

FOR OFFICIAL USE ONLY

ASSESSMENT STUDY
OF
SOCIAL AND ECONOMIC DEVELOPMENT
OF
TRIBAL AREA OF BHARUCH DISTRICT

NIEPA DC



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DIRECTORATE OF EVALUATION
GOVERNMENT OF GUJARAT
GANDHINAGAR
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-: P R E F A C E :-

One of the basic objectives of planned development is to bring about balanced growth of different areas in the State. Accordingly special welfare measures had been undertaken for the economic and social upliftment of the tribal areas which were considered as most backward areas. For building up a new life and to create a new pattern of society in rural areas a nationwide programme of Community Development Project was initiated in 1952. Subsequently, the special programme for the tribal development was initiated in 1955 in the form of Special Multipurpose Tribal Development Blocks. A modified version of this programme was taken up on a large scale during the Second Five Year Plan when the Tribal Development Blocks were started. However to meet with the long term development challenges of the tribal areas it was felt that some more concentrated efforts were needed. Ultimately for special attention of the tribal areas a new programme known as Tribal Area Sub-Plan was launched in the year 1974-75. The main objective of the Tribal Area Sub-Plan is to narrow down the gap between the development of tribal areas and non-tribal areas of the State.

To know the position prior to implementation of the T.A.S.P. programme a benchmark study was undertaken by the Directorate of Evaluation in 1973-74 to mark the levels of development reached in various spheres of socio-economic activities. After implementation of T.A.S.P. programme a follow up study has been undertaken to assess the impact of the programme. Therefore an attempt has been made to compare the position at two points of time i.e. prior to implementation of T.A.S.P. programme and at the end of Fifth Five Year Plan.

This Directorate is very much thankful to the concerned Officers under District Panchayat, Bharuch and other State level Government Officers who supplied valuable information for enabling this office to compile this report.

Gandhinagar,
September 1984.

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SOCIO ECONOMIC SITUATION AT A GLANCE
Bench Mark Year & Follow-up Study Year

B H A R U C H

Sr. No.	I t e m	Unit	Tribal Area			Non-Tribal Area		
			Bench Mark Year	Follow-up Year	Percent Increase/Decrease	Bench Mark Year	Follow-up Year	Percent Increase/Decrease
1	2	3	4	5	6	7	8	9
	Year		1971	1981		1971	1981	
1.	Rural Population	000	433	567	+17.15	432	488	+12.96
2.	Urban Population	000	26	29	+11.54	167	212	+26.95
3.	Total Population	000	510	596	+16.86	599	700	+16.86
	(a)Male	000	260	305	+17.31	309	362	+17.15
	(b)Female	000	250	291	+16.40	290	338	+16.55
4.	Population							
	(a)Scheduled Caste Percentage to total population	000	13	14	+17.69	41	46	+12.20
			2.5	2.7	+ 0.2	6.8	6.5	- 0.3
	(b)Scheduled Tribes Percentage to total population	000	365	429	+17.53	122	148	+21.31
			71.6	72.0	+ 0.4	20.3	21.2	+ 0.9
5.	No.of inhabited villages	No.	779	765	- 1.80	358	358	+ 0.00
	No.of towns	No.	1	1	+ 0.00	6	6	+ 0.00
6.	Total Workers	000	190	240	+26.31	202	242	+19.80
	(1)Cultivators	000	70	89	+27.14	53	55	+ 3.77
	(2)Agri. Labourers	000	96	104	+ 8.33	89	96	+ 7.87
	(3)Household industry, manufacture processing, servicing & repairs.)						
	(4)Other workers including marginal workers.)000	23	47	+104.35	60	92	+53.33

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	1	2	3	4	5	6	7	8	9
7. Percentage of total workers to total population	-	37	40	+ 3.0	34	35	+ 1.0		
8. Total non-workers	000	320	355	+10.94	398	458	+15.08		
9. Percentage to total non-workers to total population	-	63	60	- 3.00	66	65	- 1.0		
10. Density of population	per sq. km.	124	145	+16.94	163	192	+17.79		
11. Literacy rate	Percentage								
(a) Male		35	47	+12.00	56	63	+ 7.00		
(b) Female	"	15	24	+ 9.00	32	41	+ 9.00		
(c) Persons	"	25	36	+11.00	45	52	+ 7.00		
12. Sex Ratio	Female per thousand males	963	956	- 0.73	939	932	- 0.75		
13. Percentage of growth population 1981 over 1971	Percentage		16.74			16.93			
14. Agriculture	Year	1973	1978		1973	1978			
		-74	-79		-74	-79			
No. of land holders	No.	52910	52170	+ 1.40	68070	72458	+ 6.45		
Area held	Hects.	182335	173898	+ 4.63	264066	254930	+ 3.46		
15. Crops									
1. Rice	00 Hects.	137	162	+18.25	36	44	+22.22		
2. Wheat	"	30	22	-26.67	161	178	+10.55		
3. Juwar	"	423	530	+25.30	258	443	+71.71		

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1	2	3	4	5	6	7	8	9
4. Bajri	00	82	28	-65.85	92	32	-65.22	
	Hects.							
5. Maize	"	21	36	+71.43	1	1	+ 0.00	
6. Other food crops	"	224	381	+70.08	172	482	+180.23	
7. Groundnut	"	58	106	+82.76	11	11	+ 0.00	
8. Cotton	"	849	536	-36.87	1554	977	-37.13	
9. Other non-food crops	"	154	177	+14.94	221	262	+18.55	
10. Total cropped area	"	1976	1979	+ 0.15	2506	2429	- 3.07	
11. Area irrigated by diff. sources	"	213	172	-19.25	284	245	-13.73	
12. Percentage of gross area irrigated	Percentage	10.78	8.68	- 2.10	11.35	10.10	- 1.25	
16. <u>Animal Husbandry</u>	Year	1972	1977		1972	1977		
<u>Livestock</u>								
1. Total livestock	00	2809	2855	+ 1.64	1738	1677	+ 3.51	
2. Total cattle	00	1690	1624	- 3.91	711	634	-10.33	
3. Cattle youngstock	00	410	449	+ 9.51	97	84	-13.40	
(a) Male over 3 years	00	837	724	-13.50	524	464	-11.45	
(b) Female over 3 years	00	443	451	+ 1.81	88	86	- 2.27	
4. Total Buffaloes	00	400	451	+12.75	536	518	- 3.36	
5. Other Livestock	00	719	780	+ 8.48	491	525	+ 6.92	
6. Total Poultry	00	1120	1704	+52.14	474	572	+20.68	

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1	2	3	4	5	6	7	8	9
7.Tractors	No.	108	67	-37.96	374	279	-25.40	
8.Oil engine with pump for irrigation purpose	No.	2791	2868	+ 2.76	1113	1373	+23.36	
9.Veterinary dispensaries	Year	1973	1978		1973	1978		
	No.	-74	-79		-74	-79		
		5	5	+ 0.00	6	6	+ 0.00	
17.Industries	Year	1973	1977		1973	1977		
1.No.of working factories	No.	21	22	+ 4.76	67	110	+64.18	
2.Average No.of workers employed	No.	491	258	-47.45	8028	8327	+ 3.72	
	Year	1973-74	1978-79		1973-74	1978-79		
3.No.of villages and towns electrified	No.	128	228	+78.12	159	197	+23.90	
	Percentage	(38.6)	(53.9)		(72.6)	(80.3)		
18.Banks	Year	1973-74	1978-79		1973-74	1978-79		
1.Scheduled Bank offices	No.	11	13	+63.64	27	46	+70.37	
2.Population served per Bank office	000	46	23	-39.13	22	13	-40.91	
3.Cooperative Bank offices	No.	11	13	+18.18	19	27	+42.11	
4.Population served per Bank office	000	46	39	-15.22	32	22	-31.25	
19.Co-operation	Year	1973-74	1978-79		1973-74	1978-79		
No.of primary cooperative societies	No.	348	510	+46.55	550	691	+25.64	
No.of members	No.	42534	79395	+86.66	91367	112626	+23.27	
20.Transport and Communication								
1.Road metalled	km.	507	683	+34.71	566	799	+41.17	
" non-metalled	km.	417	463	+10.03	467	475	+ 1.71	
2.Road per 100 sq.km.	per 100 sq.km.							
(a)Metalled		12.3	16.5	+34.15	15.4	21.7	+40.91	
(b)Non-metalled		10.1	11.2	+10.89	12.7	12.9	+ 1.57	

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1	2	3	4	5	6	7	8	9
(1) Villages with railway stations								
	No.	17	17	+ 0.00	31	31	+ 0.00	
21.	<u>Social Services</u>	Year 1973-74	1978-79		1973-74	1978-79		
1.	Villages with primary schools	No.	641	698	+ 8.89	348	354	+ 1.72
2.	Percentage of villages with schools to total villages	Percent	82.3	89.6	+ 7.3	97.2	98.3	+ 1.1
3.	Villages with secondary schools	No.	34	36	+ 5.88	83	88	+ 6.02
4.	Percentage of villages with secondary schools to total villages	Percent	4.4	4.6	+ 0.2	22.8	24.2	+ 1.4
22.	<u>Medical</u>	Year 1973-74	1978-79		1973-74	1978-79		
1.	No. of hospitals	No.	1	1	+ 0.00	2	2	+ 0.00
2.	Dispensaries	No.	28	28	+ 0.00	32	32	+ 0.00
3.	Doctors per one lakh of population	No.	5	5	+ 0.00	6	6	+ 0.00
4.	Nurses per one lakh of population	No.	9	17	+ 88.89	12	17	+ 41.67

Note:-

Tribal area refers to the following talukas :-

(1) Jhagadia (2) Nandod (3) Dediapada (4) Sagbara (5) Valia and Tribal Pocket of Ankleshwar Taluka.

Non-Tribal area refers to the following talukas:-

(1) Bharuch (2) Hansot (3) Vagra (4) Jambusar (5) Amod and (6) Ankleshwar (excluding tribal pocket).

ASSESSMENT STUDY OF
SOCIO-ECONOMIC DEVELOPMENT
OF TRIBAL AREAS OF BHARUCH DISTRICT

CHAPTER - 1

INTRODUCTION

1.1 Introductory:

1.1.1 Climate, rainfall and topography of a region influence people inhabiting in it. This is also true for people residing in hilly terrains of Sahydri out-stretches on the eastern border of the State, commencing from semi-arid regions of Sabarkantha, Drought Prone Areas of PanchMahals to the heavy and assured rainfall areas of Surat, Valsad and Dangs districts. Total tribal population according to 1981 census of the State is 43.48 lakhs tribal persons constituting 14.2 percent of total population of the State. The tribal population is concentrated in 8 districts on the eastern border of the State, viz. Sabarkantha, Banaskantha, Panchmahals, Vadodara, Bharuch, Surat, Valsad and Dangs. Nearly 90 per cent of total tribals of the state reside in the above districts. These tribal areas form the water shed of inter-state rivers like Narmada, Tapi, Banas and Sabar-mati. The physical characteristics of the tribal regions described above have subjected the area with poor infra-structural development, inadequately developed economic activities and illiterate and primitive population. Lack of facilities like roads, power, irrigation, marketing etc. have insulated the area from outside influence of

change and development and left the people unexposed to modern skills and expertise. These people, therefore, pursued agriculture neglecting secondary and tertiary sectors of occupations. Vast forest areas and moderate mineral potential still await to be explored.

1.2 Developmental efforts

- 1.2.1 After independence constitutional provisions and other legislations have enjoined the states to undertake welfare measures to promote interests of the weaker sections of society and protect them from social injustice. Protective measures such as Community Development Programme and various sectoral schemes were taken to uplift them. But the strategies adopted for development prior to the Fifth Five Year Plan were towards achievement of rapid economic growth. Efforts were, therefore, concentrated to evolve strategies for industrial development and thereby step up general growth rate. There was an increase indeed in the national income and its per capita distribution. However, no change was realised in the life and living standards of people living below the poverty line. During the Fifth Five Year Plan a need was therefore felt to fill up the lacuna in the redistributive mechanism in the strategies during previous Five Year Plans. There was no special integration between macro level and micro level planning, for percolation of the benefits of development from micro levels to grass root level. The development

process started previously under the Tribal Development Blocks and thereafter by formulation of the Tribal Development Corporation, Community Development works programmes etc. was inadequate to meet with the long term development challenges of the region. An integrated area development approach was the ultimate solution to strengthen the infrastructural industrial base of tribal areas, and expose them to modern influences of science and technology. A time bound programme to bring about fundamental improvement in their living standard and automatically bring them on par with other areas and people residing therein, was therefore envisaged for focussing attention on accelerated development. A single line control approach was to be adopted to improve the execution of the programme

1.3 TRIBAL AREA SUB-PLAN

- 1.3.1 Within the frame-work of general plan and with the dictum equitable distribution of national resources and wealth development of all people and all areas, the Tribal Area Sub-Plan was implemented in the State in 1974. As per national aspirations, the objectives of the tribal area sub-plan are to narrow down the gap between the levels of development of tribal areas and other areas in the State. It is also sought to meet with tribal problems, to provide necessary inputs for investment needs and socio-economic growth of the

regions and their people. For controlling their exploitation at various levels, cooperative base will be strengthened.

1.3.2 Area of the Tribal Sub-Plan:

1.3.2.1 The whole tribal area in the State is divided into 9 viable units or projects on the basis of tribal populations. There would be one project for each comprehensive continuous area with 50 percent or more of tribal population. There are in all 32 tribal talukas and 15 tribal pockets covered under the 9 projects. One such project is located at Rajpipla in Bharuch district covering Jhagadia, Nandod, Dediapada, Sagbara and Valia talukas and tribal pocket area of Ankleshwar taluka.

1.4 Bharuch District under TASP:

1.4.1 The area covered under tribal area sub-plan is about 4105 sq.kms, which comes to 45 percent of the total geographical area of the district as against state percentage of 13.87. Among 8 districts under TASP in the state Bharuch stands fourth with 44.54 percent of tribal population. The project consists of 5 tribal talukas viz. Dediapada, Sagbara, Valia, Nandod, Jhagadia and part of Ankleshwar taluka under Tribal Pocket. While other Five talukas viz. Bharuch, Hansot, Vagra, Jambusar, Amod and a part of Ankleshwar talukas not covered by Tribal Pocket have been termed as non-tribal area.

1.5 Benchmark Survey:

1.5.1 Prior to implementation of the tribal area sub-plan, an advance action survey was carried out by the Directorate of Evaluation in 1973-74 to mark the levels of development reached in various spheres of socio-economic activities. After implementation of the tribal area sub-plan a follow up study is conducted to assess the progress of the programme. In this report an attempt has been made to bring out the changes effected at two points of time namely prior to the implementation of the TASP programme and the position obtaining at the end of the Fifth Plan after the implementation.

1.6 Methodology and limitations of the study.

1.6.1 Methodology and limitation of the study have been discussed at length in the previous benchmark report. Except few changes in the previous methodology other points remain the same. Changes are given in the following paragraph.

1.6.2 A taluka has been treated as a unit except in case of tribal pockets for identifying it as a tribal area. In case of tribal pockets, villagewise available data has been collected from various official records available with different government departments only for the villages included in tribal pockets and presented in the report as a tribal part of that taluka.

Thus the methodology for assessment survey report only differs where the tribal pockets are in existence from the methodology for the bench mark survey report as a taluka only had been treated as a unit at the time of bench mark survey report. Except above the methodology and the limitations are the same as for the bench mark survey report. An abstract showing methodology adopted and limitations for the earlier bench mark survey report is given in the appendix at the end of this report.

1.6.1.3 In this report the analysis would be confined to bring out the changes effected over the period of the implementation of the tribal area sub-plan and at the end of the Fifth Plan.

1.6.1.4 It may be added here that Tribal area sub-plan has laid much stress and thrust on the development of the primary sector on which a majority of the tribals depend. Various investment and institutional strategies adopted during the Fifth Five Year Plan, have made available cheap credit, water inputs and organisational help to bring out radical change in agricultural practices followed in the region. A period of 5 years is too short for setting definite trends. However it can give a picture of the economy and its direction through various socio-economic inputs made by the sectoral programmes in this tribal region.

1.7 Programmes & Priorities in the TASP:

1.7.1 Development priorities of TASP were fixed in accordance with the objectives. Eliminating tribals from exploitation gained higher priority. Core sectors of development was agriculture. Increased productivity, employment generation, irrigation and development of rural cottage and small scale industries for stepping up rural industrialisation received the main attention. The quality of life of the people would depend upon an efficient delivery system of social services like elementary education, improvement in the level of secondary education, drinking water supply, expansion and efficient distribution of health services. In the cooperative sector which plays a crucial role in the elimination of exploitation, provision of cheap credit required for purchase of inputs and consumption needs are being provided. Horticulture, pasture development, soil conservation and afforestation are the other important programmes taken in TASP which will augment agricultural productivity and will provide supplementary income to the target groups. Training programme is also important to impart skills required to find gainful employment in local and small scale industries. Sufficient weightages have therefore been given to programmes on education, health and generation of full employment for mitigating imbalances in the development of different regions in the State.

1.8 Content of the report

1.8.1 The first chapter of the report gives the background comparing the different socio-economic characteristics of Bharuch vis-a-vis the state. Important features in regard to physio-geographic and economic characteristics of the district by tribals and non-tribal areas are provided in Chapter-2. The main demographic characteristics as revealed by the Census of 1981 are discussed in Chapter-3. Chapter-4 discusses development of agriculture and allied sector. The information regarding industries, developments in the fields of banking and cooperative sectors are given in Chapter-5. Transport and communication facilities are discussed in Chapter-6. Chapter-7 deals with development in social services and basic amenities. The last Chapter-8 gives a summary of the report. Statements are furnished at the end of the report.

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CHAPTER - 2

General Features of the District

2.1 Location :

2.1.1 Bharuch district is situated on the southern part of the Gujarat State. It lies between $72^{\circ}-34'$ and $73^{\circ}-12'$ East longitude and $21^{\circ}-25'$ and $22^{\circ}-15'$ North latitude. It is bounded by Kheda and Vadodara in the North, by the Maharashtra State in the East, by Surat district in the South and by the Gulf of Cambay in the West.

2.2 Physio Geographical Features :

2.2.1 For administrative purpose, the district is divided into two sub-divisions viz. Bharuch sub-division and Rajpipla sub-division. Bharuch sub-division consists of Bharuch, Ankleshwar, Amod, Jambusar, Vagra and Hansot talukas whereas Rajpipla sub-division consists of Mandoā, Jhagadia, Valia, Dediapada and Sagbara talukas which incidentally are the tribal talukas of the district. There is a remarkable contrast in the physical features of these two sub-divisions. The district is largely an alluvial plain sloping towards the Gulf of Cambay. The Rajpipla sub-division is mostly a hilly region full of forests, with fertile and cultivable lands in the North and North-West.

2.2.1.1 The maximum and minimum temperature in the district during the three main seasons of the year is normally as below:

- (a) Monsoon (July to October)-
Maximum temp. 36° centigrade
Minimum temp. 16° centigrade
- (b) Winter (Nov. to Feb.)
Maximum temp. 39° centigrade
Minimum temp. 6° centigrade
- (c) Summer (March to June)
Maximum temp. 45° centigrade
Minimum temp. 20° centigrade

2.2.2.2 The rainfall in Bharuch district is fairly assured. The rainfall of last few years broadly indicates that the annual rainfall ranges between 1000m.m. to 1500 m.m. in five talukas of tribal area, while it ranges between 700 m.m. to 1200 m.m. in the talukas of the non-tribal area.

2.3 Regional Classification :

2.3.1 On the basis of broad topographical characteristics like soil conditions, land utilisation, crop pattern, availability of irrigation facilities, tribal population etc., the district can be divided into three regions as follows:-

2.3.1.1 Region-I consists of Dediapada, Sagbara, Nanded, Jhagadia and Valia taluka. This region is full of forests and has mountain ranges. The region is inhabited by scheduled tribes and it is declared as tribal area for the purposes of implementing schemes relating to Tribal Sub-Plan.

2.3.1.2 Region-II consists of the western portion of the district comprising the talukas of Jambusar, Vagra and Hansot. It has a coastal line of 80 kms. This region is locally known as the 'Bara tract'. Large areas in this region are unsuitable for cultivation due to Khar land and Salinity in water.

2.3.1.3 Region-III consists of central part of the district and includes Bharuch, Ankleshwar and Amod talukas. This region is an industrialised one and consists of rich oil fields around Ankleshwar. Black soil of this region is highly fertile and as such it is rich in agriculture.

2.4 Area and Population :

2.4.1 According to 1981 Census Bharuch district has geographical area of 9038 sq.kms. and has population of 12.96 lakhs persons which works out to 3.8 percent of total population of the State. The density of population thus works out to 143 persons per sq.km. against 174 persons per sq.km. in Gujarat State. It is 145 persons per sq.km. in tribal area of the district. Details are given in the following table.

TABLE - 1

Area and population of Gujarat State and Bharuch District.

Item	Unit	1971			1981		
		Gujarat State		Bharuch District	Gujarat State		Bharuch District
		Total	Tribal Area		Total	Tribal Area	
1	2	3	4	5	6	7	8
Area	Sq. km.	195984	9045	4125	196024	9038	4105
Population (000)		26697	1110	510	34086	1296	596
Density of Population per Sq. km.		136	123	124	174	143	145

Note:- Figures of Area are as supplied by Surveyor General.

2.4.1.2 According to the Census of India 1981, seven places of the district have been declared as urban areas. They

are Bharuch, Ankleshwar, Rajpipla, Palej, Hansot, Amrod and Jambusar. Only Rajpipla town is within the tribal area region. The urban population to total population in the district works out to 18.63 percent as against 31.08 percent Gujarat State. For tribal area and non-tribal area in the district these percentages are 4.91 and 30.3 respectively.

2.5 Scheduled Castes & Scheduled Tribes :

2.5.1 The district has a sizeable population of Scheduled Tribes as can be seen from the following table :

TABLE - 2

Percentages of scheduled tribes and scheduled castes population to total population.

Class of Population	Gujarat State		Bharuch District			
	Persons (000)	Percent	District as a whole		Tribal area	
			Persons (000)	Percent	Persons (000)	Per
1	2	3	4	5	6	7
<u>1981</u>						
Scheduled Tribes	4849	14.22	577	44.54	429	71.98
Scheduled Castes	2138	7.16	60	4.60	14	2.35
Others	26799	78.62	659	50.86	153	25.67
Total	34086	100.00	1296	100.00	596	100.00
<u>1971</u>						
Scheduled Tribes	3734	13.98	487	43.87	365	71.57
Scheduled Castes	1825	6.84	53	4.78	13	2.55
Others	21138	79.18	570	51.35	132	25.88
Total	26697	100.00	1110	100.00	510	100.00

2.5.1.1 It can be seen from the above table that as per 1981 Census 44.54 percent of population of the district comprises of scheduled tribes as against 4.22 percent in the Gujarat State. This percentage is as high as about 72 in the tribal area of the district. It is worth noting that the tribal population of the district accounts for 12 percent of the total tribal population of the State. The scheduled castes population in the district is 4.60 percent which is less than the State percent of 7.16. It is only 2.35 percent in the tribal area of the district.

2.5.1.2 The details regarding area and population in the tribal area of the district, consisting of five talukas and one tribal pocket are presented in the table below:-

TABLE - 3

Area and Population of tribal talukas.

Item	Year of Census	Unit	District	Tribal area	Percentage share of tribal area
1	2	3	4	5	6
1. Area	1981	Sq. km.	9038	4105	45.42
	1971	"	9045	4125	45.61
2. Population	1981	'000	1296	596	45.99
	1971	"	1110	510	45.95
3. Tribal Population	1981	'000	577	429	74.35
	1971	"	487	365	74.95
4. Villages					
(a) Inhabited	1981	No.	1123	765	68.12
	1971	"	1137	779	68.51
(b) Uninhabited	1981	No.	66	62	93.94
	1971	"	73	66	90.41
(c) Total	1981	No.	1189	827	69.55
	1971	"	1210	845	69.83
5. Towns	1981	No.	7	1	14.29
	1971	"	7	1	14.29

and population

2.5.1.3 The percentage share of area under tribal areas ^{as well as} ~~to the~~ ^{Tribal population} to the district total is about 46 percent each.

Nearly 75 percent of the tribal population of the district resides in the tribal area. Tribal area accounts for more than two-third of villages in the district.

2.5.1.4 The talukawise areas and population of 5 tribal talukas and one tribal pocket are given in the following table :

TABLE - 4

Area and population of tribal talukas.

Taluka	Year	Area in Sq. km.	Population			No. of villages	No. of towns
			Total	Tribal	Percent		
1	2	3	4	5	6	7	8
Jhagadia	1981	812.5	128134	82329	64.2	168	-
	1971	813	120000	73636	61.4	168	-
Wandod	1981	1119.7	179263	117191	65.4	205	1
	1971	1131	148294	98379	66.3	209	1
Dodiapada	1981	1027.9	88431	82545	93.3	214	-
	1971	1022	67683	63748	94.2	214	-
Sagbara	1981	358.0	58585	52301	89.3	107	-
	1971	400	52576	47724	90.8	121	-
Valia	1981	514.0	94319	71989	76.3	95	-
	1971	514	80927	61903	76.5	95	-
Ankleshwar Pocket	1981	273	47042	22501	47.8	38	-
	1971	245	40874	19972	48.9	38	-
Total	1981	4105	595774	428356	72.0	827	1
	1971	4125	510354	365362	71.6	845	1

2.5.1.5 Out of five talukas of the tribal region, Dodiapada has the highest proportion of tribal population (93.3) followed by Sagbara (89.3) and Valia (76.3) according to 1981 Census. The lowest proportion was in Ankleshwar tribal pocket i.e. about 48 percent.

2.6 Literacy

2.6.1 As revealed by the census of India 1981, there is not much variation in the literacy rate of Bharuch district and that of the Gujarat State which can be seen from the following table.

TABLE - 5

Literacy Rate by Sex.

Sex	Gujarat State		Bharuch District total population		Tribal area	
	1971	1981	1971	1981	1971	1981
I	2	3	4	5	6	7
Males	46.1	54.5	46.4	55.5	35.1	46.9
Females	24.7	32.3	24.5	33.2	15.3	24.4
Total	35.8	43.7	35.7	44.7	25.4	35.9

2.6.1.1 The above table reveal that the literacy rate in Bharuch district is slightly higher when compared with that of the State. During the decade, the literacy rate in the State has increased from 35.8 percent to 43.7 percent, while in Bharuch district it has increased from 35.7 percent to 44.7 percent. As far as tribal area of the district is concerned, the literacy rate has gone up from 25.4 percent in 1971 to 35.9 percent in 1981.

2.7 Working Force

2.7.1 As per Census of India 1981, the proportion of main workers to total population works out to 37.2 percent for the district as against 32.2 percent in the State. The details

regarding the proportion of workers to total population by sex are given in the following table :

TABLE - 6

Percentage of workers to total population.

Sex	Gujarat State		Bharuch District		Only in Tribal area	
	1981	1971	1981	1971	1981	1971
1	2	3	4	5	6	7
Males	52.2	51.2	54.9	52.5	56.4	53.8
Females	11.0	10.3	13.5	17.2	23.6	20.0
Total	32.2	31.4	37.2	35.3	40.3	37.2

2.7.1.1 It can be seen that the proportion of workers to total population among males and females is higher in the tribal area of the district.

2.8 Classification of working population :

2.8.1 According to the Census of India 1981, as many as 71.3 percent of main workers in the district were classified as agricultural workers. The proportion of agricultural workers to the total workers in the district is more than that of the State. Within the district ^{this} proportion is more (80.3 percent in tribal area than that of in the district (71.3 percent). Details are given in the following table.

TABLE - 7

Classification of workers by Industrial Categories, 1961

Sr. No.	Industrial category	Gujarat State		Bharuch District		Tribal Area	
		No. of workers	Percentage	No. of workers	Percentage	No. of workers	Percentage
1	2	3	4	5	6	7	8
1.	Cultivators	4114744	37.5	144180	29.9	88798	36.9
2.	Agriculture labourers	2488800	22.7	199914	41.4	104319	43.4
3.	Household Industry, manufacturing processing service & repairs.	267280	2.4	8881	1.8	4871	1.8
4.	Other workers.	4112718	37.4	109901	26.9	42393	17.9
	Total	10924042	100.0	485876	100.0	240881	100.0

2.8.1.2 So far as district is concerned, 71.3 percent of workers are engaged in agriculture, against 60.2 percent in the State. Amongst the workers engaged in agriculture, only 29.9 percent are cultivators and 41.4 percent are agricultural labourers in the district compared to 37.5 percent as cultivators and 22.7 percent as agricultural labourers respectively in the State. Bharuch district has thus a large proportion of workers (41.4 percent) as agricultural labourers. Within the district the proportion of agricultural workers is still high (80.3 percent) in tribal area.

2.9 Agriculture

2.9.1 Land-holding:

2.9.1.1 The following table gives the distribution of

operational holdings and area of land held according to different size of classes in Bharuch district on the basis of Agriculture Census 1976-77.

TABLE - 8

No. of holders and area of land held by them according to size of operational holdings.

Size class of operational holdings (In hecets.)	Year	Gujarat State		Bharuch District		Tribal Area(excluding Tribal Pocket)	
		No. of holders	Area of holding (Hecets.)	No. of holders	Area of holding (Hecets.)	No. of holders	Area of holding (Hecets.)
1	2	3	4	5	6	7	8
Upto 2 hecets.	1976-77	1196658 (44.1)	1120838 (11.1)	53166 (46.7)	55312 (13.0)	23419 (44.9)	23192 (13.3)
	1970-71	1042736 (42.9)	980999 (9.8)	53939 (44.6)	54451 (12.2)	23646 (44.7)	24198 (13.3)
2 to 5 hecets.	1976-77	856032 (31.6)	2781967 (27.7)	38891 (31.2)	125520 (29.3)	17998 (34.5)	58088 (33.4)
	1970-71	731148 (30.1)	2386466 (23.9)	38378 (31.7)	123941 (27.3)	18199 (34.4)	58413 (32.0)
5 to 20 hecets.	1976-77	638969 (23.6)	5523186 (54.8)	26951 (21.6)	230416 (53.7)	10548 (20.2)	87097 (50.1)
	1970-71	625640 (25.7)	5694902 (56.9)	27711 (22.9)	243884 (54.6)	10712 (20.2)	89965 (49.3)
Above 20 hecets.	1976-77	21478 (0.8)	648583 (6.4)	620 (0.5)	17080 (4.0)	205 (0.4)	5521 (3.2)
	1970-71	33042 (1.3)	937266 (9.4)	902 (0.8)	24125 (5.4)	353 (0.7)	9759 (5.4)
Total	1976-77	2713137 (100)	10074574 (100)	124628 (100)	428828 (100)	52170 (100)	173898 (100)
	1970-71	2432567 (100)	9999633 (100)	120980 (100)	446401 (100)	52910 (100)	182335 (100)

Note:- (1) Figs. in bracket represent the percentage to total.
 (2) Villagewise data is not available. So Ankleshwar pocket is included in non-tribal area.

2.9.1.2 It can be seen that in Bharuch district the proportion of land-holders having holdings upto 5 hecsts. of land was slightly larger (77.9 percent) than that of the State(75.7 percent) as a whole in 1976-77. This was still high(79.4 percent) in case of tribal area of Bharuch district. The proportion of small farmers upto 2 hecsts. in the district was 46.7 percent against 44.1 percent in the State, and 44.9 percent in the tribal area of the district. Naturally the proportion of large holdings and the proportion of area of land held by them in Bharuch were little less than the corresponding figures for the State and little more than the corresponding figures for the tribal area of the district. It may be seen that the proportion of largest class of holding above 20 hecsts. being 0.8 percent in the State accounted as large as 6.4 percent of total area whereas in Bharuch district, the share of this size class is only 0.5 percent in total holders and 4.00 percent in the area held. In the tribal area of the district 0.4 percent holders were possessing above 20 hecsts of land and they possessed 3.2 percent of total land held.

2.9.2 Cropping Pattern :

2.9.2.1 The area under different crops for different years is given in the table below :-

TABLE - 9

Area under different crops. (Fgs. in '00 hects.)

Sr. No.	Item	Gujarat State				Bharuch District			
		1970-71	1976-77	1977-78	1978-79	1970-71	1976-77	1977-78	1978-79
1	2	3	4	5	6	7	8	9	10
1.	Rice	4890 (4.6)	4740 (4.6)	5124 (4.9)	5291 (5.0)	225 (4.9)	186 (4.4)	191 (4.5)	205 (4.6)
2.	Wheat	5770 (5.5)	6014 (5.8)	5598 (5.4)	5523 (5.3)	223 (4.9)	306 (7.2)	211 (4.9)	200 (4.5)
3.	Juwar	13340 (12.7)	11064 (10.6)	10981 (10.5)	10826 (10.3)	755 (16.6)	937 (22.0)	932 (21.9)	973 (22.1)
4.	Maize	2640 (2.5)	3044 (2.9)	2891 (2.8)	2994 (2.8)	18 (0.4)	67 (11.6)	41 (1.0)	37 (0.8)
5.	Bajri	17820 (16.9)	14153 (13.6)	13829 (13.2)	14537 (13.9)	96 (2.1)	40 (0.9)	60 (1.4)	60 (1.4)
6.	Other food crops	13780 (13.1)	11670 (11.2)	11602 (11.2)	12540 (11.9)	418 (9.1)	548 (12.8)	614 (14.3)	864 (19.6)
7.	Total food crops	58240 (55.3)	50685 (48.7)	50065 (48.0)	51711 (49.2)	1735 (38.8)	2084 (48.9)	2050 (48.0)	2339 (53.0)
8.	Cotton	15820 (15.0)	18556 (17.8)	19696 (18.9)	18222 (17.3)	2361 (51.9)	1582 (37.2)	1679 (39.3)	1513 (34.3)
9.	Tobacco	870 (0.8)	1245 (1.2)	1256 (1.2)	1217 (1.2)	4 (0.1)	13 (0.3)	7 (0.2)	4 (0.1)
10.	Groundnut	17580 (16.7)	20766 (20.0)	20515 (19.6)	20855 (19.8)	87 (1.9)	178 (4.2)	135 (3.15)	117 (2.7)
11.	Total Food crops	N.A.	N.A.	N.A.	N.A.	"	"	344 (8.0)	357 (8.1)
12.	Other Non-food crops	12890 (12.2)	12879 (12.3)	12853 (12.3)	13084 (12.5)	382 (8.3)	400 (9.4)	401 (9.4)	78 (1.8)
13.	Total non-food crops	47160 (44.7)	53356 (51.3)	54320 (52.0)	52378 (50.8)	2834 (62.0)	2174 (51.1)	2224 (52.0)	2069 (47.0)
14.	Gross cropped area	105400 (100)	104041 (100)	104385 (100)	105089 (100)	4569 (100)	4258 (100)	4274 (100)	4408 (100)

Figures in brackets show the percentage to total cropped area.

-26-
TABLE - 9 (Continued)

Area under different crops (Figs. in '00 hecets.)

Sr. Item No.	Tribal area (including Tribal Pocket)			
	*1970-71	1976-77	1977-78	1978-79
1 2	11	12	13	14
1. Rice	131 (9.5)	135 (6.9)	148 (7.5)	162 (8.2)
2. Wheat	15 (0.8)	30 (1.5)	27 (1.3)	22 (1.1)
3. Juwar	415 (21.9)	514 (26.1)	500 (25.4)	530 (26.8)
4. Maize	17 (0.9)	33 (2.0)	40 (2.0)	36 (1.8)
5. Bajri	43 (2.5)	38 (2.0)	33 (1.7)	23 (1.4)
6. Other food crops	214 (11.2)	300 (15.2)	339 (17.2)	332 (19.3)
7. Total food crops	890 (46.8)	1055 (53.7)	1087 (55.1)	1160 (58.6)
8. Cotton	731 (41.1)	602 (30.9)	511 (29.5)	536 (27.1)
9. Tobacco	2 (0.1)	6 (0.3)	1 (0.2)	3 (0.1)
10. Groundnut	70 (3.6)	139 (7.2)	120 (6.1)	106 (5.4)
11. Total fodder crops	-	-	-	-
12. Other non-food crops	153 (8.4)	56 (7.9)	179 (9.1)	174 (8.8)
13. Total non-food crops	1011 (53.2)	999 (49.3)	885 (44.9)	819 (41.4)
14. Gross cropped area	1901 (100)	1964 (100)	1972 (100)	1979 (100)

*excluding Tribal Pocket.

2.9.2.2 From the above table it can be seen that during 1977 to 1978-79 there is negligible change in the area under crop at district and tribal area level. Percentage of area under food crops to total gross cropped area has decreased by 6 percent during this period at State level while it has increased by 15 percent at district level. For tribal area this percentage has increased by 12 percent.

2.9.2.3 In the district, Juwar is the important crop among food crops and among non-food crops cotton is the important crop. In 1978-79 cotton and juwar accounted for 34.3 percent and 22.1 percent respectively of total cropped area. The cotton crop showed downward trend during 1978-79, while juwar showed an upward trend during 1978-79. Similar trend is also noticed in case of tribal areas of the district.

2.10 Irrigation :

2.10.1 The following table gives the data on gross area irrigated to gross area sown.

TABLE - 10

Percentage of gross area irrigated to gross cropped area. (Figs. in '000 heccts.)

Sr. Item No.	Gujarat State				Bharuch District				Tribal area (including TP)					
	1970	1976	1977	1978	1970	1976	1977	1978	*1970	1976	1977	1978		
	-71	-77	-78	-79	-71	-77	-78	-79	-71	-77	-78	-79		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. Gross cropped area	10540	10404	10438	10509	457	426	427	440	190	196	197	198		
2. Gross irrigated area	1494	1774	1936	2020	56	33	40	42	18	18	18	17		
3. Percentage of gross area irrigated to gross cropped area.	14.2	17.0	18.5	19.2	12.2	7.7	9.4	9.5	9.5	9.7	9.6	8.6		

* excluding Tribal pocket.

2.10.2 The proportion of irrigation in Bharuch district is less as compared to that in the State. By the end of 1978-79 only 9.5 percent of the area to gross cropped area was irrigated in the district. For tribal area it was 8.6 percent. In case of district as well as tribal areas of the district the percentages of irrigation have decreased during 1970-71 to 1978-79, the following table furnishes the information regarding the source-wise net area irrigated.

TABLE - 11

Net Area irrigated by different sources. (Figs. in '00 hecets.)

Source of irrigation	Gujarat State			Bharuch District			Tribal area		
	1970-71	1977-78	1978-79	1970-71	1977-78	1978-79	1970-71*	1977-78	1978-79
1	2	3	4	5	6	7	8	9	10
Canals	2364 (17.3)	3268 (19.1)	3257 (18.3)	23 (4.3)	67 (17.5)	94 (23.0)	10 (5.6)	15 (8.7)	16 (9.8)
Tanks	372 (2.7)	330 (1.9)	349 (2.0)	7 (1.3)	5 (1.3)	7 (1.7)	2 (1.1)	3 (1.7)	4 (2.5)
Wells	10331 (79.0)	13458 (78.6)	14109 (79.2)	451 (82.2)	203 (68.5)	261 (64.0)	106 (59.6)	137 (79.2)	128 (78.5)
Tube wells	-	-	-	-	29 (7.5)	29 (7.1)	-	-	-
Other sources	141 (1.0)	93 (0.5)	97 (0.5)	67 (12.2)	20 (5.2)	17 (4.2)	60 (33.7)	18 (10.4)	15 (9.2)
Total	13708 (100)	17149 (100)	17812 (100)	548 (100)	384 (100)	408 (100)	178 (100)	173 (100)	163 (100)

*excluding Tribal Pocket.

2.10.3 It is observed from the above table that wells formed the main source of irrigation at State as well as district and tribal area level. The area irrigated by canals was 23.0 percent in the district in 1978-79 against the corresponding

figure of 18.3 percent in the State. The area irrigated by wells and tube-wells was 79.2 percent in the State against 70.6 percent in the district in 1978-79. As far as tribal area is concerned, percentage of irrigation by wells and tube-wells has increased to 78.5 percent in 1978-79 from 59.6 percent in 1970-71. Percentage of irrigation by canals in tribal areas of the district was less i.e. 9.8 at the end of 1978-79.

2.11 Livestock and Poultry :

2.11.1 As per Livestock Census of 1977, the total livestock population in the district was 4.53 lakhs which was only 3.1 percent of the total livestock population in the State. The proportion of poultry population in the district to the total poultry population in the State was 6.6 percent. The following table gives the comparative position of livestock and poultry population in the State and District.

TABLE - 12
Livestock Population.

(Figs. in '000)

Item	Gujarat State		Bharuch District		Tribal area	
	1972	1977	1972	1977	1972	1977
1	2	3	4	5	6	7
<u>Cattle</u>						
Male over 3 years	3065 (20.3)	2876 (20.0)	136 (20.9)	119 (26.3)	34 (29.9)	72 (25.2)
Female over 3 years	1812 (12.0)	1697 (11.8)	53 (11.7)	53 (11.7)	44 (15.7)	45 (15.8)
Young stock	1580 (10.5)	1433 (9.9)	51 (11.2)	53 (11.7)	41 (14.6)	45 (15.8)
Total cattle	6457 (42.8)	6006 (41.7)	240 (52.8)	225 (49.7)	169 (60.2)	162 (56.8)
<u>Buffaloes</u>						
Male over 3 years	43 (0.3)	35 (0.2)	0.5 (0.1)	0.5 (0.1)	-	-
Female over 3 years	2047 (13.6)	2093 (14.6)	56 (12.4)	60 (13.3)	24 (8.5)	28 (9.8)
Young stock	1378 (9.1)	1345 (9.3)	37 (8.1)	37 (8.1)	16 (5.7)	17 (6.0)
Total	3468 (23.0)	3473 (24.1)	93.5 (20.6)	97.5 (21.5)	40 (14.2)	45 (15.8)
<u>Other livestock</u>						
Sheep	1722 (11.4)	1592 (11.1)	4.5 (1.0)	6.5 (1.4)	N.A.	2 (0.7)
Goats	3209 (21.3)	3084 (21.4)	110 (24.2)	116 (25.6)	N.A.	73 (25.6)
Others	241 (1.5)	251 (1.7)	6.5 (1.4)	8 (1.8)	N.A.	3 (1.1)
Total	5172 (34.2)	4927 (34.2)	121 (26.6)	130.5 (28.8)	72 (25.6)	78 (27.4)
Total livestock	15097 (100)	14406 (100)	454.5 (100)	453 (100)	281 (100)	285 (100)
Poultry	2736	3496	159	228	112	170

Note: -Percentage in bracket indicates the percentage to total livestock population.

2.11.2 Cattle and Buffaloes account for about 71 percent of the livestock population. It is very significant that this difference (26.3 percent) is mainly due to large proportion of cattle male population of over 3 years in the district (26.3 percent) against 20 percent in the State. For tribal area 71 percent of the livestock is under the group of Cattle & Buffaloes. One of the important reasons for this is that transport of forest produce needs more bullocks as draught animals. Proportion of goats to total livestock population in the district is one-fourth. For tribal area same proportion is observed. During the interval of 5 years 1972-77 the total cattle population has decreased by 7 percent while buffaloes population has increased by 0.14 percent, population of sheep has decreased by 7.5 percent followed by goats 3.9 percent in the State. Similarly overall cattle population in the district has decreased by 6.3 percent while buffaloes population has increased by 4.3 percent and other livestock population has increased by 7.9 percent in 1977 compared to the position of 1972 Livestock Census. As far as tribal area is concerned, the total livestock population is increased only by 1.4 percent during 1972 to 1977. There is substantial decrease in cattle population of male over 3 years. The percentage decrease comes to about 14 percent. Similarly percentage increase in poultry population comes to about 52 percent.

2.12. Forests : -----

2.12.1 Bharuch district contributes 11 percent of total forest

area of the State. Details are given in the following table.

TABLE - 13

Area under forests in sq. kms.

Item	Gujarat State			Bharuch District		
	1970-71	1973-74	1978-79	1970-71	1973-74	1978-79
1	2	3	4	5	6	7
1. Forest area in Sq. kms.	15731	15683	19712	1423	2127	2193
2. Geographical area	195984	195984	196024	9045	9045	9038
3. Percentage of forest area to total geographical area	8.0	8.0	10.0	15.7	23.5	24.3

2.12.2 The area under forest in Bharuch district was 2193 sq. kms. as against 19712 sq. kms. in Gujarat State in 1978-79. The table given above shows that the forest area accounts for 24.3 percent of total geographical area in the district as against 10 percent in the State. It may be proper to point out that most of the tribal area of the district have large forest areas and as such Bharuch district has vast potential for development of its forest resources. In absence of villagewise data, separate information for tribal area could not be made available.

2.13 Industries :

2.13.1 Bharuch district is one of the industrially backward districts of the State. At the end of 1977 there were only 132 factories employing 9540 persons in Bharuch district

accounting for only 1.4 percent of total registered factories and 2.4 percent of total employment in the State. The important industries in the district are cotton ginning and pressing and textile manufacturing. The following table indicates the growth of registered factories and daily number of workers engaged therein over a period of 9 years in Gujarat State, Bharuch district and tribal area in the district.

TABLE - 14

No. of working factories and average no. of workers employed.

Year	Gujarat State		Bharuch District		Tribal area (excluding Tribal Poch)	
	No. of working factories	Average no. of workers	No. of working factories	Average no. of workers	No. of working factories	Average no. of workers
1	2	3	4	5	6	7
1970	5544	437554	88	10538	21	2021
1973	6839	501097	88	10248	21	2220
1977	9508	565110	132	9540	22	1213
1979	10611	639104	169	12692	N.A.	N.A.

2.13.2 From the figures presented above, it is evident that the pace of industrial development in Bharuch district is gradually increasing. The number of factories in the State increased from 6839 in 1973 to 10611 in 1979, while in Bharuch district, the number has increased from 88 to 169 indicating an increase of 92 percent. Rich oil field and natural gas has been found around Ankleshwar. Industrial development is limited to non-tribal area in the district. During 1970 to 1977 there was addition of only one working factory in tribal area. Average no. of workers has

decreased from 2021 to 1213 during the same period.

2.14 Electricity :

2.14.1 At the ^{end of} the year 1973-74, 287 villages (25.2 percent) in the district were electrified as against 5674 villages (31.04 percent) in the State. At the end of March 1979, 425 villages of Bharuch district were electrified, as against 9464 villages in the State. In terms of proportion, 37.4 percent of villages of the district were electrified as compared to 51.8 percent in the State. As far as tribal area is concerned percentage of villages electrified to total no. of villages was 16.4 percent in 1973-74 which has increased to 29.3 percent in 1978-79.

2.15 Transport :

2.15.1 The following table presents the information regarding railway line length and bus facilities in the district and the State.

TABLE - 15

railway line length and Bus stops in the State and district.

(Position as on 31-3-80)

Item		Gujarat State		Bharuch District
1		2		3
1. Broad Gauge	Kms.	1153		50
2. Motor Gauge	"	3328		-
3. Narrow Gauge	"	1120		214
		<u>5601</u>		<u>264</u>
Villages directly served with (S.T.) Bus Services			Percentage	Percentage
1. Throughout year		3057	43.57	360 31.66
2. Fair season only		<u>3656</u>	<u>37.08</u>	<u>441</u> <u>39.05</u>
		14913	30.65	804 70.71

2.15.2 It can be seen that in Bharuch district, the total length of railway line is 264 kms. against 5601 kms. in Gujarat State. In Bharuch district, 360 villages were directly connected with S.T. services throughout the year and 444 villages were connected with S.T. in fair season, whereas the corresponding figures of the State were 8057 and 6856 villages respectively as on 31-3-80. Separate data for tribal area is not available.

2.16 Communications :

2.16.1 The following table presents the information regarding no. of post offices in the State, district and tribal area of the district.

TABLE - 16

No. of post offices and post & telegraph offices in Gujarat State, Bharuch district and tribal area of Bharuch district.

Item	Gujarat State		Bharuch District		Tribal Area	
	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79
1	2	3	4	5	6	7
Post Offices	7209	7554	344	406	156	202
Post & Telegraph Offices	675	1322	26	50	10	10

2.16.2 It can be seen that there were 406 post offices in the district as against 7554 such offices in Gujarat State. The no. of post offices has increased from 344 in 1973-74 to 406 in 1978-79 in Bharuch district, while it has increased from 7209 to 7554 during the same period in the State. By the end of March 1979 there were 35.7 percent villages with post offices in the district, against 43.8 percent in the State. In tribal area there is no

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increase in the no. of post & telegraph offices. The no. of post offices has increased from 156 in 1973-74 to 202 in 1978-79. By the end of March 1979 there were 26 percent of villages with post offices in tribal area.

2.17 Education :

2.17.1 Details regarding no. of primary schools in the tribal area, district and in the State are given in the following table.

TABLE - 17

No. of villages having primary schools.

Item	Gujarat State		Bharuch District		Tribal area	
	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79
1	2	3	4	5	6	7
No. of villages with primary schools	16130	17042	989	1053	641	698
No. of primary schools	22079	23640	1298	1298	718	814
Percentage of villages with primary schools	87.2	92.2	87.0	92.4	82.3	89.6

2.17.1.2; It can be seen from the above table that there were 1298 primary schools in the district against 23640 primary schools in the State / As. on 31st March 1979, 1053 villages (92.4 percent) were provided with primary schools in the district against 17042 villages (92.2 percent) in the State. As far as tribal area is concerned, 698 (89.6 percent) villages have been covered with the facility of primary schools by the end of 1978-79.

2.13 Banking :

2.13.1 The following table presents the data on bank facilities available in tribal area, district and in the State.

TABLE - 13

No. of Scheduled and cooperative bank offices.

Sr. No.	Item	Gujarat State		Bharuch District		Tribal area (including TP)	
		1973-74	1978-79	1973-74	1978-79	1973-74	1978-79
1	2	3	4	5	6	7	8
<u>Scheduled Bank</u>							
1.	No. of places having bank office	362	1011	22	34	9	14
2.	No. of bank offices	1409	2204	38	63	11	18
3.	Population per bank office	18949	12113	29200	17338	46396	28353
<u>Cooperative Bank</u>							
4.	No. of places having bank offices	523	690	24	31	9	11
5.	No. of bank offices	748	1122	30	40	11	13
6.	Population per bank office	35691	23794	36987	27740	46396	39253

2.13.1.2 It can be seen that Bharuch district is relatively poor in respect of banking facilities. At the end of March 1979 there was one scheduled bank office on an average to serve 17 thousand persons in Bharuch district, as against a population of 12 thousand in the State. On an average a cooperative bank in the district served a population of about 27 thousand persons, against 24 thousand persons in the State. As far as tribal area

in the district is concerned, one scheduled bank covered the population of 28 thousand and average coverage of cooperative bank is to the extent of 39 thousand population by the end of 1978-79, which indicates that the district as a whole is having better banking facilities than that in the tribal area in the district.

CHAPTER - 3

Demographic Characteristics

3.1 Introduction :

3.1.1 This chapter deals with the analysis of the demographic characteristics of the tribal area vis-a-vis the non-tribal area as revealed by the Census, 1981. Density, sex ratio, literacy rate, labour participation rate and industrial classification are the important aspects covered in this analysis. Separate data for tribal communities living in the tribal areas are given wherever possible.

3.2 Tribal Population :

3.2.1 The tribal population accounts for 44.5 percent of total population of the district. In the tribal area 72 percent of the total population belongs to scheduled tribes. The following table presents the information of scheduled tribes and scheduled castes in tribal and non-tribal areas.

TABLE - 19

Population of scheduled tribes and scheduled castes in tribal and non-tribal area of district.

Category of area	Total population ('000)		Scheduled Tribes persons ('000)		Scheduled Castes persons ('000)	
	1981	1971	1981	1971	1981	1971
	2	3	4	5	6	7
Tribal area	596	510	429 (71.9)	365 (71.6)	14 (2.3)	13 (2.5)
Non-Tribal area	700	600	148 (21.2)	122 (20.3)	46 (6.5)	40 (6.8)
District	1296	1110	577 (44.5)	487 (43.9)	60 (4.6)	53 (4.8)

Note:—Figures in brackets indicate the percentage to total population in the respective category.

3.2.1.2 It may be noted that the tribal area of the district has only 2.3 percent of population belonging to scheduled castes. The talukawise data reveals that Jambusar taluka of non-tribal area has the highest percent (8.4 percent) of scheduled caste population, followed by Hansot taluka (7.6 percent). Dediapada taluka has the lowest percentage (0.7 percent).

3.3 Growth of Population :

3.3.1 The following table gives data regarding the growth of population between 1971 and 1981 for the tribal and non-tribal area.

TABLE - 22
Growth of Population 1971-81 (Figs. in 000)

Taluka	1971		1981		Percentage increase in 1981 over 1971	
	Total population	Tribal population	Total population	Tribal population	Total population	Tribal population
1	2	3	4	5	6	7
1. Jhagadia	120	73	128	83	6.7	11.8
2. Nanded	148	98	179	117	20.9	19.1
3. Dediapada	68	64	88	82	30.7	29.5
4. Sagbara	52	48	59	52	11.4	9.6
5. Valia	81	62	95	72	16.5	16.3
6. Ankleshwar T.P.	41	20	47	23	15.1	12.7
Total Tribal area	510	365	596	429	16.7	17.4
Non-Tribal area	600	122	700	148	16.9	22.2
District	1110	487	1296	577	16.8	18.6

3.3.1.2. It is observed that the growth of population during the decade 1971-81 was slightly higher among the tribals (18.6 percent) than that of general population (16.3 percent). Within the district it is interesting to point out that as far as general growth rate is concerned, there is negligible difference between tribal and non-tribal area. However for tribal population this difference is substantial.

3.4 Density of Population :

3.4.1 According to 1981 Census the average density of population per sq.km. in the tribal area is 145 persons as against 192 persons in the non-tribal area. Details are given in the following table.

TABLE - 21
Density of Population

(1981)

Type of area		Area in sq.km.	Population	Density of population per sq.km.
1		2	3	4
Tribal area	1981	4105.1	595774	145.0
	1971	4125	510354	124.0
Non- Tribal area	1981	3655.8	700677	192.0
	1971	3680	599247	163.0

Figures of area are based on land use area (Statement No.11&12).

3.5 Rural Population :

3.5.1 The proportion of rural population to total population in Bharuch district is 81.4 percent, while the proportion of rural population in tribal area is 95.1 percent as against 69.7 percent in non-tribal area. In comparison with the 1971 Census, the proportion of rural population to total

population has registered a slight decline. The necessary details are given in the following table.

TABLE - 22

Proportion of Rural Population to total population.

Type of area	1971		1981	
	Rural population	Percentage to total population	Rural population	Percentage to total population
1	2	3	4	5
Tribal area	484585	94.9	566548	95.1
Non-Tribal area	432002	72.1	488394	69.7
District	916587	82.6	1054942	81.4

3.6 Urban Population :

3.6.1 Out of 7 towns in the district, only one town viz. Rajpipla of the Madod taluka is in the tribal area. The proportion of urban population to total population in tribal area is only 4.9 percent, as against 30.3 percent of the non-tribal area as can be seen from the information presented below.

TABLE - 23

Percentage of urban population to total population.

Type of area	Total population		Urban population		Percentage of urban to total population	
	1971	1981	1971	1981	1971	1981
1	2	3	4	5	6	7
Tribal area	519354	595774	25769	29226	5.0	4.9
Non-Tribal area	599247	700677	167245	212283	27.9	30.3
District	1109601	1296451	193014	241509	17.4	18.6

3.7 Sex Ratio :

3.7.1 The following table gives the sex ratio of females per 1000 males in the tribal and non-tribal areas of the district.

TABLE - 24

Sex Ratio in tribal and non-tribal area.

Type of area	Sex ratio females per 1000 males	
	1971	1981
1	2	3
Tribal area	963	956
Non-Tribal area	939	932
District	950	943

3.7.1.2 It can be seen that the sex ratio in the tribal area (956 females per 1000 males) is slightly higher than the non-tribal area (932). It is interesting to point out that in Sagbara taluka of the tribal area, there are 1023 females per 1000 males.

3.8 Literacy :

3.8.1 The data on literacy obtained from the 1981 Census shows wide variation between the literacy rates in the tribal and non-tribal area of the district. According to 1981 Census, only 35.9 percent of persons in the tribal area are literate as against 52.1 percent in the non-tribal area. The following table furnishes the literacy rates based on 1971 and 1981 Census data.

TABLE - 25

Percentage of literacy by sex.

Type of area	1971			1981		
	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7
1. Tribal area	35.1	15.3	25.4	46.9	24.4	35.9
2. Non - Tribal area	55.9	35.4	44.5	62.7	40.7	52.1
3. District	46.4	24.5	35.7	55.5	33.2	44.7

3.8.1.2 Comparison of literacy rates among males and females

between 1971 and 1981 shows that there is a significant improvement in the literacy rate in the tribal and non-tribal areas during the decade. Considering the literacy rate among different talukas in the tribal area, Dodiapada and Sagbara talukas show very low rate of literacy (between 22 to 29 percent) and the literacy ^{rate} among females in these talukas is still lower (between 11 to 17 percent). Table below gives the break up in this regard for the tribal talukas.

TABLE - 26

Talukawise percentage of Literacy.

Talukas	1971			1981		
	Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7
Jhagadia	38.4	17.9	28.4	48.7	26.9	38.1
Nadod	41.1	19.1	30.3	53.6	29.2	41.9
Dodiapada	20.6	5.5	13.1	32.5	11.5	22.0
Sagbara	22.9	5.9	14.4	41.1	17.2	29.0
Valia	35.1	16.0	25.7	45.4	25.0	35.3
Ankleshwar Pocket	42.9	21.3	32.3	52.6	33.1	43.2
Sub-Total Tribal area	35.1	15.3	25.4	46.9	24.4	35.9

It can be seen that literacy ^{rate} / among females in tribal area is 33.1 percent as compared to 40.7 percent in the non-tribal area. Similarly the literacy rate among males in tribal area is only 46.9 percent as against 62.7 percent in non-tribal area.

3.8.1.3 The data on literacy among the tribal communities will provide more precise picture about the spread of education among the tribal population. The following table gives data on literacy rate of tribal community and general population in the tribal and non-tribal areas.

TABLE - 27

Literacy among tribal community and general population.

Type of area	Literacy rate Total population		Literacy rate Tribal population					
	1971	1981	1971			1981		
			Male	Female	Total	Male	Female	Total
1	2	3	4	5	6	7	8	9
Tribal area	25.4	35.9	23.2	5.2	14.3	36.4	13.8	25.2
Non-tribal area	44.5	52.1	21.2	3.6	12.6	28.0	7.4	18.2
District	35.7	44.5	22.6	4.8	13.8	33.9	12.0	23.1

Note:- As villagewise data is not available, Aakloshwar Pocket is included in non-tribal area.

3.8.1.4 It can be noticed that in the tribal area the literacy rate among tribal population is only 25.2 percent as compared to about 35.9 percent among total population.

3.8.1.5 During the decade, the literacy in tribal and non-tribal areas among the tribal community increased from 14.3 to 25.2 percent in tribal area and from 12.6 to 18.2 percent in non-tribal areas. Literacy rate in non-tribal area is lower than the literacy rate in tribal area among the tribal community.

3.8.1.6 Considering the talukawise details of literacy among tribal community, it is observed that in non-tribal area, the literacy rate is about 15 to 20 percent in all the five talukas except in Jambusar taluka (10.9 percent). It is interesting to point out that literacy rate among tribal community is highest (30 percent) in Nanded taluka, followed by 26.0 percent in Sagbara taluka. It is lowest (19.3 percent) in Dodiapada taluka.

3.9. Working Population :

3.9.1 The labour participation rates and industrial classification of working population provide useful data for studying the level of economic development of a region. In this context, the analysis of the working population on the basis of data available from the 1981 Census is attempted in the following paragraphs.

3.9.1.2 The table below gives the proportion of workers to total population among males and females in the tribal and non-tribal areas of the district.

TABLE - 28

Proportion of workers to total population in the groups.

Type of area		Workers			Percentage of workers to total population in the group.		
		Male	Female	Total	Male	Female	Total
1		2	3	4	5	6	7
Tribal area	1981	171627	68754	240381	56.4	23.6	40.3
	1971	139799	50100	189899	53.8	20.0	37.2
Non-Tribal area	1981	194639	47856	242495	53.7	14.2	34.6
	1971	159130	42720	201850	51.5	14.7	33.7
District	1981	366266	116610	482876	54.9	18.5	37.2
	1971	298929	92820	391749	52.5	17.2	35.3

3.9.1.3 It can be seen from the above table that the proportion of persons reported as workers in the tribal area (40.3 percent) is higher than the corresponding figure (34.6 percent) in non-tribal area. It is significant to note that the difference between the tribal and non-tribal area is larger in respect of female participation rates. In tribal area about 23.6 percent females were workers as against 14.2 percent of females in non-tribal area. During the year 1981, the proportion of males reported as workers in tribal area was higher (56.4 percent) than the percentage of workers in non-tribal area (53.7 percent) in 1981. Similarly the female participation rate was higher in 1981 in tribal area and lower in non-tribal area comparing with the corresponding figs. of 1971 Census. In tribal areas, Dediapada taluka has the highest female participation rates (40.1 percent), followed by Valia (33.0 percent), whereas the female participation rates

was lowest in Sagbara (13.3 percent) and Jambusar (8.7 percent) according to 1981 Census.

3.9.1.4 As regards the male participation rate, the picture seen in the tribal area is not at great variance than what is seen in non-tribal area. The proportion of workers among males lies between 50 and 58 percent in almost all talukas either tribal or non-tribal areas of the district.

3.10 Agricultural Workers :

3.10.1 As observed earlier, a large proportion of workers in the tribal area are engaged in the agriculture. The following table presents the proportion of cultivators and agricultural labourers to total workers in the tribal and non-tribal areas.

TABLE - 29

Proportion of cultivators and agricultural labourers to total workers.

Type of area	Cultivators		Agricultural labourers		Total Agri. workers		Other workers	
	1971	1981	1971	1981	1971	1981	1971	1981
	2	3	4	5	6	7	8	9
Tribal area	36.9	36.9	50.7	43.7	87.6	80.3	12.4	19.7
Non-Tribal area	26.2	22.8	44.3	39.4	70.5	62.3	29.5	37.7
District	31.4	29.9	47.4	41.4	78.8	71.3	21.2	28.7

3.10.1.2 It is observed that in the tribal area, 36.9 percent ^{workers} have been reported as cultivators and 43.4 percent ^{workers} /as agricultural labourers. The corresponding percentages for the non-tribal area are 22.8 and 39.4 respectively. During the decade, there is a considerable decline in the number of

cultivators in non-tribal area and total agricultural workers in the tribal and non-tribal areas.

3.10.1.3 There is a decline in agricultural labourers in 1981 Census as compared with 1971 Census both in tribal and non-tribal areas. There is a corresponding rise in the category of other workers. The talukawise details for the tribal area indicate that the proportion of agricultural labourers is highest (61.6 percent) in Valia taluka, followed by Ankleshwar Pocket (56.1 percent) and Jhagadia taluka (53.7 percent). Dediapada taluka has the lowest percentage (22.7 percent). The highest proportion of cultivators is in Dediapada taluka (67.7 percent), followed by Sagbara taluka (48.6 percent). Jhagadia and Valia talukas have the lowest percentage (26 percent each). In non-tribal area, the highest proportion of cultivators is in Vagra taluka (36.9 percent) and lowest in Ankleshwar taluka (13.0 percent) (Statement No. 20 & 21).

CHAPTER - 4

AGRICULTURE AND ALLIED ACTIVITIES

4.1 It is already observed that 71 percent of the working population in Bharuch district is engaged in agriculture. of which 30 percent are cultivators and 41 percent agricultural labour. Thus the economy of Bharuch district is highly dependent on agriculture requiring a large man-power. This chapter attempts to analyse the district characteristics of tribal and non-tribal area in respect of agriculture and allied activities.

4.2 Agricultural Workers :

4.2.1 The following table gives the information regarding the proportion of workers engaged in agriculture in tribal and non-tribal area of Bharuch district.

TABLE - 30

Proportion of agricultural workers to total workers.

Taluka	Total workers		No. of agricultural workers		% of agricultural workers to total workers	
	1971	1981*	1971	1981*	1971	1981*
2	3	4	5	6	7	8
Tal Area:						
Magadia	46788	52492	41901	42299	89.5	80.6
Bandod	51842	63409	42210	42986	81.4	67.8
Mediapada	21447	42537	19579	38463	91.3	90.4
Magbara	18712	20460	17265	17510	92.3	85.6
Malia	35063	42381	31720	37172	90.4	87.7
Bankleshwar						
Bocket	16047	19102	13728	14687	85.5	76.9
Total	189899	240381	166403	193117	87.6	80.3
Tribal Area:						
Bharuch	72771	90025	40017	43297	54.9	48.1
Bankleshwar	19209	29919	10615	13202	55.3	44.1
(N.T.)						
Ansot	16646	19269	13907	14321	83.5	74.4
Magra	23540	22694	20810	17895	88.4	78.9
Ambarisar	44468	49635	35775	36523	80.4	73.6
Bandod	25216	30953	21229	25739	84.1	83.2
Total	201850	242495	142353	150977	70.5	62.3
District	321749	482876	308756	344094	78.8	71.3

* Figures pertain only to main workers.

4.3 It is seen from the above table that 80.3 percent of the population is engaged in agriculture in the tribal area as against 62.3 percent in the non-tribal area. It is interesting to note that during the decade the percentage of agricultural workers to total workers has decreased in all the talukas of tribal and non-tribal area. As far as cultivators and agricultural labourers are concerned, it can be seen from the appended Statements 20 and 21 that only in Dediapada and Vagra talukas the percentage of cultivators had increased. Similarly in Sagbara and Amod talukas, the percentage of agricultural labourers had increased during the decade 1971 to 1981. In all the talukas of tribal area, more than 80 percent of workers except in Nandod taluka (67.8%) and Ankleshwar Pocket (76.9%), are agricultural workers. However in all the talukas of non-tribal area, more than 70 percent of workers, except Bharuch (48.1%) and Ankleshwar N.T. (44.1%) are agricultural workers. The proportion of cultivators to total workers is highest in Dediapada taluka (67.7%) of tribal area and lowest in Bharuch and non-tribal area of Ankleshwar talukas (14.8% and 13% respectively) of non-tribal area in 1981.

4.4 Operational Holdings :

4.4.4 According to Agriculture Census of 1976-77 Bharuch district has about 1.25 lakh agricultural holders covering about 4.29 lakh hect. of land. The average size of operational holdings in the district was about 3.44 hect. The following table gives details regarding the no. of holders and area of land held by different sizes of operational holders in the district.

TABLE - 31

No. of operational holders and area of land held by operational holders.
Figs.in hecets.

Size of holdings		Tribal		Non-Tribal		District	
		No.	area	No.	Area	No.	area
1		2	3	4	5	6	7
Upto 2 hecets.	1970-71	23646 (44.7)	24198 (13.3)	30343 (44.6)	30253 (11.5)	53989 (44.6)	54451 (12.2)
	1976-77	23419 (44.9)	23192 (13.3)	34747 (48.0)	32620 (12.8)	58166 (46.7)	55812 (13.0)
2to 5 hecets.	1970-71	18199 (34.4)	58413 (32.0)	20179 (29.6)	65528 (24.8)	38378 (31.7)	123941 (27.8)
	1976-77	17998 (34.5)	58088 (33.4)	20893 (28.8)	67432 (26.4)	38891 (31.2)	125520 (29.3)
5to 20 hecets.	1970-71	10712 (20.2)	89965 (49.3)	16999 (25.0)	153919 (58.3)	27711 (22.9)	243884 (54.6)
	1976-77	10548 (20.2)	87097 (50.1)	16403 (22.6)	143319 (56.2)	26951 (21.6)	230416 (53.7)
20and above	1970-71	353 (0.7)	9759 (5.4)	549 (0.8)	14366 (5.4)	902 (0.8)	24125 (5.4)
	1976-77	205 (0.4)	5521 (3.2)	415 (0.6)	11559 (4.6)	620 (0.5)	17080 (4.0)
Total	1970-71	52910 (100)	182335 (100)	68070 (100)	264066 (100)	120980 (100)	446401 (100)
	1976-77	52170 (100)	173898 (100)	72458 (100)	254930 (100)	124628 (100)	428828 (100)

Figures in brackets show percentages to total.

4.5 The distribution of land holdings by different size groups of operational holdings as per 1976-77 Agriculture Census shows that about 45% of the total operational holders are marginal farmers (holdings upto 2 hecets.) in tribal area as against 48% in non-tribal area. On the whole in the district as well as in the non-tribal area, the no. of land holders had increased. However in tribal area, non-tribal area as well as in the whole district the total land holding has decreased during 1970-71 to

1976-77. Similarly the no. of land holders possessing land upto 5 hec. are 79.4% possessing 46.7% of land in tribal area in 1976-77, as against 76.8% holders possessing 39.2% of area of land in non-tribal area. Talukawise break up of land holders and holdings during 1976-77 is given in the Statement No.23.

4.6 Cropping Pattern :

4.6.1 The following table presents the data on area of land sown under food crops and non-food crops in the tribal and non-tribal area of the district.

TABLE - 33

Area sown under food and non-food crops.

Item	Year	Tribal area		Non-Tribal area		District	
		Area Hect.	Per-cent	Area Hect.	Per-cent	Area Hect.	Per-cent
1	2	3	4	5	6	7	8
Food crops	1973-74	91566	46.3	72024	28.7	163590	36.5
	1978-79	115970	58.6	117943	48.6	233913	53.1
Non-Food Crops	1973-74	106049	53.7	178605	71.3	284654	63.5
	1978-79	81923	41.4	124975	51.4	206898	46.9
Total cropped area	1973-74	197615	100.0	250629	100.0	448244	100.0
	1978-79	197893	100.0	242918	100.0	440811	100.0

4.7 The above table reveals that in tribal area the percentage of area under food-crops to total cropped area has increased from 46.3% in 1973-74 to 58.6% in 1978-79, while in non-tribal area it has increased from 28.7% to 48.6% during the same period. The area under non-food crops has considerably declined both in tribal and non-tribal area. In the district as a whole, it has decreased from 63.5% in 1973-74 to 46.9% in 1978-79. This decline is due to decline in area under cotton which will be evident from the data given in the following table.

-54-
TABLE - 34

Percentage distribution of gross area sown under different crops. (Area in, hecets.)

I t e m	Tribal area (including tribal pocket)			Non-Tribal area			D i s t r i c t		
	1973-74	Average of 74-75 to 78-79	1978-79	1973-74	Average of 74-75 to 78-79	1978-79	1973-74	Average of 74-75 to 78-79	1978-79
	Rice	13701 (6.9)	14276 (7.2)	16167 (8.2)	3574 (1.4)	4459 (1.9)	4352 (1.8)	17275 (3.9)	18735 (4.4)
Wheat	2955 (1.5)	2644 (1.3)	2230 (1.1)	16052 (6.4)	15851 (8.7)	17800 (7.3)	19007 (4.2)	22495 (5.3)	20030 (4.5)
Jowar	42276 (21.4)	50095 (25.4)	52984 (26.8)	25841 (10.3)	42664 (18.7)	44299 (18.2)	68117 (15.2)	92948 (21.7)	97283 (22.1)
Bajri	3197 (4.1)	4013 (2.0)	2845 (1.4)	9226 (3.7)	3908 (1.7)	3154 (1.3)	17423 (3.9)	7921 (1.9)	5999 (1.4)
Maize	2078 (1.1)	3615 (1.8)	3612 (1.8)	80 (0.0)	222 (0.1)	121 (0.1)	2158 (0.5)	3837 (0.9)	3733 (0.9)
Other food crops	22559 (11.3)	31743 (16.0)	38132 (19.4)	17251 (6.9)	27741 (12.1)	48217 (19.9)	30610 (6.0)	29585 (6.9)	86349 (19.6)
Total food crops	915667 (46.3)	106386 (53.7)	115970 (58.6)	72024 (28.7)	98845 (43.2)	117943 (48.6)	163590 (36.5)	205230 (48.1)	233913 (53.1)
Cotton	84891 (43.0)	62512 (31.6)	53645 (27.1)	155387 (62.0)	101326 (44.3)	97674 (40.2)	240278 (53.6)	163839 (38.4)	151319 (34.3)
Groundnut	5807 (2.9)	11767 (5.9)	10617 (5.4)	1115 (0.4)	2333 (1.2)	1085 (0.4)	6922 (1.5)	14600 (3.4)	11702 (2.6)
Tobacco	222 (0.1)	351 (0.2)	296 (0.1)	115 (0.0)	279 (0.1)	120 (0.0)	337 (0.1)	629 (0.1)	416 (0.1)
Other non- food crops	15129 (7.7)	16932 (8.6)	17365 (8.8)	21988 (8.9)	25683 (11.2)	26096 (10.8)	37117 (8.3)	42615 (10.0)	43461 (9.9)
Total non- food crops	106049 (53.7)	91562 (46.3)	81923 (41.4)	178605 (71.3)	130122 (56.8)	124975 (51.4)	284654 (63.5)	221683 (51.9)	206898 (46.9)
Total cropp -ed area	197615 (100.0)	197947 (100.0)	197893 (100.0)	250629 (100.0)	228967 (100.0)	242918 (100.0)	448244 (100.0)	426913 (100.0)	440811 (100.0)

() shows the percentage to total cropped area.

4.8 Rice, Jowar, other food crops and cotton are important crops in the district. Area under Rice, Jowar, Maize and other food crops as well as groundnut, tobacco and other non-food crops in tribal and non-tribal area has increased during 1973-74 to 1978-79, while area under Bajra and Cotton has decreased. In tribal area, rice covered 6.9% of total cropped area in 1973-74 which was increased to 8.2% in 1978-79. Area under Jowar has increased from 21.4% to 26.8%, while area under cotton has decreased from 43% to 27.1% during the same period. In non-tribal area, rice covered 1.8% of area in 1978-79 and 1.4% in 1973-74. Jowar 10.3% in 1973-74 and 18.2% in 1978-79, while area under cotton has decreased from 62.0% in 1973-74 to 40.2% in 1978-79. Examining the average figs. of five years 1974-79, it is observed that the area under rice, jowar, maize, groundnut, tobacco and other food crops in tribal and non-tribal area has increased during 1973-74 to 1978-79, whereas area under cotton has decreased.

4.9 The analysis of talukawise data shows that in case of Sagbara and Dediapada talukas the percentages of area covered under food crops to total cropped area were 77.5% and 65.8% respectively in 1973-79. In non-tribal area, food crops covered more than 50% of total cropped area in all the talukas except Jambusar(21.6%). Rice, Wheat and Jowar are principal food crops in tribal and non-tribal areas. The percentages of area under Rice and Jowar to total cropped area in Sagbara taluka were 17% and 39.3% which were highest among all tribal talukas. The coverage under Jowar crop in tribal pocket is to the extent of

44.5%. In non-tribal area in Hansot taluka 27.8% of the total cropped area was under Jowar, followed by 27.2% in Ankleshwar (N.T.) taluka. Vagra taluka accounted for 19% of wheat crop which is the highest among the non-tribal talukas. In Nandod taluka of tribal area 39.7% of the total cropped area was under cotton followed by 24.4% in Valia taluka. In Jambusar taluka of non-tribal area 70.5% of the cropped area was under cotton in 1978-79 which was highest among all talukas. Amod taluka was having the lowest coverage(36.2%).(Statement No.25)

4.10 Irrigation :

4.10.1 It is already stated earlier that the district is poor in irrigation facilities. The following table gives the comparative position in the tribal and non-tribal area of the district in respect of irrigation facilities.

TABLE - 35

Percentage of gross area irrigated to gross area sown.

Item	Tribal area	Non-tribal area	District
1	2	3	4
1973-74	10.8	11.4	11.1
Five years average 1974-75 to 1978-79	9.8	9.8	9.8
1978-79	8.6	10.1	9.5

4.11 It is seen that in 1978-79, the proportion of area irrigated to total area sown in tribal area was 8.6 percent against 10.8 percent in 1973-74. The five years average (1974-75 to 1978-79) in this regard was 9.8 percent. The

corresponding percentage for non-tribal area was 11.4 percent in 1973-74 and 10.1 percent in 1978-79. Considering talukawise data in tribal area, it is noticed that Dediapada and Sagbara talukas have the poorest irrigation facilities i.e. only 0.2 percent and 4.3 percent respectively in 1978-79. Similarly in non-tribal area, Vagra and Jambusar talukas have poor irrigation facilities. The percentage of irrigated area was higher in Nandod taluka (15.1 percent) compared to the corresponding percentage of entire tribal area being 8.6 percent. Taluka information is given in Statement No.26.

TABLE - 36

Percentage distribution of net area irrigated by different sources.

Sr.No.	Source of irrigation	Tribal area			Non-Tribal area			District		
		1973-74	Five years average 74-79	1978-79	1973-74	Five years average 74-79	1978-79	1973-74	Five years average 74-79	1978-79
1	2	3	4	5	6	7	8	9	10	11
1.	Canals	6.4	8.6	10.0	4.9	19.5	31.5	5.5	14.6	23.0
2.	Tanks	2.5	1.7	2.5	1.5	1.2	1.4	1.9	1.4	1.7
3.	Wells	46.5	70.6	74.0	88.8	70.2	57.2	71.4	70.4	64.0
4.	Tube Wells	13.0	7.8	4.3	3.2	7.6	9.0	7.2	7.6	7.1
5.	Other sources	31.6	11.3	9.2	1.6	1.5	0.9	14.0	6.0	4.2
6.	Total net area irrigated	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

4.12 Canals and wells are the main sources of irrigation in tribal and non-tribal areas of the district. The proportion of total area irrigated through wells in 1978-79 is 74 percent in tribal area, whereas the corresponding figure of non-tribal area is 57.2 percent. During the interval of 5 years, the area under wells and canals in tribal area is increased, while area under wells is decreased and area under canals is increased in non-tribal area. Examining the average of 5 years 1974-79, it is observed that the percentage of area irrigated by canals and wells in tribal area has increased as compared to the corresponding figures of 1973-74, while in non-tribal area the proportion of area irrigated by canals has increased while it has decreased in case of wells and tanks during 1973-74 to 1978-79. The proportion of total area irrigated through canals is 10 percent in tribal area against 31.5 percent in non-tribal area in 1978-79.

4.13 The talukawise data of area irrigated by different sources shows that except Hansot taluka well is the most important source of irrigation in all talukas of tribal and non-tribal areas. Canal is important source of irrigation in Hansot and Valia taluka of non-tribal area and tribal area respectively. (Statement No.26)

4.14 Diesel oil engines, Electric motors and Tractors:

4.14.1 The following table gives information regarding oil engines, electric motors and tractors in tribal and non-tribal areas of the district.

TABLE - 37

No. of diesel oil engines, electric motors and tractors in 1977.

I t e m	Tribal area		Non-tribal area		D i s t r i c t		
	No.	Per '000 hecets. of net cultivated area	No.	Per '000 hecets. of net cultivated area	No.	Per '000 hecets. of net cultivated area	
1	2	3	4	5	6	7	
Diesel oil engines with pumps.	1977 1972	2868 2791	15.8 14.8	1373 1113	5.3 4.2	4241 3904	9.6 8.6
Electric motors with pumps.	1977 1972	498 371	2.7 2.0	1080 454	4.1 1.7	1578 825	3.6 1.8
Tractors.	1977 1972	67 108	0.4 0.6	279 374	1.1 1.4	346 482	0.8 1.1

N.B.:— All necessary data for the villages of tribal pocket of Ankleshwar taluka could not be made available for this table and hence the entire Ankleshwar taluka has been treated as N.T.area in the above table.

4.15 The No. of diesel oil engines per thousand hecets. of net cultivated land is higher in tribal area than in the non-tribal area, while reverse is the case for electric motors with pumps per thousand hect. of net cultivated area. There were 67 tractors (0.4 tractor per thousand hect. of cultivated land) in tribal area as against 279 tractors (1.1 tractors per thousand hecets. of cultivated land) in non-tribal area.

4.16 It is noteworthy that according to 1977 Cattle Census the number of diesel oil engines per thousand hecets. of net cultivated area was the lowest i.e. 8.4 in Dediapada taluka and the highest i.e. 21.5 in Valia taluka among the tribal

talukas of the district, while in respect of the talukas of non-tribal area, it was the lowest i.e. 2.4 in Vagra and Jambusar talukas and the highest i.e. 12.9 in Ankleshwar taluka. It is further observed that in tribal area highest no. of tractors were in Valia taluka(41) followed by Jhagadia taluka(16) and Nandod taluka (6). There was only one tractor in Sagbara taluka. In non-tribal area all the talukas were having more than 10 tractors as per 1977 Cattle Census. Ankleshwar taluka was having the highest no. of tractors(90) followed by Bharuch(85) and Amod(37).(Statement No.27 & 28)

4.17 Inputs:

4.17.1 The extent of the use of improved seeds, chemical fertilisers, insecticides and pesticides which have a bearing on agricultural productivity are some of the useful indicators of the level of agricultural development in any region.

Talukawise consumption data regarding various agricultural inputs are not available, the available data on distribution of improved seeds, chemical fertilisers and insecticides reported by District Panchayat have been used in compiling the requisite indicators for obtaining a broad idea of the development in agriculture through adoption of improved agricultural practices.

4.18 Improved Seeds :

4.18.1 The following table gives position regarding the quantity of improved seeds distributed per hectare in the tribal and non-tribal areas of the district.

TABLE - 38

Quantity of improved seeds distributed per hectare of gross cropped area. (In kgs.)

Type of area	1973-74	1976-77	1977-78	1978-79	Average of 1976-77 to 1978-79
	1	2	3	4	6
Tribal area	3.0	4.9	2.8	4.0	3.9
Non-Tribal area	5.9	5.8	6.5	5.6	6.0
District	4.5	4.8	4.8	4.9	4.8

4.19 It is noticed that the quantity of improved seeds distributed per hect. in the tribal area is lower than that of non-tribal area for all the four years. The average quantity of improved seeds distributed was about 3.9 kgs. per hect. in tribal area against 6.0 kgs. per hect. in the non-tribal area. It is also seen that the quantity of improved seeds distributed per hect. (taking the average of three years) has increased, in tribal and non-tribal areas.

4.20 Among the talukas of tribal area, the distribution of improved seeds per hect. of gross cropped area in 1978-79 was the lowest in Ankleshwar Tribal Pocket (0.1) and the highest in Valia taluka (5.7). In non-tribal area, the distribution of improved seeds per hect. of gross cropped area was the lowest in Bharuch taluka (2.2) and the highest in Ankleshwar (N.T.) taluka (15.9). (Statement No.30)

4.21 Chemical Fertilisers :

4.21.1 The data on the quantity of chemical fertilisers distributed per hect. of gross cropped area in tribal and non-tribal areas of the district is given in the following table.

TABLE - 39

Quantity of chemical fertilisers distributed per hect. of gross cropped area.

Type of area	1973-74	1976-77	1977-78	1978-79
1	2	3	4	5
Tribal area	21.5	13.5	15.9	18.7
Non-Tribal area	39.1	65.4	84.2	87.6
District	30.6	41.5	52.7	56.6

4.22 It is observed that in the year 1978-79, the quantity of chemical fertilisers distributed per hect. was 18.7 kgs. in the tribal area which is much lower than that in the non-tribal area (87.6 kgs. per hect.). It is also seen that the quantity of chemical fertilisers distributed per hect. in the tribal as well as non-tribal areas shows increasing trend during the period 1976-77 to 1978-79. It may be pointed out that the quantity of chemical fertilisers distributed per hect. was decreased in tribal area as compared to the position in 1973-74. The figures for the tribal area, however, significantly low compared to the figures of non-tribal area during ~~these~~ years.

4.23 Within the tribal area, Ankleshwar tribal pocket has reported the lowest average quantity (0.3 kg.) of chemical fertilisers distributed per hect. of gross cropped area.

Whereas Nandod taluka has reported the highest average quantity (29.7 kg.) in 1978-79. (Statement No.30)

4.24 Insecticides and Pesticides :

4.24.1 The following table gives the quantity of insecticides and pesticides distributed per hect. of gross cropped area in the tribal and non-tribal areas of the district.

TABLE - 40

Quantity of insecticides and pesticides distributed per hect. of gross cropped area:

Type of area	Powder (Kg.)				Liquid (litre)			
	1973-74	1976-77	1977-78	1978-79	1973-74	1976-77	1977-78	1978-79
1	2	3	4	5	6	7	8	9
Tribal area	2.6	0.3	0.8	0.4	0.2	0.1	0.1	0.1
Non-Tribal area	4.6	4.6	4.9	5.2	0.4	0.1	0.1	0.3
District	3.7	2.5	2.9	3.0	0.3	0.1	0.1	0.2

4.25 It is observed that the quantity of insecticides in powder form distributed per hect. of gross cropped area in the tribal area is significantly low compared to the quantity distributed per hect. in non-tribal area. In tribal area, the quantity of insecticides in powder form distributed per hect. of gross cropped area was 0.4 kg. as against 5.2 kg. during the year 1978-79 in non-tribal area.

4.26 Talukawise data of distribution of insecticides and pesticides indicates that the quantity of insecticides in powder form is highest in Ankleshwar pocket (1.7 kg.) and pesticides in liquid form is highest in Valia taluka (0.50 litre) among the talukas in tribal area. Very low quantities of insecticides and pesticides are reported to have been distributed in Vagra and Jambusar talukas in non-tribal area. (Statement No.32)

4.27 Livestock :

4.27.1 Bharuch district covered only 3.1 percent of the total livestock of the State. However within the district, the tribal area covered 63 percent of the total livestock population of the district. The following table gives the data of livestock population in the tribal and non-tribal area of the district according to broad categories of livestock.

TABLE - 41

Livestock Population

(Fig. in '00)

Item	1972			1977		
	Tribal area	Non-Tribal area	Dist- rict	Tribal area	Non-Tribal area	Dist- rict
1	2	3	4	5	6	7
<u>Cattle</u>						
Males over 3 years	837 (29.80)	524 (30.18)	1361 (29.95)	724 (25.35)	464 (27.69)	1188 (26.21)
Females " "	443 (15.77)	88 (5.07)	531 (11.68)	452 (15.83)	85 (5.07)	537 (11.85)
Youngstock	410 (14.59)	97 (5.59)	507 (11.16)	449 (15.72)	84 (5.01)	533 (11.76)
Total	1690 (60.16)	709 (40.84)	2399 (52.79)	1625 (56.90)	633 (37.77)	2258 (49.82)
<u>Buffaloes</u>						
Males over 3 years	3 (0.10)	2 (0.12)	5 (0.11)	4 (0.14)	1 (0.06)	5 (0.11)
Females " "	235 (8.37)	330 (19.11)	565 (12.43)	276 (9.66)	318 (18.98)	594 (13.1)
Youngstock	162 (5.77)	204 (11.75)	366 (8.05)	172 (6.02)	198 (11.81)	370 (8.1)
Total Buffaloes	400 (14.24)	536 (30.88)	936 (20.59)	452 (15.82)	517 (30.85)	969 (21.3)
Other	719	491	1210	779	526	1305
Livestock	(25.60)	(28.28)	(26.62)	(27.28)	(31.38)	(28.8)
Total	2809 (100.00)	1736 (100.00)	4545 (100.00)	2856 (100.00)	1676 (100.00)	4532 (100.00)

() shows the percentage to total.

4.28 Cattle population in the tribal area covered 56.90 % of total livestock population as against 37.77% in the non-tribal area as per 1977 Livestock Census. Cattle population in tribal and non-tribal area in 1977 has

.....66/-

decreased as compared to 1972. In case of buffaloes reverse is the ^{position} for tribal area. The percentage of buffaloes population to total livestock population in non-tribal area is double the percentage in tribal area. In tribal area the percentage of other livestock population to total livestock population (27.28%) is less than the corresponding figure(31.38%) of non-tribal area.

4.28.1 The details of cows and she buffaloes in milk, dry and not-calved are given in the following table.

TABLE - 42

No.of cows and she buffaloes used for milk and breeding purpose.

Sr. No.	Item	1972			1977		
		Tribal area	Non-tribal area	District	Tribal area	Non-tribal area	District
1	2	3	4	5	6	7	8
<u>cows</u>							
1.	In milk	16773 (38.08)	4021 (46.86)	20794 (39.51)	16303 (36.15)	4050 (48.54)	20353 (38.06)
2.	Dry	24318 (55.20)	4087 (47.63)	28405 (53.97)	25329 (56.17)	3699 (44.15)	29028 (54.29)
3.	Not calved	2961 (6.72)	473 (5.51)	3434 (6.52)	3462 (7.68)	629 (7.51)	4091 (7.65)
		44052 (100)	8581 (100)	52633 (100)	45094 (100)	8378 (100)	53472 (100)
<u>She Buffaloes</u>							
1.	In milk	10780 (46.00)	19225 (58.34)	30005 (53.21)	15127 (54.64)	21991 (69.64)	37118 (62.64)
2.	Dry	11181 (47.71)	11880 (36.06)	23061 (40.90)	10306 (37.23)	7761 (24.58)	18067 (30.49)
3.	Not calved	1473 (6.29)	1846 (5.60)	3319 (5.89)	2250 (8.13)	1824 (5.78)	4074 (6.87)
		23434 (100)	32951 (100)	56385 (100)	27683 (100)	31576 (100)	59259 (100)
No. of animals per 1000 of human population							
<u>1. Cows</u>							
(a)	In milk	32.9	6.7	18.7	31.9	7.0	18.3
(b)	Total	86.3	14.3	47.4	88.4	14.0	48.19
<u>2. She Buffaloes</u>							
(a)	In milk	21.1	32.1	27.0	29.6	36.7	33.5
(b)	Total	45.9	55.0	50.8	54.2	52.7	53.41

4.29 It is observed that as per 1977 Census there were nearly 38 cows used for milk per 1000 human population in the tribal area against 14 cows used for milk per 1000 human population in the non-tribal area. The proportion of cows in milk to total cows is however lower in tribal area as compared to that in non-tribal area. The number of cows in milk per 1000 of human population (31.9) is much higher in the tribal area compared to the corresponding figure (7.0) for the non-tribal area. The position in respect of she buffaloes is reverse. The total number of she buffaloes per 1000 of human population in the tribal area and in the non-tribal area are 54.2 and 52.7 respectively. The number of she buffaloes in milk per 1000 persons is only 29.6 in tribal areas as against the corresponding figure of 36.7 in non-tribal area. This is due to the fact that the proportion of buffaloes in milk to total buffaloes in non-tribal area (70 percent) is much higher than the corresponding figure (55 percent) in the tribal area.

4.30 Within the tribal area, the percentage of cows in milk to total cows used for milk (30%) is lowest in Dediapada taluka and the percentage of she buffaloes in milk to total she buffaloes used for milk is lowest (48%) in Valia taluka. As regards the no. of cows and she buffaloes in milk per thousand human population, it is observed that Sagbara taluka has the lowest no. of cows in milk (28.9) and she buffaloes in milk (9.4) per thousand human population. In non-tribal area, the no. of cows in milk per 1000 of human population is lowest in Bharuch (2.8), followed by Vagra (4.8) and Jambusar taluka (5.1). (Statement No.36)

4.31 The following table gives details regarding bullocks used for work per thousand hecets. of gross cultivated area.

TABLE - 43

No. of bullocks according their uses.

Item	1972			1977		
	Tribal area (*)	Non-tribal area	Dist-riict	Tribal area	Non-Tribal	Dist-riict
1	2	3	4	5	6	7
<u>1. No. of buffaloes used.</u>						
(a) For breeding only	76	37	113	116	159	275
(b) For breeding and work	166	240	406	130	71	201
(c) For work only	78479	56681	135160	71570	45936	117506
(d) Not in use for breeding work	388	65	453	690	151	841
<u>Total</u>	<u>79109</u>	<u>57023</u>	<u>136132</u>	<u>72506</u>	<u>46317</u>	<u>118823</u>
<u>2. No. of bullocks used for work only per 1000 hecets. of cultivated area.</u>						
	413	212	296	359	184	262

(*) excluding Tribal pockets.

4.32 The above table reveals that no. of bullocks used for breeding and work has decreased in tribal and non-tribal areas during 1972 to 1977. The availability of bullocks for work only per 1000 hecets. of cultivated area is as high as 359 in the tribal area as against only 184 in the non-tribal area as per 1977 Livestock Census. Thus the availability of bullocks in relation to gross cultivated area in tribal area is almost

double the availability in non-tribal area.

4.33 It is interesting to point out that all the talukas of the tribal area have higher number of bullocks used for work per 1000 hecets. of cultivated area compared to the corresponding figures for the talukas in the non-tribal area. In fact the no. of bullocks used for work per 1000 hecets. of cultivated land is the highest(645) in Dediapada taluka of tribal area and the lowest(142) in Vagra taluka of non-tribal area.(Statement No.34)

4.34 Milk Supply Societies :

4.34.1 Though the tribal area accounts for the sizeable livestock population of the district, the development of milk societies in tribal area is comparatively poor. The following table throws light in this regard.

TABLE - 44

Particulars of milk societies.

Item	Year	Tribal area	Non-tribal area	District
1	2	3	4	5
No. of societies	1973-74	13	43	56
	1978-79	118	189	307
Members	1973-74	1683	4841	6524
	1978-79	8585	16745	25330
Members per society	1973-74	129	113	116
	1978-79	73	89	83

4.35 There is substantial increase in the no. of milk societies. In tribal area the no. of milk societies has increased from 13 in 1973-74 to 118 in 1978-79. In non-tribal area it has increased from 43 to 189 during the same period.

4.36 Talukawise data reveals that Dediapada and Sagbara talukas have the lowest no. of milk societies i.e. 9 and 8 respectively in 1978-79.(Statement No.41)

4.37 Poultry :

4.37.1 The poultry population in the tribal area of the district is sizeable which can be seen from the following table.

TABLE - 45
Poultry Population.

Item	Year	Tribal area	Non-Tribal area	District
1.Fowls, hens and chickens.				
(a)Deshi	1972	105106	42721	147827
	1977	164537	52647	217184
(b)Improved	1972	7030	4338	11168
	1977	5426	3683	9114
(c)Total	1972	111936	47059	158995
	1977	169963	56335	226298
2.Other Poultry				
	1972	30	347	377
	1977	477	899	1376
3.Total				
	1972	111966	47406	159372
	1977	170440	57234	227674
4.No.of poultry per 1000 of human population				
	1972	219.4	79.1	143.6
	1977	333.0	95.5	205.2

4.38 The above table reveals that during 1972 to 1977 improved variety of poultry had decreased in tribal and non-tribal areas, while the deshi variety of poultry had increased substantially in tribal and non-tribal area.

4.39 It can be seen from the above table that poultry population is more in the tribal area compared to that in non-tribal area.

The no. of poultry birds per one thousand of human population in the tribal area is as high as 333 as against the corresponding figure of 95 for non-tribal area. It can be seen that Bharuch, Jambusar and Amod talukas of non-tribal area have lowest no. of poultry birds per 1000 of human population. (Statement No.39)

4.40 Veterinary Institutions :

4.40.1 There is not a single veterinary hospital in Bharuch district. There are eleven veterinary dispensaries in the district. 5 of these dispensaries are located in tribal area.

During the interval of 5 years, no. of veterinary institutions in the district remains the same. The following table gives the data regarding veterinary institutions and veterinary personnel.

TABLE - 46

Veterinary Institutions and Veterinary personnel.

	Tribal		Non-Tribal		District	
	1973	1978	1973	1978	1973	1978
	-74	-79	-74	-79	-74	-79
	1	2	3	4	5	6
<u>Veterinary Institutions</u>						
1. Hospital	-	-	-	-	-	-
2. Dispensaries	5	5	6	6	11	11
3. First aid Veterinary centres.	21	21	8	8	29	29
4. Artificial Insemination Centres.	1	1	1	1	2	2
5. Artificial Insemination Sub-Centres.	-	-	1	1	1	1
<u>Veterinary personnel</u>						
1. Veterinary officers	4	5	6	6	10	11
2. Stockmen	21	20	9	9	30	29

4.41 It can be seen that tribal area of the district have a larger number of first aid veterinary centres i.e. 21 and no. of stockmen i.e. 20 compared to the corresponding figures 8 and 9 respectively of non-tribal area. It may be due to the fact that special attention ^{might have} been given for tribal area ^{under} Tribal Area Sub-Plan.

CHAPTER - 5

Industries and Power

5.1 Industrial development of a region can be appropriately judged from the extent of industrialisation in organised sector which can broadly be measured by the number of registered factories and the average daily employment in these factories registered under Indian Factories Act, 1948. In this context Bharuch is one of the backward districts of the State. There were only 132 factories employing 9540 persons in the district at the end of 1977. The following table gives an idea about the position of tribal area and non-tribal area of Bharuch district in respect of industrial development since 1965.

TABLE - 47

No. of factories and average no. of daily workers employed in working factories.

Year	Tribal area		Non-Tribal area		D i s t r i c t	
	Fact- ories	Workers	Fact- ories	Workers	Fact- ories	Workers
1	2	3	4	5	6	7
1965	20	1825	67	9612	87	10437
1970	21	2021	67	8517	88	10538
1973	21	2220	67	8028	88	10248
1977	22	1213	110	8327	132	9540

N.B.:-- Whole Ankleshwar taluka is included in non-tribal area, as separate villagewise data was not available.

5.2 At the end of 1977 there were only 22 factories with average daily employment of 1213 workers in the tribal area. Percentages of factories and workers in tribal area with district totals were 16.7 percent and 12.7 percent respectively, whereas 110 factories (83.3 percent) and 8327 workers (87.3 percent) were in non-tribal area. Thus tribal area is lagging much behind in industrial development. During the period of 7 years, one more factory in tribal area and 43 more factories in non-tribal area had been established making the total no. of factories 22 and 110 respectively in tribal and non-tribal areas of the district.

5.3 The talukawise data indicates that by the end of 1977, Dediapada and Sagbara talukas in the tribal area did not have a single registered factory, while Valia taluka had only five factories with average daily employment of 258 workers. Talukawise details are given in appended statement No.43.

5.4 Industrial Co-operative Societies :

5.4.1 The following table gives the number of Industrial Co-operative Societies and their membership.

TABLE - 48

Particulars of Industrial Co-operative Societies.

Sr. Item No.	Year	Unit	Tribal area	Non-Tribal area	District
1	2	3	4	5	6
1. Societies	1973-74	No.	14	47	61
	1978-79	No.	30	37	67
2. Members	1973-74	No.	484	3465	3949
	1978-79	No.	2722	3314	6036

	1	2	3	4	5
B. Population					
(1) Population of the villages electrified	1973-74	1978-79	171004	269591	440595
			249192	313910	563102
(2) Total population (As per 1971 Census)	1973-74	1978-79	484585	432002	916587
			484585	432002	916587
(3) Percentage to total population of villages (i.e. percentage of 2 to 1)	1973-74	1978-79	35.3	62.4	48.1
			51.4	72.7	61.4

5.7 It can be observed from the above table that at the end of 1978-79, 29.3% of villages were electrified in tribal area as against 55.0% in the non-tribal area. The proportion of total population covered by villages electrified was 51.4% in the tribal area compared to 72.7% in the non-tribal area of the district. During the interval of 5 years, 100 more villages were electrified in tribal area and 38 more villages were electrified in non-tribal area. It seems that the rate of increase of electrification of villages is more in tribal area than in the non-tribal area. The villages of Sagbara(13.2%) and Dediapada talukas(14.1%) of tribal area and Vagra taluka(25%) of non-tribal area had poor facility of electricity. Talukawise information is given in appended Statement No. 45 & 46.

5.8 Banking :

5.8.1 There were 31 scheduled bank and co-operative bank offices together in the tribal area as against 73 in non-tribal area in 1978-79. The following table gives the number of scheduled bank and co-operative bank offices and number of places covered by them.

TABLE - 50

No. of scheduled and co-operative bank offices.

Item	Year	Tribal		Non-Tribal		District	
		Sch. Bank	Coop. Bank	Sch. Bank	Coop. Bank	Sch. Bank	Coop. Bank
1	2	3	4	5	6	7	8
1.No.of places with banks	1973-74	9	9	13	15	22	24
	1978-79	14	11	20	20	34	31
2.No.of bank offices	1973-74	11	11	27	19	38	30
	1978-79	18	11	46	27	64	40

5.9 As far as banking facilities are concerned, tribal area ^{is} lagging far behind the non-tribal area in the district. Considering the population covered by banks in the tribal area, the per bank branch population comes to 28000 against 13000 in non-tribal area. During the interval of five years, 7 scheduled bank offices and 2 co-operative banks were added in tribal area, as against 19 scheduled bank offices and 8 co-operative banks in non-tribal area. Dediapada taluka in tribal area and Hansot taluka in non-tribal area had very poor banking facility. Dediapada and Sagbara talukas had very poor facility of co-operative banking. Each of them had only one co-op.bank. Talukawise information is given in appended Statement No.47 and 48.

5.10 Co-operation:

5.10.1 Co-operation plays a very important role in the economic development of backward area. The tribal area of the district covered more than 42 percent of the total number of primary co-operative societies at the end of 1978-79. The following table gives the number of primary co-operative

societies, their membership and no. of members per 100 of population in the tribal as well as non-tribal area.

TABLE - 51

Total no. of primary co-operative societies and members.

Item	Year	Tribal area	Non- Tribal area	District
1	2	3	4	5
Number	1973-74	348	550	898
	1978-79	510	691	1201
Members	1973-74	42534	91367	133901
	1978-79	79396	112626	192022
No. of members per 100 of population	1973-74	8	15	12
	1978-79	16	19	17

5.11 It is observed that only 16 out of 100 persons were reported to be the members of primary co-operative societies in tribal area as against 19 in non-tribal area at the end of 1978-79. During the interval of 5 years, 162 more societies in tribal area, and 141 more societies in non-tribal area were established. Talukawise data indicates that development in this regard is extremely poor in Dediapada and Sagbara ^{talukas.} They had the lowest number of members (7 each) per 100 of population. Talukawise information is given in appended Statement No. 49 & 50.

5.12 Co-operative development is closely related to development in agriculture ^{because} one of the important aims of co-operative movement is to meet the credit needs of agriculture population. It would therefore be appropriate to examine the extent of membership in primary agriculture credit co-operative . .

societies in relation to the population engaged in agriculture. The following table gives the number of primary agriculture credit co-operative societies, their membership and no. of members per 100 agricultural workers.

TABLE - 52

No. of members of primary agricultural credit societies.

Item	Year	Tribal area	Non-Tribal area	District
1	2	3	4	5
Primary agriculture credit societies				
(a) Number	1973-74	160	235	395
	1973-79	159	235	394
(b) Members	1973-74	23914	35783	59697
	1978-79	32397	35883	68280
(c) No. of members per 100 agricultural workers	1973-74	14	25	19
	1978-79	19	25	22

5.13 There were 159 primary agriculture credit societies

in tribal area as against 235 such societies in non-tribal area during 1978-79. It is observed that for every 100 agricultural workers in tribal area, there were 19 members of primary agriculture credit society, whereas the corresponding figure in the non-tribal area was 25.

5.14 Considering the talukawise data, it is noticed that Sagbara taluka was extremely poor in this field. There were only 10 members of primary agriculture credit societies for every 100 agriculture workers in Sagbara taluka. Hansot taluka was having the best facility (30 members per 100 agriculture workers). The details are given in appended Statement No. 49 & 50.

CHAPTER - 6

Transport and Communications

6.1 Due to hilly tracts and scattered population in the tribal area of the district, transport and communication are the basic infrastructure facilities and are of vital importance for the process of accelerated development of the tribal area. Transport and communication facilities in such area not only provide link with the adjoining developed non-tribal areas, but also break the isolation of people residing in such areas. They act as leading factors in stimulating the socio-economic development in the area.

6.2 The main aspects of the transport system reviewed here relate to facilities of roads, road transport and railways. Postal and telegraph facilities included in the communication sector have also been discussed.

6.3 Roads :

6.3.1 The details regarding length of metalled and non-metalled roads in the tribal and non-tribal areas are given in the following table.

TABLE - 53

Road length per 100 sq.kms. of area and 1,00,000 of population.

I t e m	Year	Tribal area	Non- Tribal area	District
1	2	3	4	5
<u>I. Road length in kms.</u>				
(a)Metalled	1973-74	507.4	566.4	1073.8
	1978-79	682.9	799.0	1481.9
(b)Non-Metalled	1973-74	417.0	466.6	883.6
	1978-79	462.6	474.9	937.5
(c)Total	1973-74	924.4	1033.0	1957.4
	1978-79	1145.5	1273.9	2419.4
<u>II. Road length in kms. per 100 sq.kms. of area:</u>				
(a)Metalled	1973-74	12.3	15.4	13.8
	1978-79	16.5	21.7	19.0
(b)Non-Metalled	1973-74	10.1	12.7	11.3
	1978-79	11.2	12.9	12.0
(c)Total	1973-74	22.4	28.1	25.1
	1978-79	27.7	34.6	31.0
<u>III. Road length in kms. per 1,00,000 of population:</u>				
(a)Metalled	1973-74	99	95	97
	1978-79	134	133	134
(b)Non-Metalled	1973-74	61	78	80
	1978-79	91	79	84
(c)Total	1973-74	181	172	176
	1978-79	224	213	218

6.4 It can be seen from the above table that average length of roads (metalled and non-metalled) per 100 sq.kms. of area come to 27.7 kms. in tribal area against 34.6 kms. in non-tribal area at the end of 1978-79. The average length of metalled roads per

100 sq.kms. in tribal and non-tribal area are 16.5 kms. and 21.7 kms. respectively. The length of metalled road in tribal area has increased from 507.4 kms. ^{in 1973-74} to 682.9 kms. in 1978-79. It has increased from 566.4 kms. in 1973-74 to 799.0 kms. in 1978-79 in non-tribal area. Considering the availability of road length, both metalled and non-metalled roads per 1,00,000 of population, the position of tribal area was better(224 kms.) compared to non-tribal area(213 kms.) in 1978-79. Within the tribal area, Sagbara and Dediapada talukas were the most backward in road facilities. The average length of roads per 100 sq.kms. in these talukas were 13.6 kms. and 20.0 kms. respectively. The average length of metalled roads was also extremely poor in these two talukas. Averages were 6.7 kms. and 10.8 kms. in Sagbara and Dediapada ^{talukas} respectively. Talukawise details are given in the appended statements No.51 and 52.

6.5 Bus Services :

6.5.1 The following table gives an idea about availability of bus facilities during 1975-74 and 1978-79 in the district.

TABLE-54
Bus facilities.

	1973-74	1978-79
1. Total no. of villages	1137	1137
2. Total no. of villages directly served with		
Through out the year	264	354
During fair season only	428	427
Total	692	781
3. No. of villages availing of S.T. services from the nearest bus stop.		
Upto 0.5 km.	15	11
0.5 to 1 km.	39	43
1 to 2 kms.	88	88
2 to 3 kms.	23	64
Total upto 3 kms.	<u>265</u>	<u>206</u>
3 to 5 kms.	153	77
5 and above kms.	<u>127</u>	<u>73</u>
Total beyond 3 kms.	<u>280</u>	<u>150</u>
Grand Total	445	356

Source:- Hand Book of Basic Transport Statistics, Gujarat.

6.6 The above table reveals that during the year 1973-74 out of 1137 villages, 264 villages (23.2%) were directly connected with bus services through out the year, whereas 428 villages (37.6%) were connected with bus services in fair season only. Thus in all, 692 villages (60.8%) were served by the bus services, while in the year 1978-79 total 354 villages (31.1%) were directly connected with bus services through out the year and 427 villages (37.6%) were connected with bus services in fair season only, making the total 68.7% villages

served by the bus facilities. Thus within a period of five years, bus facilities were extended to more 7.9% villages.

6.7 Railways :

6.7.1 Necessary details regarding railway facility in the district is given in the following table.

TABLE - 55

Item	Railway Station					
	Tribal area		Non-Tribal area		District	
	No.	%	No.	%	No.	%
1	2	3	4	5	6	7
Villages with Railway Station.						
1973-74	17	2.2	31	8.7	48	4.2
1978-79	17	2.2	31	8.7	48	4.2

6.7.2 It is revealed that in tribal area 17(2.2%) villages are connected with railway station against 31 villages (8.7%) in non-tribal area in 1978-79. All the villages of Dediapada and Sagbara talukas of tribal area and Hansot taluka of non-tribal area have no railway facility. Talukawise details are given in appended Statements No.53 & 54.

6.8 Post and Telegraph Offices :

6.8.1 The following table gives information about the post and telegraph offices in the tribal area and non-tribal area.

TABLE - 56

Post and Telegraph Offices

Type of area		Post office		Post-cum-Telegraphic Office		Total	
		No.	Per'00 sq.kms.	No.	Per'00 sq.kms.	No.	Per'00 sq.kms.
		2	3	4	5	6	7
Tribal area	1973-74	156	3.8	10	0.3	166	4.0
	1978-79	202	4.9	10	0.3	212	5.1
	Total	344	4.4	26	0.3	370	4.7
Non-Tribal area	1973-74	188	5.1	16	0.4	204	5.5
	1978-79	204	5.5	40	1.0	244	6.6
	Total	406	5.2	50	0.6	456	5.8

6.9 At the end of the year 1978-79 the no. of post offices per 100 sq.kms. was 4.9 in the tribal area as against 5.5 in non-tribal area. The no. of post-cum-telegraph offices per 100 sq.kms. in tribal area was only 0.3 as against 1.0 in non-tribal area. Dediapada and Sagbara were the backward talukas in respect of this facility. No. of post office per 100 sq.kms. in Dediapada and Sagbara talukas were 4.8 and 3.7 respectively in 1978-79.

There was no post-cum-telegraph office in Dediapada while there was only one post-cum-telegraph office in Sagbara taluka. Talukawise details are given in appended statements No.55 and 56.

6.10 Villages without post offices :

6.10.1 The following table gives an idea about the number of villages having post offices and no. of villages without post offices in the tribal and non-tribal area.

TABLE - 57

Type of area	Villages with or without post offices.					
	No. of inhabited villages (1971)			Percentage		
	With post offices	Without post offices	Total	With post offices	Without post offices	
1	2	3	4	5	6	
Tribal	158	623	779	20.0	80.0	
	202	577	779	25.9	74.1	
Non-Tribal	188	170	358	52.5	47.5	
	204	154	358	57.0	43.0	
District	344	793	1137	30.3	69.7	
	406	731	1137	35.7	64.3	

6.11 It is seen that in tribal area only 25.9% of villages (202 villages) had post office, as against corresponding figures of 57.0% of villages (204 villages) in non-tribal area in 1978-79. Out of 731 villages without post office during 1978-79, 577 villages were situated in the tribal area. 74.1% of villages were without post office in tribal area as against 43.0% (154 villages) of non-tribal area at the end of 1978-79. Percentage of villages without post offices to total no. of villages was highest in Sagbara taluka in tribal area (85.8%) followed by Dediapada taluka (82.9%) and Nandod taluka (76.4%) in 1978-79. In non-tribal area the highest percentage was in Ankleshwar taluka (58.8%) followed by Jambusar and Amod talukas (48.1% each). Talukawise details are given in Statements No.55 & 56.

CHAPTER - 7

SOCIAL SERVICES

7.1 Among the social services, educational facilities, medical and health services have been covered. Development of human resources require proper and adequate educational facilities. Moreover medical and health services are also equally important basic facilities for ensuring better living conditions.

7.2. Primary Education :

7.2.1 In the tribal area 89.6% of the villages were provided with the facility of primary school within the village, whereas in the non-tribal area 98.6% of villages had such facility in 1978-79. This means that about 10.4% of villages of the tribal area were not having the facilities of the primary education in the village till the end of 1978-79 compared to only 1.4% of villages in the non-tribal area. The following table gives the percentage of villages having primary school in the village in respect of each taluka of the district.

TABLE -58

Percentage of villages with primary schools.

Sr. No.	Taluka	1978-79			1978-79	
		No. of villages 1971 Census	No. of villages with primary school	%	No. of villages with primary school	%
1	2	3	4	5	6	7
<u>Tribal Area</u>						
1.	Jhagadia	164	137	83.5	148	90.2
2.	Nadod	208	177	85.1	194	93.3
3.	Dediapada	170	137	62.9	133	78.2
4.	Sagbara	106	93	87.7	93	87.7
5.	Valia	94	90	95.7	93	98.9
6.	Ankleshwar Pocket	37	37	100.0	37	100.0
Total Tribal area		775	641	82.8	608	78.6
<u>Non-Tribal Area</u>						
7.	Bharuch	95	95	100.0	95	100.0
8.	Ankleshwar	17	17	100.0	17	88.2
9.	Hansot	45	45	100.0	45	100.0
10.	Vagra	68	65	95.6	68	100.0
11.	Jamusar	61	75	92.6	73	96.3
12.	Amod	52	51	98.1	51	98.1
Total Non-Tribal area		358	348	97.2	354	98.3
District		1137	989	87.0	1053	92.4

7.3 It is further revealed that in Bharuch, Hansot and

Vagra talukas of non-tribal area and Ankleshwar Pocket of

tribal area had primary school facilities in each village. Dediapada taluka(78.2%) is lagging far behind in primary school facilities during the year 1978-79.

TABLE -59-
No. of primary schools, students and teachers.

No.	Item	Year	Tribal area	Non-Tribal area	Total
1	2	3	4	5	6
1.	No. of primary school	1973-74	713	436	1204
		1978-79	814	484	1298
2.	No. of students	1973-74	72449	97731	170180
		1978-79	81379	107304	191683
3.	No. of teachers	1973-74	1883	2647	4530
		1978-79	2532	2855	5387
4.	No. of students per teacher.	1973-74	38.5	36.9	37.6
		1978-79	33.3	37.6	35.6

7.4 It is observed that there is not addition of little above 10 thousand students from 1973-74 to 1978-79 in tribal area. In non-tribal area only 9600 students have been added during the same period. Regarding no. of teachers the progress in tribal area was also better during 1973-74 to 1978-79. No. of teachers in tribal area has increased from 1883 in 1973-74 to 2532 in 1978-79. No. of students per teacher has gone down from 38.5 to 33.3 during 1973-74 to 1978-79 in tribal area.

7.5 Secondary Education :

7.5.1 The tribal area of the district has very poor facility in respect of secondary education. At the end of 1978-79, 4.6% of villages of tribal area were having secondary schools compared to 24.3% of villages having secondary schools in the non-tribal area. This can be seen from the following table.

TABLE -6

Percentage of villages having secondary schools.

Taluka		1973-74			1978-79		
Sr. No.	No. of villages/towns having secondary schools	Total No. of villages/towns	Percentage of villages/towns having secondary schools	No. of villages/towns having secondary schools	Total no. of villages/towns	Percentage of villages/towns having secondary schools	
1	2	3	4	5	6	7	8
<u>Tribal Area</u>						(*) One school closed	
1.	Jhagadia	9	164	5.5	8(*)	164	4.9
2.	Bandod	16	209	7.7	17	209	8.1
3.	Dehlapada	1	170	0.6	2	170	1.2
4.	Sagbara	1	106	0.9	2	106	1.9
5.	Valia	6	94	6.4	6	94	6.4
6.	Ankleshwar Pocket	1	37	2.7	1	37	2.7
	Total	34	730	4.4	36	730	4.6
<u>Non Tribal Area</u>							
7.	Tharuch	37	97	38.1	39	97	40.2
8.	Ankleshwar	7	13	53.9	8	13	44.4
9.	Hansot	7	46	15.2	7	46	15.2
10.	Vagva	6	68	8.8	7	68	10.3
11.	Jambusar	13	82	22.0	19	82	23.2
12.	Mod	3	53	15.1	3	53	15.1
	Non-tribal	83	364	22.8	88	364	24.2
	District	117	1144	10.2	124	1144	10.8

During the years 1973-74 to 1978-79, 2 more villages

in tribal area were provided secondary schools facility. In all the talukas in the tribal area, the proportion of villages having

secondary schools was much lower than the corresponding proportion in any taluka of non-tribal area. Dadiapada taluka, Sagbara taluka and Ankleshwar Pocket of tribal area had the lowest proportion of villages having secondary schools (1.2% 1.9% and 2.7% respectively) at the end of 1973-79. The following table gives the information regarding number of secondary schools, teachers and students during the year 1973-74 and 1978-79.

TABLE -61

Number of secondary schools, students and teachers.

Item	Year	Tribal area	Non-Tribal area	District
1	2	3	4	5
No. of secondary schools	1973-74	34	33	117
	1978-79	36	33	124
No. of students	1973-74	9006	21229	30235
	1978-79	10204	25682	35906
No. of teachers	1973-74	382	799	1181
	1978-79	425	975	1400
No. of students Per teacher	1973-74	23.6	26.6	25.6
	1978-79	24.2	26.3	25.7
No. of schools per 100000 of population	1973-74	7	13	11
	1978-79	7	13	11

7.7 It is seen that there were 36 secondary schools in tribal area at the end of 1978-79 as against 33 secondary schools in the non-tribal area. Regarding no. of schools per 1 lakh population, tribal area was lagging behind the non-tribal area.

7.8 According to the talukawise position in tribal area, Nandod taluka was having the highest no. of secondary schools i.e. 17 followed by Jhagadia taluka having 8 secondary schools and Valia taluka having 6 secondary schools. The lowest no. of secondary schools were in Dediapada and Sagbara talukas i.e. 2 in each taluka, whereas in non-tribal area the highest no. of secondary schools were in Bharuch taluka i.e. 39 followed by Jambusar taluka having 19 secondary schools. The lowest no. of secondary schools were in Hansot and Vagra talukas i.e. 7 in each taluka. Talukawise details are given in appended statement No.60. Necessary details regarding the no. of Ashram Schools, teachers and students are given in the following table.

TABLE - 62

No. of Ashram schools, teachers and students.

Sr. No.	Item	Year	Tribal area	Non-Tribal area	Total
1	2	3	4	5	6
1.	Schools	1973-74	12	4	16
		1978-79	16	6	22
2.	Teachers	1973-74	49	13	62
		1978-79	58	20	78
3.	Students	1973-74	1453	364	1817
		1978-79	1697	570	2267

7.9 It is observed that more than 72 percent of Ashram schools in the district were located in the tribal area. In fact ashram schools were specially started for the students of the tribal communities. During the years 1973-74 to 1978-79, four more ashram schools have been added in tribal area, while two

more ashram schools have been added in non-tribal area. From talukewise details given in appended statement No. 64 it is seen that in tribal area maximum no. of ashram schools were in Dediapada taluka(7) followed by Jhagadia taluka (3) in 1973-79.

7.10 Medical & Health Services :

7.10.1 Out of 3 hospitals, 46 dispensaries and 14 P.H. Cs., 1 hospital, 20 dispensaries and 8 P.H.Cs., are located in the tribal area. During 1973-74 to 1978-79 no. of hospitals, dispensaries and P.H.Cs. remain the constant in the district as can be seen from the following table.

TABLE - 63

No. of hospitals, dispensaries and beds.				
Item	Year	Tribal Area	Non-Tribal area	District
1	2	3	4	5
Hospitals	1973-74	1	2	3
	1978-79	1	2	3
Dispensaries	1973-74	20	26	46
	1978-79	20	26	46
Primary Health Centres	1973-74	8	6	14
	1978-79	8	6	14
Beds				
1. Number	1973-74	147	216	363
	1978-79	212	261	473
2. Per 1000 of population	1973-74	3	3	3
	1978-79	5	4	4

were

7.11 It is observed that the number of beds were more in non-tribal area than in tribal area, but the no. of beds per

10000 of population ^{were} more (5) in tribal area than ^{is} non-tribal area (4) during 1973-79.

7.12 Blockwise details given in appended statement no. 32 it is seen that Mandod taluka in tribal area and Charuch and Jambusar talukas in non-tribal area are provided with the facility of Hospital. As far as the no. of dispensaries is concerned, Jhagedia taluka was having the highest no. of dispensaries (7) followed by Mandod (5) and Valia (4) in tribal area, while in non-tribal area Charuch taluka was having maximum no. of dispensaries (20) followed by Anklashwar (non-tribal) and Jambusar talukas (4 each) in 1973-79.

7.13 Medical Personnel :

7.13.1 The following table gives the proportion of doctors, nurses, midwives per 1000 sq.kms. of area and per one lakh of population in the tribal and non-tribal area of the district.

TABLE - 64

No. of doctors, nurses and midwives.

Sr. No.	Item	Year	No. of doctors, nurses and midwives.		District
			Tribal	Non-Tribal	
1	2	3	4	5	6
<u>Doctors</u>					
1. Number		1973-74	23	34	57
		1978-79	27	37	64
2. Per 1000 sq. kms.		1973-74	6	9	7
		1978-79	7	10	7
3. Per 100000 population		1973-74	5	6	5
		1978-79	5	6	6

1	2	3	4	5	6
Nurses					
1. Number		1973-74	43	69	117
		1978-79	88	104	192
2. Per 1000 sq.kms.		1973-74	12	19	15
		1978-79	21	28	21
3. Per 100000 population		1973-74	9	12	11
		1978-79	17	17	17
Midwives					
1. Number		1973-74	42	52	94
		1978-79	77	63	145
2. Per 1000 sq. kms.		1973-74	10	14	12
		1978-79	19	10	16
3. Per 100000 population		1973-74	3	9	3
		1978-79	15	11	13

7.3.2 The above table reveals that during 1973-74 to 1978-79 there is marginal increase in the no. of doctors. While there is substantial increase in the no. of nurses and midwives in tribal and non-tribal areas. The no. of doctors and nurses per lakh of population was almost the same in tribal and non-tribal areas of the district during 1973-79. However in respect of no. of medical personnel per 1000 sq. kms. of area in the tribal and non-tribal areas, the position was as under.

7.13 In the tribal area, there were on an average 7 doctors, 21 nurses, and 19 midwives per 1000 sq.kms., as compared to 10 doctors, 28 nurses and 13 midwives in the non-tribal area during the year 1978-79. Position of non-tribal area was comparatively better than that of tribal area during 1978-79.

CHAPTER - 8

Summary and Conclusions

8.1 Five talukas viz. (1) Jhagadia, (2) Nandod, (3) Dediapada, (4) Sagbara, (5) Valia and Pocket of Ankleshwar taluka of Bharuch district are included in the Tribal Area Sub-Plan of Gujarat State. In this study, the indicators have been compiled at taluka level, taking the entire taluka as a unit except Ankleshwar taluka for collection of data. In case of Ankleshwar taluka, the villages under Tribal Pocket have been considered under Tribal area and separate data for these villages have been collected. The rest of the part has been considered as non-tribal area. A broad summary of the important findings observed during the study is given in the following paragraphs.

8.2 Demographic Characteristics :

8.2.1 According to the Population Census 1981, in the tribal area of the district, nearly three-fourth of the population belongs to scheduled tribes while only 2.4 percent of population in the tribal area belongs to scheduled castes.

8.3 In the tribal area, the growth of tribal population was higher (17.4%) than that of general population (16.7%) during the decade 1971-81.

8.4 As per ¹⁹⁸¹ Population Census, the percentage of rural population to total population is 95.1 percent in tribal area, whereas the corresponding figure is 69.7 percent in the non-tribal area. There is only one town in the tribal area as against 6 towns in non-tribal area. Tribal area consists of 765 inhabited villages as against 358 such villages in non-tribal area.

8.5 As per Population Census 1981 the average density of population per sq.km. in the tribal area is 145 persons -- against 192 persons in non-tribal area.

8.6 The literacy rate in tribal area is very low. According to the Population Census 1981, only 35.9 percent of the population in the tribal area was literate, whereas the corresponding figure for non-tribal area was 52.1 percent. The literacy rate among females in the tribal area was very low i.e. 24.4 percent compared to 40.7 percent among females in the non-tribal area. During the decade 1971-81 the literacy rate in the tribal area has increased from 25.4% in 1971 to 35.9% in 1981 and from 44.5% to 52.1% in non-tribal area. Among tribal area, low literacy rate of 22 to 29 percent were reported in Dediapada and Sagbara talukas. The position of females in these talukas was still poor. In these talukas the literacy rate was 11 to 17 percent respectively. Literacy has gone up both among males and females during 1971 to 1981.

8.7 The literacy rate among the tribal population in the tribal area was 25.2 percent in 1981, as against 14.3 percent in 1971. The literacy rate of scheduled tribes population in the non-tribal area was still lower (13.2 percent).

8.8 According to 1981 Census, the proportion of persons reported as main workers in the tribal area is higher (40.3 percent) than the non-tribal area (34.6 Percent). There is significant difference in the females participation rate between the tribal and non-tribal area. About 14.2 percent females are reported as workers in the non-tribal area, whereas 23.6 percent females are reported as workers in tribal area. Among tribal areas, the Dediapada taluka has/highest female participation rate (40.1%) and the lowest in Jambusar taluka (3.7%) of non-tribal area.

8.9 In tribal area 80.3% of the total main workers are agricultural workers consisting of cultivators and agricultural labourers in 1981 as against 62.3 percent of such main workers in non-tribal area. The proportion of the agricultural labourers is highest (61.6%) in Valia taluka and lowest (22.7%) in Dediapada taluka. The highest proportion of cultivators is in Dediapada taluka (67.7 percent), followed by 4.6% in Sagbara taluka.

8.10 Agriculture :

8.10.1 According to the Agriculture Census 1976-77, the average size of operational holdings in the district was 3.44 hecets. The distribution of land holdings by different size groups of operational holdings shows that 47% of total operational holders were marginal farmers i.e. with the holding upto 2 hecets. The no. of land holders possessing land upto 5 hecets. were about 77.9% of total holders holding 42% of operational land holdings. Tribal area has less no. of land holders (52170) and area of land held (173293 hecets.) as compared to non-tribal area (72458 land holders and 254930 hecets. of land held respectively).

8.11 Regarding the cropping pattern, the share of food crops to total area sown was 58.6% in the tribal area as against 48.6% in non-tribal area in 1973-79. During 1973-74 to 1978-79, food crops showed an upward trend and non-food crops showed a downward trend in both tribal and non-tribal areas. Rice, Juwar, other food crops and cotton were important crops in tribal and non-tribal areas.

Percentages of area covered under Juwar, other food crops and cotton to total cropped area were 26.3%, 19.4% and 27.1% respectively in tribal area, the corresponding figs. in non-tribal area were ^{18.2%} 19.9% and 40.2% respectively. In tribal area Sagbara and Dediapada talukas accounted for 77.5% and 65.3% respectively of food crops to total cropped area, while in non-tribal area, all talukas except Jambusar ^{accounted} for more than 50% of food crops in 1978-79, Rice, Wheat and Juwar were the important crops in tribal and non-tribal areas. In tribal area, Sagbara taluka accounted for 17% of Rice and 39.3% of Juwar which were the highest among all tribal talukas. The coverage under tribal Pocket for Juwar crop was to the extent of 44.5%. In non-tribal area in Hansot taluka 27.3% of the total cropped area was under Juwar followed by 27.2% area in Ankleshwar non-tribal taluka. Vagra taluka accounted for 19% of wheat crop which was the highest among non-tribal talukas. In Nanded taluka of Tribal area 39.7 percent of the total cropped area was under cotton followed by 24.4 percent in Valia taluka. In Jambusar taluka of non-tribal area 70.5 percent of the total cropped area was under cotton in 1978-79, which was the highest among all the talukas. Amod taluka was having the lowest coverage (36.3%) under cotton in 1978-79.

3.12 According to the data of 1978-79, about 3.6% of total area was irrigated in tribal area compared to 10.1% in non-tribal area. Dediapada (0.2% of total cropped area) and Sagbara taluka (4.3%) have the poorest

irrigation facilities. The main sources of irrigation are wells and canals in the tribal and non-tribal areas of the district. In 1978-79, 74% of net irrigated area sown was irrigated by wells in tribal area, as against 57.2% in non-tribal area, while canal irrigation accounted for 10% in tribal area against 31.5% in non-tribal area. The irrigated area under canals in tribal and non-tribal area increased while the irrigated area under wells increased in the tribal area and decreased in the non-tribal area during 1973-74 to 1978-79.

8.13 The number of diesel oil engines and electric motors per thousand hecets. of net cultivated land was 15.8 and 2.7 respectively in tribal area in 1977 as against 14.8 and 2.0 respectively in 1972. The corresponding figs. in non-tribal area were 5.3 and 4.1 respectively in 1977 as against 4.2 and 1.7 in in 1972. Tribal area had smaller no. of tractors (67) than non-tribal area(279).

8.14. The quantity of improved seeds distributed per hect. in tribal area was 4 kgs. in 1978-79 as against 3 kgs. in 1973-74. For non-tribal area it was 5.6 kgs. in 1978-79 as against 5.9 kgs. in 1973-74. The quantity of chemical fertilisers distributed per hect. in tribal area was lower i.e. 18.7 kgs. in 1978-79 as against 21.5 kgs. in base year 1973-74. The corresponding figs. for non-tribal area were higher i.e. 87.6 kgs. in 1978-79 as against 39.1 kgs. in 1973-74. Among the talukas in tribal area, the distribution of improved seeds per hectare of gross cropped area in 1978-79 was the lowest in Ankleshwar

Tribal Pocket (0.1 kg.) and ^{the} highest in Valia taluka (5.7 kgs.) while in non-tribal area it was the lowest in Bharuch taluka (2.3 kgs.) and the highest in Ankleshwar non-tribal taluka (15.9 kgs.). As far as the distribution of chemical fertilisers is concerned, it was the highest in Nandod taluka of tribal area (29.7 kgs. per hectare) and the lowest in Ankleshwar tribal pocket (0.3 kg. per hectare) in 1978-79.

8.15 The quantity of insecticides in powder form distributed per hectare of gross cropped area was significantly low in tribal area (0.4 kg.) as against 5.2 kgs. in non-tribal area during 1978-79. Talukawise distribution of insecticides in powder form indicates that it was ^{the} highest in Ankleshwar tribal pocket (1.7 kgs. per hectare) and pesticides in liquid form was the highest in Valia taluka (0.50 liter per hectare) among the talukas of non-tribal area. In non-tribal area very low quantity of insecticides and pesticides per hectare were distributed in Vagra and Jambusar talukas.

8.16 Livestock :

8.16.1 As per 1977 Livestock Census, cattle population in the tribal area accounted for about 56.9% of total livestock population, as against 37.8% in non-tribal area. During 1972 to 1977, cattle population had decreased both in tribal and non-tribal areas, while buffaloes and other livestock population had increased during the same period. Non-tribal area had more buffaloes (30.9%) and other livestock population (31.3%) than tribal area (15.8% and 27.3% respectively) in 1977. There were 88.4 cows used for milk per 1000 of human population

in tribal area, against 14 cows used for milk in non-tribal area. The proportion of cows used for milk was higher in tribal area (31.9) than in non-tribal area (7.0), while position of buffaloes per 1000 of human population in the tribal and non-tribal was between 52 to 54. The no. of buffaloes used for milk per 1000 of human population in the tribal and non-tribal area was between 30 to 37. Among the tribal areas, Sagbara taluka had the lowest number of cows in milk (23.9) and the number of the buffaloes in milk (9.4) per 1000 of human population.

3.17 The availability of bullock used only for work per thousand hects. of gross cultivated area was as high as 359 in the tribal area, as against 134 in non-tribal area in 1977. All the talukas of the tribal area had higher no. of bullocks used for work per 1000 hects. compared to corresponding figs. of non-tribal area. Dediapada taluka had the highest no. of bullocks used for work (645) per thousand hects. of gross cultivated area.

3.18 During the interval of 5 years, the number of milk societies had increased from 13 in 1973-74 to 113 in 1973-79 in tribal area. However in non-tribal area it had increased from 43 in 1973-74 to 189 in 1973-79. Dediapada and Sagbara talukas had the lowest no. of milk societies i.e. 9 and 3 respectively in 1973-79.

3.19 The no. of poultry birds per thousand of human population in the tribal area was as high as 333 against 95 in the non-tribal area in 1977.

8.20 As far as veterinary institutions are concerned, no significant increase was noticed during the interval of five years either in tribal or non-tribal area. There were 5 veterinary dispensaries and 20 first aid veterinary centres in tribal area against 6 such dispensaries and 8 first aid veterinary centres in non-tribal areas. Over and above there was one artificial insemination centre and one sub-centre in non-tribal area.

8.21 Industries :

8.21.1 During the years 1970 to 1973, there was no significant rise in industries in tribal area. There were 22 factories in 1977 against 21 in 1970 in tribal area, while in non-tribal area, there were 110 factories in 1977 against 67 in 1970. Dediapada and Sagbara talukas did not have a single registered factory, while Valia taluka had only 5 registered factories in 1977.

8.22 The tribal area accounted for 45 percent of total industrial co-operative societies at the end of 1978-79. However as far as the progress in the field of industrial co-operative societies is concerned, there was substantial progress in the establishment of Industrial Co-operative Societies in tribal area. The no. of industrial co-operative societies had increased from 14 in 1973-74 to 30 in 1978-79 in tribal area, whereas in non-tribal area the no. had decreased from 47 to 37 during the same period.

8.23 Electricity :

8.23.1 At the end of 1978-79, 29.3 percent of villages (228) were electrified in tribal area against 16.4% (128) villages in 1973-74. In non-tribal area, 55% (197) villages

were electrified at the end of 1973-79, as against 44.4% (159) villages in 1973-74. The proportion of total population covered by villages electrified in 1973-79 was 51.4% in tribal area against 35.3% in 1973-74. The corresponding figs. for non-tribal area were 72.7% in 1973-79 as against 62.4% in 1973-74. During the interval of 5 years, 100 more villages were electrified in tribal area as against 38 in non-tribal area. Sagbara (13.2%) and Dediapada (14.1%) talukas of tribal area and Vagra taluka (25%) of non-tribal area had poor facility of electricity.

3.24 As far as banking facilities are concerned, tribal area is lagging far behind the non-tribal area in the district. There were 13 scheduled bank offices and 13 co-operative bank offices in 1973-79 as against 11 scheduled bank offices and 11 co-operative bank offices in 1973-74 in tribal area. The corresponding figs. for non-tribal area were 46 scheduled bank offices and 27 co-operative bank offices as against 27 and 19 offices in 1973-74.

3.25 Co-operation :

3.25.1 As far as the no. and members of the primary Agricultural Credit Societies is concerned, the tribal area is lagging far behind the non-tribal area. There were 159 such societies with 32397 members in tribal area in 1973-79 whereas in the non-tribal area the corresponding figures were 235 societies and 35933 members in the year 1973-79. For every 100 agricultural

workers in tribal area, there were 19 members of Primary Agricultural Credit Societies as against 25 members in non-tribal area. Within the district Hansot taluka was having the best facilities (30 members per 100 agricultural workers), whereas Sagbara taluka was extremely poor (10 members per 100 agri. workers).

3.26 The average length of roads (metalled and non-metalled) per 100 sq.kms. of area was 27.7 kms. in the tribal area in 1973-79, as against 22.4 Kms. in 1973-74. The corresponding figs. for non-tribal area were 34.6 kms. in 1973-79 as against 23.1Kms. in 1973-74. The average length of roads both metalled and non-metalled together per lakh of population was higher(224kms.) in tribal area compared to (213 kms.) in non-tribal area. Sagbara and Dedlapada talukas were most backward in road facilities. The average length of road per 100 sq.kms. being 13.6 kms. and 20.0kms. respectively .

3.27 In Bharuch district 63.68% (731) villages had bus facilities within the village, of which 31.13% (354 villages) were directly connected with bus services throughout the year in 1973-79 as against this, during 1973-74, 23.21% villages were directly connected with bus services and 37.04% villages were connected with bus services in fair season only making the total 60.35% villages served by the bus facilities. Thus within a period of 5 years, bus facilities were extended to more 7.33% villages.

8.28 There were 48 villages connected with railway stations of which 17 villages were located in tribal area and 31 villages were in non-tribal area in 1977-78.

8.29 At the end of 1978-79, in tribal areas only 25.9% (202) villages had a post office as against 20% (156) ^{villages} in 1973-74 while in non-tribal area 57% (204) villages had a post office, as against 52.5% (188) villages in 1973-74. The no. of post offices per hundred sq. kms. of area in 1978-79 was 4.9 in tribal area as against 5.5 in non-tribal area. During the period from 1973-74 to 1978-79, 46 more post offices in tribal area and 16 in non-tribal area had been opened.

8.30 Education Services :

8.30.1 By the end of 1978-79, about 89.6% of villages in the tribal area were provided with the facility of primary school within the village, as against 82.3% of villages in 1973-74, whereas in non-tribal area, 98.6% villages were having the school facility as against 97.2% such villages in 1973-74. Dediapada taluka was poor in this respect as only 73.2% villages of the taluka had a primary school. As far as the progress in respect of increase in no. of students, increase in no. of teachers and students per teacher ratio are concerned, tribal area in the district is in a better position. About 10,000 students and 649 teachers have been added during this period in the tribal area while the corresponding

figures for the non-tribal area are about 9600 students and 208 teachers. The students per teacher ratio has also gone from 38.5 to 33.3 in tribal area, while it has increased from 36.9 to 37.6 in non-tribal area during the same period.

8.31 The tribal area of the district had very poor facility in respect of secondary schools, as there were only 4.6 percent (36) villages with secondary schools in tribal area in 1978-79 as against 4.4% (34 villages) in 1973-74. In non-tribal area, there were 22.8% (33) villages with secondary schools in 1973-74 and 24.2% (88 villages) in 1978-79. Dediapada and Sagbara talukas are poor in this respect, having only 2 secondary schools in each taluka. Whereas the highest no. of schools were in Nandod taluka(17). In non-tribal area the highest no. of secondary schools were in Bharuch taluka (39) and the lowest were in Hansot and Vagra talukas (7 in each).

8.32 Considering the Government and Grant-in-aid institutions in the district, it is observed that out of 3 hospitals, 46 dispensaries and 14 P.H.Cs. in the district, 1 hospital, 20 dispensaries and 8 P.H.C.s were located in the tribal area during the year 1973-74. The position remained the same in 1978-79.

As far as the no. of dispensaries is concerned, Jagadia taluka was having the highest no. of dispensaries (7) while Valia taluka was having the lowest (4) in tribal area. Whereas in non-tribal area Bharuch taluka was having the highest no. of dispensaries (10) and Jambusar was having the lowest (4). The no. of beds in tribal area during 1978-79 were 212 as against 147 in 1973-74. The no. of beds in non-tribal area were 261 in 1978-79 as against 216 beds in 1973-74. The no. of beds per 10,000 population in the tribal area was only 5 in 1978-79 as against 3 in 1973-74 and in non-tribal area they were 4 and 3 in 1978-79 and 1973-74 respectively. Thus the district has poor medical facilities.

3.33 At the end of 1978-79, there were 7 doctors per 1000 sq.kms. in tribal area as against 6 doctors in 1973-74. There were 10 doctors per 1000 sq.kms. in non-tribal area as against 9 doctors in 1973-74. However no. of doctors per lakh of population was 5 and 6 respectively in tribal and non-tribal area in 1973-74 as also in 1978-79.

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List of Tribal Area included in the Tribal Area Sub-Plan
of Gujarat State

(Year : 1971)

Sr. No.	District	Taluka	Percentage of scheduled tribes population
1.	Sabarkantha	1. Vijaynagar	72.6
		2. Khedbrahma	61.2
		3. Bhiloda	49.6
		4. Meghraj	33.3
2.	Panchmahals	5. Jhalod	85.0
		6. Dohad	92.3
		7. Santrampur	60.5
		8. Limkheda	58.8
		9. Devgadhi Baria	28.5
		10. Mora Pocket (Gadhra)	53.3
		11. Kathola Pocket (Halol)	55.0
3.	Vadodara	12. Chhota-Udepur	88.8
		13. Naswadi	80.2
		14. Tilokwada	48.6
		15. Dhatpura Pocket (Sankheda)	51.0
		16. Karali Pocket (Jetpurpavi) (Jabugam)	52.6
		17. Vodeli Pocket (Sankheda)	65.6
		18. Bhikhapur Pocket (Jabugam)	50.1
4.	Bharuch	19. Dodiapada	94.2
		20. Sagbara	90.8
		21. Valia	76.5
		22. Nandod	76.4
		23. Jhagadia	61.4
		24. Ankleshwar Pocket (Ankleshwar)	48.9
5.	Surat	25. Uchhal	96.4
		26. Vyara	96.7
		27. Mahuva	80.4
		28. Mandvi	80.8
		29. Nizar	75.6
		30. Songadh	97.0
		31. Valod	72.9
		32. Mangrol	68.9
		33. Bardoli	57.1
		34. Palsana Pocket (Palsana)	50.2
		35. Kamrej Pocket (Kamrej)	50.0

Statement No.1 contd.

1	2	3	4
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6.	Valsad	36. Dherampur	96.1
		37. Bansda	93.2
		38. Chikhli	69.5
		39. Pardi	64.5
		40. Umbergaon	56.9
		41. Aatgam Pocket(Valsad)	66.5
		42. Ranvel Pocket(Valsad)	
		43. Rahej Pocket(Gandevi)	55.4
		44. Sisodara Pocket(Navsari)	56.5
7.	Dangs	45. Dangs	93.5

Statement-2

List of Tribal Area included in the Tribal Area Sub-Plan of Gujarat State.

Year:1981

District	Taluka	Percentage of Scheduled Tribes to Total Population	
Sabarkantha	1. Vijaynagar	72.1	
	2. Khedbrahma	58.7	
	3. Bhiloda	51.6	
	4. Meghraj	34.3	
Panchmahal	5. Jhalod	85.7	
	6. Dohad	72.8	
	7. Santrampur	66.4	
	8. Limkheda	58.4	
	9. Devgadh Baria	38.2	
	10. Mora Pocket	56.8 (Godhra)	
	11. Kathola Pocket	54.5 (Halol)	
	Vadodara	12. Chhota Udepur	81.9
		13. Naswadi	81.5
		14. Tilakwada	47.7
		15. Bhatpur Pocket	48.1 (Sankheda)
16. Bhikapur Pocket		66.3 (Jambugam)	
17. Karali Pocket		75.9 (Jambugam)	
18. Vadeli Pocket		63.5 (Sankheda)	
Bharuch		19. Dediapada	93.3
	20. Sagbara	94.1	
	21. Valia	76.3	
	22. Nadod	65.4	
	23. Jhagadia	64.2	
	24. Ankleshwar Pocket	47.8 (Ankleshwar)	
Surat	25. Uchhal	97.4	
	26. Vyara	88.3	
	27. Mahuva	80.4	
	28. Mandvi	77.2	
	29. Nizar	74.9	
	30. Songadh	61.9	
	31. Valod	73.0	
	32. Mangrol	66.5	
	33. Bardoli	75.3	
	34. Palsana Pocket	50.2 (Palsana)	
	35. Kamrej Pocket	54.9 (Kamrej)	

Statement-2 Contd.,

1.	2.	3.	4.
6.	Valsad	36. Dharampur	94.0
		37. Bansda	90.0
		38. Chikhali	69.1
		39. Pardi	56.5
		40. Umbargaon	55.3
		41. Atgam Pocket	55.6 (Valsad)
		42. Ranvel Pocket	(Valsad)
		43. Rahej pocket	48.3 (Gandevi)
		44. Sisodara	63.0 (Gandevi)
	Dangs	45. Dangs	92.3

Statement No.3

Scheduled Tribes Population in different districts of Gujarat State

(Year : 1971)

Sr. No.	District	Total Population	Scheduled Tribes Population	Percentage to total population of the district	Percentage share of district in total scheduled tribes population of the State
1	2	3	4	5	6
1.	Jamnagar	1111343	2711	0.2	0.1
2.	Rajkot	1624072	677	N*	0.0
3.	Surendranagar	845454	4812	0.6	0.1
4.	Bhavnagar	1405285	182	N*	0.0
5.	Anreli	848730	321	N*	0.0
6.	Junagadh	1656677	8305	0.5	0.2
7.	Kachchh	849769	40381	4.7	1.1
8.	Banaskantha	1265383	77758	6.1	2.1
9.	Sabarkantha	1187637	178304	15.1	4.8
10.	Mahesana	2092468	9136	0.4	0.2
11.	Gandhinagar	200642	406	0.2	0.0
12.	Ahmedabad	2910307	20998	0.7	0.6
13.	Kheda	2451387	25275	1.0	0.7
14.	Panchmahals	1848804	71273	38.5	19.1
15.	Vadodara	1980065	47317	23.9	12.7
16.	Bharuch	1109601	48620	43.9	13.0
17.	Surat	1786924	82768	46.3	22.2
18.	Valsad	1428742	77625	54.3	20.8
19.	Dangs	94185	88028	93.5	2.3
Total		26697475	3734422	13.99	100.0

* Negligible.

Source: Census of India, 1971.

Scheduled Tribes Population in different districts of
Gujarat State : 1981

Sr. No.	District	Total population	Scheduled Tribes population	Percentage to total population of the district	Percentage share of district to total tribes
1	2	3	4	5	6
1.	Jamnagar	1393076	4280	0.3	0.1
2.	Rajkot	2093094	3839	0.2	0.1
3.	Surendranagar	1034185	5962	0.6	0.1
4.	Bhavnagar	1879340	2431	0.1	0.0
5.	Amreli	1079097	768	0.1	0.0
6.	Junagadh	2100709	10733	0.5	0.2
7.	Kachchh	1050161	63301	6.0	1.3
8.	Banaskantha	1667914	111936	6.7	2.3
9.	Sabarkantha	1502284	251127	16.7	5.2
10.	Mahesana	2548787	8429	0.3	0.2
11.	Gandhinagar	289088	1672	0.6	0.0
12.	Ahmedabad	3875794	32501	0.8	0.7
13.	Kheda	3015027	44678	1.5	0.9
14.	Panchmahal	2321689	969523	41.8	20.0
15.	Vadodara	2558092	648372	25.3	13.4
16.	Bharuch	1296451	577393	44.5	11.9
17.	Surat	2493211	103820	41.6	21.4
18.	Valsad	1774136	968518	54.6	20.0
19.	Dangs	113664	104918	92.3	2.2
Total State		34085799	4848586	14.2	100.0

Maximum and Minimum temperature at the taluka headquarters.

District - Bharuch		(In centigrade)											
Sr. No.	Taluka headquarters	1973		1974		1975		1976		1977		1978	
		Maxi- mum	Mini- mum	Maxi- mum	Mini- mum	Maxi- mum	Mini- mum	Maxi- mum	Mini- mum	Maxi- mum	Mini- mum	Maxi- mum	Mini- mum
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>Tribal Area</u>													
1.	Jhagadia	47	13	41	13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
2.	Nandod	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	39	19	40	20	32	18
3.	Dediapada	51	5	N.A.	N.A.	50	7	N.A.	N.A.	N.A.	N.A.	30	15
4.	Sagbara	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	31	17	20	15
5.	Valia	N.A.	N.A.	41	21	42	20	N.A.	N.A.	43	16	41	17
<u>Non-Tribal Area</u>													
6.	Bharuch	39	7	39	10	38	16	36	21	38	17	39	15
7.	Ankleshwar	43	13	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
8.	Hansot	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
9.	Vagra	39	27	N.A.	N.A.	35	16	36	17	-	-	N.A.	N.A.
10.	Janbusar	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
11.	Amod	41	34	42	18	41	20	41	20	41	22	41	21

Source : District Statistical Officer, District Panchayat, Bharuch

Number of rainy days and average rainfall at the taluka headquarters.

District : Bharuch

Sr. No.	Headquarter of Taluka	1970		1971		1972		1973		Average 1970 to 1973	
		No. of rainy days	Annual rainfall (M.M.)	No. of rainy days	Annual rainfall (M.M.)	No. of rainy days	Annual rainfall (M.M.)	No. of rainy days	Annual rainfall (M.M.)	No. of rainy days	Annual rainfall (M.M.)
1	2	3	4	5	6	7	8	9	10	11	12
<u>Tribal Area</u>											
1.	Jhagadia	73	1734	56	842	47	417	62	1171	60	1041
2.	Nandod	74	1809	58	1013	32	686	64	1646	57	1289
3.	Dediapada	67	987	67	985	54	872	87	1328	69	1043
4.	Sagbara	77	1912	56	1058	35	736	74	1160	61	1217
5.	Valia	72	1500	57	1244	35	670	49	1329	53	1186
<u>Non-Tribal Area</u>											
6.	Bharuch	53	1600	48	518	24	339	62	1180	47	909
7.	Anklesvar	53	1721	49	723	31	517	50	930	48	973
8.	Hansot	74	1665	40	474	39	473	50	847	51	865
9.	Vagra	33	1571	49	561	36	363	40	751	49	812
10.	Jambusar	57	967	40	501	25	284	50	774	45	632
11.	Amod	49	1123	34	919	29	507	47	902	40	863

Source: District Statistical Officer, District Panchayat, Bharuch.

Number of rainy days and average rainfall at the taluka headquarters

District-Bharuch

Sr: Headquarter		1974		1975		1976		1977		1978		Average of 1974 to 78	
No. of Taluka	No. of rainy days	Annual rain-fall (mm)	No. of rainy days	Annual rain-fall (mm)	No. of rainy days	Annual rain-fall (mm)	No. of rainy days	Annual rain-fall (mm)	No. of rainy days	Annual rain-fall (mm)	No. of rainy days	Annual rain-fall (mm)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Tribal Area

1. Jhagadia	43	367	78	1092	62	1974	52	979	33	1027	54	1092
2. Nandod	45	595	67	1646	75	2401	69	1558	62	1295	64	1496
3. Dodiapada	52	547	74	1156	77	2267	80	1601	71	1536	71	1421
4. Sagbara	50	745	73	1206	70	2222	64	1743	64	1241	64	1431
5. Valia	39	342	68	893	74	1947	70	1114	45	1030	59	1065

Non-Tribal Area

6. Bharuch	33	247	63	1447	63	2453	65	877	42	867	53	1178
7. Ankloshwar	38	329	60	1147	58	1793	62	710	48	1030	53	1002
8. Hansot	39	482	52	922	44	1777	60	635	42	903	43	944
9. Vagra	36	371	50	859	54	1051	43	770	47	767	46	768
10. Jambusar	35	293	53	386	66	1203	62	782	43	717	51	776
11. Anod	35	328	56	991	58	1110	49	706	37	728	47	773

Source: District Statistical Officer, District Panchayat, Bharuch

Population of Scheduled Tribes and Scheduled Castes

District-Bharuch (Year-1971)

Sr. No.	Taluka	Total Population	Scheduled Tribes		Scheduled Castes	
			Persons	Percentage to total population	Persons	Percentage to total population
1	2	3	4	5	6	7
<u>Tribal Area</u>						
1.	Jhagadia	120000	73636	61.4	3924	3.3
2.	Nandod	148294	33379	66.3	5587	3.8
3.	Dediapada	67683	63748	94.2	331	0.5
4.	Sagbara	52576	47724	90.8	407	0.8
5.	Valia	80927	61903	76.5	637	0.8
6.	Anklesvar Pocket	40874	19972	48.9	1911	4.7
<u>Sub-Total</u>		<u>510354</u>	<u>365362</u>	<u>71.6</u>	<u>12797</u>	<u>2.5</u>
<u>Nor-Tribal Area</u>						
7.	Bharuch	223537	45396	20.3	13725	6.1
8.	Anklesvar (exclud.TP)	56423	15958	28.3	2002	3.5
9.	Hansot	45231	12814	28.3	3585	7.9
10.	Vagra	65037	16919	26.0	4458	6.9
11.	Jambusar	140355	13047	9.3	12078	8.6
12.	Amod	68664	17405	25.3	4787	7.0
<u>Sub-Total</u>		<u>599247</u>	<u>121539</u>	<u>20.3</u>	<u>40635</u>	<u>6.8</u>
District Total		1109601	486901	43.9	53432	4.8

-21- Statement No. 9
Population, Scheduled Tribes & Scheduled Castes.

District-Bharuch		1981				
Sr. No.	Taluka	Total Population	Scheduled Tribes		Scheduled Castes	
			Persons	% to total population	Persons	% to total population
1	2	3	4	5	6	7
<u>Tribal Area</u>						
1.	Jhagadia	128134	82329	64.3	3928	3.1
2.	Nadod	179263	117191	65.4	6460	3.6
3.	Dodiapada	88431	82545	93.3	619	0.7
4.	Sagbara	58585	52301	89.3	489	0.8
5.	Valia	94319	71989	76.3	808	0.9
6.	Ankleshwar Pocket	47042	22501	47.8	1865	4.0
<u>Sub-Total</u>		<u>595774</u>	<u>428856</u>	<u>72.0</u>	<u>14169</u>	<u>2.4</u>
7.	Bharuch	265093	55944	21.1	16053	6.1
8.	Ankleshwar(Excluding T.P.)	81602	23607	28.9	2942	3.6
9.	Hansot	50245	15325	30.5	3835	7.6
10.	Vagra	65487	16463	25.1	4245	6.5
11.	Jambusar	158316	14491	9.2	13294	8.4
12.	Amod	79934	22707	28.4	5155	6.5
<u>Sub-Total</u>		<u>700677</u>	<u>148537</u>	<u>21.2</u>	<u>45524</u>	<u>6.5</u>
District Total.		1296451	577393	44.5	59693	4.6

Growth of Population

District - Bharuch

Sr. No.	Taluka	1971		1981		Increase in 1981 over 1971	
		Total Population	Tribal Population	Total Population	Tribal Population	Total Population	Tribal Population
1.	2.	3.	4.	5.	6.	7.	8.
<u>Tribal</u>							
1.	Jhagadia	120000	73636	128134	82329	6.7	11.8
2.	Nadod	148294	98379	179263	117191	20.9	19.1
3.	Dediapada	67683	63748	88431	82545	30.7	29.5
4.	Sagbara	52576	47724	58585	52301	11.4	9.6
5.	Valia	80927	61903	94319	71989	16.5	16.3
6.	Ankleshwar Pocket	40874	19972	47042	22501	15.1	12.7
Sub-Total		510354	365362	595774	428356	16.9	17.4
<u>Non-Tribal</u>							
7.	Bharuch	223537	45396	265093	51244	18.6	23.3
8.	Ankleshwar (excl. T.P.)	56423	15958	81602	21607	44.6	47.2
9.	Hansot	45234	12814	50245	15325	11.1	19.6
10.	Vagra	65037	16919	65487	10463	0.7	-2.7
11.	Jambusar	140355	13047	158316	14491	12.8	11.1
12.	Anod	68664	17405	79934	22707	16.4	30.5
Sub-Total		599247	121539	700677	148537	16.9	22.2
District Total		1109601	486901	1296451	577393	16.8	18.6

Area, population and density of population

District-Bharuch

(Year : 1971)

Sr. No.	Taluka	Area (sq.kms.)	Population	Density of population (per sq.km.)	No. of villages		No. of towns	
					Inhabited	Uninhabited		
1	2	3	4	5	6	7	8	9
<u>Tribal area</u>								
1.	Jhagadia	813	120000	148	164	4	168	-
2.	Nadod	1131	148294	131	208	1	209	1
3.	Dediapada	1022	67683	66	176	44	214	-
4.	Sagbara	400	52576	131	106	15	121	-
5.	Valia	514	80927	157	94	1	95	-
6.	Ankleshwar Pocket	245	40874	167	37	1	38	-
Sub-Total		4125	510354	124	77	66	845	1
<u>Non-Tribal area</u>								
7.	Bharuch	666	223537	336	95	4	99	2
8.	Ankleshwar(Exc. T.P.)	1170	56423	332	18	-	18	1
9.	Hansot	399	45231	113	45	-	46	1
10.	Vagra	833	65037	74	68	-	69	-
11.	Janbusar	1097	140355	128	81	-	81	1
12.	Anod	465	68664	148	52	-	52	1
Sub-Total		3680	599247	163	358	4	365	6
District Tot l		(9045)* 7805+	1109601	(123)* 142+	1135	70	1210	7

* Figures as supplied by Surveyor General.

. Source: Census of India, 1971.

+ Figures based on land use area.

Area, population and Density of population.

District-Bharuch							1981 Census	
Sr. No.	Taluka	Area Sq.Kms.	Population 1981	Density of population per sq.km.	No. of villages		No. of towns	
					Inhabited	Uninhabited		
1	2	3	4	5	6	7	8	9
<u>Tribal area</u>								
1:	Jhagadia	81.2	128154	158	165	3	168	-
2:	Nandod	1120	179263	160	205	-	205	1
3:	Dediapada	1028	83431	86	169	45	214	-
4:	Sagbara	358	58585	164	95	12	107	-
5:	Valia	514	94319	183	93	2	95	-
6:	Ankleshwar Pocket	273	47042	172	38	-	38	-
<u>Sub-Total</u>		4105	595774	145	765	62	827	1
<u>Non-Tribal Area</u>								
7:	Bharuch	641	265093	414	93	2	95	2
8:	Ankleshwar(Excl.T.P.)	167	81602	487	19	1	20	1
9:	Hansot	399	50245	126	45	-	45	1
10:	Vagra	884	65487	74	68	1	69	-
11:	Jambusar	1097	158316	144	81	-	81	1
12:	Amod	468	79934	171	52	-	52	1
<u>Sub-Total</u>		3656	700677	192	358	4	362	6
<u>District Total</u>		7761	1296451	167	1123	66	1189	7
		* 9058						

* Figs. supplied by Surveyor General

+ Figs. Base on Land use area

Rural and Urban Composition of Population by Sex.

(Year-1971)

District-Bharuch

Sr. No.	Rural			Urban			Total			Personage of urban population (females per 100 males)	Sex ratio of total population	
	Males	Females	Total	Males	Females	Total	Males	Females	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13
<u>Tribal Area</u>												
1.	Jhagadia	61506	58494	120000	-	-	-	61506	58494	120000	-	951
2.	Nandod	62610	39915	122525	13446	12323	25769	76056	72233	148294	17.4	950
3.	Dediapada	34260	33423	67683	-	-	-	34260	33423	67683	-	976
4.	Sagbara	26168	26408	52576	-	-	-	26168	26408	52576	-	1009
5.	Valia	41146	39781	80927	-	-	-	41146	39781	80927	-	966
6.	Ankleshwar Pockot	20908	19966	40874	-	-	-	20908	19966	40874	-	963
<u>Sub-Total</u>		<u>246598</u>	<u>257981</u>	<u>484583</u>	<u>13446</u>	<u>12323</u>	<u>25769</u>	<u>260044</u>	<u>240310</u>	<u>510354</u>	<u>5.0</u>	<u>963</u>
<u>Non-Tribal Area</u>												
7.	Bharuch	6396	60520	124924	51380	47233	98613	115776	117761	223537	44.1	931
8.	Ankleshwar (excl. T.P.)	13285	14913	30202	13438	12702	26220	28723	27700	56423	44.5	960
9.	Hansot	10912	8683	37595	3858	3778	7636	22770	12461	45231	16.9	980
10.	Vagra	35508	34329	69837	-	-	-	33508	31329	65037	-	941
11.	Janbusar	60077	56001	116078	12621	11024	24255	12724	61331	40555	17.3	930
12.	Anod	30027	28112	58139	5454	5071	10525	35481	33183	68664	15.3	935
<u>Sub-Total</u>		<u>222225</u>	<u>209777</u>	<u>432002</u>	<u>86757</u>	<u>80488</u>	<u>167245</u>	<u>308982</u>	<u>290265</u>	<u>599247</u>	<u>27.9</u>	<u>939</u>
<u>District Total</u>		<u>468823</u>	<u>447764</u>	<u>916587</u>	<u>100203</u>	<u>92811</u>	<u>193014</u>	<u>569026</u>	<u>540575</u>	<u>1109601</u>	<u>17.4</u>	<u>950</u>

Statement No.14

Rural and Urban Composition of Population by Sex.

District-Bharuch											(Year-1981)	
Sr. No.	Taluka	Rural			Urban			Total			Percentage of urban population	Sex ratio for total population per 1000 males
		Males	Females	Total	Males	Females	Total	Males	Females	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13
<u>Tribal Area</u>												
1.	Jhagadia	65845	62289	128134	-	-	-	65845	62289	128134	-	946
2.	Nadod	78083	71954	150037	15224	14002	29226	93307	85956	179263	16.3	921
3.	Dediapada	44424	44007	88431	-	-	-	44424	44007	88431	-	991
4.	Sagbara	28963	29622	58585	-	-	-	28963	29622	58585	-	1023
5.	Valia	47694	46625	94319	-	-	-	47694	46625	94319	-	978
6.	Ankleshwar Pockot	24319	22723	47042	-	-	-	24319	22723	47042	-	934
Sub-Total		289328	277220	566548	15224	14002	29226	304552	291222	595774	4.9	956
<u>Non-Tribal Area</u>												
7.	Bharuch	75277	69232	144509	62835	67749	120584	138112	126981	265093	45.9	919
8.	Ankleshwar (Excl. T.P.)	19171	18731	37902	23183	20517	43700	42354	39248	81602	53.6	926
9.	Hansot	21655	21015	42670	3846	3729	7575	25501	24744	50245	15.1	970
10.	Vagra	33806	31681	65487	-	-	-	33806	31681	65487	-	937
11.	Janbusar	67132	62815	129947	14583	13786	28369	81715	76601	158316	17.9	937
12.	Amrod	34938	32891	67829	6213	5842	12055	41201	38733	79934	15.0	940
Sub-Total		252029	236365	488394	110660	101623	212283	362689	337988	700677	30.3	932
District Total		541357	513585	1054942	125884	115625	241509	667241	629210	1296451	18.6	943

Percentage of Literacy by Sex

District-Bharuch

Sr. No.	1971			1971			1981			1981			
	Male	Female	Total	% to total popu-lation	% to total popu-lation	% to total popu-lation	Male	Female	Total	% to total popu-lation	% to total popu-lation	% to total popu-lation	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>Tribal Area</u>													
1.	Jhagadia	23635	10491	34126	38.4	17.9	28.4	32045	16754	48496	48.7	26.9	38.1
2.	Nadod	31234	13768	45002	41.4	19.1	30.3	50057	25086	75143	53.6	29.2	41.9
3.	Dediapada	7072	1823	8895	20.6	5.5	13.1	14422	5077	19499	32.5	11.5	22.0
4.	Sagbara	6002	4563	7565	22.9	5.9	14.4	11890	5092	16982	41.1	17.2	29.0
5.	Valia	14448	360	20808	35.1	16.0	25.7	21634	11651	33285	45.4	25.0	35.3
6.	Ankleshwar Pocket	8967	4263	13230	42.9	21.3	32.3	12795	7532	20327	52.6	33.1	43.2
<u>Sub-Total</u>		<u>91358</u>	<u>38268</u>	<u>129626</u>	<u>35.1</u>	<u>48.2</u>	<u>25.4</u>	<u>142803</u>	<u>71189</u>	<u>214032</u>	<u>46.2</u>	<u>24.4</u>	<u>35.9</u>
<u>Non-Tribal Area</u>													
7.	Bharuch	69222	40099	109321	59.8	37.2	48.9	92164	58972	151136	66.7	46.4	57.0
8.	Ankleshwar (Excl. T.P.)	15928	10246	26174	59.6	36.9	46.4	26506	17016	43522	62.6	43.4	53.3
9.	Hansot	12625	7643	20268	55.4	34.0	44.8	15884	10259	26143	62.3	41.5	52.0
10.	Vagra	17054	719	24773	50.9	24.5	38.1	20811	11573	32384	61.6	36.5	49.5
11.	Janbusar	38571	18792	56363	53.0	26.3	40.2	47893	24951	72844	53.6	32.6	46.0
12.	Mod	19309	10612	29921	54.4	32.0	43.6	24256	14742	28998	58.9	38.1	48.3
<u>Sub-Total</u>		<u>172709</u>	<u>24111</u>	<u>226820</u>	<u>55.9</u>	<u>32.4</u>	<u>44.5</u>	<u>227514</u>	<u>137513</u>	<u>365027</u>	<u>62.7</u>	<u>40.7</u>	<u>52.1</u>
<u>District Total</u>		<u>264067</u>	<u>132379</u>	<u>396446</u>	<u>46.4</u>	<u>24.5</u>	<u>35.7</u>	<u>370357</u>	<u>208702</u>	<u>579059</u>	<u>55.5</u>	<u>33.2</u>	<u>44.7</u>

Literacy among Scheduled Tribes.

District-Bharuch		(Year-1971)								
Sr. No.	Taluka	Total population			Literate persons			Percentage of Literates to total tribal population.		
		Males	Females	Total	Males	Females	Total	Males	Females	Total
1	2	3	4	5	6	7	8	9	10	11
<u>Tribal Area</u>										
1.	Jhagadia	37422	36214	73636	8249	1762	10011	22.0	4.9	13.6
2.	Nandod	50011	48368	98379	14001	3025	17026	28.0	6.3	17.3
3.	Dodiapada	32094	31654	63748	5825	1138	6963	18.1	3.6	10.9
4.	Sagbara	23550	24174	47724	4767	1079	5846	20.2	4.5	12.2
5.	Valia	31243	30660	61903	7689	1927	9616	24.6	6.3	15.5
<u>Sub-Total</u>		<u>174320</u>	<u>171070</u>	<u>345390</u>	<u>40531</u>	<u>8931</u>	<u>49462</u>	<u>23.2</u>	<u>5.2</u>	<u>14.3</u>
<u>Non-Tribal Area</u>										
6.	Bharuch	23521	21875	45396	5632	992	6624	23.9	4.5	14.6
7.	Ankleshwar	18247	17683	35930	3740	647	4387	20.5	3.7	12.2
8.	Hansot	6525	6289	12814	1341	210	1551	20.6	3.3	12.1
9.	Vagra	8583	8336	16919	1690	216	1906	19.7	2.6	11.3
10.	Jaribusar	6696	6351	13047	1021	117	1138	15.2	1.8	8.7
11.	Amod	2112	8293	17405	1973	311	2284	21.7	3.7	13.1
<u>Sub-Total</u>		<u>72684</u>	<u>68827</u>	<u>141511</u>	<u>15397</u>	<u>2493</u>	<u>17890</u>	<u>21.2</u>	<u>3.6</u>	<u>12.6</u>
<u>District Total</u>		<u>247004</u>	<u>239897</u>	<u>486901</u>	<u>55928</u>	<u>11424</u>	<u>67352</u>	<u>22.6</u>	<u>4.8</u>	<u>13.8</u>

Source: Census of India, 1971

Literacy among Scheduled Tribes.

District-Bharuch								1981 Census		
Sr. No.	Taluka	Total Scheduled Tribes population			Scheduled Tribes No. of literates			Percentage of Literates to total Tribal Population		
		Male	Female	Total	Male	Female	Total	Male %	Female %	Total %
1	2	3	4	5	6	7	8	9	10	11
<u>Tribal</u>										
1.	Jhagadia	42028	40301	82329	14460	5378	19846	34.4	13.3	24.1
2.	Nandod	59906	57285	117191	25648	9566	35214	42.8	16.7	30.0
3.	Dediapada	41270	41275	82545	12197	3764	15961	29.6	9.1	19.3
4.	Sagbara	25597	26704	52301	9495	4087	13582	37.1	15.3	26.0
5.	Valia	36176	35813	71989	12817	5056	17873	35.4	14.1	24.8
<u>Sub-Total</u>		204977	201378	406355	74625	27851	102476	36.4	13.8	25.2
<u>Non-Tribal</u>										
6.	Bharuch	29310	26634	55944	8979	2282	11261	30.63	8.56	20.1
7.	Ankleshwar	23743	22365	46108	6997	1894	8891	29.46	8.46	19.3
8.	Hansot	7928	7397	15325	2185	565	2730	27.38	7.63	17.8
9.	Vagra	8632	7831	16463	2397	531	2928	27.76	6.78	17.8
10.	Jambusar	7650	6041	14491	1391	194	1585	18.18	2.83	10.9
11.	Amod	11888	10849	22707	3060	607	3667	25.80	5.59	16.1
<u>Sub-Total</u>		89121	81917	171038	24939	6073	3106	28.03	7.41	18.2
<u>District Total</u>		294098	283295	577393	99614	33924	13353	33.67	11.97	23.1

Distribution of population by workers and non-workers.

(Year-1971)

District-Bharuch

Sr. No.	Taluka	Total population			Total workers			Total Non-workers			Percentage of workers to total population		
		Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>Tribal Area</u>													
1.	Jhagadia	61506	58494	120000	33305	13483	46788	28201	45011	73212	54.1	23.1	39.0
2.	Nandod	76056	72238	148294	40329	11513	51842	35727	60725	96452	53.0	15.9	35.0
3.	Dediapada	34260	33423	67683	17795	3652	21447	16465	29771	46236	51.9	10.9	31.7
4.	Sagbara	26168	26406	52576	14630	4082	18712	11538	22326	33864	55.9	15.5	35.6
5.	Valia	41146	39781	80927	22345	12718	35063	18801	27063	45864	54.3	32.0	43.3
6.	Ankleshvar Pocket	20908	19966	40874	11395	4652	16047	9324	15023	24347	54.5	23.3	39.2
Sub-Total		260044	250310	510354	139799	50100	189899	110732	199919	319975	53.8	20.0	37.2
<u>Non-Tribal Area</u>													
6.	Bharuch	115776	107761	223537	57245	15526	72771	58531	92235	150766	49.4	14.4	32.6
7.	Ankloswar (exclud TP)	28723	27700	56423	14636	4573	19209	14276	23418	37694	50.9	16.5	34.0
8.	Hansot	22770	22461	45231	11648	4998	16646	11122	17463	28585	51.2	22.3	36.8
9.	Vagra	33508	31529	65037	18248	5292	23540	15260	26237	41497	54.5	16.8	36.2
10.	Jambusar	72724	67631	140355	38137	6331	44468	34507	61300	95807	52.4	9.4	31.7
11.	Amod	35481	33183	68664	19216	6000	25216	16265	27183	43448	54.2	10.4	36.7
Sub-Total		308982	290265	599247	159130	42720	201850	150041	247836	397877	51.5	14.7	33.7
District Total		569026	540575	1109601	298929	92820	391749	270097	447755	717852	52.5	17.2	35.2

Source: Consus of India, 1971

Distribution of Population - Workers & Non-Workers

District Bharuch

(Year-1981)

Sr. No.	Taluka	Total Population 1981			Total Main workers			Non-workers			Percentage of workers to total population		
		Males	Females	Total	Males	Females	Total	Males	Females	Total	Males	Females	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>Tribal</u>													
1	Jagadia	65845	62289	128134	38076	14416	52492	27769	47873	75642	57.8	23.1	41.0
2	Nadod	93307	85955	179263	51251	12158	63409	42056	73798	115854	54.9	14.1	35.4
3	Dadiapada	44424	44007	88431	24883	17654	42537	19541	26353	45894	56.0	40.1	48.1
4	Sagbara	28263	29571	57835	16525	5935	20460	12458	25637	38125	57.0	13.3	34.9
5	Valia	47694	46625	94319	26990	15391	42381	20704	31234	51938	56.6	33.0	44.9
6	Ankleshwar Pocket	24319	22723	47042	13902	5200	19102	10417	17533	27950	57.2	22.9	40.6
<u>Sub-Total</u>		<u>304552</u>	<u>291221</u>	<u>595774</u>	<u>171627</u>	<u>68754</u>	<u>240381</u>	<u>132925</u>	<u>222478</u>	<u>355403</u>	<u>56.4</u>	<u>23.6</u>	<u>40.3</u>
<u>Non-Tribal</u>													
7	Bharuch	138112	12698	150810	72116	17900	90025	65996	109072	175068	52.2	14.1	34.0
8	Ankleshwar (exclud TP)	42354	39243	81602	23593	6326	29919	18761	32912	51673	55.7	16.1	36.7
9	Hansot	25501	24741	50245	14224	5045	19269	11277	19699	30976	55.7	20.4	38.4
10	Vagra	33805	31601	65407	18425	4269	22694	15381	27412	42793	54.5	13.5	34.7
11	Jambusar	31115	70601	101716	42976	6659	49635	30739	69842	108681	52.6	8.7	31.4
12	mod	41201	30122	71323	23305	7648	30953	17796	31085	48961	56.6	19.7	38.7
<u>Sub-Total</u>		<u>362689</u>	<u>337900</u>	<u>700677</u>	<u>194639</u>	<u>47856</u>	<u>242495</u>	<u>167050</u>	<u>290122</u>	<u>458172</u>	<u>53.7</u>	<u>14.2</u>	<u>34.6</u>
<u>District Total</u>		<u>667241</u>	<u>629121</u>	<u>1296451</u>	<u>366266</u>	<u>116610</u>	<u>482876</u>	<u>300975</u>	<u>512600</u>	<u>813565</u>	<u>54.9</u>	<u>18.5</u>	<u>37.2</u>

Percentage of agricultural workers to total workers.

District-Bharuch

(Year-1971)

Sr. No.	Taluka	Total workers	Cultivators		Agricultural Labourers		Total Agricultural workers	
			Persons	Percentage to total workers	Persons	Percentage to total workers	Persons	Percentage to total workers
1	2	3	4	5	6	7	8	9
<u>Tribal area</u>								
1.	Jhagadia	46788	13681	29.2	28720	60.3	41901	89.5
2.	Nandod	51842	18989	36.6	23221	44.8	42210	81.4
3.	Dediapada	21447	11670	54.4	7909	36.9	19579	91.3
4.	Sagbara	18712	12211	65.3	5054	27.0	17265	92.3
5.	Valia	35063	9721	27.7	21999	62.7	31720	90.4
6.	Ankleshvar Pocket	16047	3781	23.6	9947	61.9	13728	85.5
<u>Sub-Total</u>		<u>189899</u>	<u>70053</u>	<u>36.9</u>	<u>96350</u>	<u>50.7</u>	<u>166403</u>	<u>87.6</u>
<u>Non-Tribal Area</u>								
6.	Bharuch	72771	13423	18.4	26594	36.5	40017	54.9
7.	Ankleshvar (excl. TP)	19209	3432	17.9	7183	37.4	10615	55.3
8.	Hansot	16646	5135	30.8	8772	52.7	13907	83.5
9.	Vagad	23540	7979	33.9	12831	54.5	20810	88.4
10.	Jambhar	44468	15510	34.8	20265	45.6	35775	80.4
11.	Amod	25216	7399	29.2	13846	54.9	21229	84.1
<u>Sub-Total</u>		<u>201850</u>	<u>52862</u>	<u>26.2</u>	<u>89491</u>	<u>44.3</u>	<u>142353</u>	<u>70.5</u>
District Total		391749	122915	31.4	185841	47.4	308756	78.8

Source : Census of India, 1971

Proportion of Agriculture Workers to Total Workers

(1981)

District-Bharuch

Sr. No.	Taluka	Cultivators		Agri. Labourers		Total Agri. Workers		
		Total Main Workers	Persons %	Persons %	Persons %			
1	2	3	4	5	6	7	8	9
Tribal Area								
1.	Jhagadia	52492	14098	26.9	28201	53.7	42299	80.6
2.	Nadod	63409	20924	33.0	22062	34.8	42986	67.8
3.	Dodiapada	42537	28308	67.7	9655	22.7	38463	90.4
4.	Sagbara	20460	9945	48.6	7565	37.0	17510	85.6
5.	Valia	42381	11047	26.1	26125	61.6	37172	87.7
6.	Ankleshwar Pocket	19102	3976	20.8	10711	56.1	14687	76.9
Sub-Total		240381	88798	36.9	104319	43.4	193117	80.3
7.	Bharuch	90025	13292	14.8	30005	33.3	43297	48.1
7.	Ankleshwar (excluding TP)	29919	3877	13.0	9325	31.2	13202	44.1
8.	Hansot	19269	5702	30.1	8539	44.3	14321	74.4
9.	Vagra	22694	8374	36.9	9521	42.0	17895	78.9
10.	Jambusar	49635	15960	32.2	20555	41.4	36523	73.6
11.	Amod	30953	8089	26.1	17650	57.0	25739	83.2
Sub-Total		242495	55382	22.8	95595	39.4	150977	62.3
District Total		482876	144180	29.9	199914	41.4	344094	71.3

DISTRICT-BHARUCH (Area in Hectares)(Year : 1970-71)

Sr. No.	Upto 2.00 hectares		2.00 to 5.00 hectares		5.00 to 20.00 hectares		Above 20.00 hectares		Total holdings		
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	
1	2	3	4	5	6	7	8	9	10	11	12

Tribal Area

1. Jhagadia	8520 (52.5)	8115 (16.9)	4924 (30.3)	15606 (32.6)	2752 (16.9)	22799 (47.6)	50 (0.3)	1420 (2.9)	16246 (100.0)	47940 (100.0)
2. Nandod	7568 (48.5)	7374 (15.5)	5227 (33.5)	16818 (35.3)	2760 (17.7)	22229 (46.6)	45 (0.3)	1242 (2.6)	15600 (100.0)	47663 (100.0)
3. Dodiapada	2915 (38.3)	3558 (12.8)	3098 (40.7)	9946 (35.8)	1545 (20.3)	12627 (45.5)	59 (0.7)	1630 (5.9)	7617 (100.0)	21761 (100.0)
4. Sagbara	1714 (32.8)	2189 (11.5)	2416 (46.2)	7775 (40.7)	1076 (20.6)	8331 (43.6)	24 (0.4)	797 (4.2)	5230 (100.0)	19092 (100.0)
5. Valia	2929 (35.7)	2962 (7.4)	2534 (30.8)	8268 (20.8)	2579 (31.4)	23979 (60.1)	175 (2.1)	4670 (11.7)	8217 (100.0)	39879 (100.0)
Sub-Total	23646 (44.7)	24198 (13.3)	18199 (34.4)	58413 (32.0)	10712 (20.2)	89965 (49.3)	553 (0.7)	9759 (5.4)	52910 (100.0)	102335 (100.0)

Non-Tribal Area

6. Bharuch	7502 (50.7)	7315 (14.5)	4111 (27.2)	13270 (26.2)	3100 (20.9)	27296 (54.0)	102 (0.7)	2702 (5.3)	14815 (100.0)	50584 (100.0)
7. Anklesvar	4500 (45.3)	4736 (13.9)	3284 (33.0)	10537 (31.0)	2128 (21.4)	17020 (52.5)	36 (0.3)	863 (2.6)	9954 (100.0)	33956 (100.0)
8. Honsot	2966 (46.3)	2935 (13.1)	1938 (30.1)	6270 (28.0)	1436 (23.2)	12453 (55.7)	26 (0.4)	721 (3.2)	6411 (100.0)	22379 (100.0)
9. Vagra	2925 (31.1)	3224 (6.1)	2697 (28.6)	8856 (16.8)	3609 (38.3)	35020 (68.0)	188 (2.0)	4818 (9.1)	9419 (100.0)	52718 (100.0)
10. Jambusar	9338 (48.7)	8846 (13.2)	5628 (29.4)	18200 (27.2)	4082 (21.3)	36506 (54.6)	124 (0.6)	3364 (5.0)	19169 (100.0)	66916 (100.0)
11. Amod	3106 (37.4)	3196 (8.5)	2526 (30.4)	8395 (22.4)	2594 (31.3)	24024 (64.0)	76 (0.9)	1398 (5.1)	8302 (100.0)	37513 (100.0)
Sub-Total	30343 (44.0)	30253 (11.5)	20179 (29.6)	65528 (24.8)	16999 (25.0)	153919 (58.3)	549 (0.8)	14366 (5.4)	68070 (100.0)	264066 (100.0)

District Total	53989 (44.6)	54451 (12.2)	38378 (31.7)	123941 (27.8)	27711 (22.9)	243884 (54.6)	902 (0.8)	24125 (5.4)	120980 (100.0)	446401 (100.0)
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Source: Directorate of Agriculture, Gujarat State. Note: Figures in brackets indicate percentages to total.

Number and area of land held by size of holdings.

1976-77 Agriculture census

(Bharuch District)

Taluka	Upto 2 hects.		2 to 5 hects.		5 to 20 hects.		20 hects. & above.		T o t a l	
	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area
1	2	3	4	5	6	7	8	9	10	11
<u>Tribal area</u>										
1. Jhagadia	7676	7071	4866	15650	2791	22626	34	907	15367	46254
	(49.9)	(15.3)	(31.7)	(33.8)	(18.2)	(48.9)	(0.2)	(2.0)	(100)	(100)
2. Nandod	8152	7734	5169	16512	2456	19233	29	742	15806	44221
	(51.6)	(17.5)	(32.7)	(37.3)	(15.5)	(43.5)	(0.2)	(1.7)	(100)	(100)
3. Dodiapada	2698	3338	3023	9751	1601	12922	36	1062	7358	27073
	(36.7)	(12.3)	(41.1)	(36.0)	(21.8)	(47.7)	(0.4)	(4.0)	(100)	(100)
4. Sagbara	1362	1694	2094	6836	997	7895	20	490	4473	16915
	(30.4)	(10.0)	(46.8)	(40.4)	(22.4)	(46.7)	(0.4)	(2.9)	(100)	(100)
5. Valia	3531	3355	2846	9339	2703	24421	86	2320	9166	39435
	(38.6)	(8.5)	(31.0)	(23.7)	(29.5)	(61.8)	(0.9)	(5.9)	(100)	(100)
Sub Total	23419	23192	17998	58088	10548	87097	205	5521	52170	173898
	(44.9)	(13.3)	(34.5)	(33.4)	(20.2)	(50.1)	(0.4)	(3.2)	(100)	(100)
<u>Non-Tribal</u>										
6. Bharuch	9324	8341	4513	14392	2988	24716	65	2216	16870	49665
	(55.2)	(16.8)	(26.8)	(29.0)	(17.3)	(49.8)	(0.4)	(4.4)	(100)	(100)
7. Aakleshwar	5385	5369	3092	9889	1870	15155	26	687	10373	31110
	(51.9)	(17.3)	(29.8)	(31.8)	(18.0)	(48.7)	(0.3)	(2.2)	(100)	(100)
8. Hasot	3448	3287	2328	7507	1550	12235	19	655	7345	23684
	(46.9)	(13.9)	(31.7)	(31.7)	(31.1)	(51.6)	(0.3)	(2.8)	(100)	(100)

Taluka	Up to 2 hecets.		2 to 5 hecets.		5 to 20 hecets.		20 hecets. & above.		Total	
	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
9. Vagra	3021	3146	2707	8823	3419	33295	162	4069	9309	49333
	(32.5)	(6.4)	(29.1)	(17.9)	(36.7)	(67.5)	(1.7)	(8.2)	(100)	(100)
10. Jambusar	9508	8601	5398	17456	4031	35672	100	2824	19037	64553
	(50.4)	(13.3)	(28.3)	(27.0)	(21.2)	(55.3)	(0.5)	(4.4)	(100)	(100)
11. Amod	4061	3876	2855	9365	2565	22246	43	1108	9524	36595
	(42.7)	(10.6)	(30.0)	(25.6)	(26.9)	(60.8)	(0.4)	(3.0)	(100)	(100)
Sub Total	34747	32620	20893	67432	16403	143319	415	11559	72458	254930
	(48.0)	(12.8)	(28.8)	(26.4)	(22.6)	(56.2)	(0.6)	(4.6)	(100)	(100)
District	58166	55812	38891	125520	26951	230416	620	17080	124628	428828
	(46.7)	(13.0)	(31.2)	(29.3)	(21.6)	(53.7)	(0.5)	(4.0)	(100)	(100)

Net area sown per agricultural worker.

District-Bharuch

(Area in Hects.)

Sr. No.	Net Area sown		Gross Area sown		Net area sown per agt. worker		
	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79	
1	2	3	4	5	6	7	
<u>Tribal Area :</u>							
1.	Jhagadia	47539	48327	48098	49006	1.1	1.1
2.	Nandod	49814	49559	50569	50731	1.2	1.2
3.	Dediapada	25436	25896	25548	26402	1.3	1.3
4.	Sagbara	16675	16219	16821	16349	1.0	0.9
5.	Valia	40102	40443	40574	40651	1.3	1.3
	<u>Sub-Total:</u>	179567	180444	181610	183139	1.2	1.2
<u>Non-Tribal Area :</u>							
6.	Bharuch	51860	47996	51995	48118	1.3	1.2
7.	Ankleshwar	33354	32518	33503	32663	1.4	1.3
8.	Hansot	24890	23809	24895	24064	1.8	1.7
9.	Vagra	49808	48980	50303	49158	2.4	2.3
10.	Jambusar	67081	66285	67689	66520	1.9	1.9
11.	Anod	37963	37079	38249	37149	1.8	1.7
	<u>Sub-Total :</u>	264956	256667	266634	257672	1.7	1.6
<u>District Total :</u>		444523	437111	448244	440811	1.4	1.4

PROPORTION OF AREA UNDER PRINCIPAL FOOD AND NON-FOOD CROPS

District-Bharuch

(Area in Hectares)

Sr. No.	T a l u k a	Year	R i c e		W h e a t		J o w a r		B a j r i		M a i z e		T u r	
			Area	Per cent	Area	Per cent	Area	Per cent	Area	Per cent	Area	Per cent	Area	Per cent
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

TRIBAL AREA

1. Jhagadia	1973-74	1538	3.2	870	1.8	10607	22.1	1089	2.3	310	0.6	2477	5.1
	1974-75	2453	5.0	417	0.8	11245	22.8	822	1.7	386	0.8	3798	7.7
	1975-76	2134	4.3	616	1.2	10453	20.1	970	1.9	698	1.4	4155	8.3
	1976-77	2012	4.1	807	1.7	12261	25.2	607	1.2	500	1.0	4070	8.4
	1977-78	2412	4.9	772	1.6	12505	25.5	501	1.0	585	1.2	5159	10.5
	1978-79	2436	5.0	557	1.1	12667	25.7	417	0.9	621	1.3	7478	15.3
2. Nandod	1973-74	2787	5.5	530	1.0	9361	18.5	3371	6.7	1108	2.2	1802	3.6
	1974-75	3097	6.1	1145	2.2	8225	16.2	2725	5.4	1514	2.9	2073	4.1
	1975-76	2947	5.8	769	1.5	7600	14.9	3390	6.7	1858	3.7	2298	4.5
	1976-77	2838	5.6	622	1.2	8214	16.2	2924	5.8	2247	4.5	2264	4.4
	1977-78	3204	6.3	601	1.2	9018	17.8	2771	5.5	2242	4.4	2712	5.4
	1978-79	3763	7.4	502	1.0	9260	18.3	2278	4.5	1937	3.8	2829	5.6
3. Dediapada	1973-74	3687	14.4	61	0.2	5325	20.9	177	0.7	470	1.8	1866	7.3
	1974-75	2733	10.7	37	0.2	5928	23.2	87	0.3	526	2.1	1722	6.7
	1975-76	2861	11.2	55	0.2	6285	24.6	53	0.2	648	2.5	1749	6.9
	1976-77	3117	12.0	121	0.5	5462	21.1	67	0.2	626	2.4	1905	7.3
	1977-78	3330	12.2	93	0.3	5976	22.0	36	0.1	808	3.0	1736	6.4
	1978-79	3578	13.5	127	0.5	5892	22.3	48	0.2	714	2.7	1874	7.1
4. Sagbara	1973-74	2558	15.2	179	1.4	5318	31.6	40	0.2	65	0.4	1429	8.5
	1974-75	2316	13.7	93	0.6	5652	33.4	57	0.3	126	0.8	1246	7.4
	1975-76	2018	12.1	125	0.8	6386	38.2	76	0.4	140	0.9	1192	7.1
	1976-77	2323	13.7	140	0.8	6608	38.9	6	0.1	158	0.9	1154	6.8
	1977-78	2334	13.6	163	1.0	6333	37.0	4	0.0	74	0.4	1471	8.6
	1978-79	2789	17.0	210	1.3	6424	39.3	25	0.1	124	0.8	1807	11.1

contd....

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<u>TRIBAL AREA</u>														
5. Valia	1973-74	2056	7:3	480	1:2	6803	16:7	3204	7:9	117	0:3	1136	2:8	
	1974-75	2476	6:2	103	0:2	11121	27:3	872	2:2	212	0:5	2038	5:1	
	1975-76	3063	7:5	386	1:0	10730	26:3	824	2:0	430	1:1	2563	6:3	
	1976-77	2859	7:3	456	1:2	1603	29:5	235	0:6	301	0:7	2678	6:8	
	1977-78	3172	8:3	456	1:2	9599	25:0	33	-	295	0:8	3148	8:2	
	1978-79	3296	8:1	254	0:6	12191	30:0	72	0:2	211	0:5	4163	10:2	
6. Ankleshwar Pocket	1973-74	175	1:1	835	5:3	4057	30:3	319	2:0	8	0:1	680	4:2	
	1974-75	175	1:1	590	3:7	6705	41:9	100	0:6	5	0:0	1090	6:8	
	1975-76	597	3:8	990	6:4	5830	37:5	68	0:4	72	0:5	1280	8:2	
	1976-77	365	2:5	860	5:9	7230	49:1	2	0:0	8	9:1	1330	1:2	
	1977-78	374	2:5	574	3:9	6520	43:0	-	-	3	-	1605	10:8	
	1978-79	305	2:1	580	3:9	6550	44:5	5	-	5	-	2835	19:2	
7. Sub-Total Tribal Area	1973-74	13701	6:9	2955	1:5	42276	21:4	8197	4:1	2078	1:1	9390	4:8	
	1974-75	13250	6:7	2385	1:2	48876	24:6	4663	2:3	2769	1:4	11967	6:0	
	1975-76	13625	6:8	2941	1:5	47284	23:7	5375	2:7	3846	1:9	21237	10:7	
	1976-77	13514	6:9	3006	1:5	51370	26:1	3839	2:0	3840	2:0	13401	6:8	
	1977-78	14826	7:5	2659	1:3	49951	25:4	3345	1:7	4007	2:0	15834	8:0	
	1978-79	16167	8:2	2230	1:1	52984	26:8	2845	1:4	3612	1:8	20986	10:6	

contd.....

Sr. No.	Taluka	Year	Other Food crops		Total Food crops		Cotton		Groundnut		Tobacco		Other non-food crops		Total non-food crops		Total gross cropped area	
			Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent
			16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
<u>TRIBAL AREA</u>																		
1.	Jhagadia	1973-74	2335	4.9	19226	40.0	21438	44.6	1646	3.4	123	0.2	5665	11.8	28872	60.0	48098	100.0
		1974-75	3031	6.2	22152	45.0	18778	38.1	2474	5.0	114	0.2	5732	11.6	27095	55.0	49247	100.0
		1975-76	3164	6.3	22190	44.2	18530	36.9	3570	7.1	156	0.3	5722	11.4	27978	55.8	50168	100.0
		1976-77	3236	6.6	23493	48.2	15633	32.1	4145	8.5	291	0.6	5181	10.6	25250	51.8	48743	100.0
		1977-78	4203	8.6	26157	53.3	13258	27.0	3000	6.1	251	0.5	6351	13.1	22860	46.7	48997	100.0
		1978-79	4888	10.0	29064	59.3	10770	22.0	2899	5.9	201	0.4	6072	12.4	19942	40.7	49006	100.0
2.	Nandod	1973-74	2880	5.7	21839	43.2	23389	46.2	1709	3.4	59	0.1	3573	7.1	28730	56.8	50569	100.0
		1974-75	3597	7.4	22376	44.0	22430	44.1	2221	4.4	40	-	3810	7.5	28501	56.0	50877	100.0
		1975-76	3868	7.6	22738	44.7	21968	43.3	2290	4.5	103	0.2	3722	7.3	28083	55.3	50813	100.0
		1976-77	3754	7.4	22863	45.1	20699	40.8	3467	6.9	145	0.3	3534	6.9	27845	54.9	50708	100.0
		1977-78	3854	7.6	24402	48.2	19249	38.0	3266	6.5	111	0.2	3592	7.1	26218	51.8	50620	100.0
		1978-79	3387	6.6	23956	47.2	20198	39.7	2976	5.9	85	0.2	3516	6.7	26775	52.8	50731	100.0
3.	Dedipada	1973-74	4747	18.6	16333	63.9	7242	28.4	533	2.1	1	-	1439	5.6	9215	36.1	25548	100.0
		1974-75	5608	21.9	16641	65.1	5804	22.7	1265	4.9	1	-	1857	7.3	8927	34.9	25568	100.0
		1975-76	5147	20.1	16798	65.7	5613	21.9	1835	7.2	1	-	1320	5.2	8769	34.3	25567	100.0
		1976-77	5367	20.7	16663	64.2	5102	19.7	2027	7.8	2	-	2150	8.3	9281	35.8	25944	100.0
		1977-78	5453	20.0	17417	67.0	5374	19.7	1996	7.3	2	-	2465	9.0	9337	36.0	27254	100.0
		1978-79	5142	19.5	17375	65.8	5361	20.3	1764	6.7	1	-	1901	7.2	9027	34.2	26402	100.0
4.	Sagarbara	1973-74	1330	7.9	10919	64.9	5531	32.9	140	0.8	-	-	231	1.4	5902	35.1	16821	100.0
		1974-75	1593	9.4	11033	65.6	5501	32.5	137	0.8	-	-	185	1.1	5823	34.4	16906	100.0
		1975-76	1626	9.7	11557	69.1	4751	28.4	186	1.1	-	-	229	1.4	5166	30.9	16723	100.0
		1976-77	1552	9.1	11941	70.3	4696	27.7	202	1.2	5	-	134	0.8	5037	29.7	16978	100.0
		1977-78	1709	10.0	12088	70.6	4676	27.3	226	1.3	1	-	131	0.8	5034	29.4	17122	100.0
		1978-79	1286	7.9	12665	77.5	3367	20.6	202	1.2	-	-	115	0.7	3684	22.5	16349	100.0

contd....

1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
<u>TRIBAL AREA</u>																		
5. Valia	1973-74	1420	3:5	16118	39:7	18621	45:9	1613	4:0	1	-	4221	10:4	24456	60:3	40574	100:0	
	1974-75	1732	4:3	18554	46:3	13299	33:2	2752	6:9	-	-	5426	13:6	21477	53:7	40031	100:0	
	1975-76	1848	4:5	19849	48:7	11187	27:5	3921	9:6	17	-	5765	14:2	20890	51:3	40739	100:0	
	1976-77	2459	6:2	20591	52:3	10698	27:2	3441	8:7	41	0.1	4611	11:7	18791	47:7	39382	100:0	
	1977-78	2768	7:2	19471	50:8	10389	27:1	3088	8:1	3	-	5377	14:0	18857	49:2	38328	100:0	
	1978-79	2296	5:7	22483	55:3	9904	24:4	2499	6:1	4	-	5761	14:2	18168	44:7	40651	100:0	
6. Ankle-shwar Pocket	1973-74	257	1:6	7131	44:6	8670	54:2	166	1:0	38	0.2	-	-	8874	55:4	16005	100:0	
	1974-75	115	0:7	8780	54:8	6650	41:6	580	3:6	7	-	-	-	7237	45:2	16017	100:0	
	1975-76	153	1:0	8990	57:9	5510	35:5	1000	6:4	38	0.2	-	-	6548	42:1	15538	100:0	
	1976-77	170	1:2	9965	67:9	3970	27:0	665	4:5	85	0.6	-	-	4720	32:1	14685	100:0	
	1977-78	155	1:0	9231	62:0	5155	34:6	462	3:1	46	0.3	-	-	5663	38:0	14894	100:0	
	1978-79	147	1:0	10427	70:7	4045	27:4	277	1:9	5	-	-	-	4327	29:3	14754	100:0	
7. Sub-Total Tribal Area	1973-74	12969	6:6	91566	46:3	84891	43:0	5807	2:9	222	0:1	15129	7:7	106049	53:7	197615	100:0	
	1974-75	15676	7:9	99586	50:1	72462	36:5	9429	4:7	159	0:1	17010	8:6	99060	49:9	198646	100:0	
	1975-76	17806	3:9	102114	51:2	67559	33:9	12802	6:4	315	0:2	16758	8:3	97434	48:8	199548	100:0	
	1976-77	16538	8:4	105516	53:7	60798	30:9	13947	7:2	569	0:3	15610	7:9	90924	46:3	198440	100:0	
	1977-78	18127	9:2	108746	55:1	53101	29:5	12038	6:1	414	0:2	17916	9:1	88469	44:9	197215	100:0	
	1978-79	17146	8:7	115970	58:6	53645	27:1	10617	5:4	296	0:1	17365	8:8	81923	41:4	197893	100:0	

contd....

Sr. No.	Taluka	Year	Rice		Wheat		Jowar		Bajari		Maize		Tur	
			Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<u>NON-TRIBAL AREA</u>														
1	Bharuch	1973-74	674	1.3	1639	3.2	6372	12.3	219	0.4	89	0.1	1116	2.2
		1974-75	296	0.7	1677	4.2	8486	21.5	20	0.1	18	0.1	1267	3.2
		1975-76	1798	3.4	2345	4.5	9557	18.3	170	0.3	294	0.6	3487	6.7
		1976-77	837	1.4	2968	6.6	11899	26.6	4	0.0	95	0.2	4168	9.3
		1977-78	1076	2.3	1690	3.6	12679	26.7	5	0.0	97	0.2	7121	15.0
		1978-79	787	1.6	1329	2.8	12023	25.0	9	0.0	85	0.2	15337	31.9
2	Ankleswar (excl. TP)	1973-74	100	0.6	797	4.5	2641	15.1	127	0.7	-	-	406	2.3
		1974-75	119	0.7	681	3.8	4956	28.0	41	0.2	16	0.1	707	4.0
		1975-76	575	3.3	922	5.3	4164	23.8	16	0.1	90	0.5	1026	5.9
		1976-77	607	3.6	843	5.0	4898	28.9	3	-	54	0.3	970	5.7
		1977-78	414	2.5	716	4.3	4626	28.1	0	-	7	-	1197	7.2
		1978-79	454	2.5	735	4.1	4876	27.2	8	-	1	-	2446	13.7
3	Hansot	1973-74	284	1.1	1185	4.6	4432	17.8	563	2.3	-	-	150	0.6
		1974-75	236	1.2	1057	4.3	7648	31.0	333	1.4	9	-	455	1.9
		1975-76	1513	5.9	2751	10.9	5645	22.3	451	1.8	35	0.1	932	3.7
		1976-77	1250	5.3	2655	11.4	6862	29.4	248	0.9	10	-	1148	4.9
		1977-78	765	3.4	1873	7.9	6644	28.2	163	0.7	8	-	1769	7.5
		1978-79	706	2.9	1906	7.9	6692	27.8	208	0.9	5	-	4907	20.4
4	Vagra	1973-74	159	0.3	6580	13.1	6028	12.0	2524	5.0	7	-	186	0.4
		1974-75	116	-	2612	10.2	10163	39.9	312	1.2	2	-	134	0.5
		1975-76	608	1.2	12937	26.4	6470	13.2	2009	4.3	102	0.2	715	1.4
		1976-77	298	0.7	13916	30.9	7306	16.2	244	0.6	9	-	507	1.1
		1977-78	247	0.6	9375	21.1	8070	17.8	466	1.0	6	-	1123	21.1
		1978-79	219	0.5	9350	19.0	8723	12.7	431	0.9	16	-	4475	9.1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NON-TRIBAL AREA															
5. Jam-	1973-74	1921	2:8	4951	7:3	2893	4:3	5313	7:9	2	-	917	1:4		
busar	1974-75	133	0:4	1061	3:0	7408	20:9	225	0:6	-	-	646	1:8		
	1975-76	748	2:0	1922	5:2	5495	14:8	493	1:3	71	0:2	1634	4:4		
	1976-77	1650	2:5	5522	8:3	4596	6:9	2418	3:6	8	-	1376	2:1		
	1977-78	1374	2:4	3703	5:7	4795	7:7	1913	3:0	15	-	1464	2:2		
	1978-79	1703	2:6	3211	4:8	4044	6:1	2329	3:5	3	-	1918	2:9		
G. Amod	1973-74	436	1:1	348	2:5	3475	9:1	480	1:3	2	-	462	1:2		
	1974-75	133	0:4	1061	3:0	7408	20:9	225	0:6	6	-	646	1:8		
	1975-76	748	2:0	1922	5:2	5495	14:8	493	1:3	71	0:2	1634	4:4		
	1976-77	455	1:4	1716	5:2	6693	20:4	62	0:2	17	0:1	1144	3:5		
	1977-78	376	1:2	1100	3:4	6250	19:2	80	0:2	3	-	2454	7:6		
	1978-79	483	1:3	1269	3:4	7941	21:4	169	0:4	11	-	6826	18:4		
Sub-	1973-74	3574	1:4	16052	6:4	25841	10:3	9226	3:7	80	-	3237	1:3		
Total	1974-75	1532	0:8	9408	4:9	48656	25:2	3217	1:7	56	-	4335	2:2		
Non-	1975-76	7029	2:8	25969	1:5	34866	14:0	7592	3:0	106	0:2	9437	3:8		
Tribal	1976-77	5097	2:2	27620	12:0	42254	18:4	2949	1:3	193	0:1	9313	4:1		
	1977-78	4284	1:9	18457	8:0	43244	18:8	2627	0:3	136	0:1	15128	6:5		
	1978-79	4352	1:8	17800	7:3	44299	18:2	3154	1:3	121	0:1	35909	14:8		
District	1973-74	17275	3:9	19007	4:2	68117	15:2	17423	3:9	2158	0:5	12627	2:8		
Total	1974-75	14782	3:8	11793	3:0	97532	24:9	7880	2:0	2825	0:7	16302	4:2		
	1975-76	20654	4:6	28910	6:4	82100	18:3	12967	2:9	4452	1:0	22674	5:1		
	1976-77	18611	4:4	30626	7:2	93632	22:0	6788	1:6	4033	0:9	22714	5:3		
	1977-78	19110	4:5	21116	4:9	93195	21:9	5972	1:4	4143	1:0	30959	7:2		
	1978-79	20519	4:6	20030	4:5	97283	22:1	5999	1:4	3733	0:9	56895	12:9		

Statement No.25 contd..

Sr. No.	Taluka	Year	Other Food crops		Total Food crops		Cotton		Groundnut		Tobacco	Other non-food crops		Total non-food crops		Total gross cropped area		
			Area	Per cent	Area	Per cent	Area	Per cent	Area	Per cent	Area	Per cent	Area	Per cent	Area	Per cent	Area	Per cent
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
<u>NON-TRIBAL AREA</u>																		
1.	Bharuch	1973-74	4003	7.7	14092	27.1	33501	64.4	60	0.1	94	0.2	4248	8.2	37903	72.9	51995	100.0
		1974-75	1200	3.0	12964	32.8	19973	50.5	59	0.1	35	0.1	6529	16.5	26596	67.2	39560	100.0
		1975-76	5628	10.8	23279	44.6	23743	45.5	100	0.4	65	0.1	4901	9.4	20889	55.4	52168	100.0
		1976-77	4319	9.6	24290	54.2	14964	33.4	117	0.3	122	0.3	5275	11.8	20478	45.8	44768	100.0
		1977-78	2956	6.2	25624	53.9	16917	36.6	62	0.1	44	0.1	4860	10.2	21883	46.0	47507	100.0
		1978-79	2459	5.1	32029	66.6	10445	21.6	81	0.2	85	0.2	5478	11.4	16089	33.4	48118	100.0
2.	Ankleshwar (excl. TP)	1973-74	1026	5.0	5079	29.0	8689	49.7	467	2.7	-	-	3263	18.6	12419	71.0	17498	100.0
		1974-75	965	5.5	7435	42.3	5002	28.3	861	4.9	8	-	4329	24.5	10200	57.7	17685	100.0
		1975-76	1056	6.0	7049	44.9	4130	23.6	2016	11.5	6	-	3498	20.0	9650	55.1	17499	100.0
		1976-77	1194	7.0	8569	50.5	3403	20.1	1372	8.1	15	0.1	3606	21.2	8396	49.5	16965	100.0
		1977-78	1227	7.5	8189	49.6	4155	25.2	515	3.1	6	-	3648	22.1	8324	50.4	16513	100.0
		1978-79	1464	8.2	9984	55.7	3585	20.0	324	1.8	5	-	4011	22.5	7925	43.3	17909	100.0
3.	Hansot	1973-74	324	1.3	6908	27.7	14697	59.0	579	2.3	1	-	2710	10.9	17987	72.3	24895	100.0
		1974-75	296	1.2	10094	40.9	10415	42.2	1140	4.6	1	-	3008	12.2	14504	59.1	24638	100.0
		1975-76	642	2.6	11975	47.3	6995	27.7	3318	13.1	3	-	3008	11.9	13324	52.7	25299	100.0
		1976-77	883	3.8	13206	55.7	4830	20.7	2286	9.8	12	-	3219	13.8	10347	44.3	23373	100.0
		1977-78	692	2.9	11944	50.6	7672	32.5	920	3.9	3	-	3032	12.9	11627	49.3	23571	100.0
		1978-79	700	2.9	15124	62.8	5110	21.5	656	2.7	2	-	3166	13.2	8940	37.2	24064	100.0
4.	Vagra	1973-74	4137	8.2	19621	39.0	28835	57.3	3	-	-	-	1844	3.7	30682	61.0	50303	100.0
		1974-75	832	3.3	14061	55.1	8055	31.6	8	-	-	-	3379	13.3	11442	44.9	25503	100.0
		1975-76	3831	7.8	26752	54.5	19524	39.8	42	0.1	5	-	2746	5.6	22317	45.5	49069	100.0
		1976-77	3600	8.0	25830	57.5	16034	36.6	37	0.1	14	-	3041	6.8	19126	42.5	45006	100.0
		1977-78	2839	6.3	22126	49.3	19546	43.5	8	-	7	-	3195	14.0	22756	50.7	44882	100.0
		1978-79	3597	7.3	26805	54.5	18160	37.0	18	-	2	-	4173	8.5	22353	45.5	49158	100.0

Statement No.25 contd...

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31										
NON-TRIBAL AREA																																									
5. Jamb-	1973-74	1506	2:2	17503	25:9	43161	63:8	1	-	16	-	7008	10:3	50186	74:1	67689	100:0																								
usar	1974-75	1355	2:7	17769	35:3	24522	48:8	9	-	2	-	7972	15:9	32505	64:7	50274	100:0																								
	1975-76	2967	4:4	19361	28:5	42292	62:2	5	-	46	0:1	6253	9:2	48596	71:5	67957	100:0																								
	1976-77	1805	2:7	17375	26:1	42740	64:4	1	-	510	0:8	5804	8:7	49055	73:9	60430	100:0																								
	1977-78	1490	2:2	14934	22:9	46190	70:8	-	-	314	0:5	3783	0:5	50287	77:1	65221	100:0																								
	1978-79	1162	1:7	14370	21:6	46920	70:5	-	-	24	-	5206	7:9	52150	78:4	66520	100:0																								
6. Amod	1973-74	3018	7:9	8821	23:1	26504	69:3	5	-	4	-	2915	7:6	29428	76:9	33249	100:0																								
	1974-75	1184	3:3	10663	30:0	18531	52:2	21	0:1	1	-	6296	17:7	24849	70:0	35512	100:0																								
	1975-76	4514	12:1	14877	40:0	18433	49:6	72	0:2	7	-	3794	10:2	22306	60:0	37183	100:0																								
	1976-77	3687	11:2	13774	47:0	15514	47:2	23	0:1	47	0:1	3472	10:6	19056	53:0	32830	100:0																								
	1977-78	3158	9:7	13421	41:3	15378	47:3	8	-	3	-	3673	11:4	19062	58:7	32433	100:0																								
	1978-79	2982	7:9	19631	52:8	13448	36:2	6	-	2	-	4062	10:9	17518	47:2	37149	100:0																								
Sub-	1973-74	14014	5:6	72024	28:7	155387	62:0	1115	0:4	115	-	21988	8:9	178605	71:3	250629	100:0																								
Total	1974-75	5832	3:0	73036	37:8	86498	44:8	2098	1:0	47	-	31513	15:3	120156	62:2	193192	100:0																								
Non-	1975-76	13594	7:5	104093	41:8	115117	46:1	5633	2:3	32	0:1	24200	9:7	145082	53:2	249175	100:0																								
Tribal	1976-77	15488	6:8	102914	44:9	97485	42:5	3836	1:7	720	0:3	24417	10:6	126458	55:1	229372	100:0																								
Area	1977-78	12362	5:4	96238	41:8	109858	47:7	1513	0:7	377	0:2	22191	9:6	133939	58:2	230177	100:0																								
	1978-79	12308	5:1	117943	46:6	97674	40:2	1085	0:4	120	-	26096	10:8	124975	51:4	242918	100:0																								
District	1973-74	26983	6:0	163590	36:5	240278	53:6	6922	1:5	337	0:1	37117	8:3	284654	63:5	448244	100:0																								
Total	1974-75	21508	5:5	172622	44:1	158960	40:6	11527	2:9	207	-	48523	12:4	219216	55:9	391838	100:0																								
	1975-76	34450	7:7	206207	46:0	182676	40:7	18435	4:1	447	0:1	40958	9:1	242516	54:0	448723	100:0																								
	1976-77	32046	7:5	208430	48:9	158283	37:2	17783	4:2	1289	0:3	40027	9:4	217382	51:1	425812	100:0																								
	1977-78	30449	7:1	204984	48:0	167959	39:3	13551	3:2	791	0:2	40107	9:3	222408	52:0	427392	100:0																								
	1978-79	29454	6:7	233913	53:1	151319	34:3	11702	2:6	416	0:1	43461	9:9	206898	46:9	440811	100:0																								

NET AREA IRRIGATED BY DIFFERENT SOURCES

District-Bharuch

(Area in Hectares)

Sr. No.	Taluka	Year	Canals		Tanks		Tubewells		Wells		Other sources		Net area irrigated		Gross area irrigated	Percentage of gross area irrigated to gross area sown
			Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent	Area	Per-cent		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
TRIBAL AREA																
1.	Jhagadia	1973-74	155	3.2	233	4.8	1040	21.4	3244	66.9	130	3.7	4852	100.0	5419	11.3
		1974-75	163	3.2	100	1.9	1300	25.2	3200	62.0	400	7.7	5163	100.0	5513	11.2
		1975-76	75	1.8	-	-	1480	36.5	2427	53.9	75	1.8	4057	100.0	4432	8.8
		1976-77	75	1.9	-	-	725	18.0	3153	78.2	75	1.9	4028	100.0	4353	8.9
		1977-78	75	2.1	-	-	905	25.7	2547	72.2	-	-	3527	100.0	3939	8.0
		1978-79	-	-	-	-	506	16.8	2512	83.2	-	-	3018	100.0	3018	6.2
2.	Nandod	1973-74	-	-	-	-	1227	16.0	1986	26.0	4446	58.0	7659	100.0	8415	16.6
		1974-75	-	-	-	-	1440	13.3	7900	73.2	1456	13.5	10796	100.0	11656	22.9
		1975-76	-	-	-	-	162	2.3	6781	95.0	190	2.7	7133	100.0	7494	14.8
		1976-77	-	-	-	-	199	2.4	7803	93.9	305	3.7	8307	100.0	8906	17.6
		1977-78	-	-	-	-	205	2.5	7730	93.9	293	3.6	8233	100.0	8727	17.2
		1978-79	-	-	-	-	196	2.8	6808	95.7	107	1.5	7111	100.0	7644	15.1
3.	Dedfapada	1973-74	-	-	-	-	-	-	641	73.4	232	26.6	873	100.0	898	3.5
		1974-75	-	-	-	-	-	-	272	82.7	57	17.3	329	100.0	329	1.3
		1975-76	-	-	-	-	-	-	209	64.0	103	33.0	312	100.0	312	1.2
		1976-77	-	-	-	-	-	-	79	86.3	12	13.2	91	100.0	91	0.4
		1977-78	-	-	-	-	-	-	72	100.0	-	-	72	100.0	72	0.3
		1978-79	-	-	-	-	-	-	51	100.0	-	-	51	100.0	51	0.2
4.	Sagbara	1973-74	-	-	-	-	-	-	763	100.0	-	-	763	100.0	763	4.5
		1974-75	-	-	-	-	-	-	481	87.3	70	12.7	551	100.0	551	3.5
		1975-76	35	6.4	-	-	-	-	511	93.6	-	-	546	100.0	583	4.1
		1976-77	47	9.7	-	-	-	-	437	90.3	-	-	484	100.0	601	3.5
		1977-78	47	8.2	-	-	-	-	523	91.8	-	-	570	100.0	695	4.1
		1978-79	50	8.3	-	-	-	-	430	71.1	125	20.6	605	100.0	697	4.3

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
5. Valia	1973-74	1110	21.8	245	4.8	315	6.2	1994	39.2	1425	28.0	5089	100.0	5089	12.5		
	1974-75	1485	27.4	277	5.1	-	-	1797	33.2	1857	34.3	5416	100.0	5416	13.5		
	1975-76	810	25.3	180	5.6	-	-	1064	33.2	1150	35.9	3204	100.0	3556	8.7		
	1976-77	1030	26.7	202	5.2	-	-	1306	33.8	1325	34.3	3863	100.0	3863	9.8		
	1977-78	1133	27.0	259	6.2	-	-	1338	31.8	1475	35.0	4205	100.0	4424	11.5		
	1978-79	1400	28.7	392	8.0	-	-	1820	37.3	1268	26.0	4880	100.0	5088	12.5		
6. Ankle- shwar Pocket	1973-74	-	-	10	1.5	-	-	645	98.5	-	-	655	100.0	720	4.5		
	1974-75	543	33.9	36	2.2	-	-	1025	63.9	-	-	1604	100.0	1727	10.8		
	1975-76	247	22.0	48	4.3	-	-	830	73.7	-	-	1125	100.0	1180	7.6		
	1976-77	234	33.6	17	2.4	-	-	445	64.0	-	-	696	100.0	696	4.7		
	1977-78	225	33.6	13	2.0	-	-	431	64.4	-	-	669	100.0	669	4.5		
	1978-79	193	28.5	9	1.3	-	-	475	70.2	-	-	677	100.0	677	4.6		
<u>NON-TRIBAL AREA</u>																	
7. Dharuch	1973-74	1375	9.5	-	-	225	1.6	12830	88.9	-	-	14430	100.0	14456	27.8		
	1974-75	1129	10.2	-	-	370	3.4	9582	86.4	-	-	11081	100.0	11132	23.0		
	1975-76	800	10.4	-	-	327	4.2	6578	85.4	-	-	7705	100.0	7827	15.0		
	1976-77	1845	42.4	-	-	94	2.2	2407	55.4	-	-	4346	100.0	4456	18.3		
	1977-78	1910	26.1	-	-	75	1.0	5335	72.9	-	-	7320	100.0	7320	20.6		
	1978-79	1910	25.9	-	-	72	1.0	5385	73.1	-	-	7367	100.0	7367	23.0		
8. Ankle- shwar (excluding T)	1973-74	-	-	250	37.9	15	2.3	93	14.1	301	5.7	659	100.0	699	4.0		
	1974-75	57	9.4	53	7.5	-	-	14	2.0	575	1.1	709	100.0	768	4.3		
	1975-76	525	58.6	94	16.9	-	-	130	24.5	-	-	555	100.0	584	3.3		
	1976-77	294	25.1	58	4.9	-	-	825	70.0	-	-	1179	100.0	1179	6.9		
	1977-78	412	48.2	27	3.2	-	-	415	48.6	-	-	854	100.0	854	5.2		
	1978-79	477	48.6	16	1.6	-	-	480	49.8	-	-	981	100.0	981	5.5		
9. Hansot	1973-74	-	-	177	52.4	-	-	86	25.4	75	22.2	338	100.0	338	1.4		
	1974-75	1377	73.4	150	8.0	-	-	32	1.7	317	16.9	1876	100.0	1876	7.6		
	1975-76	2257	88.9	251	9.8	-	-	-	-	33	1.3	2551	100.0	2551	10.1		
	1976-77	684	79.7	150	17.5	-	-	-	-	24	2.8	458	100.0	458	6.6		
	1977-78	2840	88.4	206	6.4	-	-	100	3.1	67	2.1	3213	100.0	3213	26.9		
	1978-79	5313	91.3	322	5.7	-	-	-	-	-	-	5635	100.0	5635	37.3		

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NON-TRIBAL AREA																	
10.Vagra	1973-74	1510	100.0							1510	100.0			1510	100.0	1510	3.0
	1974-75	1126	100.0							1126	100.0			1126	100.0	1126	4.4
	1975-76	814	100.0							814	100.0			814	100.0	814	1.5
	1976-77	144	100.0							144	100.0			144	100.0	144	0.6
	1977-78	162	100.0							162	100.0			162	100.0	162	0.7
	1978-79	167	100.0							167	100.0			167	100.0	167	0.6
11.Jambusar	1973-74	700	100.0							700	100.0			700	100.0	700	1.0
	1974-75	1084	100.0							1084	100.0			1084	100.0	1084	2.2
	1975-76	2235	100.0							2235	100.0			2235	100.0	2759	4.1
	1976-77	1473	100.0							1473	100.0			1473	100.0	1473	8.5
	1977-78	947	100.0							947	100.0			947	100.0	947	6.3
	1978-79	381	100.0							381	100.0			381	100.0	381	2.7
12.Amod	1973-74	648	6.2	9752	93.2	67	0.6	10467	100.0	10753	28.1						
	1974-75	840	6.7	11605	92.7	71	0.6	12516	100.0	12588	35.5						
	1975-76	1044	12.1	7470	86.7	106	1.2	8620	100.0	9005	24.7						
	1976-77	1620	25.5	4643	73.0	98	1.5	6361	100.0	6536	47.5						
	1977-78	1740	20.1	6725	77.5	208	2.4	8673	100.0	8746	65.2						
	1978-79	2140	21.5	7593	76.4	208	2.1	9941	100.0	10011	51.0						
Sub-Total	1973-74	1265	6.4	488	2.5	2582	13.0	9273	46.5	6283	31.6	19891	100.0	21304	10.8		
Tribal	1974-75	2191	9.2	413	1.7	2740	11.5	14675	61.5	3840	15.1	23859	100.0	25192	12.7		
	1975-76	1157	7.1	228	1.4	1642	10.0	11822	72.2	1518	9.3	16377	100.0	17662	8.9		
	1976-77	1336	7.9	219	1.3	924	5.3	13223	75.7	1717	9.8	17469	100.0	18510	9.7		
	1977-78	1480	8.6	272	1.6	1110	6.4	12641	73.1	1773	10.3	17276	100.0	18526	9.6		
	1978-79	1643	10.0	401	2.5	702	4.3	12096	74.0	1500	9.2	16342	100.0	17175	8.6		

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Sub-	1973-74	1375	4.9	427	1.5	888	3.2	24971	88.8	443	1.6	28104	100.0	23456	11.4		
Total	1974-75	2573	9.0	203	0.7	1210	4.3	23443	82.6	963	3.4	28392	100.0	28574	14.8		
Non-	1975-76	3392	15.1	345	1.5	1371	6.1	17233	76.7	139	0.6	22480	100.0	23540	9.4		
Tribal	1976-77	2825	19.7	208	1.5	1714	11.9	9492	66.1	122	0.8	14361	100.0	14646	6.4		
	1977-78	5162	24.4	233	1.1	1815	8.6	13684	61.6	275	1.3	21169	100.0	21242	9.2		
	1978-79	7700	31.5	338	1.4	2212	9.0	14014	57.2	208	0.9	24472	100.0	24542	10.1		
District	1973-74	2640	5.5	915	1.9	3470	7.2	34244	71.4	6726	14.0	47995	100.0	49760	11.1		
Total	1974-75	4764	9.1	616	1.2	3950	7.6	38118	72.9	4003	9.2	52251	100.0	53766	13.7		
	1975-76	4559	11.7	573	1.5	3013	7.8	29055	74.7	1657	4.3	38357	100.0	41202	9.2		
	1976-77	4211	13.2	427	1.3	2638	9.3	22715	71.4	1839	5.8	31830	100.0	33156	7.7		
	1977-78	6642	17.3	505	1.3	2925	7.6	26325	68.5	2048	5.3	38445	100.0	39768	9.5		
	1978-79	9343	23.0	739	1.7	2914	7.1	26110	64.0	1708	4.2	40814	100.0	41717	9.4		

Number of Diesel Oil Engines , Electric Motors and Tractors.

District : Bharuch		(Year : 1972)					
Sr. No.	Taluka	Diesel oil engines with pumps		Electric motors with pumps		Tractors	
		Number	Per 1000 of net area cultivated	Number	Per 1000 of net area cultivated.	Number	Per 1000 of net area cultivated
1	2	3	4	5	6	7	8
<u>Tribal Area</u>							
1.	Jhagadia	657	13.2	141	2.8	24	0.5
2.	Nandod	863	17.0	61	1.2	17	0.3
3.	Dediapada	222	9.0	-	-	9	0.4
4.	Sagbara	308	14.0	-	-	3	0.1
5.	Valia	741	18.1	169	4.1	55	1.3
Sub-Total :		2791	14.8	371	2.0	108	0.6
<u>Non-Tribal Area</u>							
6.	Bharuch	333	6.6	120	2.4	49	1.0
7.	Anklesvar	226	6.9	62	1.9	63	1.9
8.	Hansot	89	3.6	1	N.	66	2.6
9.	Vagra	89	1.7	33	0.6	41	0.8
10.	Jambusar	121	1.8	79	1.2	26	0.4
11.	Amod	255	6.7	159	4.2	129	3.4
Sub-Total :		1113	4.2	454	1.7	374	1.4
District Total :		3904	8.6	825	1.8	482	1.1

Source : Livestock Census, 1972

District: Bharuch Number of Diesel Oil Engines, Electric Motors & Tractors (1977)

Sr. No.	Taluka	Diesel Oil Engines with pumps		Electric Motor with pumps		Tractors	
		Numbers	Per 1000 net area cultivated during 1975-76	Numbers	Per 1000 net area cultivated during 1975-76	Numbers	Per 1000 net area cultivated during 1975-76
1	2	3	4	5	6	7	8
<u>Tribal Area</u>							
1.	Jhagadia	768	15.5	130	2.6	16	0.3
2.	Nandod	683	13.8	84	1.7	6	0.1
3.	Dediapada	214	8.4	-	-	3	0.1
4.	Sagbara	334	20.1	1	0.1	1	0.1
5.	Valia	869	21.5	283	7.0	41	1.0
Sub-Total :		2868	15.8	498	2.7	67	0.4
<u>Non-Tribal Area</u>							
6.	Bharuch	211	4.1	445	8.6	85	1.6
7.	Ankleshwar	416	12.9	77	2.4	90	2.8
8.	Hansot	249	10.3	4	0.2	30	1.2
9.	Vagra	117	2.4	15	0.3	12	0.2
10.	Jambusar	163	2.4	103	1.5	25	0.4
11.	Amod	217	5.9	436	11.9	37	1.0
Sub-Total :		1373	5.3	1080	4.1	279	1.1
District Total :		4241	9.6	1578	3.6	346	0.8

Source : Cattle Census, 1977.

Sr. No.	Taluka	Improved Seeds		Chemical Fertilisers	
		Quantity(Kgs.) 1973-74	Per hectarea of gross area sown*	Quantity(Kgs.)	Per hectare of gross area sown*
1	2	3	4	5	6
<u>Tribal Area :</u>					
1.	Jhagadia	126944	2.54	753700	15.08
2.	Nandod	182994	3.58	1322300	25.86
3.	Dediapada	86144	3.52	88400	3.61
4.	Sagbara	66501	2.65	210900	8.40
5.	Valia	122899	2.98	1880300	45.52
6.	Ankleshwar Pocket	1512	0.09	3249	0.20
Sub-Total :		586991	2.97	4258849	21.55
<u>Non-Tribal Area :</u>					
7.	Bharuch	101803	1.99	3022800	59.20
8.	Anklesvar (excluding TP)	234367	16.25	1162651	66.44
9.	Hansot	49707	2.01	613800	24.79
10.	Vagra	305170	5.82	433400	8.27
11.	Jambusar	595435	8.91	705500	10.56
12.	Amod	132649	3.46	3859800	100.63
Sub-Total :		1469131	5.86	9797951	39.09
District Total :		2056122	4.48	14056800	30.64

Source: District Statistical Officer, District Panchayat, Bharuch.

* : Based on the average cropped area for the years 1968-69, 1969-70 and 1970-71.

District-Bharuch Distribution of Improved Seeds and Chemical Fertilisers

1976-77 to 1978-79

Sr. No.	Improved Seeds			Per hectare of gross area sown			Chemical Fertilisers			Per hectare of gross area sown			
	Quantity (Kgs.)	Quantity (Kgs.)	Quantity (Kgs.)	76-77	77-78	78-79	Quantity (Kgs.)	Quantity (Kgs.)	Quantity (Kgs.)	76-77	77-78	78-79	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Tribal Area													
1.	Jhagadia	194500	201500	214200	4.0	4.1	4.4	918200	908000	983200	18.8	18.5	20.1
2.	Nanded	141800	16100	217700	2.8	0.3	4.3	668000	1208000	1505000	13.2	23.9	29.7
3.	Dediapada	54200	61800	99700	2.1	2.3	3.8	39000	54000	25700	1.5	2.0	1.0
4.	Sagbara	126400	41700	26400	7.4	2.4	1.6	211100	104000	299000	12.4	6.1	18.3
5.	Valia	192000	221500	230600	4.9	5.8	5.7	813300	850000	873500	20.7	22.2	21.5
6.	Ankleshwar Pocket	1638	1572	1889	0.1	0.1	0.1	3535	3733	3892	0.2	0.3	0.3
	Sub-Total	710538	544172	790489	4.9	2.8	4.0	2653135	3127733	3690292	13.5	15.9	18.7
Non-Tribal Area													
7.	Bharuch	172300	190600	105300	3.9	4.0	2.2	1626600	5447000	6220000	36.3	144.7	129.3
8.	Ankleshwar (excluding TP)	342262	327528	285111	20.2	19.8	15.9	2236465	2576267	2896108	131.8	139.7	161.7
9.	Hansot	57500	39000	145100	2.5	5.9	4.8	457600	1006000	195000	19.6	42.7	8.1
10.	Vagra	304500	335800	466400	6.8	14.3	9.5	349000	200000	760000	7.8	4.5	15.5
11.	Jambusar	326000	339300	245500	4.9	5.2	3.7	47800	550000	770000	0.7	8.4	20.7
12.	Amel	121700	54400	138700	3.7	4.8	3.7	10282400	9880000	8680000	313.2	304.2	233.7
	Sub-Total	1324262	1486628	1356111	5.8	6.5	5.6	14999865	19389267	21276108	65.4	81.2	87.6
	District Total	2034800	2030800	2146600	4.8	4.8	4.9	17653000	22517000	24966400	41.5	52.7	56.6

Sr. No.	Insecticides & Pesticides				
	Powder	Liquid			
	Quantity(Kg.) 1973-74	Per hectare of gross area sown* 1973-74	Quantity(Litre) 1973-74	Per hectare of gross area sown* 1973-74	
1	2	3	4	5	
<u>Tribal Area</u>					
1.	Jhagadia 17812	0.36	8302	0.17	
2.	Nandod 151300	2.96	16307	0.32	
3.	Dediapada 42619	1.74	1235	0.05	
4.	Sagbara 39991	1.59	778	0.03	
5.	Valia 251045	6.08	9540	0.23	
6.	Ankleshvar Pocket 10925	0.68	539	0.03	
Sub-Total :		513692	2.60	36701	0.19
<u>Non-Tribal Area</u>					
7.	Bharuch 223925	4.39	21236	0.41	
8.	Ankleshvar (excluding TP) 171845	0.98	7332	0.04	
9.	Hansot 69300	2.80	1860	0.07	
10.	Vagra 93814	1.79	6579	0.12	
11.	Jambusar 19755	0.30	4195	0.06	
12.	Amod 584480	15.24	55530	1.45	
Sub-Total :		1163119	4.64	95644	0.38
District Total		1676811	3.65	132345	0.29

Source: District Statistical Officer, District Panchayat, Bharuch.

* Based on the average gross cropped area for the years 1968-69, 1969-70 and 1970-71.

Sr. No.	P o w d e r						L i q u i d					
	Quantity (Kgs.)			Per hectare of gross area sown			Quantity (Litre)			Per hectare of gross area sown		
	1976-77	1977-78	1978-79	76-77	77-78	78-79	1976-77	1977-78	1978-79	76-77	77-78	78-79
2	3	4	5	6	7	8	9	10	11	12	13	14
<u>Tribal Area</u>												
1. Jhagadia	10232	12430	13530	0.2	0.3	0.3	2025	2231	2465	0.0	0.0	0.1
2. Nandod	9806	10270	19861	0.2	0.2	0.4	189	802	2608	0.0	0.0	0.1
3. Dediapada	4608	4232	4537	0.2	0.2	0.2	172	135	165	0.0	0.0	0.0
4. Sagbara	8138	5678	5645	0.5	0.4	0.3	1876	645	614	0.1	0.0	0.0
5. Valia	10520	112732	12320	0.3	2.8	0.3	18425	17350	20325	0.5	0.4	0.3
5. Ankleshvar Pocket	13540	17940	24325	0.9	1.2	1.7	830	784	1397	0.1	0.1	0.1
Sub-Total	56844	163482	80218	0.3	0.8	0.4	23517	21947	27574	0.1	0.1	0.1
7. Bharuch	38438	93196	58064	1.7	1.8	1.1	572	5362	8957	0.1	0.1	0.2
8. Ankleshvar (excluding TP)	15461	9195	16227	0.9	0.6	1.2	795	532	3323	0.1	0.0	0.2
9. Hansot	20204	22855	42000	0.8	0.9	1.7	1149	4200	5950	0.0	0.2	0.2
10. Vagra	47691	12384	1400	1.0	0.3	0.0	91	92	2515	0.0	0.0	0.1
11. Jambusar	3934	8832	16504	0.1	0.1	0.2	515	981	1323	0.0	0.0	0.0
12. Amod	880286	977930	1124381	23.77	26.3	30.2	20800	19160	49712	0.6	0.5	1.3
Sub-Total	1056014	1124392	1258576	4.6	4.9	5.2	28690	30330	71780	0.1	0.1	0.3
<u>District</u>												
Total	1112858	1287874	1338794	2.5	2.9	3.0	52207	52277	99354	0.1	0.1	0.2

Source: District Statistical Officer, District Panchayat, Bharuch

District-Bharuch		Number of Bullocks				(Year-1972)	
Sr. No.	Taluka	Used for breeding only	Used for breeding and work both	Used for work only.	Not in use for breeding or work.	Total	No. of bullocks used for work per 1000 hectares of cultivated land (gross area sown).
1	2	3	4	5	6	7	8
<u>Tribal Area</u>							
1.	Jhagadia	21	121	14965	15	15122	297.7
2.	Nandod	19	9	20896	87	21011	409.3
3.	Dediapada	20	23	17631	95	17819	710.7
4.	Sagbara	2	10	12585	174	12771	567.8
5.	Valia	13	3	12352	17	12385	295.8
Sub-Total		75	166	78479	388	79108	412.9
<u>Non-Tribal Area</u>							
6.	Bharuch	2	61	11418	15	11496	224.0
7.	Ankleshvar	25	47	8602	25	8699	260.5
8.	Hansot	4	131	7045	17	7197	282.6
9.	Vagra	4	-	8314	-	8313	163.0
10.	Jambusar	2	1	13963	6	13977	208.6
11.	Amod	1	-	6834	2	6837	177.8
Sub-Total		38	240	56681	65	57024	212.4
District Total		113	406	135160	453	136132	295.8

Source : Live stock Census 1972

Sr. No.	Name of Taluka	Number of Bullocks				Total	No. of Bullocks used for work per 1000 hectares of cultivated area (gross area sown)
		Used for breeding only	Used for breeding and work both	Used for work only	Not in use for breeding or work		
1	2	3	4	5	6	7	8
<u>Tribal Area</u>							
1.	Jhagadia	59	11	12910	10	12990	257.3
2.	Nandod	12	90	17451	536	18089	343.4
3.	Dediapada	12	28	16501	132	16673	645.4
4.	Sagbara	13	1	9568	4	9586	572.1
5.	Valia	19	0	10861	4	10884	266.6
6.	Ankleshvar Pocket	1	-	4279	4	4284	275.4
Sub-Total		116	130	71570	690	72506	358.9
<u>Non-Tribal Area</u>							
7.	Bharuch	2	6	10136	2	10146	194.3
8.	Ankleshvar (excluding TP)	5	0	3223	10	3238	184.2
9.	Hansot	86	64	6183	20	6353	244.4
10.	Vagra	57	1	6947	93	7103	141.6
11.	Jambusar	5	0	13092	16	13113	192.7
12.	Amod	4	0	6355	5	6364	170.9
Sub-Total		159	71	45936	151	46317	184.4
<u>District Total</u>							
Total		275	201	117506	841	118823	261.9

District-Bharuch Number of Cows & Buffaloes used for milk & breeding purpose. (Year-1972)

Sr. No.	C o w s						She Buffaloes						
	In milk	Dry	Not calved	Total	Percentage of cattle in milk to total in col.6	No.of cows in milk per 1000 of human population	In milk	Dry	Not calved	Total	Percentage of buffalo in milk to total buffalo in col.12	No.of buffalo in milk per 1000 of human population	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
<u>Tribal Area</u>													
1.	Jhagadia	3325	5810	734	9869	33.7	27.7	2864	3223	286	6373	44.9	23.9
2.	Nandod	5076	6224	841	12138	41.8	34.2	4156	3841	616	8613	48.3	28.0
3.	Dediapada	2655	5106	565	8326	31.9	39.2	533	928	129	1590	33.5	7.9
4.	Sagbara	1916	2460	222	4598	41.7	36.4	359	374	55	788	45.6	6.8
5.	Valia	3013	3756	423	7192	41.9	37.2	1866	2028	309	4203	44.4	23.1
6.	Ankleshvar Pocket	738	965	176	1929	40.9	19.3	1002	787	78	1867	53.7	24.5
Sub-Total		16773	24318	2961	44052	38.1	32.9	10780	11181	1473	23434	46.0	21.1
<u>Non-Tribal Area</u>													
7.	Bharuch	591	774	100	1165	50.7	2.6	5708	2538	535	8831	64.6	25.5
8.	Ankleshvar (excluding TP)	675	501	50	1226	55.1	12.0	1337	601	58	1996	67.0	23.7
9.	Hansot	1109	1287	125	2521	44.0	24.5	1271	1133	80	2534	50.2	28.1
10.	Vagra	292	316	51	659	44.3	4.5	2560	1635	381	4596	56.1	39.7
11.	Jambusar	962	1114	91	2167	44.4	6.9	5980	4390	472	10842	55.2	42.6
12.	Amod	392	395	56	843	46.5	5.7	2349	1483	320	4152	56.2	34.2
Sub-Total		4021	4087	473	8581	48.6	6.7	19225	11880	1846	32951	58.3	32.1
District Total		20794	28405	3434	52633	39.5	18.7	30005	23061	3319	56385	53.2	27.0

Source :- Live Stock Census 1972

Sr. Taluka
No.

J o w s

S h e B u f f a l o e s

In Milk	Dry	Not calved	Total	Percentage of cattle in milk to total in col. 6	No. of cows in milk per 1000 of human population	In milk	Dry	Not calved	Total	Percentage of buffaloes in milk to total of human population in col. 12	No. of Buffaloes in milk per 1000 of human population in col. 14
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2 3 4 5 6 7 8 9 10 11 12 13 14

Tribal Area

1. Jhagadia	3926	5028	779	9733	40.3	32.7	4194	2482	531	7257	57.8	35.0
2. Nandod	4484	6568	858	11920	37.5	30.2	5336	3545	812	9693	55.1	36.0
3. D. D. D.	2668	5000	500	8225	30.0	38.1	1033	900	103	2038	50.7	15.0
4. Sagbara	518	2717	284	4519	33.6	28.9	494	409	70	973	50.8	9.4
5. Valia	2747	4566	698	8011	34.5	33.9	397	272	416	498	48.1	29.6
6. Ankleshwar Pocket	960	841	225	2026	41.4	23.5	1673	796	268	2737	61.2	40.9
Sub-Total	16303	23329	3462	45094	36.2	31.9	15127	10306	2250	27683	54.6	29.6

Non-Tribal Area

7. Bharuch	632	522	123	1277	49.5	2.8	6190	2330	558	9078	68.2	27.7
8. Ankleshwar (excluding TP)	586	356	21	963	60.9	10.4	1476	410	9	1895	77.9	21.2
9. Hansot	1170	1199	269	2638	44.3	25.9	1618	853	257	2728	59.3	40.1
10. Vagra	309	411	30	750	41.2	4.8	2729	1027	233	3989	68.4	42.0
11. Jambusar	725	724	94	1543	47.0	5.1	6941	2170	419	9530	72.8	49.5
12. Amod	628	487	92	1207	52.0	9.2	2037	971	348	4356	69.7	44.2
Sub-Total	4050	3699	629	8378	50.4	7.0	21991	7761	1824	31576	69.6	36.7
District Total	20353	29028	4091	53472	38.1	18.3	37118	18067	4074	59259	62.6	33.5

Sr. No.	Taluka	Cattle				Buffaloes				Other Livestock				
		Male over 3 years	Females over 3 years	Young stock	Total cattle	Males over 3 years	Females over 3 years	Young stock	Total Buffaloes	Sheeps	Goats	Others	Total	Total Live-stock
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<u>Tribal Area</u>														
1.	Jhagadia	12990	9754	9239	31983	87	7287	4294	11668	438	14411	661	15510	59161
2.	Nandod	18039	12043	12162	42294	109	9731	6307	16147	537	27648	851	29036	87477
3.	Dediapada	16673	8890	3899	35462	64	2038	1594	3696	157	12560	207	12924	52082
4.	Sagbara	9586	4521	5907	18014	64	973	701	1738	543	6034	169	6746	26498
5.	Valia	10884	8022	7727	26633	29	4985	2910	7924	62	8490	383	8935	43492
6.	Ankleshwar Pocket	4234	1941	1947	8122	10	2626	1390	4026	662	3838	254	4754	16902
Sub-Total		72456	45171	44881	162508	363	27640	17196	45199	2399	72981	2525	77905	285612
<u>Non-Tribal Area</u>														
7.	Bharuch	10146	1277	1265	12688	49	9098	4788	13935	1115	15696	1971	18782	45405
8.	Ankleshwar (excluding TP)	3238	1052	1126	5466	16	2073	1104	3193	447	3788	232	4465	13124
9.	Hansot	6353	2651	2620	11624	5	2731	1700	4436	462	3263	260	3985	20045
10.	Vagra	7103	751	768	8622	12	3992	2778	6782	1323	4413	799	6535	21939
11.	Jambusar	13115	1570	1693	16376	51	9537	6603	16191	439	10257	1868	12564	45131
12.	Amod	6364	1210	952	8526	15	4359	2624	7198	209	5524	491	6224	21948
Sub-Total		46367	8511	8424	63302	143	31790	19797	51735	3993	42961	5621	52555	167592
District Total		118823	53682	53305	225810	511	59430	36993	96934	6392	115922	8146	130460	453204

Sr. Taluka No.	Number of Poultry						Others	Total poultry	No. of poultry birds per 1000 of human population	
	Fowls, Hens, Cocks & Chicken			Ducks, Drakes & Duckling						
	Deshi	Improved	Total	Deshi	Improved	Total				
1	2	3	4	5	6	7	8	9	10	11
<u>Tribal Area</u>										
1. Jhagadia	18801	146	18947	9	-	9	-	18956	158.0	
2. Nandod	26338	1181	27519	7	-	7	-	27526	185.6	
3. Dediapada	31812	556	32368	-	-	-	-	32368	478.2	
4. Sagbara	9599	34	9630	2	-	2	-	9632	183.2	
5. Valia	17373	4762	22135	8	4	12	-	22147	273.7	
6. Ankloshvar Pocket	1183	154	1337	-	-	-	-	1337	32.7	
Sub-Total	105106	7030	111936	26	4	30	-	111966	219.4	
<u>Non-Tribal Area</u>										
7. Bharuch	13628	2864	16552	25	11	36	3	16591	74.2	
8. Ankleshvar (excluding TP)	8405	674	9079	24	-	24	280	9383	166.3	
9. Hansot	6464	63	6527	-	-	-	-	6527	144.3	
10. Vagra	5801	25	5826	-	-	-	-	5826	89.6	
11. Jambusar	4734	332	5066	-	-	-	-	5066	36.1	
12. Amod	3629	380	4009	4	-	4	-	4013	53.4	
Sub-Total	42721	4338	47059	53	11	64	283	47406	79.1	
District Total	147827	11168	158995	79	15	94	283	159372	143.6	

Source :- Live Stock Census 1972

District-Dharuch		Number of Poultry						(Year-1977)		
Sr. No.	Name of Taluka	Males			Females			Total Others poultry	No. of Poultry birds per 1000 of human population.	
		Fowls/Cocks	& Chickens	Ducks, Drakes & Duckling	Deshi	Improved	Total			Deshi
1	2	3	4	5	6	7	8	9	10	
<u>Tribal Area</u>										
1	Dhagadia	30209	141	30350	188	2	190	0	30540	254.5
2	Nanded	29978	566	30544	42	5	47	0	30591	206.3
3	Dediapada	42029	107	42136	5	0	5	27	42168	623.0
4	Sagbara	23132	24	23156	0	0	0	0	23156	440.4
5	Valia	32271	4577	36848	173	15	188	0	37036	457.6
6	Ankleshwar Pocket	6918	11	6929	20	-	20	-	6949	170.0
Sub-Total :		164537	5426	169963	428	22	450	27	170440	333.0
<u>Non-Tribal Area</u>										
7	Bharuch	14393	2995	17386	55	6	61	0	17447	78.1
8	Ankleshwar (excluding TP)	7340	22	7362	72	3	75	2	7439	131.8
9	Hansot	11443	442	11885	58	0	58	0	11943	163.4
10	Vagra	6967	139	7106	98	0	98	0	7204	110.8
11	Jambusar	7933	29	7962	521	1	522	0	8484	60.5
12	Amod	4601	63	4664	58	25	83	0	4747	69.1
Sub-Total :		52647	3688	56335	862	35	897	2	57234	95.5
District Total :		217184	9114	226298	1290	57	1347	29	227674	205.2

Source :- District Statistical Officer, District Panchayat, Bharuch.

Number of Milk Supply Societies.

1973-74

Sr. No.	Taluka	No. of		Total business handled	
		societies	members	(Rs. in '000)	
		1973-74	1973-74	Purchase	Sales
				1973-74	1973-74
1	2	3	4	5	6
<u>Tribal Area</u>					
1.	Jhagadia	5	626	360	360
2.	Nandod	6	632	334	414
3.	Dediapada	-	-	-	-
4.	Sagbara	-	-	-	-
5.	Valia	2	425	778	778
Sub-Total					
		13	1685	1522	1552
<u>Non-Tribal Area</u>					
7.	Bharuch	12	791	100	90
8.	Anklesvar	3	174	144	144
9.	Hansot	1	32	-	-
10.	Vagra	3	74	-	-
11.	Jambusar	18	3498	1043	1340
12.	Amod	6	272	120	181
Sub-Total					
		43	4841	1407	1755
District Total					
		56	6524	2929	3307

Source:- District Statistical Officer District Panchayat Bharuch.

District Bharuch Number of Milk Supply Societies.

1976-77 to 1978-79

Sr. No.	Taluka	Number of Societies			Number of Members			Total Business Handles (Rs. in '000)								
		1976-77	1977-78	1978-79	1976-77	1977-78	1978-79	Purchase			Sales					
							1976-77	1977-78	1978-79	1976-77	1977-78	1978-79				
1	2	3	4	5	6	7	8	9	10	11	12	13	14			
<u>Tribal Area</u>																
1.	Jhagadia	16	23	29	1451	1889	2145	1007	1212	2030	1199	61	2351			
2.	Nandoo	27	32	41	2327	2039	2766	1939	2374	2442	2270	123	3073			
3.	Dadiapada	5	7	9	454	496	568	214	221	223	334	56	340			
4.	Sagbara	6	8	8	315	606	606	-	3	3	-	-	5			
5.	Valia	13	16	19	1356	1924	2212	1728	1823	5423	2296	-	6181			
6.	Ankleshwar Pocket	1	3	12	226	92	283	16	17	48	20	20	76			
Sub-Total :		68	89	118	6129	7046	8585	4904	5650	10178	6119	260	12026			
<u>Non-Tribal Area</u>																
7.	Bharuch	53	53	56	2973	5049	4855	1167	1265	15772	1519	1459	2374			
8.	Ankleshwar (excluding TP)	2	12	15	686	614	421	398	1220	1385	424	1223	1608			
9.	Hansot	17	17	16	609	745	745	1729	1126	242	2324	1104	300			
10.	Vagra	14	13	33	980	1379	1988	214	261	889	240	255	96227			
11.	Jambusar	23	14	44	4274	5171	6356	1450	1017	2945	1556	1131	4199			
12.	Amod	19	11	25	1472	2078	2380	1147	1315	1071	1415	1211	1270			
Sub-Total:		123	15	189	10994	15036	16745	6105	6201	22304	7508	6383	105978			
<u>District Total</u>																
Total		105	254	307	17123	22082	25330	11009	11851	32482	13627	6643	118004			

Source:- Assistant District Registrar, Co-operative Societies, Bharuch.

District-Bharuch Number of Veterinary Institutions and Personnel. (Year- 1973-74/1978-79)

Sr. No.	Name of Taluka	Veterinary Institutions								Personnel					
		Hospital		Dispensary		First aid veterinary		Artificial Insemination Centres		Artificial Insemination Sub-Centres		Veterinary Officer		Stockmen	
		1973-74	1978-79	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<u>Tribal Area</u>															
1:	Jhagadia	-	-	1	1	5	5	-	-	-	-	1	1	5	5
2:	Nandod	-	-	1	1	6	6	-	-	-	-	1	1	6	6
3:	Dediapada	-	-	1	1	2	2	-	-	-	-	1	1	2	2
4:	Sagbara	-	-	1	1	2	2	-	-	-	-	-	1	3	2
5:	Valia	-	-	1	1	5	5	-	-	-	-	1	1	5	5
6:	Ankleshwar Pockot	-	-	-	-	1	1	1	1	-	-	-	-	-	-
Sub-Total :		-	-	5	5	21	21	1	1	-	-	4	5	21	20
<u>Non-Tribal Area</u>															
7:	Bharuch	-	-	1	1	2	2	1	1	-	-	1	1	2	2
8:	Ankleshwar (excluding TP)	-	-	1	1	1	1	-	-	-	-	1	1	2	2
9:	Hansot	-	-	1	1	1	1	-	-	-	-	1	1	1	1
10:	Vagra	-	-	1	1	1	1	-	-	-	-	1	1	1	1
11:	Janbusar	-	-	1	1	2	2	-	-	1	1	1	1	2	2
12:	Amod	-	-	1	1	1	1	-	-	-	-	1	1	1	1
Sub-Total :		-	-	6	6	8	8	1	1	1	1	6	6	9	9
District Total :		-	-	11	11	29	29	2	2	1	1	10	11	30	29

District-Bharuch		Number of working factories and employment therein. (Year-1978)							
Sr. No.	T a l u k a	No. of working factories				Average number of daily workers in the working factories			
		1965	1970	1973	1977	1965	1970	1973	1977
1	2	3	4	5	6	7	8	9	10
<u>Tribal Area</u>									
1.	Jhagadia	6	6	7	6	626	610	656	266
2.	Nandod	10	12	11	11	803	1084	1073	689
3.	Dediapada	-	-	-	-	-	-	-	-
4.	Sagbara	-	-	-	-	-	-	-	-
5.	Valia	4	3	3	5	396	327	491	258
6.	Ankleshwar Pocket	-	-	-	-	-	-	-	-
Sub-Total :		20	21	21	22	1025	2021	2220	1213
<u>Non-Tribal Area</u>									
7.	Bharuch	26	31	32	47	4976	5378	5051	4561
8.	Ankleshwar	21	20	21	41	916	957	1316	1147
9.	Hansot	3	2	1	2	461	418	155	73
10.	Vagra	3	3	2	7	330	275	158	856
11.	Jambusar	10	7	7	8	1125	832	633	703
12.	Amod	4	4	4	5	805	657	715	987
Sub-Total :		67	67	67	110	8612	8517	8028	8327
District Total		87	88	88	132	10437	10538	10248	9540

Source :- Bureau of Economics and Statistics, Gandhinagar.

District-Bharuch Industrial Co-operative Societies. (Year- 1973-74/1978-79)

Sr. No.	Name of Taluka		No. of Societies		No. of members		Working Capital		Loan Outstanding		Employment For		
											Production	Others	
	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79	1973-74	1978-79	
1	2	3	4	5	6	7	8	9	10	11	12	13	14

Tribal Area

1. Jhagadia	4	6	87	416	13641	1123318	530	-	15	-	3	-
2. Nandod	4	5	180	451	153087	541410	-	-	57	-	4	-
3. Dediapada	2	4	109	874	15644	120815	-	-	60	-	2	-
4. Sagbara	-	2	-	234	-	82155	-	-	-	-	-	-
5. Valia	4	10	108	669	73822	129707	14352	-	-	-	2	-
6. Ankleshwar Pocket	-	3	-	78	-	22000	-	-	-	-	-	-
Sub-Total :	14	30	2484	2722	256194	2019403	1482	-	132	-	11	-

Non-Tribal Area

7. Bharuch	15	12	2036	1340	29392117	803831	46160	-	858	-	78	-
8. Ankleshwar (excluding TP)	4	4	261	226	168508	253537	4103	-	26	-	1	-
9. Hansot	1	2	23	61	2627	3399	1686	-	-	-	1	-
10. Vagra	19	14	723	569	22683	6938	-	-	-	-	-	-
11. Janbusar	7	5	408	298	139582	147786	2542	-	7	-	6	-
12. Anod	1	-	14	-	1486	-	-	-	-	-	-	-
Sub-Total	47	37	3465	3314	29727003	1245483	54491	-	883	-	86	-
District Total	61	67	3949	6036	29983197	3264886	69373	-	1015	-	97	-

Number of villages electrified.

District-Bharuch

(As on 31st March 1974)

Sr. No.	Taluka	Total No. of villages	Total population	No. of villages electrified.	Population covered by villages electrified.	Percentage of villages electrified to total villages.	Percentage of population of villages electrified to total population
1	2	3	4	5	6	7	8
<u>Tribal Area</u>							
1.	Jhagadia	164	120000	37	55598	22.6	46.3
2.	Nandod	208	122525	34	42703	16.3	34.8
3.	Dodiapada	170	67683	-	Nil	-	-
4.	Sagbara	106	52576	-	Nil	-	-
5.	Valia	94	80927	41	48273	43.6	59.6
6.	Ankloshwar Pocket	37	40874	16	24430	43.2	59.8
Sub-Total		779	484585	128	171004	16.4	35.3
<u>Non-Tribal Area</u>							
7.	Bharuch (excluding T.P.)	95	124924	51	90754	53.7	72.6
8.	Ankloshwar	17	30203	12	26754	70.6	88.6
9.	Hansot	45	37595	17	16131	37.8	42.9
10.	Vagra	68	65037	17	21519	25.0	33.1
11.	Jambusar	81	116104	31	72974	38.3	62.9
12.	Amod	52	58139	31	41459	59.6	71.3
Sub-Total		358	432002	159	269591	44.4	62.4
Dist. Total		1137	916587	287	140595	25.2	48.1

Source:- Gujarat Electricity Board, Baroda.

Number of villages electrified.

District- Bharuch)

(As on 31st March 1979)

Sr. Taluka No.	Total No. of villages	Total population	No. of villages electrified.	Population covered by villages electrified	Percentage of villages electrified to total villages.	Percentage of population of villages electrified to total population
1	2	3	4	5	6	7
<u>Tribal Area</u>						
1. Jhagadia	164	120000	57	72243	34.8	60.2
2. Nandod	208	122525	60	59485	28.8	48.5
3. Dodiapada	170	67683	24	20350	14.1	30.1
4. Sagbara	106	52576	14	11460	13.2	21.8
5. Valia	94	80927	54	57920	57.4	71.6
6. Ankleshwar Pocket	37	40874	19	27734	51.4	67.9
Sub-Total	779	484585	228	249192	29.3	51.4
<u>Non-Tribal Area</u>						
7. Bharuch (excluding T.P.)	95	124924	69	111746	72.6	89.5
8. Ankleshwar	17	30203	17	30203	100.0	100.0
9. Hansot	45	37595	17	16686	37.8	44.4
10. Vagra	63	65037	17	21519	25.0	33.1
11. Jambusar	81	116104	34	80313	42.0	69.2
12. Amod	52	58139	44	53443	84.6	91.9
Sub-Total	358	432002	197	313910	55.0	72.7
Dist. Total	1137	916587	425	563102	37.4	61.4

Source: Gujarat Electricity Board : Baroda.

(As on March 31, 1973)

Sr. No.	Scheduled Bank				Co-operative Bank				
	No. of places with banks	No. of bank offices	Area * (sq.km.) per bank office	Popula- tion per bank	No. of places with banks	No. of bank offices	Area (sq.km.) per bank office	Popula- tion per bank	
1	2	3	4	5	6	7	8	9	10
<u>Tribal Area</u>									
1. Jhagadia	4	4	203	30000	4	4	203	30000	
2. Nandod	2	4	283	37073	1	3	377	49431	
3. Dodiapada	1	1	1022	67683	1	1	1022	67683	
4. Sagbara	-	-	-	-	1	1	400	52576	
5. Valia	2	2	257	40464	2	2	257	40464	
6. Ankleshwar Pocket	-	-	-	-	-	-	-	-	
<u>Sub-Total :</u>	<u>9</u>	<u>11</u>	<u>375</u>	<u>46396</u>	<u>9</u>	<u>11</u>	<u>375</u>	<u>46396</u>	
<u>Non-Tribal Area</u>									
7. Bharuch	5	14	48	15967	3	3	222	74512	
8. Ankleshwar (excluding TP)	1	4	43	14106	3	4	102	14106	
9. Hansot	1	1	399	45231	2	3	133	15077	
10. Vagra	2	2	441	32518	2	2	441	32518	
11. Jambusar	2	4	274	35089	2	3	366	46785	
12. Amod	2	2	232	34332	3	4	116	17166	
<u>Sub-Total :</u>	<u>13</u>	<u>27</u>	<u>136</u>	<u>22194</u>	<u>15</u>	<u>19</u>	<u>193</u>	<u>31539</u>	
<u>District Total :</u>	<u>22</u>	<u>38</u>	<u>205</u>	<u>29200</u>	<u>24</u>	<u>30</u>	<u>260</u>	<u>36987</u>	

* based on land use area

Source : Reserve bank of India, Bombay.

No. of scheduled and co-operative bank offices.

District-Bharuch

Year : 1978-79

Sr. No.	Taluka	Scheduled Bank				Co-operative Bank			
		No. of places with Banks	No. of Bank offices	Area (sq.km.) per bank offices	Popula- tion per Bank	No. of places with Banks	No. of Bank offices	Area (sq.km.) per bank offices	Popula- tion per Bank
1	2	3	4	5	6	7	8	9	10
<u>Tribal Area</u>									
1.	Jhagadia	5	6	136	20000	5	5	163	24000
2.	Nandod	4	7	161	21185	2	4	283	370735
3.	Dediapada	1	1	1022	67683	1	1	1022	67683
4.	Sagbara	2	2	200	26288	1	1	400	52576
5.	Valia	2	2	257	40463	2	2	257	40463
6.	Ankleshwar Pocket	-	-	-	-	-	-	-	-
<u>Sub-Total :</u>		<u>14</u>	<u>13</u>	<u>229</u>	<u>28353</u>	<u>11</u>	<u>13</u>	<u>317</u>	<u>39258</u>
<u>Non-Tribal Area</u>									
7.	Bharuch	9	27	25	8279	7	10	66	22353
8.	Ankleshwar (excluding T.P.)	2	8	21	7053	2	4	43	14105
9.	Hansot	1	1	399	45231	2	2	200	22615
10.	Vagra	2	2	441	32518	2	2	441	32518
11.	Jambusar	4	6	182	23392	3	4	274	35088
12.	Amod	2	2	232	34332	4	5	93	13732
<u>Sub-Total :</u>		<u>20</u>	<u>46</u>	<u>80</u>	<u>13027</u>	<u>20</u>	<u>27</u>	<u>136</u>	<u>22194</u>
District Total		34	64	122	17337	31	40	195	27740

Number and membership of primary co-operative societies.

District-Bharuch

(Year:1973-74)

Sr. Taluka No.	Agricultural societies		Non-Agricultural Societies		Other Societies*		Total Societies		No. of members of all societies per 100 of population.	No. of members of primary agricultural credit societies per 100 of agricultural workers	
	No.	Members	No.	Members	No.	Members	No.	Members			
1	2	3	4	5	6	7	8	9	10	11	12
<u>Tribal Area</u>											
1:Jhagadia	36	6789	2	492	26	2701	64	9982	8	16	
2:Nandod	40	7525	5	4503	75	4053	120	16081	11	18	
3:Bediapada	23	2934	2	234	7	377	32	3545	5	15	
4:Sagbara	15	1211	2	133	3	88	20	1432	3	7	
5:Valia	21	4205	1	228	40	5321	62	9754	12	13	
6:Ankleshwar Pocket	25	1250	-	-	25	490	50	1740	4	9	
Sub-Total :	160	23914	12	5590	576	13030	348	42534	8	14	
<u>Non-Tribal Area</u>											
7:Bharuch	61	8647	33	10016	110	10256	204	28919	13	22	
8:Ankleshwar (excluding TP)	14	2817	6	6675	19	3071	39	12563	22	26	
9:Hansot	29	4893	4	1412	13	2099	46	8404	19	35	
10:Vagra	48	5225	3	304	32	2325	83	7854	12	25	
11:Jambusar	46	8430	5	6951	49	8742	100	24123	17	24	
12:Amod	37	5771	2	259	39	3474	78	9504	14	27	
Sub-Total :	235	35783	53	25617	262	29967	550	91367	15	25	
District Total	395	59697	65	31207	438	42997	898	133901	12	19	

*This includes Cotton ginning & pressing, irrigation societies, Housing societies, Industrial Societies, Milk supply societies etc.

Source: District Statistical Officer, District Panchayat, Bharuch.

Numbers and membership of primary co-operative societies.

District-Bharuch

Year: 1978-79

Sr. No.	Taluka	Agricultural Societies	Non-Agricultural Societies	Other societies	Total societies	No. of members of all societies per 100 of population	No. of members of primary agricultural societies per 100 of agricultural workers
1	2	3	4	5	6	7	8
<u>Tribal Area</u>							
1.	Jhagadia	33	10360	5	355	50	4214
2.	Nandod	39	8130	10	7765	113	12629
3.	Dediapada	27	3200	1	430	20	1732
4.	Sagbara	13	1900	1	575	28	1420
5.	Valia	22	5107	14	11060	48	5090
6.	Ankleshwar Pocket	25	3700	--	--	41	828
<u>Sub-Total :</u>		159	32377	31	20185	300	26813
<u>Non-Tribal Area</u>							
7.	Bharuch	60	10000	14	950	193	23848
8.	Ankleshwar (excluding TP)	16	132	8	1072	22	9836
9.	Hansot	30	4207	6	4780	31	4352
10.	Vagra	49	5000	2	95	57	4152
11.	Janbusar	44	9348	5	914	78	18020
12.	Anod	36	6000	--	--	60	8726
<u>Sub-Total :</u>		235	35883	35	7811	441	68934
<u>District Total</u>		394	68260	66	27996	741	95745

Road length per 100 sq.kms.of area and per ten thousand of population.

District-Bharuch

(Year:1973-74)

Sr. No.	Taluka	Road length in kms.			Road length in kms.per 100 sq.kms.of area			Road length in kms.per ten thousand of population		
		Metalled	Non-metalled	Total	Metalled	Non-metalled	Total	Metalled	Non-metalled	Total
1	2	3	4	5	6	7	8	9	10	11
<u>Tribal Area</u>										
1.	Jhagadia	136.91	86.70	223.61	16.8	10.7	27.5	11.4	7.2	18.6
2.	Nandod	151.68	136.49	288.17	13.4	12.1	25.5	10.2	9.2	19.4
3.	Dodiapada	65.18	82.53	147.71	6.4	8.1	14.5	9.6	12.2	21.8
4.	Sagbara	16.32	39.03	55.35	4.1	9.7	13.8	3.1	7.4	10.5
5.	Valia	126.34	49.21	175.55	24.6	9.6	34.2	15.6	6.1	21.7
6.	Ankleshwar Pocket	11.00	23.06	34.06	4.5	9.4	13.9	2.7	5.6	8.3
<u>Sub-Total :</u>		<u>507.43</u>	<u>417.02</u>	<u>924.45</u>	<u>12.3</u>	<u>10.1</u>	<u>22.4</u>	<u>9.9</u>	<u>8.1</u>	<u>18.1</u>
<u>Non-Tribal Area</u>										
7.	Bharuch	125.46	71.78	197.24	18.8	10.8	29.5	5.6	3.2	8.8
8.	Ankleshwar (excluding TP)	95.74	11.53	106.67	55.00	6.8	62.7	16.9	2.0	18.9
9.	Hansot	125.32	19.30	144.62	31.4	4.8	36.2	27.7	4.3	32.0
10.	Vagra	50.03	176.74	226.77	5.7	20.0	25.7	7.7	27.2	34.9
11.	Jambusar	117.75	131.71	249.46	10.7	12.0	22.7	8.4	9.4	17.8
12.	Amod	52.66	55.55	108.21	11.3	11.9	23.3	7.7	8.1	15.8
<u>Sub-Total :</u>		<u>566.36</u>	<u>466.61</u>	<u>1032.97</u>	<u>15.4</u>	<u>12.7</u>	<u>28.1</u>	<u>9.5</u>	<u>7.8</u>	<u>17.2</u>
<u>District Total</u>		<u>1073.79</u>	<u>883.63</u>	<u>1957.42</u>	<u>13.8</u>	<u>11.3</u>	<u>25.1</u>	<u>9.7</u>	<u>8.0</u>	<u>17.6</u>

Source: District Statistical Officer, District Panchayat, Bharuch.

Road length per 100 sq.kms.of area and per ten thousand of population.

District-Bharuch

Year:1978-79

Sr. No.	Road length in kms.			Road length in kms.per 100sq.kms.of area			Road length in kms.per ten thousand of population.			
	Metalled	Non-metalled	Total	Metalled	Non-metalled	Total	Metalled	Non-metalled	Total	
1	2	3	4	5	6	7	8	9	10	11
<u>Tribal Area</u>										
1:Jhagadia	164.45	89.24	253.69	20.2	11.0	31.2	13.7	7.4	21.1	
2:Nandod	235.81	130.02	365.83	20.9	11.5	32.4	15.9	8.8	24.7	
3:Dediapada	110.20	94.20	204.40	10.8	9.2	20.0	10.3	13.9	30.2	
4:Sagbara	26.90	27.50	54.40	6.7	6.9	13.6	5.1	5.2	10.3	
5:Valia	123.00	82.15	205.15	23.9	16.0	39.9	15.2	10.2	25.4	
6:Ankleshwar Pocket	22.50	39.50	62.00	9.2	16.1	25.3	5.5	9.7	15.2	
<u>Sub-Total :</u>	<u>682.86</u>	<u>462.61</u>	<u>1145.47</u>	<u>16.5</u>	<u>11.2</u>	<u>27.8</u>	<u>13.4</u>	<u>9.1</u>	<u>22.4</u>	
<u>Non-Tribal Area</u>										
7:Bharuch	200.60	45.57	246.17	30.1	6.8	36.9	9.0	2.0	11.0	
8:Ankleshwar (excluding TP)	104.80	13.84	118.64	61.6	8.1	69.8	18.6	2.5	21.0	
9:Hansot	141.21	30.40	171.61	35.4	7.6	43.0	31.2	6.7	37.9	
10:Vagra	111.23	205.71	316.94	12.6	23.3	35.9	17.1	31.6	48.7	
11:Janbusar	149.51	131.33	280.89	13.6	12.0	25.6	10.6	9.4	20.0	
12:Anod	91.66	47.74	139.00	19.7	10.3	30.0	13.3	7.0	20.3	
<u>Sub-Total :</u>	<u>799.01</u>	<u>474.94</u>	<u>1273.95</u>	<u>21.7</u>	<u>12.9</u>	<u>34.6</u>	<u>13.3</u>	<u>7.9</u>	<u>21.3</u>	
<u>District Total:</u>	<u>1481.87</u>	<u>937.55</u>	<u>2419.42</u>	<u>19.0</u>	<u>12.0</u>	<u>31.0</u>	<u>13.4</u>	<u>8.4</u>	<u>21.8</u>	

Source: District Statistical Officer, District Panchayat, Bharuch.

List of Railway Stations.

(As on 31st March, 1974)

District-Bharuch

Sr. No.	Taluka	Name of Railway Station
1	2	3
<u>Tribal Area</u>		
1.	Jhagadia	(1) Boridra (2) Gunandev (3) Jhagadia (4) Avidha (5) Rajpardi (6) Unalla (7) Danlai (8) Padvania (9) Zapor (10) Goratia (11) Gambhirpura
2.	Nandod	(1) Juna-Rajuwadia (2) Anletha (3) Taropa (4) Rajpipla
3.	Dediapada	-----
4.	Sagbara	-----
5.	Valia	(1) Netrang
6.	Ankleshwar Pocket	(1) Daddhel
<u>Non-Tribal Area</u>		
7.	Bharuch (excluding TP)	(1) Bharuch (2) Chavaj (3) Nabipur (4) Varedia (5) Palej (6) Vejalpur (7) Kantharia (8) Than (9) Tralsamadh (10) Dayadra (11) Vasihanad
8.	Ankleshwar	(1) Ankleshwar (2) Panoli
9.	Hansot	-----
10.	Vagra	(1) Vagra (2) Vahiyal (3) Pakhajan (4) Sanbheti (5) Dahaj
11.	Jambusar	(1) Maghad (2) Jambusar (3) Jambusar city (4) Tanlari Road (5) Tundaj (6) Koteswar (7) Kava (8) Kangan (9) Kavi (10) Akhi
12.	Amod	(1) Samhi (2) Nahier (3) Amod

Source: District Statistical Officer, District Panchayat, Bharuch.

List of Railway Stations

District-Bharuch

(As on 31-3-178)

Sr. T a l u k a

Name of Railway Station

No.

1

2

3

Tribal Area

- 1. Jhagadia (1) Boridra (2) Gumandev (3) Jhagadia (4) Avidha (5) Rajpardi (6) Umalla (7) Damlai (8) Valia (9) Zazpor (10) Goratia and (11) Gambhirpura
- 2. Nandod (1) Juna Rajuwadia (2) Amlotha (3) Taropa (4) Rajpipla
- 3. Dodiapada -----
- 4. Sagbara -----
- 5. Valia (1) Netrang
- 6. Ankleshwar Pocket (1) Dadhal

Non-Tribal Area

- 7. Bharuch (1) Bharuch (2) Chavaj (3) Nabipur (4) Varedia (5) Palej (6) Vejalpur (7) Kantharia (8) Than (9) Tralsanadh (10) Deyadra and (11) Vachhnad
- 8. Ankleshwar (1) Ankleshwar (2) Panoli
- .. (excluding TP)
- 9. Hansot -----
- 10. Vagra (1) Vagra (2) Vahiyal (3) Pakhajan (4) Sanbheti (5) Dahej
- 11. Jambusar (1) Magnad (2) Jambusar (3) Jambusar City (4) Tankari Road (5) Koteshwar (6) Tundaj (7) Kava (8) Kangam (9) Kavi and (10) Ankha
- 12. Amod (1) Sanni (2) Nahier (3) Amod

Source: District Statistics Abstract, District Panchayat, Bharuch.

Number of post offices, telegraph offices and villages without post offices.

District-Bharuch

(Year:1973-74)

Sr. No.	T a l u k a	Post offices		Post & Telegraph Offices		Village without post office	
		Number	Per 100 sq.kms.+	Number	Per 100 sq.kms.+	Number	Percentage to total villages
1	2	3	4	5	6	7	8
<u>Tribal Area</u>							
1.	Jhagadia	36	4.4	4	0.5	123	78.0
2.	Nandod	40	3.5	2	0.2	168	80.3
3.	Dediapada	9	0.9	1	0.1	161	94.7
4.	Sagbara	13	3.2	1	0.3	93	87.7
5.	Valia	38	7.4	2	0.4	56	59.6
		20	8.2	-	-	17	45.9
<u>Sub-Total :</u>		156	3.8	10	0.3	623	80.0
<u>Non-Tribal Area</u>							
6.	Bharuch	60	9.0	8	1.2	35	36.3
7.	Ankleshwar	7	4.1	1	0.2	10	53.8
8.	Hansot	17	4.3	2	0.5	28	62.2
9.	Vagra	35	4.0	1	0.1	33	48.5
10.	Jambusar	42	3.8	3	0.3	39	43.1
11.	Amod	27	5.8	1	0.2	25	43.0
<u>Sub-Total :</u>		188	5.1	16	0.4	170	47.5
District Total		344	4.4	26	0.3	793	69.7

Source : District Statistical Officer, District Panchayat, Bharuch.

+ Based on land use area.

Number of post offices, telegraph offices & villages with post offices.

District-Bharuch

(Year: 1978-79)

Sr. No.	T a l u k a	No. of inhabited villages (As per 1971 Census)	Post offices		Post & Telegraph Offices		Villages without post offices	
			Number	Per 100 sq.kms.	Number	Per 100 sq.kms.	Number	Percentage to total villages
1	2	3	4	5	6	7	8	9
<u>Tribal Area</u>								
1.	Jhagadia	164	51	6.3	4	0.5	113	68.9
2.	Nandod	208	49	4.3	3	0.3	159	76.4
3.	Dediapada	170	29	2.8	-	-	141	82.9
4.	Sagbara	106	15	3.7	1	0.3	91	85.8
5.	Valia	94	38	7.4	2	0.4	56	59.6
6.	Ankleshwar Pocket	37	20	8.2	-	-	17	45.9
<u>Sub-Total :</u>		<u>779</u>	<u>202</u>	<u>4.9</u>	<u>10</u>	<u>0.3</u>	<u>577</u>	<u>74.1</u>
<u>Non-Tribal Area</u>								
7.	Bharuch	95	62	9.3	19	2.9	33	34.7
8.	Ankleshwar (excluding TF)	17	7	4.1	7	1.7	10	58.8
9.	Hansot	45	24	6.0	-	-	21	46.7
10.	Vagra	68	42	4.7	5	0.6	26	38.2
11.	Jambusar	81	42	3.3	6	0.6	39	48.1
12.	Amod	52	27	5.8	3	0.7	25	48.1
<u>Sub-Total :</u>		<u>358</u>	<u>204</u>	<u>5.5</u>	<u>40</u>	<u>1.0</u>	<u>154</u>	<u>43.0</u>
District Total		1137	406	5.2	50	0.6	731	64.3

Source : District Statistical Officer, District Panchayat, Bharuch.

Number of Primary schools, pupils and teachers.

District-Bharuch			(Year:1973-74)			
Sr. No.	T a l u k a	Primary education			Number of schools per 100 sq.kms.@	Percentage of villages with primary school to total villages.
		Number of schools	Number of students	Number of teachers		
1	2	3	4	5	6	7
<u>Tribal Area</u>						
1.	Jhagadia	163	16120	500	20.0	83.5
2.	Nandod	209	22741	515	18.5	85.1
3.	Dediapada	108	7577	216	10.6	62.9
4.	Sagbara	89	6322	154	22.2	87.7
5.	Valia	109	11019	323	21.2	95.7
6.	Ankleshwar Pocket	40	8670	175	16.3	100.0
Sub-Total		718	72449	1883	17.4	82.3
<u>Non-Tribal Area</u>						
7.	Bharuch	161	38542	843	24.2	100.0
8.	Ankleshwar (excluding TP)	35	6191	161	20.6	100.0
9.	Hansot	59	8605	329	14.8	100.0
10.	Vagra	70	11026	345	7.9	95.6
11.	Jambusar	101	21739	616	9.2	92.6
12.	Anod	60	11578	353	12.9	98.1
Sub-Total		486	97731	2647	13.2	97.0
District Total		1204	170180	4530	15.4	87.8

Source: District Statistical Officer, District Panchayat, Bharuch

@ : Based on land use area.

Number of primary schools, pupils and teachers.

District-Bharuch.

(Year: 1978-79)

Sr. No.	T a l u k a	Primary Education			No. of schools per 100 sq.kms.	Percentage of villages with primary school to total villages
		No. of schools	No. of students	No. of teachers		
1	2	3	4	5	6	7
<u>Tribal Area</u>						
1.	Jhagadia	171	18055	541	21.0	90.2
2.	Nandod	219	21852	731	19.4	93.3
3.	Dediapada	169	11758	296	16.5	78.2
4.	Sagbara	86	8492	210	21.5	87.7
5.	Valia	129	14346	407	25.1	98.9
6.	Ankleshwar Pocket	40	9876	347	16.3	100.0
<u>Sub-Total :</u>		<u>814</u>	<u>84379</u>	<u>2532</u>	<u>19.7</u>	<u>89.6</u>
<u>Non-Tribal Area</u>						
7.	Bharuch	156	45201	1115	23.4	100.0
8.	Ankleshwar (excluding TP)	40	2749	151	23.5	88.2
9.	Hansot	53	9348	323	13.3	100.0
10.	Vagra	72	13259	406	8.2	100.0
11.	Janbusar	101	23768	507	9.2	96.3
12.	Amod	62	12979	353	13.3	93.1
<u>Sub-Total :</u>		<u>434</u>	<u>107304</u>	<u>2855</u>	<u>13.1</u>	<u>98.3</u>
<u>District Total</u>		<u>1298</u>	<u>191683</u>	<u>5387</u>	<u>16.6</u>	<u>92.4</u>

Source: District Statistical Officer, District Panchayat, Bharuch.

Number of Secondary Schools, pupils and teachers.

District-Bharuch

(Year: 1973-74)

Sr. No.	T a l u k a	Secondary Education			Number of schools per 100 sq.kms. of area.@	Percentage of villages with secondary schools to total villages.
		Number of schools	Number of students	Number of teachers		
1	2	3	4	5	6	7
<u>Tribal Area</u>						
1.	Jhagadia	9	2739	109	1.1	5.5
2.	Nandod	16	4069	185	1.4	7.7
3.	Dediapada	1	183	9	0.1	0.6
4.	Sagbara	1	282	11	0.3	0.9
5.	Valia	6	1696	66	1.2	6.4
6.	Ankleshwar Pocket	1	37	2	0.4	2.7
<u>Sub-Total :</u>		34	9006	382	0.8	4.4
<u>Non-Tribal Area</u>						
7.	Bharuch	37	11030	387	5.6	38.1
8.	Ankleshwar (excluding TP)	7	2373	91	4.1	38.9
9.	Hansot	7	1577	58	1.8	15.2
10.	Vagra	6	934	40	0.7	8.8
11.	Jambusar	18	3428	149	1.6	28.0
12.	Amod	3	1837	73	1.7	15.8
<u>Sub-Total :</u>		83	21229	799	2.1	22.8
District Total		117	30235	1181	1.5	10.2

Source: District Statistical Officer, District Panchayat, Bharuch.

@ Based on land use area.

Number of secondary schools, pupils and teachers.

District-Bharuch

(Year:1973-79)

Sr. No.	Taluka	Secondary Education			No. of schools per 100 sq.kms. of area.	No. of villages with secondary schools.	Percentage of villages with secondary schools to total villages!
		No. of schools	No. of students	No. of teachers			
1	2	3	4	5	6	7	8
<u>Tribal Area</u>							
1.	Jhagadia	8	2264	94	1.0	8	4.9
2.	Nandod	17	4733	193	1.5	17	8.1
3.	Dediapada	2	599	22	0.2	2	1.2
4.	Sagbara	2	353	14	0.5	2	1.9
5.	Valia	6	2199	97	1.2	6	6.4
6.	Ankleshwar Pocket	1	131	5	0.4	1	2.7
<u>Sub-Total :</u>		<u>36</u>	<u>10244</u>	<u>425</u>	<u>0.9</u>	<u>36</u>	<u>4.6</u>
<u>Non-Tribal Area</u>							
7.	Bharuch	39	13110	466	5.9	39	40.2
8.	Ankleshwar (excluding TP)	3	3740	140	4.7	3	44.4
9.	Hansot	7	1265	55	1.3	7	15.2
10.	Vagra	7	963	44	0.3	7	23.3
11.	Jambusar	19	4249	173	1.7	19	23.2
12.	Amod	8	2350	92	1.7	8	15.4
<u>Sub-Total :</u>		<u>83</u>	<u>25682</u>	<u>975</u>	<u>2.4</u>	<u>83</u>	<u>24.6</u>
District Total		124	35966	1400	1.6	124	10.8

Source : District Statistical Officer, District Panchayat, Bharuch.

Number of Medical and Health Institutions.*

District-Bharuch (Year:1973)

Sr. No.	T a l u k a	Hospitals	Dispensaries	Number of primary health centres	Number of primary health sub-centres	Number of beds	Number of beds per 10,000 population
1	2	3	4	5	6	7	8
<u>Tribal Area-</u>							
1:	Jhagadia	-	7	2	6	39	3
2:	Nandod	1	4	2	6	87	6
3:	Dediapada	-	3	1	3	6	1
4:	Sagbara	-	1	1	3	6	1
5:	Valia	-	5	2	6	9	1
6:	Ankleshwar Pocket	-	-	-	-	-	-
<u>Sub-Total :</u>		1	20	0	24	147	3
<u>Non-Tribal Area</u>							
7:	Bharuch	1	10	1	3	74	3
8:	Ankleshwar (excluding TP)	-	4	1	3	42	4
9:	Hensot	-	3	1	3	14	3
10:	Vagra	-	3	1	3	6	1
11:	Janbusar	1	4	1	3	65	5
12:	Amod	-	2	1	3	14	2
<u>Sub-Total :</u>		2	26	6	18	216	3
<u>District Total</u>		3	46	14	42	363	3

Source:-District Statistical Officer, District Panchayat, Bharuch.

* : Government and grant-in-aid institutions only.

No. of Medical and Health Institutions.

District-Bharuch

(Year:1978-79)

Sr. No.	Name of Taluka	Hospital	Dispensaries	No. of Primary Health Centres	No. of Primary Health sub-Centres	No. of beds	No. of beds per 10000 population
1	2	3	4	5	6	7	8
<u>Tribal Area</u>							
1.	Jhagadia	1	7	2	19	21	2
2.	Nandod	1	5	2	16	137	9
3.	Dediapada	-	3	1	6	6	1
4.	Sagbara	-	1	1	4	6	1
5.	Valia	-	4	2	7	42	5
6.	Ankleshwar Pocket	-	-	-	-	-	-
<u>Sub-Total :</u>		<u>1</u>	<u>20</u>	<u>8</u>	<u>30</u>	<u>212</u>	<u>5</u>
<u>Non-Tribal Area</u>							
7.	Bharuch	1	10	1	4	128	6
8.	Ankleshwar (excluding TP)	-	4	1	3	30	3
9.	Hansot	-	3	1	3	14	3
10.	Vagra	-	3	1	3	9	1
11.	Jambusar	1	4	1	4	66	5
12.	Anod	-	2	1	3	14	1
<u>Sub-Total :</u>		<u>2</u>	<u>26</u>	<u>6</u>	<u>20</u>	<u>261</u>	<u>4</u>
District Total		3	46	14	52	473	4

Source: District Statistical Officer, District Panchayat, Bharuch.

District-Bharuch

Sr. No.		1973-74		
T a l u k a		Number of schools	Number of teachers	Number of students
1	2	3	4	5
<u>Tribal Area</u>				
1:	Jhagadia	2	8	240
2:	Nandod	2	8	240
3:	Dediapada	5	20	583
4:	Sagbara	2	8	240
5:	Valia	1	5	150
6:	Ankleshwar Pocket	-	-	-
<u>Sub-Total</u>		<u>12</u>	<u>49</u>	<u>1453</u>
<u>Non-Tribal Area</u>				
7:	Bharuch	-	-	-
8:	Ankleshwar(excluding TP)	1	2	14
9:	Hansot	2	7	230
10:	Vagra	1	4	120
11:	Janbusar	-	-	-
12:	Amod	-	-	-
<u>Sub-Total</u>		<u>4</u>	<u>13</u>	<u>364</u>
<u>District Total</u>		<u>16</u>	<u>62</u>	<u>1817</u>

Source:-District Statistical Officer, District Panchayat, Bharuch.

Number of ~~Sanran~~ Shalas and students therein.

(1978-79)

District-Bharuch

Sr. T a l u k a		1978-79		
No.		No. of schools	No. of teachers	No. of students
1	2	3	4	5
<u>Tribal Area</u>				
1:	Jhagadia	3	10	270
2:	Nandod	2	8	240
3:	Dediapada	7	25	707
4:	Sagbara	2	8	240
5:	Valia	2	7	240
6:	Ankleshwar Pocket	-	-	-
<u>Sub-Total :</u>		<u>16</u>	<u>58</u>	<u>1697</u>
<u>Non-Tribal Area</u>				
7:	Bharuch	-	-	-
8:	Ankleshwar(excluding TP)	1	5	110
9:	Hansot	2	7	240
10:	Vagra	3	8	220
11:	Janbusar	-	-	-
12:	Anod	-	-	-
<u>Sub-Total</u>		<u>6</u>	<u>20</u>	<u>570</u>
<u>District Total</u>		<u>22</u>	<u>78</u>	<u>2267</u>

188 Statement No.65

Number of medical and health personnel.

District-Bharuch

(Year : 1978-79)

Sr. No.	T a l u k a	Doctors			Nurses			Midwives		
		Number	Per 100 sq.kms.	Per 10000 population	Number	Per 100 sq.kms.	Per 10000 population	Number	Per 100 sq.kms.	Per 10000 population
1	2	3	4	5	6	7	8	9	10	11
<u>Tribal Area</u>										
1	Jhagadia	7	0.9	0.6	21	2.6	1.8	19	2.3	1.6
2	Nandod	11	1.0	0.7	33	2.9	2.2	20	1.8	1.4
3	Dediapada	1	0.1	0.2	10	1.0	1.5	11	1.1	1.6
4	Sagbara	2	0.5	0.4	7	1.8	1.3	8	2.0	1.5
5	Valia	5	1.0	0.6	14	0.7	1.7	14	2.7	1.7
6	Ankleshvar Pocket	1	0.4	0.2	3	1.2	2.7	5	2.0	1.2
Sub-Total		27	0.7	0.5	88	2.1	1.7	77	1.9	1.5
<u>Non-Tribal Area</u>										
7	Bharuch	18	2.7	0.8	40	6.0	1.8	17	2.6	0.8
8	Ankleshwar (excluding TP)	3	1.8	0.5	10	5.9	1.8	6	3.5	1.1
9	Hansot	4	1.0	0.9	8	2.0	1.8	8	2.0	1.8
10	Vagra	3	0.3	0.5	10	1.1	1.5	10	1.1	1.5
11	Janbusar	7	0.6	0.5	26	2.4	1.9	17	1.6	1.2
12	Amod	2	0.4	0.3	10	2.2	1.5	10	2.2	1.5
Sub-Total :		37	1.0	0.6	104	2.8	1.7	63	1.8	1.1
District Total		64	0.7	0.6	192	2.1	1.7	145	1.6	1.3

Source: District Statistical Officer, District Panchayat, Bharuch.

Number of Medical and Health personnel.

District-Bharuch Year-1973)

Sr. No.	Taluka	Doctors			Nurses			Midwife		
		Number	Per 100 Sq.kms.@	Per 10000 Population	Number	Per 100 Sq.kms.@	Per 10000 popu-lation	Number	Per 100 Sq.kms.@	Per 10000 Popu-lation
1	2	3	4	5	6	7	8	9	10	11
<u>Tribal Areas</u>										
1.	Jhagadia	6	0.7	0.5	10	1.2	0.8	7	0.9	0.6
2.	Nandod	7	0.6	0.5	19	1.7	1.3	12	1.1	0.8
3.	Dediapada	3	0.3	0.4	4	0.4	0.6	6	0.6	0.9
4.	Sagbara	1	0.3	0.2	4	1.0	0.8	6	1.5	1.1
5.	Valia	5	1.0	0.6	8	1.6	1.0	8	1.6	1.0
6.	Ankleshvar Pockot	1	0.4	0.2	3	1.2	0.7	3	1.2	0.7
Sub-Total :		23	0.6	0.5	48	1.2	0.9	42	1.0	0.8
<u>Non-Tribal Area</u>										
7.	Bharuch	16	2.4	0.7	33	5.0	1.5	12	1.8	0.5
8.	Ankleshvar (excluding TP)	4	2.4	0.7	8	4.7	1.4	5	2.9	0.9
9.	Nansot	5	0.6	0.7	4	1.0	0.9	7	1.8	1.5
10.	Vagra	3	0.3	0.5	4	0.5	0.6	8	0.9	1.2
11.	Janbusar	6	0.5	0.4	15	1.4	1.1	12	1.1	0.9
12.	Amod	2	0.4	0.3	5	1.1	0.7	8	1.7	1.2
Sub-Total :		34	0.9	0.6	69	1.9	1.2	52	1.4	0.9
District Total		57	0.7	0.5	117	1.5	1.1	94	1.2	0.8

Source: District Statistical Officer, District Panchayat, Bharuch.

@ : Based on land use area.

Note : Personnel working in the institutions shown in the statementare included in this statement.

APPENDIX

Methodology adopted and limitations for the earlier bench mark survey report.

As stated earlier, a taluka has been treated as a unit for identifying it as a tribal area for the purpose of including the same in the Tribal Area Sub-Plan which envisages special programmes for development of the tribal areas in general and for uplifts of tribal community in particular. In the preparation of the Tribal Area Sub-Plan itself, considerable use is made of statistical information including social and economic indicators available at taluka level. It would be appropriate that the unit for collection of benchmark data for constructing social and economic indicators should also be a taluka in order to enable the comparison of the extent of development at subsequent periods. As the collection of information in respect of units below the level of taluka would involve considerable field work, it was decided to collect the information at the taluka level only.

The Government desired that the Benchmark Survey of Social and Economic Indicators of development for the districts covered in the Tribal Area Sub-Plan may be conducted as a part of an advance action on the Tribal Area Sub-Plan. In fact, Benchmark data would be very much useful in fixing priorities and targets of various programmes and working out details of the schemes before implementation. It was therefore felt the results of the Benchmark survey, if available in time, might serve some useful purpose in modifications where necessary of programmes and schemes proposed in the Sub-Plan. Keeping this in view, it

was decided to collect the information from various official records and publications available with different Government Departments and to use such information for computing social and economic indicators of development. No field inquiry was therefore conducted for collection of data for this survey. In fact this was also one of the factors which weighted in favour of keeping taluka as the lowest level of unit for compilation of indicators as the collection of data for a unit below taluka level would necessarily involve large scale fieldwork.

The information for compiling social and economic indicators of development for the Benchmark Survey should relate to the year just preceding the period of commencement of the Sub-Plan. The Tribal Area Sub-Plan being a part of the State Five Year Plan has come into operation from the year 1974-75. The information collected in the present survey, therefore, relates to the year 1973-74. It may however be pointed that the information on a few aspects was not available for the reference year 1973-74. In that case the latest available information has been used for compiling the indicators.

The tribal areas envisaged for development in the sub-plan cover only selected tribal portions of the district having tribal concentration. It would be worthwhile to have a comparative picture of the levels of development in the tribal talukas (as defined earlier) as well as other (non-tribal) talukas of the district. As such a comparative picture in the non-tribal talukas and in the district as a whole, alongwith the indicators for tribal area has also been presented in the report in order to highlight certain important aspects.

Limitations

As mentioned earlier, the taluka which is also geographical unit for the administrative purposes, is taken as a primary unit for collection of data for this report. The entire population of the talukas, however, does not belong to tribal community. A group of tribal population within a taluka would be an ideal unit for preparation of indicators of development for that class of population. In spite of this, the indicators worked out for the taluka as a whole could be considered, for practical purposes, to represent almost a realistic picture of the tribal population which accounts for a larger share of the total population in the taluka. This limitation should, however, be borne in mind while drawing inferences from these indicators. A word of caution is also necessary for the one who is tempted to draw conclusions from these indicators without examining related indicators together.

There is another, important limitation in the preparation of these indicators in the sense that it has not been possible to work out indicators separately for rural areas of a taluka. In fact, it is to be remembered that a number of talukas out of these included for development in the Sub-Plan either do not have any urban towns or have a very small non-tribal urban population in the taluka. As far as the tribal area of Bharuch district is concerned, there is one urban area only in Nanded taluka and the non-tribal urban population is only 14.2 per cent to the total population of the taluka.

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