and females in each broad age-group are worked out for Gr.Bombay and for total urban population in the Region for the year 1961 on the basis of data from 1961 census publications. The rates for 1991 are then estimated on the assumption that labour participation rate would decline by 30% for males and by 50% for females within age-group 0-14 during the period 1961 to 1991, and labour participation ratios would remain unchanged for the age-groups 15-59 and 60 + , for both males and females, during 1961-1991. Imposing these ---- participation rates for 1991 on the projected population for 1991 of Gr.Bombay and Total Urban. The Urban labour force is worked out.

Table No. 1.

Distribution of population in the region during
1961

District	Taluka	Name of the urban centre	Rural		Total
			Male	Female	
1	2	3	4	5	6
Gr. Bombay	-	Gr. Bombay	-	-	-
Thana	Thana	i. Thana town ii. Kalwa iii. Bhayandar	-	-	-
	Taluka	Total	37012	33248	70260
"	Kalyan	i. Kalyan ii. Ulhasnagar iii. Mohone iv. Katemanivali v. Ambernath vi. Dombivali			
	Taluka	Total	58082	54566	112648
"	Bhivandi	i. Bhivandi			
	Taluka	Total	59000	56070	115070
"	Bassein	i. Bassein ii. Sandor iii. Virar			
	Taluka	Total	65113	62750	128363
	District	Total	219707	206634	426341
Kolaba	Panvel	i. Panvel			
	Taluka	Total	45189	44459	89738
"	Uran	i. Uran			
	Taluka	Total	23381	22852	46233
	Karjat	i. Karjat ii. Neral iii. Matheran			
	Taluka	Total	23564	21971	45535
"	Khalapur	i. Khalapur			
	Taluka	Total	16696	15448	32144
	District	Total	108830	104820	213650
Total for the Region			328537	311454	639991

Table No.1. (contd.)

Dist- rict	Taluka	Name of the Urban cent- re.	URBAN			Total for Region		
			Male	Female	Total	Male	Female	Total
1	2	3	7	8	9	10	11	12
1. Gr.- Bombay	-	Gr. Bombay	2496176	1655880	4152056	2496176	1655880	4152056
Thana.	Thana	i. Thana town	57134	43973	101107			
		ii. Kalwa	4433	3675	8108			
		iii. Bhayander	3875	3099	6974			
		Taluka Total	65442	50747	116189	102454	83995	186449
"	Kalyan	i. Kalyan	40020	33462	73482			
		ii. Ulhasnagar	56463	51297	107760			
		iii. Mohone	4408	2881	7289			
		iv. Katemani- vali.	3113	2690	5803			
		v. Ambernath	19145	15364	34509			
		vi. Dombivali	9981	8426	18407			
		Taluka Total	133130	114120	247250	191212	168686	359898
"	Bhivandi	i. Bhivandi	28890	18740	47630			
		Taluka Total	28890	18740	47630	87890	74810	162700
"	Bassein	i. Bassein	11811	10787	22598			
		ii. Sandor	2817	2823	5640			
		iii. Virar	5131	4282	9413			
		Taluka Total	19759	17892	37651	85372	80642	166014
		District Total	247221	201499	448720	466928	408133	875061
3. Kolaba	Panvel	i. Panvel	9528	8602	18130			
		Taluka Total	9528	8602	18130	54717	53151	107868
	Uran	i. Uran	5361	4868	10229			
		Taluka Total	5361	4868	10229	28742	277720	56462
	Karjat	i. Karjat	2740	2403	5143			
		ii. Neral	2984	2620	5604			
		iii. Matheran	1600	1242	2842			
		Taluka Total	7324	6265	13589	30888	28236	59124
	Khalapur	Khalapur	-	-	-	-	-	-
		Taluka Total	-	-	-	16696	15448	32144
		District Total	22213	19735	41948	131043	124555	255598
		Total for the Region	2765610	1877114	4642724	3094147	2188568	5282715

TABLE NO. 2
Density of Population in different parts of the region 1961

Sr. No.	District	Taluka	Area in sq. Kilometers			Miles			Rural (Density per sq.)		
			R	U	T	R	U	T	Popula- tion.	Kilometer	Miles
1	2	3	4	5	6	7	8	9	10	11	12
1.	Gr. Bombay	Gr. Bombay	-	437.71	437.71	-	169.0	169.0	=	-	-
2.	Thana	Thana	247.5	57.9	305.4	95.5	22.4	117.9	70260	283.8	735.71
		Kalyan	624.3	44.2	668.5	241.0	17.1	258.1	112648	180.43	467.42
		Bhiwandi	678.9	4.1	683.0	262.1	1.6	263.7	115070	169.49	439.03
		Bassein	503.7	22.6	526.3	194.5	8.7	203.2	128363	254.84	659.96
3.	Kolaba	Panvel	497.28	12.17	509.45	192.00	4.7	196.7	89738	180.46	467.39
		Uran	192.70	2.07	194.77	74.4	0.8	75.2	46233	239.92	621.41
		Karjat	307.95	20.20	328.15	118.9	7.8	126.7	45535	147.87	382.97
		Khalapur	207.46	-	207.46	80.1	-	80.1	32144	154.94	401.30
TOTAL			3259.79	600.95	3860.74	1258.5	232.1	1490.6	639991	196.32	508.53

(Contd.)

TABLE NO: 2(CONTD)

Sr. No.	District	Taluka	Urban(Density per sq.)			Total (Density per sq.)		
			Population	Kilometers	Miles	Population	Kilometers	Miles
1	2	3	13	14	15	16	17	18
1.	Gr. Bombay	Gr. Bombay	4152056	9485.86	24568.38	4152056	9485.86	24568.38
2.	Thana	Thana	116189	2006.71	5187.00	186449	610.50	1581.42
		Kalyan	2472.50	5593.89	14459.06	359898	538.36	1394.41
		Bhiwandi	47630	11617.07	29768.75	162700	238.21	616.99
		Bassein	37651	1665.97	4327.70	166014	315.43	816.00
3.	Kolaba	Panvel	18130	1489.73	3857.45	107868	211.37	548.39
		Uran	10229	4941.55	12786.25	56462	289.89	750.82
		Karjat	13589	672.72	1742.18	59124	180.17	466.65
		Khalapur	-	-	-	32144	154.94	401.30
TOTAL			4642724	7725.64	20003.11	5282715	1368.31	3544.01

TABLE NO. 3Sex-ratio in some urban centres in the Region during 1961

Sr. No.	Urban Centres	POPULATION			Sex ratio per 1000 Males
		Male	Female	Total	
1	2	3	4	5	6
1.	Gr. Bombay	2496176	1655880	4152056	663.386
2.	Thana Town	57134	43973	101107	769.647
3.	Kalwa	4433	3675	8108	829.010
4.	Bhayandar	3675	3099	6974	799.742
5.	Kalyan	40020	33462	73482	836.132
6.	Ulhasnagar	56463	51297	107760	908.506
7.	Mohone	4408	2881	7289	653.584
8.	Katemanivali	3113	2690	5803	464.118
9.	Ambernath	19145	15364	34509	802.507
10.	Dombivali	9981	8426	18407	844.204
11.	Bhiwandi	28890	18740	47630	648.667
12.	Bassein	11811	10787	22598	913.301
13.	Sandor	2817	2823	5640	1002.130
14.	Virar	5131	4282	9413	834.535
15.	Panvel	9528	8602	18130	902.813
16.	Uran	5361	4868	10229	908.040
17.	Karjat	2740	2403	5143	877.007
18.	Neral	2984	2620	5604	878.016
19.	Matheran	1600	1242	2842	776.250
TOTAL		2765610	1877114	4642724	678.734

TABLE NO. 4

Growth of population during 1951-61 in different parts of the region

District	Taluka	RURAL			URBAN			Total for the region		
		1951	1961	% in-crease	1951	1961	% in-crease	1951	1961	% in-crease
1	2	3	4	5	6	7	8	9	10	11
1. Gr. Bombay	Gr. Bombay	-	-	-	2994444	4152056	38.66	2994444	4152056	38.66
2. Thana	Thana	55287	70260	27.08	75894	116189	53.09	131181	186449	42.13
	Kalyan	86577	112648	30.11	174404	247250	41.76	260981	359898	37.90
	Bhiwandi	89311	115070	28.84	25764	47630	84.87	115075	162700	41.39
	Bassein	103580	128363	23.93	31674	37651	18.87	135254	166014	22.74
3. Kolaba	Panvel	70348	89738	27.56	14861	18130	22.00	85209	107863	26.59
	Uran	38650	46233	19.62	8672	10829	17.95	47322	56462	19.31
	Karjat	36058	45535	26.28	11173	13589	21.62	47231	59124	25.18
	Khalapur	24861	32144	29.29	-	-	-	24861	32144	29.29
Total for the Region		504672	639991	26.81	3336886	4642724	39.13	3841558	5282715	37.51
TOTAL		504672	639991	26.81	3336886	4642724	39.13	3841558	5282715	37.51

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TABLE NO. 5

Statement showing projected population for various years according to assumption 'A'

(10% decline in growth rates every subsequent 5th year)
(MALES)

Sr. No.	Area	Projected Population for various years						
		1961	1966	1971	1976	1981	1986	1991
1	2	3	4	5	6	7	8	9
1.	Gr. Bombay	2496176	2908995	3341562	3787663	4241422	4697375	5151142
2.	Thana town	57111	71211	86955	104199	122715	142275	162621
3.	Thana urban except Thana towns.	8305	9098	9877	10635	11369	12072	12743
4.	Kalyan town	40004	44245	48448	52576	56598	60487	64219
5.	Ulhasnagar town.	56441	64444	72635	80923	89209	97417	105463
6.	Kalyan urban except Kalyan & Ulhasnagar towns	36633	50029	66574	85761	108187	133503	161499
7.	Bhiwandi town	28879	38821	50766	64742	80694	98505	117978
8.	Bassein town	19751	21324	22848	24311	25709	27035	28288
9.	Panvel urban	9526	10431	11321	12187	13024	13829	14596
10.	Karjat urban	7323	8007	8678	9332	9963	10568	11144
11.	Uran town	5360	5701	6027	6336	6628	6901	7157
TOTAL FOR URBAN		2765609	3232306	3725491	4238662	4765518	5299965	5836850
12.	Thana Rural	36987	41233	45442	49605	53678	57634	61497
13.	Kalyan "	58054	65394	72770	80127	87386	94491	101379
14.	Bhiwandi "	58982	66129	73291	80408	87403	94229	100835
15.	Bassein "	65607	72273	78842	85268	91510	97522	103266
16.	Panvel "	45176	50176	55384	60540	65595	70509	75247
17.	Karjat "	23543	26173	28772	31335	33839	36269	38601
18.	Khalapur "	16693	18744	20804	22853	24871	26841	28749
19.	Uran "	23365	25354	27266	29112	30879	32562	34154
TOTAL FOR RURAL		328407	365476	402571	439248	475161	510057	543728
TOTAL FOR THE BOMBAY REGION		3093916	3597782	4128062	4677910	5240679	5810022	6380578

TABLE NO. 5 (CONTD)

Statement showing projected population for various years
according to assumption 'A'

(10% decline in growth rates every subsequent 5th year)
(FEMALES)

Sr. No.	Area	Projected Population for various years						
		1961	1966	1971	1976	1981	1986	1991
1	2	3	4	5	6	7	8	9
1.	Gr. Bombay	1655880	1929652	2216592	2512567	2813505	3115957	3416958
2.	Thana town	43951	54803	66921	80191	94441	109495	125152
3.	Thana urban except Thana towns.	6770	7417	8051	8670	9268	9842	10389
4.	Kalyan town	33445	36983	40497	43947	47309	50559	53679
5.	Ulhasnagar town	51271	58541	65982	73510	81038	88493	95803
6.	Kalyan urban except Kalyan & Ulhasnagar towns	29348	40081	53175	68708	86675	106957	129385
7.	Bhiwandi town	18731	25175	32923	41987	52333	63883	76512
8.	Bassein urban	17883	19308	20688	22013	23279	24479	25614
9.	Panvel urban	8600	9419	10222	11004	11760	12486	13179
10.	Karjat urban	6264	6849	7423	7981	8521	9038	9531
11.	Uran town	4867	5177	5472	5753	6018	6267	6499
TOTAL FOR URBAN		1877010	2193406	2527946	2876271	3234147	3597456	3962701
12.	Thana rural	33220	37037	40819	44558	48216	51770	55239
13.	Kalyan "	54542	61436	68366	75278	82099	88773	95245
14.	Bhiwandi "	56056	62853	69660	76424	83073	89561	95839
15.	Bassein "	62734	69106	75388	81532	87500	93249	98741
16.	Panvel "	44540	49478	54614	59699	64684	69528	74200
17.	Karjat "	21960	24412	26836	29228	31563	33829	36004
18.	Khalapur "	15447	17344	19250	21146	23013	24835	26601
19.	Uran rural	22824	24763	26630	28433	30159	31803	33358
TOTAL FOR RURAL		311223	346429	381563	416298	450307	483348	515227
TOTAL FOR THE BOMBAY REGION		218333	2539835	2909509	3292569	3684454	4080804	4477928

TABLE No.5 (CONTD)

Statement showing projected population for various years according to assumption 'A'

(10 % decline in growth rates every subsequent 5th year)
(TOTALS)

Sr. No.	Area	Projected Population for various years (total)						
		1961 (actual)	1966	1971	1976	1981	1986	1991
1	2	3	4	5	6	7	8	9
1.	Gr. Bombay	4152056	4838647	5558154	6300167	7054927	7813332	8568100
2.	Thana town	101062	126014	153876	184390	217156	251770	287773
3.	Thana urban except Thana towns.	15075	16515	17928	19305	20637	21914	23132
4.	Kalyan town	73449	81228	88945	96523	103907	111046	117898
5.	Ulhasnagar town.	107712	122985	138617	154433	170247	185910	201266
6.	Kalyan urban except Kalyan & Ulhasnagar towns	65981	90110	119549	154469	194862	240460	290884
7.	Bhiwandi town	47610	63997	83689	106729	133027	162386	194490
8.	Bassein town	37634	40632	43536	46324	48988	51514	53902
9.	Panvel town	18126	19850	21543	23191	24784	26315	27775
10.	Karjat town	13587	14856	16101	17313	18484	19606	20675
11.	Uran town	10227	10878	11499	12089	12646	13168	13656
TOTAL FOR URBAN		4642519	5425712	6253437	7114933	7999665	8897421	9799551
12.	Thana rural	70207	78270	86261	94163	101894	109404	116736
13.	Kalyan "	112596	126830	141136	155405	169485	183264	196624
14.	Bhiwandi "	115038	128982	142951	156832	170476	183790	196674
15.	Bassein "	128341	141379	154230	166800	179010	190771	202007
16.	Panvel "	89716	99654	109998	120239	130279	140037	149447
17.	Karjat "	45503	50585	55608	60563	65402	70098	74606
18.	Khalapur "	32140	36088	40054	43999	47884	51676	55350
19.	Uran rural	46189	50117	53896	57545	61038	64365	67512
TOTAL FOR RURAL		639730	711905	784134	855546	925468	993405	1058955
TOTAL FOR THE BOMBAY REGION		5282249	6137617	7037571	7970479	8925133	9890826	10858506

TABLE NO. 6

Statement showing projected population for various years according to assumption 'B'

 (5% decline in growth rates every subsequent 5th year)
 (MALES)

Sr. No.	Area	Projected Population for various years						
		1961 (actual)	1966	1971	1976	1981	1986	1991
1	2	3	4	5	6	7	8	9
1.	Gr. Bombay	2496176	2932951	3420408	3959454	4551404	5198793	5895762
2.	Thana town	57111	72038	89889	110995	135936	164891	198182
3.	Thana urban except Thana town	8305	9143	10016	10925	11865	12835	13830
4.	Kalyan town	40004	44485	49204	54154	59325	64701	70258
5.	Ulhasnagar town	56441	64896	74118	84109	94858	106355	118585
6.	Kalyan urban except Kalyan & Ulhasnagar towns	36633	50831	69471	93591	124345	163029	211058
7.	Bhiwandi town	28879	39413	53018	70349	92123	119133	152204
8.	Bassein urban.	19751	21416	23128	24879	26668	28486	30327
9.	Panvel urban	9526	10483	11483	12521	13594	14701	15834
10.	Karjat urban	7323	8046	8800	9581	10388	11218	12068
11.	Uran town	5360	5721	6086	6455	6828	7200	7572
TOTAL FOR URBAN		2765509	3259423	3815621	4437023	5127334	5889342	6725680
12.	Thana rural	36987	41477	46217	52227	56488	61994	67705
13.	Kalyan "	58054	65824	74137	83011	92433	102369	112811
14.	Bhiwandi "	58982	66548	74620	83194	92262	101793	111758
15.	Bassein "	65607	72660	80056	87782	95814	104130	112700
16.	Panvel "	45176	50727	56627	62367	69437	76318	83492
17.	Karjat "	23543	26323	29250	32333	35563	38935	42435
18.	Khalapur "	16693	18865	21185	23655	26269	29022	31904
19.	Uran rural	23365	25469	27616	29822	32086	34393	36738
TOTAL FOR RURAL		328407	367893	409708	453891	500352	548944	599543
TOTAL FOR THE BOMBAY REGION		3093916	3627316	4225329	4890914	5627686	6438286	7325223

TABLE NO. 6(CONTD)

Statement showing Projected Population for various years
according to assumption 'B'

(5% decline in growth rates every subsequent 5th year)
(FEMALES)

Sr. No.	Area	Projected Population for various years						
		1961(actual)	1966	1971	1976	1981	1986	1991
1	2	3	4	5	6	7	8	9
1.	Gr. Bombay	1655880	1945544	2268893	2626471	3019129	3447241	3910894
2.	Thana town	43951	55441	69179	85422	104616	126899	152520
3.	Thana urban except Thana town	6770	7453	8166	8906	9673	10463	11274
4.	Kalyan town	33445	37183	41129	45266	49589	54081	58727
5.	Ulhasnagar town.	51271	58951	67328	76404	86169	96612	107723
6.	Kalyan urban except Kalyan & Ulhasnagar. towns	29348	40724	55657	74981	99620	130612	169090
7.	Bhiwandi town	18731	25560	34384	45624	59744	77262	98710
8.	Bassein town	17883	19392	20942	22528	24148	25793	27461
9.	Panvel urban	8600	9465	10368	11306	12275	13274	14297
10.	Karjat urban	6264	6882	7526	8195	8885	9595	10322
11.	Uran town	4867	5195	5526	5861	6200	6537	6875
TOTAL-FOR URBAN		1877010	2211790	2589098	3010964	3480048	3998369	4567893
12.	Thana rural	133220	37256	41515	46015	50741	55678	60817
13.	Kalyan "	54542	61840	69651	70988	86839	96175	105984
14.	Bhivandi "	56056	63251	70924	79073	87692	96750	106222
15.	Bassein "	62734	69476	76549	83935	91615	99568	107762
16.	Panvel "	44540	50022	55839	61993	68471	75257	82331
17.	Karjat "	21960	24553	27283	30159	33172	36316	39581
18.	Khalapur "	15447	17455	19602	21888	24307	26854	29520
19.	Uran rural	22824	24874	26971	29127	31337	33590	35891
TOTAL FOR RURAL		311323	348727	388334	430178	474174	520188	568098
TOTAL FOR THE BOMBAY REGION		218333	2560517	2977432	3441142	395422	4518557	5135991

TABLE NO. 6 (CONTD)

Statement showing Projected Population for various years according to assumption 'B'

(5% decline in growth rates every subsequent 5th year)

Sr. No.	Area	Projected Population for various years.						
		1961 (actual)	1966	1971	1976	1981	1986	1991
1	2	3	4	5	6	7	8	9
1.	Gr. Bombay	4152756	4378495	5689301	6585935	7570533	8644034	9806656
2.	Thana town	101062	127479	159068	196417	240552	291790	350702
3.	Thana urban except Thana town	15075	16596	18182	19831	21538	23298	25104
4.	Kalyan town	73449	81688	90333	99420	108914	118782	128985
5.	Ulhasnagar town	107712	123847	141446	160573	181027	202967	226308
6.	Kalyan urban except Kalyan & Ulhasnagar towns.	65981	91555	125128	168572	223965	293641	380148
7.	Bhiwandi town	47610	64973	87402	115973	151867	196395	250914
8.	Bassein urban	37634	40808	44070	47407	50816	54279	57788
9.	Panvel urban	18126	19948	21851	23827	25869	27975	30131
10.	Karjat urban	13587	14928	16326	17776	19273	20813	22390
11.	Uran town	10227	10916	11612	12316	13028	13737	14447
TOTAL FOR URBAN		4642519	5471213	6404719	7447987	8607382	9887711	11293573
12.	Thana rural	70207	78733	87732	97242	107229	117662	128522
13.	Kalyan "	112596	127664	143788	160999	179272	198544	218795
14.	Bhiwandi "	115038	129799	145544	162267	179954	198543	217980
15.	Panvel "	89716	100749	112466	124360	137908	151575	165823
16.	Bassein "	128341	142136	156605	171717	187429	203698	220462
17.	Karjat "	45503	50876	56533	62492	68735	75251	82016
18.	Khalapur "	32140	36320	40787	45543	50576	55876	61424
19.	Uran rural	46189	50343	54587	58949	63423	67983	72619
TOTAL FOR RURAL		639730	716620	798042	834069	974526	1069132	1167641
Total for the Bombay Region		5282249	6187833	7202781	8332056	9581908	10956843	12461214

TABLE No. 7

Statement showing Projected Population for various years
according to assumption 'C'

(5% reduction in natural growth rate every subsequent 5th
year but no change in the rate of net-migration)

Sr. No.	Area	Projected Population for various year						
		1961 (actual)	1966	1971	1976	1981	1986	1991
1	2	3	4	5	6	7	8	9
1.	Gr. Bombay	4152056	4898419	5758581	6745025	7873467	9169779	10625588
2.	Thana town	101062	128268	162003	203637	254811	317494	393978
3.	Thana urban except Thana town.	15075	16600	18197	19862	21592	23392	25227
4.	Kalyan town	73449	81742	90480	99736	109480	119695	130360
5.	Ulhasnagar Town.	107712	124095	142288	162407	184560	208867	235455
6.	Kalyan urban except Kalyan & Ulhasnagar towns.	65981	92505	129026	179101	247463	340410	466294
7.	Bhiwandi town	47610	65573	89822	122400	165974	224015	301009
8.	Bassein Urban	37634	40783	43991	47241	50523	53815	57106
9.	Panvel urban	18126	19955	21875	23879	25964	28127	30360
10.	Karjat urban	13587	14932	16339	17803	19321	20890	22505
11.	Uran town	10227	10911	11599	12288	12975	13658	14334
TOTAL FOR URBAN		4642519	5493753	6484201	7633379	8966130	10511132	12302216
12.	Thana rural	70207	78733	87732	97242	107229	117662	128522
13.	Kalyan "	112596	127664	143788	160999	179272	198544	218795
14.	Bhiwandi "	115038	129799	145544	162267	179954	198543	217980
15.	Bassein "	128341	142136	156605	171717	187429	203698	220462
16.	Panvel "	89716	100749	112466	124860	137908	151575	165823
17.	Karjat "	45503	50876	56533	62492	68735	75251	82016
18.	Khalapur "	32140	36320	40787	45543	50576	55876	61424
19.	Uran rural	46189	50343	54587	58949	63423	67983	72619
TOTAL FOR RURAL		639730	716620	798042	884069	974526	1069132	1167741
TOTAL FOR THE BOMBAY REGION		5282249	6210373	7282243	8517448	9940656	11580264	13469857

TABLE NO. 8

Sex-wise and age-groupwise projected population for 1966-91
different areas of B.M. Region

(MALES)

Area	Age- group.	Assu- mpti- ons.	1966-91							
			1961 (actual)	1966	1971	1976	1981	1986	1991	
1	2	3	4	5	6	7	8	9	10	
A r e a	Gr. 0-14	b	683684	786219	911506	1048997	1198816	1360298	1533715	
	Bom.	a	1732898	779797	890495	1003481	1117168	1229572	1340011	
	Bay. 15-59	b	1732898	2031916	2348465	2692024	3067402	3467218	3894155	
		a		2015319	2294329	2575215	2858451	3134014	3402332	
	60 +	b	70504	99189	123497	154253	187037	227475	273674	
		a		98379	120650	147560	174298	205614	239110	
	Total	b	2496176	2917324	3383468	3895274	4453255	5054991	5701544	
		a		2893495	3305474	3726256	4149957	4569200	4981433	
	R e s t u r a n t	Gr. 0-14	b	95789	114363	138364	167098	201460	242115	289973
			a		113256	134414	157806	183329	210665	239586
Ur- 15-59		b	163314	198887	239697	288255	346307	414698	494797	
		a		196961	232853	272225	315139	360831	408819	
60 +		b	10230	132262	17152	22206	28163	35736	45148	
		a		13094	16662	20971	25628	31094	37303	
Total		b	269333	324472	395213	477559	575930	692549	829918	
		a		323311	383929	451002	524096	602590	685708	
U r b a n		Gr. 0-14	b	779473	900582	1049870	1216095	1400276	1602413	1823688
			a		893053	1024909	1161287	1300497	1440237	1579597
	15-59	b	1896212	2230803	2588162	2980279	3413709	3881916	4388952	
		a		2212280	2527182	2847440	3173630	3494845	3811151	
	60 +	b	89824	112411	140649	176459	215200	263211	318822	
		a		111473	137312	168531	199926	236708	276413	
	Total	b	2765509	3243796	3778681	4372833	5029185	5747540	6531462	
		a		3216806	3639403	4177258	4674053	5171790	5667161	
	R u r a l	Gr. 0-14	b	137405	151572	168718	186821	205895	225781	246412
			a		150576	165779	180794	195529	209737	223527
15-59		b	177643	200318	221857	244466	268189	292642	317818	
		a		199002	217992	236579	254686	271911	288230	
60 +		b	13359	16003	19133	22604	26268	30521	35253	
		a		15898	18800	21875	24946	28359	31971	
Total		b	328407	367893	409708	453891	500352	548944	599543	
		a		365476	402571	439248	475161	510037	543728	
T o t a l		0-14	b	916878	1052154	1218588	1402916	1606171	1828194	2070160
			a		1043629	1190688	1342081	1496026	1650024	1803124
	15-59	b	2073855	2431121	2810019	3224745	3681898	4174558	4706770	
		a		2411282	2745174	3084019	3428316	3766756	4099381	
	60 +	b	103183	128414	159782	199063	241468	293732	354075	
		a		127371	156112	190406	224872	265067	308384	
	Total	b	3093916	3611689	4188389	4826724	5529537	6296484	7131005	
		a		3582282	4091974	4616506	5149214	5681847	6210889	

TABLE No. 8

Sex-wise and age-groupwise projected population for 1966-91
in different areas of B.M. Region

(FEMALES)

Area	Age-Group	Assu- mpti- on.	1961 (actual)	1966	1971	1976	1981	1986	1991	
1	2	3	4	5	6	7	8	9	10	
Gr. Bombay	0-14	b	621120	712101	833789	968907	1118168	1282365	1459367	
		a		706285	814569	926865	1042013	1156128	1275053	
	15-59	b	969936	1168074	1372432	1600674	1853222	2132609	2437616	
		a		1158552	1340795	1531220	1727005	1927663	2129751	
	60 +	b	64824	80996	99612	121030	145888	174069	208129	
		a		80335	97316	115826	135952	157341	181843	
	Total	b	1655880	1961171	2305833	2690661	3117278	3589043	4105112	
		a		1945152	2252680	2573911	2904970	3244132	35886647	
	Rest Urban	0-14	b	89152	104049	124592	148953	177869	211799	251499
			a		103075	121448	140922	162326	185040	208910
15-59		b	122263	149870	180083	216085	258852	309293	368379	
		a		148467	175105	204435	236232	270217	305998	
60 +		b	9715	12327	15530	19455	24198	30036	37121	
		a		12212	15101	18407	22084	26242	30835	
Total		b	221130	266246	320205	384493	460919	551128	656999	
		a		263754	311354	363764	420642	481499	545743	
Urban		0-14	b	710272	816150	958381	1117860	1296057	1494164	1710866
			a		809360	935717	1067787	1204339	1344168	1483963
	15-59	b	1092199	1317944	1552515	1816759	2112074	2441902	2805995	
		a		1306999	1515900	1735655	1963237	2197880	2435749	
	60 +	b	74539	93323	115142	140535	170086	204105	245250	
		a		92547	112417	134233	158036	183583	212678	
	Total	b	1877010	2227417	2626038	3075154	3578197	4140171	4762141	
		a		2208906	2564034	2937675	3325612	3725631	4132390	
	Rural	0-14	b	131880	143292	158906	176298	192372	209948	228035
			a		142348	156136	169641	182690	195079	206812
15-59		b	165204	188557	209817	232210	255770	280329	305921	
		a		187314	206158	224718	242895	260476	277450	
60 +		b	14239	16878	19611	22670	26032	29911	34142	
		a		16767	19269	21939	24722	27793	30965	
Total		b	311323	348727	388334	430178	474174	520183	568098	
		a		346429	381563	416298	450307	483348	515227	
Total		0-14	b	842152	959442	1117287	1293158	1488409	1704112	1938901
			a		951708	1091853	1237428	1387029	1539247	1690775
	15-59	b	1257403	1506501	1762332	2048969	2367844	2722231	3111916	
		a		1494313	1722058	1960873	2206132	2458356	2713199	
	60 +	b	88778	110201	134753	163205	196118	234016	279392	
		a		109314	131686	156172	182758	211376	243643	
	Total	b	2188333	2531144	3014372	3505332	4052371	4660359	5330209	
		a		2555335	2945597	3353073	3775019	4208979	4647617	

TABLE No. 8

Sex-wise & age-groupwise projected population for 1966-1991
in different areas of B.M. Region.

(TOTALS)

Area	Age-Group	Assumption	1961 (actual)	1966	1971	1976	1981	1986	1991
1	2	3	4	5	6	7	8	9	10
Gr.	0-14	✓ b	1304804	1498320	1745295	2017904	2316984	2642663	2993032
Bom-		a		1486082	1705064	1930346	2159181	2388700	2615064
day.	15-59	✓ b	2702834	3199990	3720897	4292698	4920624	5599827	6331771
		a		3173851	3635124	4106435	4585496	5061677	5532083
	60 +	✓ b	144418	180185	223109	275333	332985	401544	481803
		a		178714	217966	263386	310250	362955	420953
✓ Total		✓ b	4152056	4878495	5689301	6585935	7570533	8644034	9806556
		a		4838647	5558154	6300167	7054927	7813332	8568100
Rest	0-14	b	184941	218412	262956	316051	379329	453914	541472
urban		a		216331	255562	298728	345655	395705	448496
	15-59	b	285577	348757	419780	504340	605159	723991	863176
		a		345428	407958	476660	551371	631048	714817
	60 +	b	19945	25549	32682	41661	52361	65772	82269
		a		25306	31763	39378	47712	57336	68138
Total		b	490463	592718	715418	862052	1036849	1243677	1486917
		a		587065	695283	814766	944738	1084089	1231451
Urban	0-14	b	1489745	1716782	2008251	2333955	2696313	3096577	3534554
		a		1702413	1960626	2229074	2504836	2784405	3063560
	15-59	b	2988411	3548747	4140677	4797038	5525783	6323818	7194947
		a		3519279	4043082	4583085	5136867	5692725	6246900
	60 +	b	164363	205734	255791	316994	385286	467316	564072
		a		204020	249729	302764	357962	420291	489091
Total		b	4642519	5471213	6404719	7447987	8607382	9887711	11293373
		a		5425712	6253437	7114933	7999665	8897421	9799551
Rural	0-14	b	269285	294864	327624	362119	398267	435729	474507
		a		292924	321915	350435	378219	404866	430339
	15-59	b	342847	388875	431674	476676	523959	572971	623739
		a		386316	424150	461287	497581	532387	565680
	60 +	b	27598	32881	38744	45274	52300	60432	69395
		a		32665	38069	43814	49668	56152	62936
Total		b	639730	716620	798042	884069	974526	1069132	1167641
		a		711905	784134	855546	925468	993405	1058955
Total	0-14	b	1759030	2011596	2335875	2696074	3094580	3532306	4000061
		a		1995337	2282541	2579509	2883055	3189271	3493899
	15-59	b	3331258	3937622	4572351	5273714	6049742	6896789	7818686
		a		3905595	4467232	5044392	5634448	6225112	6812580
	60 +	b	191961	238615	294535	362268	437586	527748	633467
		a		236685	287798	346578	407630	476443	552027
Total		b	5282249	6187833	7202761	8332056	9581908	10956843	124612
		a		6137617	7037571	7970479	8925103	9890826	1083250

TABLE NO. 91961 (URBAN POSITION IN THE REGION.)

Sr. No.	Area	Age Groups	Total Population			Working population of the part including in region.		
			M	F	Total	M	F	Total
1. Greater Bombay.	0-14	682473	629670	1312143	15501	5157	20658	
	15-59	1737080	961510	2698590	1485715	135873	1621588	
	60 +	76004	64114	140118	39487	4725	44212	
	N.A.	619	586	1205	158	52	210	
Total		2496176	1655980	4152056	1540861	145807	1686668	
2. Thana dist.	0-14	86899	81183	168082	-	-	-	
	15-59	151103	111551	262654	-	-	-	
	60 +	9122	8665	17787	-	-	-	
	N.A.	-	-	-	-	-	-	
Total		247124	201399	448523	134890	18689	153579	
3. Kolaba dist.	0-14	8890	7969	16859				
	15-59	12211	10712	22923				
	60 +	1108	1050	2158				
	N.A.	-	-	-				
Total		22209	19731	41940	11700	2677	14377	
4. Total Urban	0-14	778262	713822	1497084				
	15-59	1900394	1083773	2984167				
	60 +	86234	73829	160063				
	N.A.	619	586	1205				
Total		2765509	1877010	4642519				

Table 9 (contd.)

Sr. No.	Area	Age Groups.	Persons seeking employment for the first time.			Persons employed before but now out of employment and seeking work.			Total labour forces.		
			M	F	Total	M	F	Total	M	F	Total
1.	Greater Bombay.	0-14	-	-	-	-	-	-	15501	5157	20658
		15-59	37501	3007	40508	36534	2128	38662	141008		
									1559730		1700758
		60 +	189	-	189	992	56	1048	40668	4781	45449
		N.A.	6	-	6	2	1	3	166	53	219
Total			37696	3007	40703	37528	2185	39713	150990		1767084
2.	Thana Dist.	0-14	-	-	-	-	-	-	2075	738	2813
		15-59	-	-	-	-	-	-	134732	17805	152337
		60 +	-	-	-	-	-	-	4319	538	4857
		N.A.	-	-	-	-	-	-	14	-	14
		Total			6250	392	6642			141140	19081
3.	Kolaba Dist.	0-14							243	87	330
		15-59							11235	2501	13736
		60 +							735	132	867
		N.A.							3	-	3
		Total			516	43	559			12216	2720
4.	Total Urban	0-14							17819	5982	23801
		15-59							1705717	161314	1867031
		60 +							45722	5451	51173
		N.A.							183	53	236
		Total								1769441	172800

TABLE No. 10

Projected Labour Participation in 1991 for Urban Areas of
B.M. Region.

201707

H-398(D) (500-8-69)

Urban area	Age groups	Labour Participation in 1961 (%)			Labour Participation in 1991 (%)			Projected population for 1991			Projected Labour participation in 1991		
		M	F	Total	M	F	Total	M	F	Total	M	F	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Gr. Bombay	0-14	2.27	0.82	1.57	1.59	0.41	1.01	1533715	1459367	2993082	24386	5989	30375
as per	15-59	89.79	14.665	63.024	89.79	14.67	60.87	3894155	2437616	6331771	3496562	357598	3854160
assumption													
(a)	60 +	53.51	7.46	32.44	53.61	7.46	33.62	273674	208129	481803	146463	15526	161989
Total		64.74	9.12	42.56	64.32	9.24	41.26	5701544	4105112	9806656	3667411	379113	4046524
Gr. Bombay	0-14	2.27	0.82	1.57	1.59	0.41	1.01	1340011	1275053	2615064	21306	5228	26534
as per	15-59	89.79	14.665	63.024	89.79	14.67	60.87	3402332	2129751	5532083	3054954	312434	3367388
assumption													
(b)	60 +	53.51	7.46	32.44	53.51	7.46	33.62	239110	181843	420953	127948	13565	141513
Total		64.74	9.12	42.56	64.32	9.24	41.26	4981453	3586647	8568100	3204208	331227	3533435
Total for	0-14	2.29	0.83	1.59	1.60	0.41	1.02	1823688	1710366	3534554	29179	7015	36194
Urban as	15-59	89.76	14.88	62.57	89.76	14.88	60.56	4388952	2385995	7194947	3939523	417532	4357655
per assum-													
ption(a)	60 +	53.02	7.38	31.97	53.02	7.38	33.17	318822	245250	564072	169039	18099	187138
Total		64.00	9.21	41.85	63.35	9.30	40.57	6531462	4762111	11293573	4137741	442646	4580387
Total for	0-14	2.29	6.83	1.59	1.60	0.41	1.02	1579597	1483962	3061560	25274	6034	31358
Urban as	15-59	89.76	14.88	62.57	89.76	14.88	60.56	3811151	2435749	6246900	3420880	362439	3783328
per assum-													
ption (b)	60 +	53.02	7.38	31.97	53.02	7.38	33.17	276413	212678	489091	146554	15696	162250
Total		64.00	9.21	41.85	63.40	9.30	40.57	5667161	4132390	9199551	3592717	384210	3975936