



**Government of India
Ministry of MSME
District Industrial Potential Survey
Report of Bhavnagar District
(2016-17)**



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FOREWORD

The present economy of any developing nation depends upon the prevailing relationship with World Economic Union and globalised economy of the Developed Nation. Our country's economy is still passing through the concept edge of Developing Nations concept. To boost the present economy and for achieving targeted growth rate, growth of the industries is very important.

For the implementation of various Programmes and Policies, there is requirement of good data base of available resources, basic infrastructure facilities, policies of the Central and State Government. By providing skill development Training and Infrastructure facilities, living conditions of the people may be upgraded and more industries may be promoted.

MSME-Development Institute carries out District Industrial Potentiality Survey Report Annually. This Report provides rich data base about type of the industry, availability of natural resources, infrastructural facilities, skilled man power, market conditions etc. of Bhavnagar district in the State of Gujarat.

Shri Mohammed Arshad, Assistant Director (EI), MSME-Development Institute, Ahmedabad has prepared District Industrial Potentiality Survey Report of Bhavnagar District for the year 2016-17 by using various vital and useful statistics and information collected from the various State Government Departments and Agencies and interaction with Industrial Agencies.

The methodology adopted for the survey reports includes desk survey, documentation of data, reports received from various departments and institutions. I hope that the report will be useful immensely to the concerned entrepreneurs and various agencies for industrial growth in the Bhavnagar District. I extend my heartily thanks to all of the State Government Departments and agencies etc., who have extended their kind co-operation in the preparation of this Report.

AHMEDABAD

JUNE, 2016


(K.H.SHAH)

Dy. DIRECTOR (MECH.)

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12. Dy. Conservator of Forest, Bhavnagar
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15. GIDC, Bhavnagar
16. Directorate of Census Operations, Gujarat, Gandhinagar
17. NABARD, Bhavnagar
18. District Education Office, Bhavnagar
19. Primary Education Office, Bhavnagar
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CHAPTER – I**Bhavnagar District at a Glance**

Sr.No	Particulars	Unit	Statistics
1(A)	Geographical Data		
	i) Latitude	Degree	21.05° to 22.10°North
	ii) Longitude	Degree	71.03° to 72.09°East
	iii) Geographical Area	Hectares	997100
(B)	Administrative Units		
	i) Sub Divisions	Nos.	6
	ii) Tehsils	Nos.	12
	iii) Sub-Tehsil	Nos.	NA
	iv) Patwar Circle	Nos.	15
	v) PanchayatSimitis	Nos.	775
	vi) Nagar Nigam	Nos.	1
	vii) Nagar Palika	Nos.	8
	viii) Gram Panchayats	Nos.	775
	xi) Revenue Villages	Nos.	824
	x) Assembly Area	Nos.	9
2.	Population		As per 2011 Census
(A)	Sex-wise		
	i) Male	Persons	1490465
	ii) Female	Persons	1387496
(B)	Rural Population	Persons	1697808
(C)	Urban Population	Persons	1180153
3.	Agriculture		
A.	Land utilization		2013-14
	i) Total Area	Hectares	857945
	ii) Forest cover	"	26924
	iii) Non Agriculture Land	"	98557
	iv) Cultivable Barren Land	"	59782
B.	Forest		2013-14
	(i) Forest	Hectares	21216.23
4.	Livestock & Poultry Cattle		As per 2012 Census
	i) Cows	Nos.	340063
	ii) Buffaloes	Nos.	334140
	i) Goats	Nos.	199173
	ii) Pigs	Nos.	00
	iii) Dogs & Bitches	Nos.	5373
	i) Length of rail line	Kms.	371
	V) Roads		2013-14
	(a) National Highway	Kms.	109
	(b) State Highway	Kms.	788
	(c) Main District Highway	Kms.	183
	(d) Other district & Rural	Kms.	18
	(e) Rural road/Agriculture Marketing Board Roads	Kms.	124
	(f) Kachacha Road	Kms.	NA

Sr. No.	Particulars	Unit	Statistics	
5	<i>Communication</i>		2013-14	
	(a) Telephone connection	Nos.	45151	
	(b) Post Offices	Nos.		
	(c) Telephone Centre	Nos.	130	
	(d) Density of Telephone	Nos./1000 person	1.83	
	(e) Density of Telephone	No. per KM	4.52	
	(f) PCO Rural	No.	126	
	(g) PCO STD	No.	279	
	(h) Mobile	No.	239533	
6.	<i>Public Health</i>		2013-14	
	(a) Allopathic Hospital	No.	20	
	(b) Beds in Allopathic Hospitals	No.	1895	
	(C) Ayurvedic Hospital	No.	2	
	(d) Beds in Ayurvedic Hospital	No.	120	
	(e) Unani Hospitals	No.	NA	
	(f) Community health centers	No.	17	
	(g) Primary health centers	No.	48	
	(h) Dispensaries	No.	27	
	(i) Sub Health Centers	No.	NA	
	(j) Private hospitals	No.	NA	
7.	<i>Banking Commercial</i>		2013-14	
	(a) Commercial bank	Nos.	184	
	(b) Regional Rural Bank	Nos.	20	
	(c) Co-Operative Bank	Nos.	78	
	(d) Agriculture Bank	Nos.	9	
	(IX) Education		2013-14	
	(a) Primary Schools	Nos.	1063	
	(b) Middle Schools	Nos.	498	
	(c) Sec.&Sr.Secondary School	Nos.	177	
	(d) Colleges	Nos.	98	
	(e) Technical University	Nos.	00	
8.	Industries as on 30.11.2014	No. of units	Investment Rs. in Lacs	Employment
	Micro Enterprises	4235	60963.87	35987
	Small Enterprises	681	117826.87	25161
	Medium Enterprises	22	17642.54	2120

CHAPTER – II

INTRODUCTION

Background, Objective, Scope & Methodology:

The importance of sustainable industrial development for socio-economic development needs no elaboration. The industrial development takes place with the availability of natural, human, mineral resources, etc. However, this will always remains scanty. According to Lionel Robinson in the scarcity definition of economics that “economics is a study of how man manages to satisfy by utilizing scarce resources, which are limited in supply”. One of the principal objectives of planned development has been the regional balance or reduction of disparities among the different regions of the Gujarat State. Removal of regional disparities and all round sectoral development presuppose optimal allocation of resources aimed at equitable growth.

The industrial development of the economy plays pivotal role and small scale industry has been adopted as a policy goal in many countries including India. A key position has been accorded to this sector in Indian Plans for achieving such objectives such as removal of unemployment, decentralized growth, reduction of inequalities etc. The concept of small scale industries was developed basically with the presumption that small scale unit inherently possesses certain economic advantages which justify its existence and if initially given protection from the grabbing and bullying attitude of the large scale sector, economically viable than its large competitor.

For the promotion of industrial development, a number of fiscal incentives are being offered by the Central and State Government. The Financial Institutions are also offering the incentives, after assessing the potentials in relation to human resources and natural endowments for development and facilitate optimum utilization of scarce financial resources by channeling the same into sector with growth potential etc.

It is a recognized fact that mere offering of financial incentives will not be sufficient in promoting industrial development. It is essential to undertake considerable amount of work of identification of prospective industries based on local resources, identification of suitable locations having basic infrastructure facilities etc.

The objective of preparing this report is to document the resources available in Bhavnagar District and the potentials that exist for industrial and economic development of the district.

The report is techno-economic in character rather than a statistical presentation and is intended provisionally for the entrepreneur, government and non-governmental agencies as a tool for planning and programming development activities.

The report is prepared based on both primary and secondary sources apart from exhaustive reference and available literature on the district. The survey included field visits involving data collection from promotional agencies and Government departments.

CHAPTER – III

DISTRICTPROFILE

Location & Geographical Area

Bhavnagar District is situated in South East corner of Saurashtra Peninsula of Gujarat between 21.18° North Latitude and 71.03° to 72.09° East Longitude. It is surrounded by Surendranagar and Ahmedabad Districts on North , Rajkot and Amreli Districts on the west , Arabian Sea on South and Gulf of Cambay on East. It has a Coast line of about 152Kms . It has a geographical area of 9971 Sq. Kms.

Topography

The district is an agro-climatic zone VI (South Saurashtra) and VII (North Saurashtra). The climate of the district varies from hot to moderately hot throughout the year except in winter. The climate is humid along with coastal belt. The maximum temperature of the district is 44.0 degree centigrade while the minimum temperature is 9.0 degree centigrade. The average rainfall of the district is 732 mms brought by south west wind during rain in the district. The rainfall at the main headquarter in the district was registered 732 mms. The entire district receives an equal rainfall. However, Gadhada, Galiyadhar, Botad and Umrataluka receive less than the average rainfall in the district.

Climate and Rainfall

The rainfall of the district depend upon the rainfall from climate. The rainy season of the district is between June to September of the year. The details of last few years showing the total rainfall is reported as under.

SR NO.	TALUKA	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
1	BHAVNAGAR	1371	997	519	999	687	416
2	SIHOR	1070	884	438	936	582	353
3	TALAJA	856	811	374	967	634	354
4	BOTAD	1173	698	335	706	N.A.	19
5	MAHUVA	954	544	494	857	585	259
6	PALITANA	867	694	462	818	667	446
7	GHOOGHA	643	566	251	650	612	532
8	GADHDA	901	735	294	904	N.A.	515
9	UMRALA	1141	712	448	705	465	354
10	GARIYADHAR	643	566	251	650	414	251
11	VALLABHIPUR	1050	680	245	919	594	532

The district is in agro-climatic Zone VI(South Saurashtra)and VII (North Saurashtra).The climate of the district varies from hot to moderately hot throughout the year except in winter. The climate is humid in coastal belt. The Temperature varies from 8.2°C mean daily minimum in January to 46°C mean daily maximum in May.

ADMINISTRATIVE SET UP :

Bhavnagar is the headquarter of the Bhavnagar district. For administrative purpose, the district is divided into 11 strata called blocks or Talukas.

(1)Bhavnagar (2)Sihor (3)Umralla (4)Vallabhipur (5)Botad (6)Ghogha (7)Gariadhar (8)Palitana (9)Mahuva (10)Talaja (12)Gadhada.

Bhavnagar and Vallabhipurtalukas are locally known as 'Bhal' vistar. Palitana and Gariadhartalukas are known 'Khara-pat' vistar.

The District Collector is the overall administrative head. Down below there are various district level officers of the State Government to perform/execute the various regulatory/development functions assigned to them. The DIC is one of such district level office headed by an official of the State Govt. designated as General Manager with whom a number of functional managers work for the promotion and development of industrial and commercial enterprises in the district.

Availability of Minerals :

Important minerals available in the district are Lime Stone, Bentonite, White Clay , Dolomite, Atta Pulgite Diatomaceous earth. Trap Rock etc. Huge deposits of lignite are also available in Ghogha and Bhavnagar Talukas. Commercial production is yet to begin. GIPCL has got the lease and is putting up 375 Mega Watt Thermal Power Station in near future in GhoghaTaluka. The work of power station is yet to be started . NIRMA, GMDC , Gujarat Heavy Chemicals and others have also applied for mining lease of lignite. Two companies have executed lease arrangement and permitted to start project. GHCL has started production of lignite.

Following table shows taluka-wise availability of minerals :

Sr.No.	Name of the Mineral	Taluka	Approximate .Qty
1	Dolomite Clay	Vallabhipur	
2	Lime Stone	Mahuva/Talaja	570 M.T.
3	Black Tape	Entire District	
4	Bentonite	Bhavnagar,Ghogha, Talaja, Mahuva	40 M.T.
5	Lignite	Ghogha	294 M.T.

FOREST

Total area covered under forest is 21216.63 hectares.

The talukawise area under forest is as under :

Sr. No.	Name of the Taluka	Area under Forest (hectare)
1	Bhavnagar	2435.22
2	Sihor	4602.95
3	Talaja	2355.73
4	Botad	902.64
5	Mahuva	2638.45
6	Palitana	3916.29
7	Ghogha	827.94
8	Gadhda	2715.30
9	Umralla	87.45
10	Gariyadhar	72.60
11	Vallabhipur	662.06
	Total	21216.63

CHAPTER – IV

RESOURCES

Industrial development depends upon availability of human resources and material resources like Agriculture, Horticulture, Minerals, Forest, Salt, Fisheries etc. In this chapter, a detailed study of available resources in Bhavnagar district has been covered as given below:

A. HUMAN RESOURCES:

Population and occupational Pattern:

Population as per 2011 Census of Bhavnagar district is as under :

Important Statistics	2001	2011
Persons	24,69,630	28,77,961
Male	12,74,920	14,90,465
Female	11,94,710	13,87,496
Decennial Population Growth rate	19.31	16.53
Density of Population (Per Sq.Km.)	247	288
Sex Ratio	937	931
Rural Population	15,34,592	16,97,808
Rural Population-Male	7,82,227	8,69,714
Rural Population-Female	7,52,365	8,28,094
Urban Population	9,35,038	1,180,153
Urban Population-Male	4,92,693	6,20,751
Urban Population-Female	4,42,345	5,59,402
Literacy Rate	66.20	76.84
Literacy Rate-Male	78.02	86.15
Literacy Rate-Female	53.73	66.92

The total Population of the district is 28.77 lacs as per 2011 Census. Out of the total population of 24.48 lacs, the percentage of male population comes to 51.78 and female population works out to 48.22. The male-female ratio is 931. Out of the total population of Bhavnagar district, there are 16,97,808 rural and 1,180,153 urban. The density of population is 288, the growth rate during 2001-2011 has been 16.53

B. MATERIAL RESOURCES:

Major characteristics of the district in relation to the economic resources are Agriculture, Livestock, Fisheries, Horticulture etc. Economic resources are important means of subsistence for the working people in the district. The details about economic resources of important sectors are given hereunder:

AGRICULTURE :

Agriculture and its allied activities are the main occupation in the district.

1) **Land Utilization Pattern during the year 2013-14 :**

Sr. No	Type of Land	Area in Hectors
1	Forest	26924
2	Land available for cultivation	611494
3	Fallow Land	98557
4	Cultivable Waste	62959
5	Permanent Pastures	61188
6	Trees and Groves	-----
7	Area sown(Kharif, Rabi, Summer)	548535

2) **Cropping Pattern :**

Over the past few years , there is a shift in pattern from groundnut to cotton mainly because cotton is less sensitive to draught situation and it fetches remunerative prices ranging from 2100 to 2500 P.Q. Last year Cotton worth 33 Crore was exported to various Countries and has changed the pattern. Demand for organic cotton. Long staple produced in saurashtra has not only increased in domestic but also in international market, which will increase export of cotton .District is covered under integrated cotton development programme implemented by GOI. The main crops of the district continued to be cotton and groundnut followed by Bajra, Jowar, Seasmum and wheat. Area under cotton crop is 275381 Hectares where as area under groundnut is 136149 Hec. While area Jowar&Bajri is 109707 Hectates. The cultivation of cumin ,seasmum and is also increasing in the district. Value added onion ,Seasame;seed have been identifird for coverage under AEZ by NHB. Total land cultivated in Kharif 2008 was 556450 Hectares while in Rabi was 2013-14, it was 123545 Hectares

The horticulture crops of the district are mango, Pomegranate and Guava. Major plantation crop is coconut. Cultivation of sugarcane is very small area(170 Hectares) in four talukas. Horticulture department has distributed 500 plants of cashew nut and approximate 7000 plants of coconuts to farmers. Scope for medicinal plants and floriculture are there. Area under Vegetables is 34160 Hectare, Fruit 3925 Hectares, Floriculture 240 Hectates. 166491 KISAN Credit Cards have been issued in the district and all fresh finance is covered under KCC. Personal accident insurance scheme is in operation and all farmers are covered under the scheme

3)Statement of crops grown in Bhavnagar district during yr 2013-14.

Sr. No.	Name of the Crop	Area in Hectors	Production(M.T.)
1	Cotton	3010000	1423600
2	Groundnut	131800	270800
3	Sesame	23800	15800
4	Wheat	31700	92900
5	Bajara	50700	127200
6	Total Pulses	12300	9100
7	Onion	36100	982300

4)Agricultural Marketing :

Bhavnagar is one of the major cities in Saurashtra region. City has well developed market system since long. Due to Alang Ship Yard, it has become one of the biggest market for Iron Scrape. Remunerative price for agricultural product is an essential incentive for sustaining agricultural production. A well established regulated marketing system can check unfair trading practices by traders. Agricultural Produce Marketing Committees (APMC) have been constituted at taluka level under Agricultural Produce Marketing Act 1963.

At present, there are 7 regular APMCs functioning in the district , three are stagnant(Vallbhipur&Talaja), one yard is constructes near Botad. Ideally, each taluka should have a market yard. The existing facilities for storage and market yards in the district are considered inadequate which are required to be strengthened.

5) Irrigation :

Bhavnagar district falls under Agro Climatic Zone VI (South Saurashtra) and VII(North Saurashtra). The source of irrigation is the backbone of rural development. Agriculture production can be increased by systematic and efficient exploitation of scarce water resources by providing institutional credit and infrastructure support. It also provides support to other allied activities. As per the latest information .the net irrigated area of the district is 191788 Hac. This is 35% of the net cultivated area(i.e.556450 Hac.)The grossed cropped area is 577006 Hac. Well irrigation covers 116866 Hac.(i.e. 61%) of the total irrigated area whereas canal irrigation covers 64597 Hac., i.e.33% which indicates that canal irrigation is also an important mode of irrigation. Water table is on an average of 85ft. depth. The water available in dams is mostly reserved for drinking purpose. Shetrunji is the only major irrigation project with a command area of 34473 Hec.

Medium irrigation project are Goma, Ranghola, Kalubhar, Sukhbhadar,Malam, Bagad etc. The quality of water throughout the district is suitable for irrigation except along with coastal stretch of Mahuva, Talaja, Ghogha and Bhavnagar. In view of the coastal alluvial deposits, careful and controlled ground water exploitation is required in these areas to prevent further deterioration of ground water reality. Ground water is the major source of irrigation account for 84% of the irreigated area. Recharging of wells and dug-cun-bore-wells is suitable structure for development of ground water. There are 5510 Check Dams irrigating area of 55100 Hac. There are also 242 villlageponds and 635 Percolate Tank and Farm Ponds. During the year, 78 wells and 03 Bore-wells had been charged. State Government provides subsidy @50% for for drip irrigation system. For this, A new company Gujarat Green Revolution co. is established at Baroda . Nationwide rainwater harvesting the scheme for SC/ST farmers with GOI 50% capital subsidy has been introduced and targets of 90 units has been aoolted to the district.

The stage of development of ground water in the district is ranging from 45% (PalitanaTaluka) to 90% (Bhavnagar Taluka). Moreover, watershed development programmes and medium size irrigation projects completed with the financial assistance by NABARD and RIDF will also increase irrigation potentials. NABARD has sanctioned Rs.114 Crores for new 11900 Check Dams. Under RIDF 1201Checkjdams ,12 Minor Irrigation Scheme

including 3 salinity grace projects are completed c. Under the scheme named Sardar Patel Sahabhangi Jal Sanchay Yojna, 5510 check dams are completed. Three central sponsored schemes IWDP, NWDPRA and State Water Shed Development program are implemented in the district.

6) PLANTATION AND HORTICULTURE CROPS:

The district offers scope for horticulture activities especially for onion & garlic cultivation and processing. Bhavnagar, Talaja, Sihor, Palitana and Mahuvatalukas offer major scope for development under this activity. Most of the plantation and horticulture activities covered is under government subsidy schemes (NHB/NHM). The farmers were engaged in cultivation of aromatic, medicinal plants and floriculture but in absence of assured marketing, the projects did not yield the desired results. As such Mango, Chiku, Guava, Pomegranate, Coconut and Lime are the major horticultural crops in the district and therefore district has potential for fruit processing and value added packing projects particularly processing unit for Lime. Further, there is a scope for development of plantation of Guava, Custard Apple, Pomegranate and Amla in the district. The climate of the district is not suitable for sericulture activity, hence there is no sericulture activity in the district.

The tables given below highlights area and production of horticulture crops in the district during 2013-14.

Sr. No	Name of Fruit Crop	Hectare	Production(M.T.)
1	Mango	6500	26510
2	Chiku	2670	24085
3	Lemon	7065	70655
4	Ber	1430	11570
5	Banana	2080	65710
6	Guava	3930	46890
7	Papaya	645	25501
8	Custard Apple	1190	10971
9	Cashew	0	0
10	Pomegranate	506	2004
11	Coconut	3580	32015
12	Other	1358	5288
	Total	30954	321199
Sr. No	Name of Flower crops	Hectare	Production(M.T.)
1	Rose	107	405
2	Merigold	138	644
3	Mogra	2	1
4	Lilly	0	0
5	others	48	256
	Total	295	1303

Sr. No	Name of Vegetable crops	Hectare	Production(M.T.)
1	Brinjal	1844	37510
2	Okra	805	8800
3	French bean	755	5185
4	Cow bean	365	2170
5	Onion	8530	194210
6	Cabbage	1064	24210
7	Cauliflower	635	13870
8	Cucurbits	1407	20147
9	Tomato	1435	31480
10	Other	509.25	5092.5
	Total	17349.25	342674.5
<i>Sr. No</i>	<i>Name of Spice crops</i>	<i>Hectare</i>	<i>Production(M.T.)</i>
1	Cumin	5370	3315
2	Fennel	10	21
3	Garlic	60	210
4	Coriander	110	210
5	Chilly	885	8320
6	Fenugreek	33	73
7	Ajawan	87	87
	Total	6555	12736

LIVESTOCK RESOURCES:

In Bhavnagar district as per 18th Cattle Census conducted in 2007, total Livestock population is 1,140819.

1) Category-wise break-up :

Sr.No.	Name of Species	No.of Animals
1	Cattle	340063
2	Buffaloes	334140
3	Sheep	258267
4	Goa	199173
5	Horse	1336
6	Donkey	1766
7	Camel	310
8	Pigs	366
9	Dogs	3627
10	others	1771
	Total	1140819
	Poultry	1249212

2) Dairy Development :

There are 18 Milk routes covering 169 villages (No. of Mandalies 169). All milk routes are diverted to Ahmedabad District Milk Co.Op. Union(UTTAM DAIRY) as Bhavnagar Dairy is closed from 25th December 1999 because of incurring losses. Private dairies are functioning in the district with Brand Name Gaurav, Rajwadi, etc. Amul Brand milk has also good market in the district. It has come to know that Bhavnagar Dairy is going to start functioning very soon. If it materializes, area for finance to milch –animals will be opened. One Chilling plant is already started at Talaja. Chilling and Packing plant is also started at Sihor which will collect milk around 35000 to 40000 litres a day. NDDB has set out to start dairy at Bhavnagar which has ceased operation since pretty long period. Two Chilling plant at Talaja and Sihor have been started recently. Present procurement of milk is 35000 litres per day which is diverted to Uttam dairy, Ahmedabad

3) Alang Ship Breaking Yard Development :

The Gujarat Maritime Board has allotted 190 plots at Alang and Sosiya. This will facilitate to break more numbers of ships at a time and increase potentialities for re-rolling mills, oxygen plants, transportation etc generating additional employment. Now a days recession is noticed in the industries but Gujarat Government have recently announced the policy to revive and flourish.

4) Views about the development of Animal Husbandry based industries:

Animal Husbandry activities in the district helps to families of all categories viz. landless labourers, marginal and small farmers and major farmers are receiving supplementary income from milk, meat and poultry products. Some families are gaining from sale of milk, wool and meat of Sheep and Goats. Some families are gaining from dockyard and small scale poultry farming. Animal Husbandry also helps all families to provide good/high value nutrition to good animal proteins, vitamins and minerals. This helps to maintain nutritional status of individuals and helps to improve human development index also.

MINERALS :

Bhavnagar district is endowed with mineral deposits. Lime stone, Lignite, Dolomite and Molding Sand are major minerals of the district. Building Stone, Limestone, Black Trap, Ordinary sand, Ordinary Clay, Hard Murom, Soft Murom, Bentonite are minor minerals.

Production of minerals in the district during 2013-14:

Minor Minerals	Production (M.T.)
Limestone	42
Building Limestone	35783
Black Trap	1940184
Ordinary Sand	749655
Hard Murom	76259
Soft Murom	385950
Ordinary Clay	38735
Bricks Clay	18000
Bentonite	307759
Major Minerals	Production (M.T.)
Molding Sand	100
Limestone	1150
Dolomite	6035
Lignite	2497134

FISHRIES :

There are 14 Fishermen Co-Operative societies (Marine 06 + Inland 08) in the district with 1186 members. Total number of Fishermen are 8061 scattered in 19 villages of the district. Total number of Active Fishermen is 1532. (Only those fishermen who are 90% dependent on Fisheries for their livelihood are called active fishermen). As per latest data , there are 181 Engine Boats (Mechanical Boats) and 13 without Engine.(Non-Mechanical Boats). Gin Net 10179, Big Net 9689, Cast Net 318, Hook lines etc. 4891. There are 23 Ice factories having capacity of 111 TDP, 3 Cold storage having capacity of 165 tons and one net making plant having capacity of 120 TDP. Majority of fishermen are in Bhavnagar and Ghogha Talukas. Stockings of Seeds is 1.21 crore(Spawn).The district is rich for marine based industries such as chemicals, salt etc

CHAPTER – V

INFRASTRUCTURE FOR INDUSTRIAL DEVELOPMENT

Infrastructure facilities are pre-requisite for industrial development. The industrialization cannot take place in the absence of infrastructural facilities. The infrastructural facilities include availability of good road, road transport, railway, water, communication, power, technical institutions, industrial estates, banking facilities etc. In Bhavnagar district, the existing facilities are elaborated as under:

Roads :

Good roads are must for Industrialization which in turn facilitate transportation and development of trade and commerce. The development of roads are looked after by different departments in the district. The National Highway is looked after by C.P.W.D. the state highways are looked after by the P.W.D. and roads in the other parts of the district by district Panchayat office.

Category-wise length of roads in the district :

Types of roads	Length of roads in Kms.
National Highways	109
State Highways	788
Major District Roads	183
Other District Roads	18
Village Roads	<u>124</u>
Total	1222

District Roads under Panchayat :

Category	Cement Concrete	Block Top	WBM Mettalled	Earthen	Total Length
M.D.R.	-----	1282.01	7.30	44.10	1333.41
O.D.R.	-----	476.65	41.20	140.00	657.85
V.R.Plan	-----	494.87	37.00	59.60	591.47
V.R.Non Plan	-----	664.26	187.20	789.30	1640.76
Total	-----	2917.79	272.70	1033.00	4223.49

Source :E.E.(R&B), JillaPanchayat, Bhavnagar

INFRASTRUCTURE:

A) **RAILWAY** : Bhavnagar is terminal; station in Western Railway with its Divisional Office at Bhavnagar. The District has 204 Kilometers total length of broad gauge Railway track(EXCLUDING YARDS) with 29 Railway Station . The gauge conversion from meter gauge to broad gauge between Bhavnagar Surendranagar and Alang \PipavavPort(Amreli District) has been completed. Goods train and passengerstrains are available to Mumbai, Kakinada, Passender Train service is also available from Mahuva to Surat via Dhasa Jn.

B) **ROAD & ROADS TRANSPORT**: Bhavnagar district has been linked with state Highway and National highway for convenience to reached the various destination. The total length of metallic roads are 3823 Kms, and Kachcha Road is 985 Kms. All villages are connected with Pucca Road except 2 villages i.e. Liliav (Palitana) and a island.(PiramBet). Most of the village are covered under transportation facility through Gujarat State Road Transport Corporation. There are 507 routes is in operation with 1532 Trips.(1315 Local Trips + 217 Express Buses) . In addition to State Road Transport facility many luxury/semi luxury and other mode of transport are available to reach the various distance. The district is well connected to main business centre viz. Ahmedabad, Vadodara, Surat and Mumbai by Road, rail & Air.

C) **AIR PORT**: In addition to the road transport Bhavnagar city is also connected with Air facility to reach various part of the country. At present Jet Airways is operating their flight as per schedule. Besides, Charter Place facility is also available. it is reported that night landing facility for Aircraft had to be available at Bhavnagar but it could not be done due to some Administrative problems. Primary survey has been carried out to extend the runway for landing and take off.

D) **SEA ROUTE**: Bhavnagar is one of the maritime district of Gujarat having 152 kms. of coastline. The Bhavnagar district has an unique port.it is operated on Lock Gate System which is situated at a distance of 10 Kms. from Bhavnagar city. The sea route of the city is presently used for transportation of goods by Cargo Ships. During the year 2008-2009 goods was imported of 52154 Metric Tones (Value: Rs.14.20 Crores) while there was no Export from the Port. To provide transportation facility for passenger between Bhavnagar to Surat cruise Services is under consideration to decrease the travelling hours between Bhavnagar and Surat.

E) **MILK ROUTE**:Bhavnagar district is formed including 663 villages. The dairy activity assume greater importance in rural areas of the district. There are 18 Milk routes to collect milk from 169 villages which are managed by the sahkariMandli. All milk routes are diverted to Ahmedabad District Milk Co-Op. Union(UTTAM DAIRY). Some of the private dairy is also functioning in the District with Brand Name Gaurav, Rajwadi, etc. Amul Brand milk has also good market in the District. Sarvottam Dairy has revived the dairy sector and good scope exists for value addition of milk and its products. Apart from packaging and processing plant at Sihor two chilling unit at Gadhdha and Thadach with a capacity of 100000 liters plants is also started.

F) **COMMUNICATION**:Itis needless to mention that in a new era communication has played a vital role to join with the world in minutes. Bhavnagar district is facilitated with Post& Telephone facilities. District HQ have STD/ISD facilities. Moreover all Talukacentres and most of villages are also having STD/ISD facilities. All type of communication like mobile phones, Internet, Telephone, Wireless, facilities are available at the district. Communication giants like Air Tel, BSNL, VODAPHONE, IDEA, RELIANCE, TATA have started rendering Mobile communication services.

G) In addition to the other mode of communication to provide postal facilities to the district 01 Head Offices, 58 Sub Post Offices, 02 MukhyaDakGhar, 03 Panchayat Sanchar SevaMandals Plus 349 Post Offices are working in the district to cover all the villages in the District.

Factory Accommodation:

Availability of suitable factory accommodation in the form of industrial sheds is one of the important incentives for setting up of small scale industries. The Gujarat Industrial Development Corporation (GIDC) is providing industrial plots for factory accommodation in the industrial estates as detailed under:

Existing Status of Industrial Areas in the Bhavnagar District

S.No.	Name of Ind. Area	Land acquired (In hectare)	Land developed (In hectare)	Prevailing Rate Per Sqm (In Rs.)	No. of Plots	No. of allotted Plots	No. of Vacant Plots	No. of Units in Production
1	Chitra Industrial Plots	174.35	174.35	750	814	804	10	791
2	Chitra Commercial Plots			2340	12	12	00	6
3	Botad	6	6	395	47	47	00	35
4	Mahuva	18.21	18.21	525	54	54	00	51
5	Palitana	14.14	14.14	265	79	66	13	35
6	Sihor-1	12.45	12.45	265	65	65	00	65
7	Sihor-2	18.71	18.71	465	86	86	00	85
8	Vallabhipur	0.74	0.74	105	7	7	00	1
9	Vartej	78.18	78.18	550	168	168	00	137
10	Vithalwadi	9.19	9.19	2860	146	146	00	146
11	Dhasa	0.93	0.93	200	13	13	00	12

Source :- GIDC Bhavnagar

Power:

Power supply is the chief necessity for the economic development in the district. The main source for the power supply is Gujarat Energy Transmission Corporation Limited. Facilities of electricity have increased considerably in the rural area of the district. All the villages and towns in the district have been electrified for all purpose. Details of sub-stations in Bhavnagar district are as under:

(A) Existing Sub Station for Power Distribution under Bhavnagar District

Sr. No	Name of sub-station	Power transformer (Voltage ratio)	Capacity MVA	Taluka
1	220KV Dhasa	220/66 KV	200	Gadhada
	220KV Dhasa	66/11 KV	20	Gadhada
2	220KV Botad	220/66 KV	100	Botad
	220KV Botad	220/132 KV	100	Botad
	220KV Botad	66/11 KV	5	Botad
3	132KV Paliyad	132/66 KV	10	Botad
	132KV Paliyad	132/11 KV	25	Botad
4	66KV Sanosara	66/11 KV	20	Sihor
5	66KV N'vadar	66/11 KV	20	Palitana
6	66KV Malapara	66/11kv	10	Gadhada
7	66KV Dharwada	66/11 KV	10	Umarala
8	66KV Turkha	66/11 KV	20	Botad
9	66KV Kalatalav	66/11 KV	20	Vallabhipur
10	66KV Botad	66/11 KV	35	Botad
11	66KV Gadhada	66/11 KV	35	Gadhda
12	66KV Lathidad	66/11 KV	20	Botad
13	66KV Lakheni	66/11 KV	25	Botad
14	66KV Hadadad	66/11 KV	20	Botad
15	66KV Tatam	66/11 KV	25	Gadhda
16	66KV Ratanpar	66/11 KV	10	Botad
17	66 KV Jambervala	66/11 KV	10	Babara
18	66 KV Mandavi	66/11 KV	10	Gariyadhar
19	66 KV Bajud	66/11 KV	15	Sihor
20	66 KV Keriya	66/11 KV	15	Botad
21	66 KV Ujalavav	66/11 KV	15	Umralla
22	66kv Rojmal	66/11 KV	15	Gadhada
23	220 KV Otha	220/66 KV	150	Mahuva
	220 KV Otha	66/11 KV	5	Mahuva
24	66KV Otha	66/11 KV	20	Mahuva
25	66KV Bagdana	66/11 KV	25	Mahuva
26	66KV Kadamgiri	66/11 KV	10	Mahuva
27	66KV Mahuva	66/11 KV	35	Mahuva

Sr. No.	Name of sub-station	Power transformer (Voltage ratio)	Capacity MVA	Taluka
28	66KV Vadli	66/11 KV	20	Mahuva
29	66KV MotaKhutavada	66/11 KV	20	Mahuva
30	66KV Vangar	66/11 KV	10	Mahuva
31	66 kvDudhala no 2	66/11 KV	15	Mahuva
32	66KV Datha	66/11 KV	10	Talaja
33	66kv Talajass	66/11 KV	30	Talaja
34	66kv Manarss	66/11 KV	25	Talaja
35	66kv Pthalpuurss	66/11 KV	15	Talaja
36	66kv Thadachss	66/11 KV	20	Palitana
37	66kv Pasviss	66/11 KV	10	Talaja
38	66kv Dihorss	66/11 KV	20	Talaja
39	66kv Tarpajss	66/11 KV	10	Talaja
40	66kv Belampar	66/11 KV	10	Mahuva
41	66kv Bella	66/11 KV	10	Mahuva
42	66KV Jesar	66/11 KV	20	Mahuva
43	66kv Gariyadhar	66/11KV	30	Gariyadhar
44	220KV Vartej	220/66 KV	300	Bhavnagar
	220KV Vartej	66/11 KV	30	Bhavnagar
45	66KV Chitra	66/11 KV	20	Bhavnagar
46	66KV Navagam	66/11 KV	30	Bhavnagar
47	66KV Ghanghli	66/11 KV	60	Sihor
48	132KV Valbhipur	132/66 KV	40	Valbhipur
	132KV Valbhipur	132/11 KV	25	Valbhipur
49	66KV Dhola	66/11 KV	20	Umralla
50	66KV Bhavnagar City	66/11 KV	30	Bhavnagar
51	66KV Sidsar	66/11 KV	20	Bhavnagar
52	66KV Nari Road	66/11 KV	20	Bhavnagar
53	66KV Bunder Road	66/11 KV	30	Bhavnagar
54	66KV Mamsa	66/11 KV	40	Ghogha
55	66KV Tansa	66/11 KV	25	Ghogha
56	66KV Bhumbhali	66/11 KV	20	Ghogha
57	66KV Sihor	66/11 KV	45	Sihor
58	66KV Songadh	66/11 KV	30	Sihor
59	66KV Tana	66/11 KV	25	Sihor
60	66KV Palitana	66/11 KV	30	Palitana
61	220KV Sagapara	220/66 KV	200	Palitana
62	220KV Sagapara	66/11 KV	5	Palitana
63	66 KV Sar	66/11 KV	10	Sihor
64	66 KV Ghodidhal	66/11 KV	10	Palitana
65	66 KV Sardarnagar	66/11 KV	10	Bhavnagar
66	66 KV Motidharai	66/11 KV	10	Vallabhipur
67	66 KV Panvi	66/11 KV	10	Vallabhipur

Communication :

Talukawise Postal facilities available in Bhavnagar district is as under :

Sl	Name of the Taluka	No. of Post Office	6	Palitana	43
1	Bhavnagar	40	7	Ghogha	20
2	Sihor	32	8	Gadhada	42
3	Talaja	56	9	Umralla	24
4	Botad	32	10	Gariyadhar	27
5	Mahuva	64	11	Vallabhipur	23

Telephones:

The fast developed telecommunication has resulted in considerable rise in telephones, fax, mobile phones and internets. . The district Head Quarters have STD/ISD facilities. Besides ,numbers of other centers are also having STD/ISD facilities. Moreover, almost all villages of the district have been linked by STD facility. Mobile communication is rapidly taking place of telephone. Communicationgiants like Air Tel,BSNL, Vodafone, Idea, Reliance, TATA have started rendering operation since pretty long period.

Sr.No.	Taluka	Exchange	Capacity	Working Connections	% of Utilisation
1	Bhavnagar	27	35072	25929	73.93
2	Botad	13	7112	3192	44.88
3	Gadhada	13	7176	1876	26.14
4	Gariyadhar	10	6088	908	14.91
5	Mahuva	16	13296	4253	31.99
6	Palitana	14	8104	2208	27.25
7	Sihor	12	8200	2350	28.66
8	Talaja	14	7920	1710	21.59
9	Vallabhipur	9	2976	1003	33.70

Road Transport:

Transportation facilities are very much essential for socio-economic development of the area. It includes provision of bus facilities for carrying industrial workers from their area to the location of industrial units. The truck carrier facilities in the area are also essential for development of industries because it provides facilities for transportation of raw materials and products from one place to other places. Buses of Gujarat State Road Transport Corporation (GSRTC) ply regularly between different towns and villages in the district. The details of different types of motor vehicles registered as on 31.3.2012 is as under:

The details of different types of motor vehicles registered as on 31.3.2012

	GOODS VEHICLES				PASSENGER VEHICLES										TWO WHEELER					
Financial Year	Truck/Lorries	Tankers	3 Whlrs. Goods Veh.	Other Light Goods vehicles	Buses	Maxi cab	School Bus	Pvt Service Vehi.	Police van	Ambulance	Motor Car/St.Wagon	Taxi	Jeep	Auto Rixa	M.Cycle/Scooter	Mopeds	Tractor	Trailer	Other	TOTAL
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1996-97	2829	273	1725	3669	416	1	25	34	16	71	5318	595	1465	3788	57566	64508	8319	9062	139	159819
1997-98	3047	287	2600	3803	471	6	30	35	17	81	5992	612	1703	4262	64257	71576	9180	9868	159	177986
1998-99	3250	309	3449	3919	492	12	43	47	17	88	6502	632	1859	4786	72184	79485	10010	10710	173	197967
1999-2000	3369	323	6415	1815	531	16	48	50	18	96	7453	637	1996	5270	82120	87250	10515	11260	211	219393
2000-2001	3397	327	6723	1864	532	19	53	56	18	100	8211	661	2081	5568	89044	91203	10871	11626	270	232624
2001-2002	3419	333	7157	1890	556	21	56	56	19	101	8817	658	2199	5811	97178	94323	11115	11858	308	245875
2002-2003	3500	336	7596	2003	609	26	56	56	19	106	9492	680	2240	6196	108280	97208	11314	12018	329	262064
2003-2004	3598	337	8359	2157	686	49	66	58	21	115	10304	698	2288	6847	123212	99946	11497	12244	334	282816
2004-2005	3680	344	9060	2392	780	102	74	60	25	121	11304	732	2296	7406	138398	105405	11786	12458	352	306775
2005-2006	3927	365	9641	2586	820	203	89	64	25	123	12411	750	2294	8051	154829	111163	12365	12894	427	333027
2006-2007	4489	369	10789	2719	843	293	93	69	25	135	13791	789	2304	8792	170861	115081	13115	13777	492	358826
2007-2008	4800	371	11793	2937	898	412	96	79	25	143	15241	821	2304	9387	186636	117726	13992	14547	586	382794
2008-2009	5001	371	12687	3155	917	530	109	78	38	149	16563	867	2304	9803	201870	119706	14970	15268	712	405098
2009-2010	5299	375	13493	3456	963	707	115	78	38	152	18440	930	2304	10109	219353	120871	15820	16125	817	429445
2010-2011	5715	375	14745	3666	1048	914	129	79	38	161	21247	997	2304	10410	245335	122274	16914	17309	984	464644
2011-12	6454	383	15655	4516	1043	1282	141	79	38	170	24605	1072	2304	10992	277163	127800	19379	18180	1232	512488

Educational Facilities :

Bhavnagar District has a separate University having its head quarter at Bhavnagar. University has most of the faculties/colleges. Medical college is started in June 1996.

Healthy facility of educational Institutes supply enriched human force as far as intellectual, technical and skill aspect is concerned.

The infrastructure for educational aspect in academic year 2013-14 is as under :

Sr. No.	Type of School	Nos.	No. of Teachers	No. of Students
1	Primary Schools	1066	9020	320701
2	Secondary Schools	82	660	14108
3	Higher Secondary	796	85459	29571

Technical Institutions & Vocational Training Facilities :

The role of educational and technical training institutes are very much vital for industrial development in the area. The details of technical education available in Industrial Training Institutes are as under.

1. Industrial Training Institute, Bhavnagar :

Sr.No.	Name of the Trade	Seats	Duration(Yrs)
1	Fitter	36	3
2	Machinist	5	3
3	Turner	14	3
4	Foundry Man	7	3
5	Welder(Gas & Electric)	35	2
6	Auto Electrician	3	2
7	Electrician	20	3
8	Lineman	329	3
9	Wireman	13	3
10	Plumber	8	3
11	Tool & Die Maker (Die & Moulds)	1	4
12	Instrument Mechanic	16	3
13	Refrigeration & Air Conditioning Mechanic	13	3
14	Mechanic (Diesel)	62	3
15	Mechanic (Motor Vehicle)	25	3
16	Draughtsman (Civil)	5	3

Sr.No.	Name of the Trade	Seats	Duration(Yrs)
17	draughtsman(Mechanical)	2	3
18	Boiler Attendant	15	3
19	Mechanic	12	2
20	Book Binder	3	2
21	App. Food Pro.(General)	2	1.5
22	House Keeper	4	2
23	Steward	6	3
24	Attendant Operator (Chemical Plant)	74	3
25	Instrument Mechanic (Chemical Plant)	14	3
26	Laboratory Assistant (Chemical Plant)	13	3
27	Pump Mechanic	2	2
28	Electronics Mechanic	4	3
29	Data Prep. & Comp. Software	2	2
30	DTP Operator	2	2
31	Program & System Admin. Assistant	70	1
32	Mechanic Automobile(Advance Petrol Engine)	18	2
33	Mech. Auto (Advance Diesel Engine)	42	2
34	Mech. Auto (Advance Electronics)	5	2
35	Mech.(HT, LT equip. &Cable Joint)	5	2
	Total	887	

2. Industrial Training Institute, Ghogha:

Sr.No.	Name of the Trade	Seats	Duration(Yrs)
1	Electrician	32	2
2	Wiremen	48	2
3	Welder Cum Fabrication	24	1
4	Certificate Course in Software Programming	48	1
	Total	152	

3. Industrial Training Institute, Talaja

Sr No.	Name of the Trade	Total Seats	Duration(Yrs)
1	ELECTRICIAN	38	TWO
2	C.O.P.A	40	TWO
3	WELDER	28	ONE
4	MECH.DIESEL	38	ONE
	Total	144	

4. Industrial Training Institute,Vallabhipur

Sr.No.	Name of the Trade	Seats	Duration(Yrs)
1	Electrician	32	2
2	Wiremen	32	2
3	Armature Motor Rewinding	16	1
4	Certificate Course in Software Programming	48	1
	Total	128	

5. Industrial Training Institute, Sihor

Sr No.	Name of the Trade	Total Seats	Duration(Yrs)
1	FITTER	48	TWO
2	WIREMEN	48	TWO
3	C.O.P.A	40	ONE
4	WELDER	40	ONE
5	MECH.TWOWHEELER REPAIRER	16	ONE
	Total	192	

6.Industrial Training Institute, Palitana

Sr No.	Name of the Trade	Total Seats	Duration(Yrs)
1	FITTER	48	2
2	WIREMEN	48	2
3	C.O.P.A	40	1
4	WELDER	40	1
5	MECH.TWOWHEELER REPAIRER	16	1
	Total	192	

7. Industrial Training Institute,Dhari

Sr.No.	Name of the Trade	Seats	Duration(Yrs)
1	FITTER	32	TWO
2	WIREMEN	32	TWO
3	C.O.P.A	40	ONE
4	MECH.DIESEL	40	ONE
	Total	144	

8. Industrial Training Institute, Mahuva:

Sr.No.	Name of the Trade	Seats	Duration(Yrs)
1	Fitter	48	2
2	Refrigeration & Air Mechanical	48	2
3	Electrical	48	2
4	Wire Man	48	2
5	Welder	36	1
6	Mechanic Diesel	48	1
7	COPA	40	1
8	Marine Eng. Techno	32	1
9	Cutting Sewing	32	1
10	Amar char Motor Rewinding	32	1
11	Two Wheeler Auto Repair	32	1
12	Plumber	16	1
13	Auto KD2000	24	1/2
14	Mehsan	16	13
15	Carpenter	16	1
	Total	516	

9. Industrial Training Institute, Botad:

Sr.No.	Name of the Trade	Seats	Duration(Yrs)
1	Fitter	48	2
2	Electrician	48	2
3	Mechanic Diesel	48	1
4	Welder (Gas & Electric)	24	1
5	COPA	40	1
6	Certificate Course in Software Programming	48	1
	Total		

10. Shri K.K. School & Home for the Blind Trust, Bhavnagar

Sr.No.	Name of the Trade	Seats	Duration(Yrs)
1	Electric Motor Rewinding	13	1
2	Cane, Nylon & Coir Work	13	1
3	COPA	10	1
	Total	36	

Employment Exchange:

Employment Exchange is the main linkage between employer and the unemployed youth for their placement and vocational guidance.

Tables given below highlights the working of Employment Exchange.

(A) Details of persons registered in the Employment Exchange as on 31.3.2014

Sr. No.	Educational Level	Men	Women	Total
1	SSC	80	5	85
2	HSC	107	33	140
3	B.Sc.	4	-	4
4	B. Com.	9	7	16
5	B. A	29	17	46
6	B.E.	-	-	-
7	Diploma Holders	19	8	27
8	Artisans(Tech) ITI Trade Holder	70	6	76
9	Others	16	3	19
Total		334	79	413

(B) Working of Employment Exchange

Sr. No.	Year	Registration during the year	No. of live registration during the year	No. of live registration during at the end of the year	No. of vacancies notified during the year
1	2	3	4	5	6
1	2004-05	7375	---	---	2546
2	2005-06	8001	---	---	4009
3	2006-07	7754	---	---	4920
4	2007-08	11671	---	---	6010
5	2008-09	11607	---	30941	6029
6	2009-10	14926	---	31419	8590
7	2010-11	13884	---	29524	11463
8	2011-12	13314	---	26802	9761
9	2012-13	12698	---	28842	6206
10	2013-14	13090	---	29332	7661
	Total	115320	---	310858	67195

Banking & Finance:

Finance is the most important item for industrial development to meet the financial need of Bhavnagar district. A large number of banks are functioning under the lead bank scheme of Reserve Bank of India. State Bank has been assigned the role of coordinating the activities of various financial institutions for the development purpose of the district. It has so far prepared a number of action programme embracing all economic activities. The growth of financial institutions in any region is an important indicator of economic development and progress of that region. The capacity of people to generate and save money has a direct bearing on their economically being. This is reflected in the volume of operations handed by the various financial institutions operating in that area.

CHAPTER – VI

PRESENT INDUSTRIAL STRUCTURE**MSME Act 2006 :**

Since the land is limited , industry provides alternative activities for economic development of the district. The district administration is attracting new entrepreneurs through various benefits of cash subsidy, tax exemptions concessional rates of interest and other liberalized terms and conditions. This has provided very good opportunities for industrialization of the district.

The New MSME Act -2006 came in to force from 02.10.2006 by central Government. The earlier concept of 'Industries' has been changed to 'Enterprises'.

Enterprise have been classified broadly in to :

- (a) Manufacturing Units (b) Service Sector Units

Manufacturing Enterprises have been defined in 3 categories in terms of their Investment in Plant & Machinery (excluding Land & Building).

Sr No.	Category-Type of Units	Investment in Plant & Machinery
1.	Micro Enterprise	Up to Rs. 25 Lacs
2.	Small Enterprise	More than Rs.25 Lacs & up to Rs. 5 Crore
3.	Medium Enterprise	More than Rs.5 Crore & up to Rs. 10 Crore

Service Enterprises have been defined in 3 categories in terms of their Investment in equipment (excluding Land & Building).

Sr No.	Category-Type of Units	Investment Equipment
1.	Micro Enterprise	Up to Rs. 10 Lacs
2.	Small Enterprise	More than Rs.10 Lacs & up to Rs. 2 Crore
3.	Medium Enterprise	More than Rs.2 Crore & up to Rs. 5 Crore

YEAR WISE TREND OF UNITS REGISTERED

	YEAR	NUMBER OF REGISTERED UNITS	EMPLOYMENT	INVESTMENT (Lakh Rs.)
Upto	1998 to 2003-04	9651	47291	25065.45
	2004-05	192	1153	1866.55
	2005-06	191	775	1250.78
	2006-07	152	3257	12143.59
	2007-08	246	5097	11507.89
	2008-09	333	5301	7836.44
	2009-10	331	6143	11183.65
	2010-11	438	7645	9201.28
	2011-12	903	5685	10379.15
	Total	12437	82347	90434.78

Source : DIC Bhavnagar

EXISTING MICRO & SMALL ENTERPRISES & ARTISAN UNITS IN THE DISTRICT

NIC CODE No.	TYPE OF INDUSTRY	NUMBER OF UNIT	INVESTMENT (Lakh Rs.)	EMPLOYMENT
20	Agro based	386	1284.70	1974
22	Soda water	58	186.14	288
23	Cotton Textile	2094	6640.73	10506
24	Woolen, silk & artificial Thread based clothes	40	120.05	208
25	Jute & Jute based	---	---	---
26	Ready-made garments & embroidery	76	189.61	326
27	Wood/Wooden based furniture	507	632.72	2555
28	Paper & Paper products	150	4641.00	744
29	Leather based	138	429.94	626
31	Chemical/Chemical based	101	30.66	4477
30	Rubber, Plastic & Petro based	555	3328.95	2787
32	Mineral based	495	1483.44	2438
33	Metal based (Steel Fab.)	1358	2728.91	6781
35	Engineering units	342	303.68	840
36	Electrical machinery and transport equipment	172	140.67	660
97	Repairing & servicing	638	1833.58	10866
01	Others	1665	1680.91	49587
	Kachori Making	---	---	---

Source : DIC Bhavnagar
Groupwise Registration of SSI Units

Sr. No.	Group of Industries	No. of Unit	Investment (Rs. In Lacs)	Employment
1	Food Products	3	1284.70	1974
2	Beverages, Tobacco & Tobacco Products	386	186.14	288
3	Cotton Textiles	58	6640.73	10506
4	Wool, Silk & Synthetic Fiber Textiles	2094	120.05	208
5	Hosiery & Garments	40	189.61	326
6	Wood Products	76	632.77	2555

7	Paper Prod. & Printing	507	464.00	744
8	Leather Products	150	429.94	626
9	Rubber & Plastic Industries	138	3328.95	2787
10	Chemical & Chemical Industries	555	8530.66	4477
11	Non-Metallic Mineral Products	1016	1483.44	2438
12	Basic Metal Products	495	2728.91	6781
13	Metal Products	1358	438.34	940
14	Machinery& Parts except Electricals	327	303.68	840
15	Electrical Machinery & Apparatus	342	140.67	660
16	Transports Equipments& Parts	172	42.08	332
17	Misc. Manufacturing Industries	83	174.60	2239
18	Repair Services	448	158.98	8771
19	Other Industries	170	1680.91	2095
	Total	10080	28959.16	49587

Talukawise Registration of SSI Units

Sr. No.	Taluka	Regd.Units Up to Mar 2005	Unit regd. during 2005-06	Cum.Total Upto Sept.2006	Investment (Rs.InLacs)	Employment
1	Bhavnagar	150	4433	4460	9956.75	19551
2	Sihor	14	1215	1266	4941.93	5674
3	Talaja	08	355	356	2540.55	3087
4	Mahuva	05	1529	1532	3615.95	6441
5	Botad	02	642	643	1996.75	3979
6	Ghogha	08	217	270	2298.24	1996
7	Palitana	04	556	557	1359.49	2888

8	Umralla	01	323	323	240.37	1589
9	Vallabhipur	---	128	133	232.16	859
10	Gadhda	--	318	319	1184.07	2112
11	Gariyadhar	--	220	221	592.90	1411
	Total	192	10036	10080	28959.16	49587

Micro, Small & Medium Enterprises

Government of India under the Ministry of Micro, Small and Medium Enterprises have in October,2006 enacted Micro, Small and Medium Enterprises Development Act 2006. Under the Act Micro, Small and Medium Enterprises are classified as under:

Enterprises	Investment in Plant & Machinery (Manufacturing)	Investment in Equipment (Service)
Micro	Up to Rs.25 lakh	Upto Rs.10 lakh
Small	Above Rs.25 lakh up to Rs.5 Crore	Above Rs.10 Lakh up to Rs.2 Crore
Medium	Above Rs. 5 crore up to Rs.10 crore	Above Rs. 2 crore upto Rs.5 crore

The small and medium enterprises as classified above, are required to file Entrepreneurs Memorandum (EM) Part-I to District Industries Centre for starting an industrial project. On completion of the project, the entrepreneur concerned is required to file Entrepreneurs Memorandum (EM) Part-II. Earlier there was a system of granting registration to small scale industrial units by the District Industries Centre. These units are now required to file EM Part-II as Micro, Small or Medium enterprises as classified above. Over a period of time, Gujarat has registered a sizeable growth of SME sector.

Following the enactment of the MSME Development Act from 2.10.2006, registration of all the MSMEs came within the purview of the Industries Commissioner ate.

Following tables presents the details of the of MSMEs Registrations in Bhavnagar District from 2-10-2006 to 30.11.2014

(A) Progress in Micro Enterprises Registration :

Year	No of Regd. Units	Investment(Rs.InLakhs)	Employment
02.10.2006to 31.03.2007	96	1761.50	1360
2007-08	182	2502.32	1564
2008-09	256	3457.30	3441
2009-10	255	12092.12	3592
2010-11	356	6166.21	4634
2011-12	811	9161.46	5409
2012-13	1121	10570.03	5932
2013-14	667	6886.09	5866
1.4.14 to 30.11.14	491	8366.85	4189
Total	4235	60963.87	35987

Details year wise MSME's unit registered under (MSMED Act)

YEAR	MICRO			SMALL			MEDIUM		
	Units Regd	Invest ment	Employ ment	Units Regd	Invest ment	Employ ment	Units Regd	Invest ment	Employ ment
2006-07	96	1761.50	1360	52	9618.76	1529	2	1691.38	253
2007-08	182	2502.32	1564	57	8342.96	2132	7	6055.93	1401
2008-09	266	3457.30	3441	66	10309.45	1830	1	591.15	30
2009-10	255	12092.12	3592	71	9369.31	2536	5	3125.00	15
2010-11	356	6166.21	4634	82	11790.80	3011	0	0.00	0
2011-12	811	9156.46	5409	92	21432.25	2341	0	0.00	0
2012-13	1121	10570.03	5932	75	13823.40	1828	2	1475.20	147
2013-14	667	6886.09	5866	120	21178.62	2520	2	1862.53	179
2014-15	847	12568.51	6509	103	17094.29	6984	6	5868.62	354
2015 up to 30/11/15	2045	32417.23	9480	124	21898.61	2896	6	5324.62	231

(B)Progress in Small Enterprises Registration :

Year	No of Regd. Units	Investment(Rs.InLakhs)	Employment
02.10.2006to 31.03.2007	52	9618.76	1529
2007-08	57	8342.96	2132
2008-09	66	10309.45	1830
2009-10	71	9369.31	2536
2010-11	82	11790.00	3011
2011-12	92	21432.25	2341
2012-13	75	13823.40	2728
2013-14	120	21178.62	2558
1.4.14 to 30.11.14	66	11962.12	6496
Total	681	117826.87	25161

(C)Progress in Medium Enterprises Registration :

Year	No of Regd. Units	Investment(Rs.InLakhs)	Employment
02.10.2006to 31.03.2007	2	1691.38	253
2007-08	7	6055.93	1401
2008-09	1	591.50	30
2009-10	5	3125.00	15
2010-11	0	0	0
2011-12	0	0	0
2012-13	2	1475.20	147
2013-14	2	1862.53	179
1.10.14 to 30.11.14	3	3041.00	95
Total	22	17842.54	2120

Talukawise Distribution of Micro, Small And Medium Enterprises :

Sr. No.	Name of the Taluka	No. of Units	Investment (Rs. In Lacs)	Employment
1	Bhavnagar	1665	22434.50	18802
2	Sihor	186	11412.49	4744
3	Talaja	113	5401.48	3643
4	Mahuva	169	10377.05	4136
5	Botad	78	14190.69	894
6	Ghogha	18	1280.45	300
7	Palitana	22	381.45	282
8	Umralla	4	6.80	12
9	Vallabhipur	8	9.16	47
10	Gariyadhar	17	201.87	152
	Total	2280	65695.94	33402

Details of Industrial Co-op.Societies Regd in District as on 31.3.14

Sr.No.	Type of Industrial Co-operative Society	Total Nos. Registered
1	Weavers	49
2	Leather Tanning	21
3	Clay Industries	--
4	Oil Mill	01
5	Handicrafts	--
6	Color Painting	--
7	Woolen Galicha	--
8	Printing	--
9	General Engineering	--
10	Salt	08
11	Film Soc.	--
12	Building Construction	--
13	Carpentry & Bamboo	--
14	Women Co-operative Society	25
15	Others	78
	Total	782

Large , Medium and Small Scale Industries :

Ship Breaking is the largest industry in the district. At present, there are 190 Plots at Alang and Sosiya for Ship Breaking Activity. It is the largest Ship Breaking Yard in Asia. Total tonnage broken up to March 2009 comes to 30634131 Metric Tonnes. So far 4790 Ships have been broken. It employs about 30000 employees. Down Stream Industry to Ship Breaking Industry is Rolling Mills and Induction Furnace. There are 121 Re-Rolling Mills registered in Bhavnagar District with an installed capacity of 8.19Lacs Metric Tonnes per annum. Total investment in these industries comes to Rs. 124 crores with an total direct employment of 12000 workers. Out of 121 mills, only 58 are working and 69 are closed. Industrial oxygen is the second activity related to Ship Breaking Industry. There are 137 Units registered and engaged in this activity with an investment of Rs. 150 Crores and provides about 5000 direct employment. Turnover under this activity has mounted to Rs. 65 Crores. At present , only 15 units are working.

There are about 73 Medium and Large Scale Industry out of which 29 units are closed and 44 units are working carries investment 1317.71 Crores and provides 8472 direct employment. Most of these Medium and Large Scale Industries are located in Bhavnagar, Sihor, Mahuva, Ghogha and TalajaTalukas.

Besides Ship Breaking industry, second largest small scale and cottagescale industry is diamond cutting and polishing which provides employment to 74000 employees approximately and 927000 carats of diamonds are polished every year. This sector is totally unrecognized. In Bhavnagar district, at present , there are 4340 units engaged in diamond cutting and polishing. Investment in the industry is about Rs. 1898 Lacs.

Other Important small scale industries are Mini steel Plant, Manufacturing of Textile product. Plastic , Carpentry , Furniture, Food Products etc. Besides this small scale industries , some medium and large scale projects are also coming up for manufacturing of M.S.Ingots, Liquid oxygen gas, Portland cement, disilled water and soda ash in 6 talukas. Scope for setting up of cattle feed units are there in the district.

Bhavnagar is also an emerging hub for cement, Gypsum and food processing industries. The cement and Gypsum sector alone attracted investments to the tune of USD 0.40 billion in the last decade, while the food processing industry has grown 250 times and has gained investment worth USD 19 million.A whopping 87 % of investment in Bhavnagar has been witnessed in the infrastructure.

Medium Scale Enterprises

List of the units in Bhavnagar & Near By Area

- 1) M/s Anan Drug & Chem Ltd. Navagam (Kardej), Bhavnagar
- 2) M/s Inarco Limited , Bhavnagar
- 3) M/s Hi-Tech Investment Castings, GIDC Ghanghali Road, Sihor.
- 4) M/s Megha Insulations Pvt. Ltd. Ghanghali , Sihor, Bhavnagar
- 5) M/s Tamboli Castings Ltd. Vartej, Bhavnagar
- 6) M/s Industrial Jewels Pvt. Ltd. Bhavnagar
- 7) M/s Hans Industries Pvt. Ltd. Ghanghali , Sihor, Bhavnagar
- 8) M/s Ruparel Polystyrene Pvt. Ltd. Bhavnagar
- 9) M/s Vinay Industries Ltd. Bhavnagar
- 10) M/s Saurashtra Calcine & Bauxite Allied Ind. Ltd. Bhavnagar
- 11) M/s Lucky Cold Storage Bhavnagar`
- 12) Silica Pvt. Ltd, 40, GIDC, Chitra,, Bhavnagar
- 13) V.T. Foods Pvt. Ltd, Survey No.1, Savarkundla Road, Nesvad.
- 14) Anan Drug & Chem Ltd,, Navagam ,Kardej, Bhavnagar

Large Scale Industries/Public Sector Undertakings

1. Aquagel Chemicals Pvt. Ltd.
2. Investment & Precision Casting Ltd.
3. Bhavani Gems
4. Madhav Industries Ltd.
5. Excel Crop Care Ltd.
6. Madhu Silica Pvt. Ltd.
7. Skylink Chemicals Pvt. Ltd

Major Exportable Item

Onion & other dehydrated product, Silica , Tooth Past

Growth Trend

Ship Breaking is the biggest industry in the district. At present ,there are 190 Plots at Alang and Sosiya for Ship Breaking Activity. It is the largest Ship Breaking Yard in Asia.Total tonnage broken up to March 2009 comes to 30634131Metric Tonnes. So far 4790 Ships have been broken . It employs about 30000 employees . Down Stream Industry to Ship Breaking Industry is Rolling Mills and Induction Furnace. There are 121 Re-Rolling Mills registered in Bhavnagar District with an installed capacity of 8.19 Lacs Metric tonnes per month. Total investment in these industries comes to Rs. 124 crores with an total direct employment of 12000 workers. Out of 121 mills. Only 58 are working and 69 are closed .Industrial oxygen is the second activity related to Ship Breaking industry. There are about 137 Units registered and engaged in this activity with an investment of Rs 150 crores and provides about 5000 direct employment. Turnover under this activity has mounted to Rs. 65 Crores. At present, only 15 units are working.

In Bhavnagar district, up to 31.03.2009, there are 10080 Registered small scale units involving investment of Rs .282 crores in the sectors which includes textiles, chemicals, engineering, glass & ceramics and wood products. There are 8760 running units that provide 49587 direct employment .

Besides, ship breaking industry, second largest small scale and cottage industry is diamond cutting and polishing which provides employment to 74000 employees approximately and 927000 carats of diamonds are polished every year. This sector is totally unrecognized. In Bhavnagar district , at present ,there are 4340 units engaged in diamond cutting and polishing. Investment in the industry is about Rs. 1890 Lacs.

Bhavnagar is also an emerging hub for cement, Gypsum and food processing industries. The cement and Gypsum sector alone attracted investments to the tune of USD 0.40 billion in the last decade, while the food processing industry has grown 250 times and has gained investment worth USD 19 million.

A whopping 87 % of investment in Bhavnagar has been witnessed in the infrastructure

Vendorisation/ Ancillarisation of the Industry

Considering the requirements of medium/large scale industries in the district, there is a wide scope for manufacturing of following products.

- 1) M.S. Pipes & Fittings
- 2) S.S. Pipes & Fittings
- 3) M.S. Bolts & Nuts
- 4) S.S. Bolts & Nuts
- 5) V. Belts
- 6) Oil Seals "O" Rings Rubber parts
- 7) Structural Steel
- 8) Fuel and Lubricants
- 9) Fabrics
- 10) Tissue Papers
- 11) Printer Cables
- 12) Stickers
- 13) Buttons
- 14) Elastic
- 15) Buckets
- 16) Needles
- 17) Zipper
- 18) Hangers
- 19) Hooks
- 20) Laces
- 21) Electrical Items
- 22) M.S. Fabricated Items
- 23) M.S. Electrodes
- 24) S.S. Electrodes
- 25) Hardware Items like Nuts, Bolts, Washers, Nails etc.
- 26) Pipes & Fittings, Elbow, Bend, T etc
- 27) Phenyl, Tiles cleaners, Acids
- 28) Wire ropes & other lifting materials
- 29) Refractories
- 30) Adhesives
- 31) Sulphur
- 32) Hand Gloves
- 33) Dry Chemical Powder
- 34) Lubricating Oil
- 35) Grease
- 36) Cotton Waste
- 37) Stapler pin, U-Pin etc.
- 38) Soap stock

Other important small scale industries of the district are Mini Steel Plant, Manufacturing of Textile product, Carpentry, Furniture, Plastic, Food products etc. Besides this, small scale industries, some medium and large scale projects are also coming up for manufacturing of M.S. Ingots, Liquid oxygen gas, Portland cement, distilled water and soda ash in 6 talukas. There are 11 industrial estates in the district. Scope for setting up of cattle feed units are there in the district.

Cluster Development :

The development of small and medium enterprises has taken place in the form of different industrial clusters. There are, in all 83 industrial clusters for different industry groups have been identified in the state, developed at a number of different locations. The approach of cluster-based development has helped in improving cost competitiveness of the industries by way of creating common facilities, developing market centers and brand names, promotion of skill.

Important industrial clusters identified in Bhavnagar district is Re-rolling Mills Bhavnagar. The State Government has taken initiatives to extend support for further strengthening this cluster through interventions such as technology up-gradation, quality improvement, setting up of common facility centers, skill development facilities, etc. with the active assistance of R&D institutions, as well as industry associations.

Under the scheme, currently above cluster has been taken up for further development through various institutions viz.GITCO.

General Issues raised by industry associations :

The utmost problem is very low awareness in MSMEs about government schemes and subsidies because of lack in corporate governance or due to communication system of the government itself. There are lots of incentive schemes and packages especially designed for MSMEs but most of the entrepreneurs remain unaware of it.

Lack of skilled human resources has also affected the sector at noticeable level. Technology intervention is still very low in the sector . Artisans and weavers still have been remained unaware or latest designs and current market trends. They continue to manufacture products with old designs which fail to generate consistent demand in consumer markets. There is still huge gap among the household unit owners / weavers/ artisans and the designers/ engineers. There is immense need to encourage engineers and fashion designers to work out with these small unit's owners , weavers, designers which would be mutually beneficial and help revive the sector and make it globally competitive. Information dissemination about availability of recent technologies ,literature on modern machinery , contact details of suppliers of raw materials ,buyers etc. are very essential for the MSMEs.

Another ,major problem is related to payment durations normally faced by the MSME entrepreneurs .Mostly they are causing delay in payments and bed debts which causes trouble in the working capital ratio. Low credit period provided by the suppliers and on the other side late payment made by the customers also creates imbalance in the working capital.

One of the major concerns is low credit availability to the MSMEs .Though, credit to MSMEs fall under the category of priority sector lending . but with the expansion of the priority sector lending to accommodate fast growing areas such as home loans, education loans ; the percentage share of credit to MSMEs have been fallen down. There is strong need to increase the target of commercial bank lending to MSMEs from 20 % year on year to 30 % which will enhance facilities to MSMEs.

CHAPTER VII

NEW INDUSTRIAL POSSIBILITIES

Introduction :

The Industrial Potentialities of an area would be related to (a) The resources of the area or (b) the local Demand or (c) some special conditions obtained in the area. The first two sources of Industrial potentialities are self-explanatory. The third source of Industrial Potentialities as mentioned above relates to factors which do not have universal applicability but, special to a particular area. These factors may be (a) historical accident (b) product oriented infrastructural facilities and so on.

Bhavnagar district offers good scope for entrepreneurs to establish new industrial units for manufacturing various products. Human resource particulars of skilled labourers are essential. Entrepreneurial talent among the local people to harness the resources is also considered to be the important factor. Material resources such as agriculture, horticulture, livestock ,minerals ,forest etc. should be taken in to consideration.

Infrastructure plays an important role in the industrial development of an area. The industrial development is an ongoing process. The development of infrastructure is also very essential and should be a continuous process. The industries have been suggested on resources available in the area. Agro based industries, Livestock based industries as well as mineral and marine based industries have good scope. In addition, many market oriented items can also be taken in the district

I RESOURCE BASED INDUSTRIES**(A) Food Processing & Agro Based Industries:**

The district has very fertile land for agriculture. Groundnut being the major produce , value addition products on the same could also be explored. Besides groundnut, cotton, sugar cane,wheat,sesame,castor are the major crops.

Therefore, following Agro-based and Food Processing industries have scope in the district.

Sr. No.	Description	NIC- 2004 Code
1	Fruit Canning	15137
2	Rice Mill	15312
3	Oil Mill	15141
4	Pickles	15136
5	Pulse Mill	15313
6	Sugar Mills	15421
7	Paper Mill/Printing Press	22211
8	Fruit Juices & Squashes	15134
9	Caster Oil	15142
10	Cattle Feed	15331
11	Namkeen	15316
12	Biscuits	15412
13	Dal Mill	15313
14	Tuti Fruity from Papaya	15134
15	Bakery	15419
16	Instant Mix e.g. GulabJamun mix, DahiVada mix etc.	15318
17	Mango Juice	15134
18	Mango Powder	15134
19	Besan Mill	15311
20	Groundnut Roasting	15492
21	Groundnut Oil	15142
22	Ice Cream	15205
23	Spice Powder	15134
24	Mamara/pova	15319
25	Pop Corn	15497
26	Potato Wafer	15499
27	Onion and Garlic Dehydration	15132
28	Dhana Dal	15313
29	MakaiPoha	15315
30	Papad	15496

(B) Mineral based Industries :

The minerals are the main stay resources in the district and the backbone of the economy of the district. Many industries like cement, white cement etc. have been developed in the district particularly in the large scale sector providing employment to hundreds of people in the district.

Sr. No.	Description	NIC- 2004 Code
1	Stone Crushing	14106
2	Bricks	26933
3	Quarry Stone	14102
4	Mining, Querying & Grinding of Lignite	10203
5	Off Shore Extraction of Petroleum	11101
6	On Shore Extraction of Petroleum	11102
7	Off Shore Extraction of Natural gas	11103
8	Mining of Aluminum ores	13203

After utilization of these resources by the present industries, scope exists for their further utilization in the district for various industrial purposes. The following mineral based industries have potentialities for development in the district.

The district has been witnessing growth in industrialization especially in talukas like Rajula and Jafrabad. Babrais another taluka where potential is available for granite. The district is endowed with natural resources like minerals especially lime stone and a costal line with port facilities.

(C) Live Stock based industries

Sr. No.	Description	NIC- 2004 Code
1	Bone Mill	15331
2	Tannery Industry	19113
3	Poultry Farm	01222
4	Leather Footwear	19201
5	Leather Decorative Items	19122
6	Toys and Handicrafts from horns	19129
7	Wall Works	19129
8	Dairy	15201

(D) Forest based Industries

Sr. No.	Description	NIC- 2004 Code
1	Saw Mill	20201
2	Wooden Furniture	36101
3	Handicrafts	17132
4	Herbal Plantation	01117
5	Wooden tools	20299
6	Plywood Chests	20232
8	Mosaic Tiles	26921
9	Emery Powder	14292

(E) Marine based Industries

Sr. No.	Description	NIC- 2004 Code
1	Iodized Salt	24298
2	Salt Cake	14222
3	Salt mining	14221
4	Salt common	24298
5	Salt Crystal	24298
6	Salt Rock	14221
7	Canning of Fish	15124

(F) Plastics

Sr.No.	Description	NIC- 2004 Code
1	PVC Doors & Windows	25209
2	Storage Water Tank	25209
3	Injection Moulded Items	25206
4	LDPE / HDPE Film Bags	25204
5	PVC Reinforced Suction Pipe	25209
6	Polyphone Bags	25204
7	Plastic Toys	36941
8	Surgical and Industrial Gloves	33115
9	Electrical & Electronics Accessories Parts	25209
10	Fishing Nets	17235
11	Nylone Monofilament Yarn	17114
12	Rigid Polyethene Pipes	25209

G. Pharmaceuticals:

Sr. No.	Description	NIC- 2004 Code
1	Pharmaceutical Tablets	24231
2	Metronidazole Bulk Drug	24231
3	Vitamin Mixes	24231
4	Ayurvedic Medicines	24233
5	Metronidazole Bulk Drug	24232
6	ChloroquinDiphosphate	24119

H. Electronics Items:

Sr. No.	Description	NIC- 2004 Code
1	Uninterruptable Power Supply (UPS)	31200
2	S.S.B. Modulators for Cable T.V.	31300
3	Quartz Wall Clock	33101
4	Electronic Gas Lighters	31901
5	Kisan Torch	31506

I. Electrical Engineering Items:

Sr. No.	Description	NIC- 2004 Code
1	Power Transformers	31101
2	PVC Cable & Wires	31300
3	Metal Boxes	29295
4	Auto Electric Horn	31907
5	Metal Tank for Power Transformers	29295
6	Tube Light Starters	31901
7	Electric Chokes	31506
8	Electric Motor (up to 10 H.P.)	3113
9	Diesel Generator Set	31103
10	Submersible Pumps	29121
11	Tube Light Metal Fixtures	31109

J. Glass & Ceramics:

Sr. No.	Description	NIC- 2004 Code
1	Mirror Glass	26109
2	Flooring Tiles	26933
3	Decorative Ceramic wares	26107
4	Crockery ware	26105
5	Sanitary ware	26914
6	Window Glass	26109
7	Glazed Tiles	26933
8	Ceramic pipes	26921

K. Chemical & Allied Products:

1	Di – Phenyl Oxide (DPO)	24119
2	Soft Drink Concentrates	24293
3	Aluminum Chloride	24117
4	Tartaric Acid	24116
5	Sodium Bisulphate	24117
6	Epoxy – Polyamide Resin	24229

Sr.No.	Description	NIC- 2004 Code
7	Vinyl Sulphate	24119
8	Synthetic Iron Oxide	24113
9	Bisphenol – A	24119
10	Bon Acid	24116
11	Mono Chloro Acetic Acid	24112
12	Benzol Acid and its salts	24112
13	Liquid Oxygen	24111
14	Pesticides	24219
15	Resin, Varnish * Paints	24222
16	Petrchemicals	23209
17	Caustic soda Flakes	24117

L Mechanical Based Items:

Sr. No.	Description	NIC- 2004 Code
1	Industrial Vales	29121
2	Reduction Gear Boxes	29131
3	Automobile Springs Coal Spring	29121
4	Executive & Conference Chair	36102
5	Pressure Gauges	29121
6	Metallic Filters for Industrial Use	28999
7	Piston Rings	29121
8	Injection Moulding Machine	29295
9	Ball Bearings	29131
10	Refrigeration & Air Conditioning Equipments	29303
11	Dry Cell Batteries & Storage Batteries	31404
12	Air & Gas Compressors	29121
13	Steel Rolling Mills	29243
14	Water Coolers	29306
15	M.S.Wiremesh	27182

II DEMAND BASED INDUSTRIES

As Bhavnagar district is rich in agriculture, there is enough scope for manufacturing agricultural implements and items as detailed under industry wise :

1. Agriculture Implements:

There has been all round emphasis on the development of agriculture during the Five year Plan. As a result, farmers are going for mechanized methods of farming and demand for agricultural implements is increasing day by day. There is scope for new units in this in view of rising trend in the use of these implements. Major Agriculture Implements based industries are as under

Sr. No.	Description	NIC- 2004 Code
1	Harvestor	29110
2	Dusters	29211
3	Cultivator	29212
4	Cutting Machines	29211
5	Tractor	29211
6	Light Agricultural Machinery	29212

2. Readymade Garments: (NIC-2004 – 18109)

The demand for readymade garments has substantially increased over a period of time in urban and rural areas. Local priced readymade garments are very popular in the rural areas. Keeping in view the potential local market and labour intensive character of the industry, few units can be encouraged.

3. Household Oriented Industries: (NIC-2004 – 25207)

With the growth of population, increase in the standard of living, process of urbanization and above all the demonstration effect have lead to be substantial increase in the household items. These items are aluminum containers, trays, school boxes, lunch boxes, stainless steel plates etc. These units can be set up in the district.

4. Steel Furniture: (NIC-2004 – 36102)

Steel Furniture items such as Chairs, Tables, Stools, Wall Racks, etc., have opportunities for new entrepreneurs. Steel furniture has almost become a mass consumption item consumed not only by offices, factories, hospitals and other institutions but also by common households with the increase of population and the rise in the standard of living of people. The demand for steel furniture is bound to increase continuously.

5. Industrial Paints: (NIC-2004 – 24222)

Industrial Paints are used a coating to prevent corrosion of various materials used in machinery, equipment etc. There is good scope for manufacture of this item.

6. Bakery: (NIC-2004 – 15419)

Bakery Products such as bread, paav bun, toast, biscuits etc., are largely consumed by the population. There is good scope for semi -mechanized bakery in the taluka level to cater the needs of population in the taluka.

7. Exercise Note Book: (NIC-2004 – 22212)

Book binding and manufacturing of exercise note books can be undertaken in an organized manner. The demand for exercise books is on the increase on account of increase emphasis being accorded for imparting education to the students in the rural areas.

8. Tyre Retreading:(NIC-2004 – 25114)

The increase of vehicles has simultaneously increased the demand for use of tyres. This increase is beyond to continue in future also. Tyre retreading in the service sector would be an ideal venture for new entrepreneurs.

9. Corrugated Paper Boxes: (NIC-2004 – 25207)

The demand for packing material such as corrugated paper boxes is closely related to industrial development with the increasing industrial activities, the demand for such boxes has increased considerably. Manufacture of corrugated paper boxes is a promising line for new entrepreneurs.

10. PVC Conduit Pipes:(NIC-2004 – 25206)

These items are required in huge quantities for electrification, in view of increase in construction and electrical wiring. PVC Conduit Pipes can also be considered for development in the district to meet wiring needs.

11. Voltage Stabilizers (Automatic):(NIC-2004 – 33121)

Excessive voltage variation is a constant hazard to electrical and electronic equipment like television, refrigeration, air conditioner and other sophisticated electronic research laboratory equipment. There is a good demand of production of this item in the small scale units.

12. Cold Storage:(NIC-2004 – 63022)

In modern world, cold storage industry has become most essential. Industrialists should come forward in this direction as cold storage requirement would increase due to huge production of fruits, vegetables, fishes and other agro products in Bhavnagar district.

13. Bolts and Nuts:(NIC-2004 – 28991)

These items are required in huge quantities for assembling and repairing of vehicles etc. few units can be set up in Bhavnagar district. Manufacturing units for general hardware (NIC-2004 – 28939) such as saws & saw Blades, drills, punches, milling cutters, cutting blades Etc. can also beset up in.

III Small Manufacturing/Service/Business Enterprises :

The development of this sector depends on the overall economic development of the region. The main components of this sector are professional and self employed persons, retail trade and small business, road transport operators etc. The banks are providing credit for term loan and working capital under their direct scheme as Govt. sponsored programme. Due to establishment of medium/large industries in the district, there is scope of employment in service type industries.

Potentials areas for service industry :

Details of various Service activities are as under.

Sr.No.	Description	NIC- 2004 Code
1	Xerox Centre	74993
2	Computer Job Work & Training Centre	72300
3	Cyber Café, Network, E-mail Service, Internet Service	72901

4	Mobile Phone Service	64202
5	Courier Service	64120
6	Automobile Spares, Service and Repairs	50404
7	Video Library	92312
8	Circulating Library	92312
9	Coaching Classes	80902
10	Beauty Parlours	93020
11	Flour Mills	15311
12	Repairing of Electrical & Electronic Equipments	52603
13	Steel Fabrication	28112
14	Electric Motor Repairing	31108
15	Laundry and Dry Cleaning	93010
16	Caterers and Decorators	555204
17	Fast Food and Snack Parlour	55209
18	Ice Cream Parlour	55206
19	Pathology Laboratory	85195
20	Pest Control	74930
21	Provision Stores	52110
22	Stationery Stores	52396
23	Tailoring Shop	18105
24	Advertising Agency	74300
25	Installation and Operation of Cable Network	64204
27	Bore well Repairing	29128
28	Computerized Wheel Balancing	50200

CHAPTER – VIII

CONCLUSION

District Industrial Potentiality Survey Report of Bhavnagar district consists of Eight Chapters. An effort has been made to compile the important statistics on population data, statistics on resources and infrastructure facilities.

There has been specific focus on the present industrial structures of the district in respect of Micro, Small and Medium Enterprises and Large scale industries.

The report also indicates the new industrial potentialities in the district covering resource based, demand based and ancillary industries in the district. Rajkot district offers good scope for entrepreneurs to establish new industrial units for manufacturing as well as service based industries.

The report also indicates the new industrial potentialities in the district covering resource based, demand based and ancillary industries in the district in Chapter VIII. Bhavnagar district offers good scope for entrepreneurs to establish new industrial units for manufacturing as well as service based industries. The above list of prospective industries is not an exhaustive list but a guide one. An entrepreneur may select item other than those listed above, if he is confident of marketing of the same. In these days of competition, the skill of the entrepreneurs plays vital role in establishing the industry and running the same successfully.

For any further guidance, the entrepreneur is requested to contact

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