

District Industrial Potential Survey Report of Jamnagar District (2015-16)

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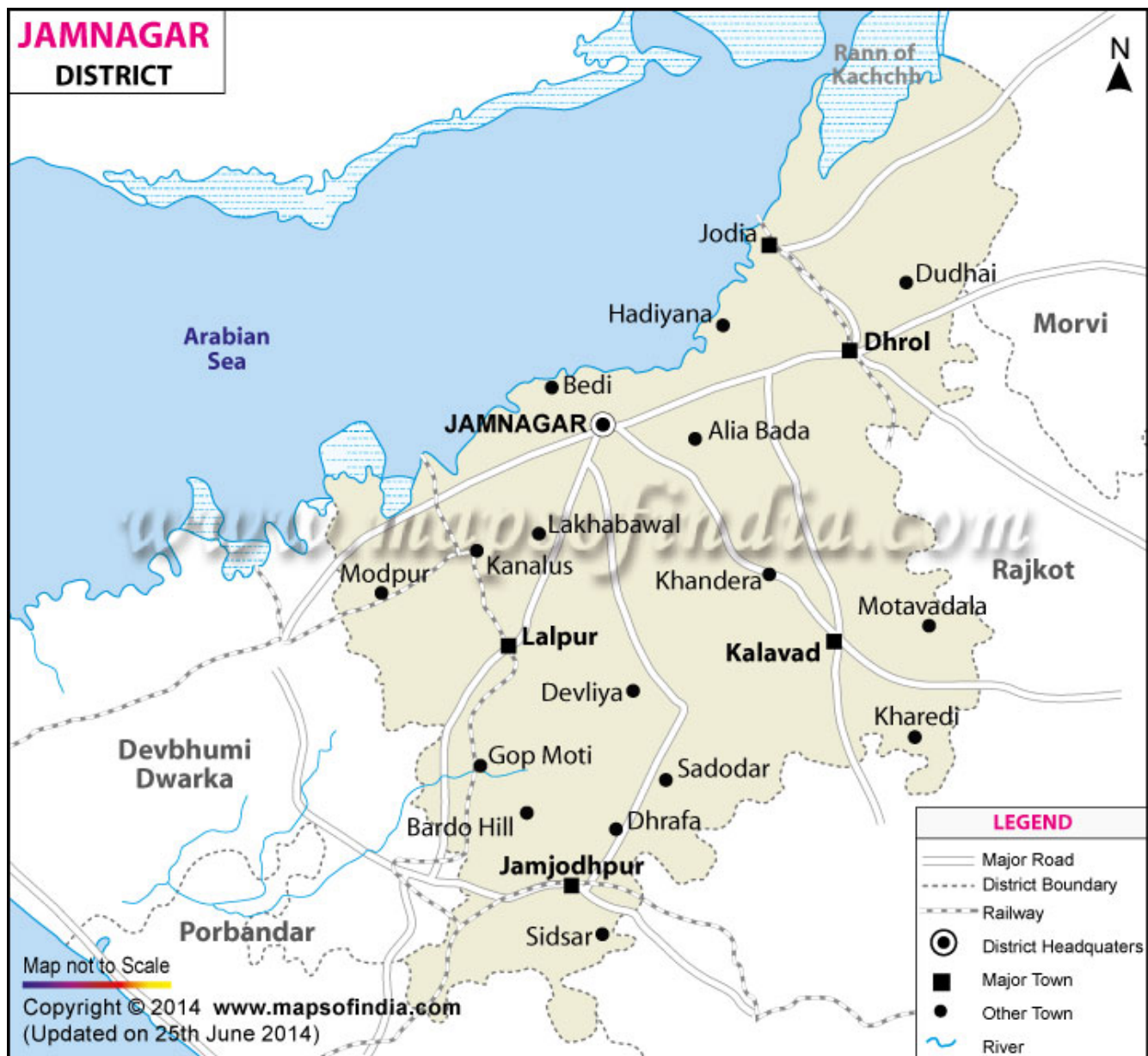
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FOREWORD

The present economy of any developing nation depends upon the prevailing relationship with World Economic Union and globalized economy of the Developed Nation. Now-a-days our economy is still passing through the edge of Developing Nations concept. To boost the present economy and for achieving targeted growth rate, one must raise the growth of the industrialization.


For the implementation of various Programmes and Policies, one must have good data base of available resources, basic infrastructure facilities, policies of the Central and State Government. Simultaneously, it is also important to raise the efficiency of the local people by providing them skill development training programmes and Industrial seminars etc., which will help in gearing up the process of industrialization.

MSME-Development Institute carries out District Industrial Potentiality Survey Report at regular intervals. This Report provides rich data base about industry type, availability of natural resources, infrastructural facilities, skilled man powers, market conditions etc.

Looking at the above mentioned aspects, ShriKishorThesia STS of ISS, Dy. Director (Stat.)MSME-DevelopmentInstitute, Ahmedabad has prepared District Industrial Potentiality Survey Report of Jamnagar District under its action plan for the year 2015-16 by using various vital and useful statistics and information collected from the various State Government Departments and Agencies.

The methodology adopted for the survey reports includes desk survey, documentation of data, reports received from various departments and institutions. I extremely feel that it will be definitely useful immensely to the concerned entrepreneurs and various agencies. 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
December, 2015


(B. N. SUDHAKARA)
DIRECTOR

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1. District Industries Centre, Jamnagar
2. Lead Bank – State Bank of India, Jamnagar
3. Horticulture Office, Jamnagar
4. District Agriculture Office, Jilla Panchayat, Jamnagar
5. Animal Husbandry Office, Jilla Panchayat, Jamnagar
6. Fisheries Office, Jamnagar
7. Employment Office, Jamnagar
8. Road Transport Office, Jamnagar
9. Road and Building, Jilla Panchayat, Jamnagar
10. Road and Building, PWD Division, Jamnagar
11. Gujarat Energy Transmission Corpn. Ltd., Jamnagar
12. GM, BSNL Telecom District, Jamnagar
13. Dy. Conservator of Forest, Jamnagar
14. Geology & Mining, Jamnagar
15. District Statistical Office, Jilla Panchayat, Jamnagar
16. District Rural Development Agency, Jamnagar
17. GIDC, Jamnagar
18. NABARD, Jamnagar
19. District Education Office, Jamnagar
20. Primary Education Office, Jamnagar
21. Supdt. of Post Office, Jamnagar
22. Directorate of Industrial Safety & Health, Jamnagar
23. Gujarat State Disaster Management Authority, Jamnagar
24. Paschim Gujarat Vij Company Limited, Jamnagar
25. Asstt. Registrar of Co-operative Societies, Jamnagar
26. Dy. Director of Information, Jamnagar
27. District Rural Development Agency, Jamnagar

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CHAPTER - I

DISTRICT AT A GLANCE**IMPORTANT STATISTICS**

S.No.	Particulars	Unit	Statistics
1	Geographical features		
(A)	Geographical Data	Sq. Kms	14125
	i) Latitude		21.42° to 22.57°
	ii) Longitude		68.57° to 70.37°
	iii) Geographical Area	Hectares	1412500
(B)	Administrative Units		
	i) Tehsils	Nos.	10
	ii) Nagar Nigam	Nos.	01
	iii) Nagar Palika	Nos.	10
	iv) Gram Panchayats	Nos.	666
2.	Population		
(A)	Sex-wise		
	i) Male	Persons	981320
	ii) Female	Persons	922958
(B)	Rural Population	Persons	1068022
3.	Agriculture		
A.	Land utilization		
	i) Total Area	Hectare	1065783
	ii) Area Sown	"	368186
	iii) Cultivable Waste	"	34072
4.	Forest		
	(i) Forest	Hectare	28034
5.	Livestock & Poultry		
A.	Cattle		
	i) Cows	Nos.	204191
	ii) Buffaloes	Nos.	162812
B.	Other Livestock		
	i) Goats	Nos.	179839
	ii) Sheeps	Nos.	211290
	iii) Horse	Nos.	731
	iv) Donkeys & Mules	Nos.	692
	iv) Railways		
6.	i) Length of rail line	Kms.	
7.	Roads		
	(a) National Highway	Kms.	64
	(b) State Highway	Kms.	1102
	(c) Main District Highway	Kms.	59
	(d) Other district & Rural Roads	Kms.	08
8.	Communication		
	(a) Telephone connection	Nos	41726
	(b) Post Offices	Nos.	380
	(c) Telephone Exchanges	Nos.	105

S.No.	Particulars	Unit	Statistics
9.	Public Health		
	(a) Allopathic Hospital	Nos	01
	(b) Beds in Allopathic Hospitals	Nos.	1300
	(c) Ayurvedic Hospital	Nos.	01
	(d) Beds in Ayurvedic Hospitals	Nos	300
	(e) Community Health Centers	Nos.	06
	(f) Primary Health Centers	Nos.	24
	(g) Dispensaries	Nos	5
	(h) Sub- Health Centers	Nos.	147
	(i) Private Hospital	Nos.	2
10.	Banking		
1	State Bank Group	No. of Branches	32
2	Scheduled Comm. Banks	No. of Branches	79
3	Private Sector Banks	No. of Branches	29
4	Gramin Bank (RRB)	No. of Branches	39
5	Dist. Co.Op. Bank	No. of Branches	27
6	G.S.A.R.D.B. (LDB)	No. of Branches	06
7	Urban Co. Op. Banks	No. of Branches	26
11.	Education Institutes	Nos.	Teachers Students
1	(a) Primary Schools	705	3806 88391
2	(b) Secondary Schools	22	73 2088
3	(c) Higher Secondary Schools	15	82 1429
12.	Industries as on 31.3.2015	No. of Units	Investment (Rs.in Lakh) Employment
	Micro Enterprises	538	73719.30 38121
	Small Enterprises	481	72378.18 26429
	Medium Enterprises	33	23849.00 1126
	Total	1052	169,946.48 65,676
13.A	Existing Scenario of Industrial Estates in Jamnagar Region		

Name of Estate	Land Acquired (Hectare)	Land Developed (Hectare)	Pre. Rate Per SQM	No. of Plots	No. of Allotted Plots	No. of Vacant Plots	No. of Units in Production
Jamnagar-I	50.40	50.40	2790	1192	1022	170	815
Jamnagar-II	136.12	136.12	1920	955	955	46	909
Jamnagar-III	175.00	157.00	2020	1466	1420	201	1236
Dhrol	1.00	1.00	130	12	12	0	10
13.B	Proposed New Industrial Area in Jamnagar Region						
Name of Taluka	Name of Industrial Area					Total Area (Hector)	
Kalawad	Kalawad Industrial Area					31.00	

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 “economies is a study of how man manages to satisfy by utilizing scare 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 pectoral 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 bulling 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 Jamnagar 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**DISTRICT PROFILE****General Characteristics of the District :****LOCATION OF DISTRICT ::**

Jamnagar District is located in the North West of Gujarat State. It is bounded partly by Gulf and partly by the desert of Kutch in the North, Junagadh District in the South, Rajkot District in the East and Arabian Sea in the West. The District has a geographical area of 14125 Sq. Kms. It is spread between 21.42° to 22.57° Latitude and 68.57° to 70.37° Longitude.

Administrative set up:

Jamnagar is a ten taluka district with headquarters at Jamnagar itself. At present, there are 694 villages and 17 towns in the district. The details of talukas is given hereunder:

1. Jamnagar
2. Dhrol
3. Jamkalyanpur
4. Jodiya
5. Khambhalia
6. Kalavad
7. Okha Mandal
8. Lalpur
9. Bhanvad
10. Jamjodhpur

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 hem. The District Industries Centre is one 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.

RIVERS & SOILS ::

There are no perennial rivers. However, there are 23 seasonal rivers flowing only during monsoon. Absence of perennial rivers and frequent failure of monsoon cause acute shortage of water for irrigation purpose. The important rivers of the district are as follows:

1. Bhagedi
2. Kuljar
3. Shihag
4. Eparel
5. Vartu
6. Rangmati
7. Nagmati
8. Sasol
9. Dand
10. Vogu
11. Saju

The topography of the district is uneven and marked at several place by hill ranges, the desert in North and East and Sand dunes along the coast. The soils of the district are mainly alluvial black, light- brown and alkaline. The alluvial black soil is found in Jamnagar and Jodiya talukas. Light-brown soil is found in all talukas but mainly in Lalpur and western part of Jamnagar talukas. Alkaline soil is found in the coastal talukas.

CLIMATE & RAIN FALL :

The district has humid climate due to Arabian sea in the west. The temperature varies widely from 5° c in Dec./Jan. to 45° c in April/May. The entire district has irregular and erratic rainfall. However, there has been good rainfall since last five years. The district get rains from south-west monsoon during June to September. The average rainfall of the district from 2002 to 2014 is 744 mm. The taluka-wise, rainfall of the district up to November-2014 was as under :

Climate and Rainfall : (Rainfall in mm.)

Sr.No	Taluka	2014
1	Jamnagar	368
2	Jam Jodhpur	555
3	Lalpur	297
4	Dhrol	408
5	Kalawad	481
6	Jodiya	762
	Average Rain fall	479 mm.

DEVELOPMENT PROGRAMMES OF THE DISTRICT

It is considered necessary and essential to take into account the development programmes of the district for the year 2015-16 envisaged by the State and Central Governments under 12th Five Year Plan (2012-2017) prepared by the District Planning Board as it provides scope for credit demand on one hand and support to bankable economic activities through non-credit inputs on the other hand. As it has direct bearing on the district economy, an attempt is made to take stock of the allocations made for various programmes for the year 2015-16 for the district in this Chapter.

The various departments of the Govt. might have prepared their plan projections for 2015-16 for the development of the district. While contacting The Dist. Planning Office, Jamnagar, it was informed that the planning for the year 2015-16 was under process and the figures of the district plan would be available in April-2015. Therefore, the figures of the last year projection have been repeated in the ACP 2015-16.

Annual Development Programmes for Jamnagar District (13-14)

(Amt. Rs. In lacs)

Sr. No.	Name of the Activity	Proposed Outlay	Percentage to Total Outlay
01.	Agricultural and Allied Agricultural Services	1050.29	8.04%
02.	Power	4772.00	36.55%
03.	Industries & Mines	857.03	6.56%
04.	Labour & Employment		
05.	Economic Services	6376.87	48.85%
	T o t a l.....	13056.19	100.00%

An attempt has been made in following paragraphs to highlight the impact of above allocations on the district economy as it would accelerate the pace of development, increase credit absorption capacity and generate credit demand as a result of cumulative effect of the Government developmental expenditure under the plan.

AGRICULTURE SECTOR:

The Government has proposed following outlay for the development of Agriculture Sector by way of expenditure to be made on activities listed below.

(Amt. Rs. in lacs)

No.	Activity/Programme	Amount
01.	Agriculture & Allied Agriculture Services	687.20
02.	Rural Development	0
03.	Irrigation & Flood Control	0
04.	Development of Co-operation	0
T O T A L		687.20

The above proposed allocations have been earmarked for Crops and Crop Protection, Land Reclamation, Oil and Water Conservation and Water Saving Devices, Animal Husbandry, Dairy Development, Fisheries Development, Storage Facilities, Rural Godowns, Special Programmes under Rural Development and Community Development, Water Resources Development for Irrigation Purpose etc.

Crop Activity

Out of allocation plan for agriculture and allied agriculture services, sizeable amount would be made available by way of supply of seeds, Kits to SC Farmers, Pesticides, Fertilisers, Extension Services, Demonstration of Crops and Arranging for Crop Competition.

Fisheries & Forestry Activities

The Fisheries Department is also earmarking the amount for production of Fish-seeds, rearing of fisheries, training to staff, supply of equipment at subsidised rate, mechanisation of boats, supply of fibre boats, development of small ports, maintenance and extension services and research development works to be undertaken for fish development, etc. during the year.

The Forest Department may propose their outlay for development of Forest area near the border and for better land development/forestry development, construction of godowns, farm development in addition to training expenses to be made for creation of awareness of pollution control, supply of various saplings and development of fuel-wood for energy etc.

The farmers will be provided H.Y.V. seeds, irrigation facilities, farm equipment and demonstration of mechanised and scientific farming. The increase in irrigation facilities will bring more land under multiple/double cropped area and increase in use of chemical fertilisers, insecticides, pesticides supported by mechanised farming will increase the yield per hectare. This will boost the demand for agricultural equipments, fertilisers, minor irrigation, seeds, production credit etc.

P.G.V.C.L. :

The PGVCL is giving priority to Agriculture and release of electric connections on demand. As a result of the above steps, credit absorption capacity and credit demand from Agriculture Sector would increase considerably aiding development of the district economy at the macro economic level.

Dairy Development

The National Dairy Development Board has took over the Jamnagar Dairy. Now there is a wide scope for this activity in the district.

INDUSTRIES SECTOR :

An amount of Rs. 857.03 lacs has been proposed for this sector. This includes training programmes for Rural Artisans, subsidy, etc. The DIC would promote Small and Village Industries with special attention to backward blocks and emphasis is on higher employment generation.

As a support for promotion of industries in the district, single window organization frame in the form of DIC has been set for the development of small and rural village industries with the particular emphasis on backward areas. The DIC will work for balanced and rapid industrialization of the district. It provides State Cash Subsidy, Testing Subsidy, and Power Subsidy and Sales Tax Incentives.

SERVICES SECTOR :

Under this head, an outlay of Rs. 4515 lacs has been proposed for the development of the following activities ::

Amt. Rs. In Lacs)

No.	A c t i v i t y	Amount
01.	Economic Services	6376.87
02.	Social and Mass Services	0
T O T A L		6376.87

The financial assistance to Services Sector might considerably increase in the near future on account of industrial development taking place in the district as the scope for Hotel Industries and Transport Operators are bright.

Since Services Sector depends upon the development of Agriculture and Industries Sectors, their development would help in the development of Services Sector generally. The increase of roads/by-pass roads and repairing and completion of bridges will help development of Rural Areas resulting in increase of some business opportunities providing employment to the rural population and facilitate connection with other parts of the developed areas of the district. This will, increase credit demand from Services Sector.

It is absolutely essential to construct four-track road between Rajkot-Dwarka for speedy transportation of industrial goods.

GOVT. SPONSORED PROGRAMMES ::

All Government Sponsored Programmes such as SGSY, PMEGP and Bankable Scheme - DIC, GSCEDC, GBCDC, SJSRY and GWEDC Plans have been incorporated in the Annual Credit Plan prepared under Service Area Approach.

As per RBI guidelines, it is mandatory that all Govt. agencies have to prepare and submit their following year's plan before 31st Dec. every year (and 30th Nov. for Co. Op. Banks). The proposed targets of all Government Sponsored Programmes to be implemented in the Annual Credit Plan for the district are given below.

Sr. No.	Name of the Programme	No. of A/cs.	Amount Rs. in lacs
01.	D. R. I.	3417	31.47
02.	PMEGP	73	885.50
03.	Bajpai Bankable Yojana	1023	990.60
04.	G.S.C.E.D.C.	403	290.70
05.	G.B.C.D.C.	322	205.50
06.	G.W.E.D.C.	118	84.15
08.	NULM	50	77.50
09.	Dev. Of Minorities	8	4.20

It is expected that adoption of strategy such as sponsoring of adequate number of quality loan applications by Govt. agencies in a phased manner commensurate with the existing potential, joint sponsoring, proper identification of beneficiaries, proper appraisal and proper follow-up would help in achieving the targets. *Joint sponsoring* is absolutely necessary to minimise return/rejection percentage and this will also help in speedy disposal of loan applications.

Government Sponsored Agencies shall extend full support to Banks for recovery of loans for recycling of Banks' fund and timely release of subsidy. These will encourage banks for achieving various targets.

Oil-seeds Production Programme

Jamnagar District has been covered under Technological Mission on Oil-seeds. Groundnut is identified as oil-seed crop for the district. Rs. 800.91 crores have been envisaged to finance under Groundnut and Other Oil-seed crops in the district during ACP 2015-16.

Prime Minister's Employment Generation Programme (PMEGP) ::

The Govt. of India has approved the introduction of a new credit linked subsidy programme called Prime Minister's Employment Generation Programme (PMEGP) by merging the two schemes in operation till 31-03-2008 viz. Prime Minister's Rozgar Yojana (PMRY) and Rural Employment Generation Programme (REGP). The scheme will be implemented at State level through State KVIC directorates, State KVIBs, DIC and Banks. The Govt. subsidy under the scheme will be routed by KVIC through the identified Banks.

The scheme is meant for generation of employment opportunities in rural as well as urban areas of the country. New self employment ventures/projects/micro enterprises will be set up through the scheme.

The scheme will bring together widely dispersed traditional artisans/rural and urban unemployed youth and give them self employment opportunities at their place so that the migration of rural youth to urban areas can be minimized.

SELF HELP GROUPS (SHGs) :

Despite the extensive spread of the rural banking network, a significant proportion of the rural poor does not have access to the banking system. One of the main reasons for the same is that the banking network is not in a position to meet the savings and credit needs of the poor which are different from those of their regular clientele. The experiments done by countries like Bangladesh, Indonesia, Kenya and Malaysia reveal that the poor can be reached through informal groups, popularly known as Self Help Groups (SHGs).

Financing SHGs is profitable to banks as the repayments are more than 90% and the transaction cost both for the banks as well their SHG is quite low. While the commercial banks have entered into the arena of financing SHGs, private sector banks have also been making entry in the said field. All most all eligible Sakhimandals have been duly graded and process of their linkage is under progress on priority basis in the district. Out of 5771 SHGs, 4258 SHGs have been linked by bank credit up till now.

Rural Development & Self Employment Training Institute (R-SETI) :

As per guidelines received from the Rural Dev. Dep't. Govt. of India, New Delhi, every Lead Bank is required to set up a Rural Self Employment Training Institute (R-SETI) in each district. R-SETI is a non-governmental organization. It is an innovative initiative taken to identify, motivate and train the unemployed youth to take up self employment as an alternative career.

The Lead Bank of the district i.e. State Bank of India has set up RSETI in the district wef 23-03-2009 at Jamnagar, which is now working in Lead Bank Office Jamnagar. The land (required minimum 1 acre, as per guidelines of Govt. of India) is allotted by the Dist. Collectorate to establish a full-fledge RSETI for the benefits of Rural Unemployed for creation of self employment. The Rseti building is almost ready at Dhuvav village far from Jamnagar 10 Kms. From the inception of the scheme, 114 various programmes have been arranged by whom 3295 candidates have been benefitted so far.

Financial Inclusion Plan:

The Pradhan Mantri Jan Dhan Yojana has been launched from 16/08/2014 on mission mode to cover all the uncovered households by basic saving bank accounts at least one bank account per household before 26/01/2015 (Extended up to 31/03/2015). The task was completed in Jamnagar District by 04/12/2014 by at least one bank account per household. Total 120518 accounts have been opened by the various banks.

The Rupay cards are being issued in which Rs.1 lac insurance and other benefits are in built subject to satisfactory conduct of the account.

Implementation of "PAHAL" for LPG subsidy (DBTL) Scheme :

The above scheme was earlier launched on 1.6.2013 and finally is launched for remaining districts wef 1.1.2015. All the LPG consumers will get their subsidy through their accounts only with effect from 1.4.2015. As per information provided from Nodal Officer of Oil Companies, only 70% consumers (CTC) have been linked in our District as on 19.2.2015 which is not satisfactory position. Therefore, all the banks and LPG Distributors have to work on priority basis for linkage of consumers/customers with NIC portal before 1.4.2015.

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(Amt. Rs. In lacs)

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Crop Activity

Out of allocation plan for agriculture and allied agriculture services, sizeable amount would be made available by way of supply of seeds, Kits to SC Farmers, Pesticides, Fertilizers, Extension Services, Demonstration of Crops and Arranging for Crop Competition.

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 Jamnagar district has been covered. as given below:

A.HUMAN RESOURCES:

Population and occupational Pattern:

POPULATION :

As per the Census 2011, the total population of the district has reached at the level of 13.86 lacs registering an increase of 1.68 lacs over a decade. The percentage of Male population comes to 52.70% and Female population works out to 47.30%. The working population of the district was 5.544 lacs forming 40% of the total population. The SC/ST population was 1,10,897 and 6,931 forming 8% and 0.5% respectively of the total population.

OCCUPATIONAL PATTERN (2011 Census) :

The Occupational Distribution of working population in the district is as under :

Sr. No.	Occupation	No. of Person engaged	% to total Population
01.	Cultivators	1,26,605	30 %
02.	Agricultural Labourers	45,306	11 %
03.	Household Indus..	7,338	2 %
04	Others	2,42,650	57 %
	TOTAL WORKERS	4,21,899	100 %

It transpires from the above table that 41% of the total workforce is engaged in Agriculture which almost depends upon monsoon.

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 :

Land Utilisation Pattern during the year 2014-15 :

Sr. No	Type of Land	Area in Hectors
1	Forest	28034
2	Land available for cultivation	574520
3	Fallow Land	7444
4	Cultivable Waste	34072
5	Permanent Pastures	47919
6	Trees and Groves	5608
7	Area sown(Kharif, Rabi, Summer)	368186
	Total	1065783

Land Area & its Utilisation:

Out of net sown area of 3,86,384 hectares total land, 3,16,834 hectares was utilised for major crops during Kharif 2013 season in the district. (Source : NABARD PLP)

Land development activity has a special significance for the district. The activity includes Land Improvement, Land Leveling, Setting up of Vermicompost Units. Use of Vermicompost Units needs to be promoted in the district to arrest soil deterioration and restoration of its health. Forestry and Waste Land Development has remained outside banking purview. However, they need to be covered under Bank credit for bringing Waste Land under Tree cover. The Forest Department is involved in promoting social forestry in the district.

There are 142 Agro Service Centers, 2 Soil Testing Centers, 10 Plantation Nurseries, 220 Farmers' Clubs and 1 Krishi Vigyan Kendras operating in the district.

Source of Irrigation and area covered in Hectares:

In Jamnagar district, sources of Irrigation are Canals, Wells and Tanks. Irrigation by tube-wells and ponds are novice in the district. The total irrigated area in the district is estimated at 78243 ha. which constitute 20.25% of net sown area/cultivated area of 386384 ha. Irrigation Potentiality in the district is as under :

Irrigation (In Hect.)

Canals	4178	(5.34%)
Wells	74065	(94.66%)
TOTAL	78243	(100%)

It is observed that well is the main source of irrigation. Irrigation plays an important role in increasing the production and productivity of agricultural crops. The district does not perennially flowing rivers. The availability of canal water for irrigation purpose is dependent on rainfall. Naturally, the farmers have to resort to use of ground water for irrigation purpose. Usage of sprinklers and drips needs to be popularized and increased for optimum use of water. To increase irrigation potentials the Govt. of Gujarat has specially incorporated in 2004 a company called Gujarat Green Revolution Co. Ltd. which has been extending a good amount of subsidy to the farmers for acquisition of the Micro Irrigation Systems. Response from the farming community to the scheme floated by the said company is encouraging. The said scheme needs to be given due publicity by the bankers, who may also explore the feasibility of financial MIS under the said scheme. perennially flowing rivers. The availability of canal water for irrigation purpose is dependent on rainfall. Naturally, the farmers have to resort to use of ground water for irrigation purpose. Usage of sprinklers and drips needs to be popularised and increased for optimum use of water. To increase irrigation potentials the Govt. of Gujarat has specially incorporated in 2004 a company called Gujarat Green Revolution Co. Ltd. which has been extending a good amount of subsidy to the farmers for acquisition of the Micro Irrigation Systems. Response from the farming community to the scheme floated by the said company is encouraging. The said scheme needs to be given due publicity by the bankers, who may also explore the feasibility of financial MIS under the said scheme.

Land Holdings:

As per data made available, the gross cultivated area in the district is 4,61,522 ha. held by 1,50,362 farmers. The details of which are as under ::

Sr. No.	Size	No. of Farmers	Area (in Ha.)
01.	Marginal Farmers (Less than 1 ha)	23010	15025
02.	Small Farmers (Between 1 & 2 ha)	57312	85975
03.	Big Farmers (Above 2 ha)	70040	283989
TOTAL		150362	384989

Cropping Patterns:

Groundnut, Bajra, Jowar, Wheat, Cotton, Sesame, Til and Pulses are the major crops of the district. Groundnut, Jowar, Bajra, Sesame and Cotton are mainly rain fed crops, whereas Wheat and Garlic are grown in the Rabi Season. Plantation and Horticultural crops are of great importance in an agricultural based economy. Lime, Ber, Coconut and Papaya are some of the plantations/ horticulture crops grown in the district. These fruit crops have been considered for bank credit. Aloevera, a medicinal plant, has also been proposed under contract farming, similarly, cultivation of Jatropha is also projected in view of the State Government's announcement to allot wasteland for bio-fuel crops and potentials for growing Jatropha in the district. The rising oil prices have stirred planners to look for renewable alternative fuel.

Fertilisers' Consumption:

There are 7 fertiliser co-operative Stores and 70 agri. business centres of Gujarat Agro Industries Corporation. Private dealers in fertilisers also play vital role for supplying fertilisers.

Insecticides :

There is no wide variation in consumption of Insecticides compared to the last year which was 5.41 lacs litres.

Farm Equipment :

Farm mechanisation is one of the modern techniques of carrying out farm operations speedily and efficiently. It also leads to improvement in productivity of the lands. Farm mechanisation relates to the use of Tractors, Power-tillers, Threshers, Sprayers, etc. which is prevalent in the district. The potential for financing these items depends on factors like size of the land holdings, irrigation facilities, etc. Thus, there exists sufficient scope for Tractor finance.

INDUSTRIES :

There are about 37 Large and Medium Scale Industries engaged in Cement, Fertilisers, Woollen-cloth, Petrochemicals, Oil refineries, Solvent Plants, Calcine, Bauxite, Soda-ash and Caustic Soda. There are 12661 registered Small Scale Industries. Reliance and Essar group have established large scale oil industries substantially contributing economy and development of the district. The Brass industry is a major Small Scale Industry concentrated in Jamnagar city only. There are industrial estates in the blocks of Dhrol and Jamnagar. There are clusters for Brass Part Industry and Bandhni Udhog in the district. 3246 SSI units are engaged in the manufacture of metal based products and 1361 units are in cotton spinning and weaving activity. There are 17 salt works operating in the district.

MARKETING :

At present, there are 7 regulated markets covering 444 villages. Market-yards have already been established in Jamnagar, Dhrol, Kalawad and Jam Jodhpur blocks. There are also 3 un-regulated markets covering 202 villages.

CO-OP. SOCIETIES :

There are 212 Primary Agricultural Credit Societies, 3 Farmers' Service Societies, 123 Industries Co-op. Societies, 9 Fisheries Co-op. Societies, 59 Milk Co-op. Societies and 481 other Co-op. Societies in the district.

BANKING :

At present there are 238 branches of Commercial Banks, RRBs, Private Sector Banks and Cooperative Banks in the district as under :

Sr. No.	Name of the Group	No. of Branches
01.	State Bank Group	32
02.	Scheduled Comm. Banks	79
03.	Private Sector Banks	29
04.	Gramin Bank (RRB)	39
05.	Dist. Co.Op. Bank	27
06.	G.S.A.R.D.B. (LDB)	06
07.	Urban Co. Op. Banks	26

(The average population served per bank branch in the district is 5823)

Out of total 238 branches of various banks, 101 branches are situated in Rural Area, 32 branches in Semi-urban and 105 branches are situated in Jamnagar City itself. State Bank of India, the Bank of the district has the largest network of 32 branches among the Nationalized banks, covering all six blocks. Out of 32 branches of S.B.I., there are 1 Agricultural Development Branches situated at Jam Jodhpur. One SME Branch of S.B.I. is situated at Shanker Tekri Industrial Area, Jamnagar. The Saurashtra Gramin Bank is sponsored by SBI, having 39 branches spread over all the blocks of the district. BOB, BOI, PNB, Co Op. Banks' branches situated at Shanker Tekri area are working as specialised SSI branches to take care of adequate and timely flow of credit to SSI units.

Co-Operative Banks:

The Jamnagar District Co-op. Bank Ltd. has 27 branches. Most of the branches are located in Rural Area. The Gujarat State Agricultural and Rural Development Co-op. Bank Ltd. has 6 branches located in each block head-quarters. 8 Urban Co-op. Banks are also operating in Jamnagar District with 27 branches.

OTHER INFORMATION :

The Gas Authority of India Ltd. (GAIL) has started their pipeline work for the gas pipeline from Jamnagar to Lonee (UP). The pipeline is the longest of its kind in the world with the total length of more than 1230 kms.

Dig Vijay Woolen Mill popularly known as “DIGJAM” is a major industrial unit at Jamnagar. It is a textile unit, produce export quality garments.

International Marine Academy has carried out a survey of Port Poshitra and decided to establish Maritime Institute of the International Standard at this port. A Joint sector company of Govt. of Gujarat and Sea King Infrastructure Ltd.(SKIL) have promoted Gujarat Poshitra Port Company Ltd.(GPPCL) for the development of the Port Poshitra.

The State Government has an ambitious plan for expanding tourism activity in the district. The massive expenditure has been planned for improving tourism activities and to render better facilities to the tourists in almost all the talukas . This would also have widespread implications in the economy and financial well being of the inhabitants of the district.

Jamnagar district has all the three wings of the defence i.e. Army, Navy and Air-force.

PLANTATION AND HORTICULTURE CROPS :

Plantation and horticulture assumes special place in agrarian economy. By adopting scientific cultivation of horticulture crops, even small and fragmented land holdings can be transformed as economically viable and ecologically stable units. Horticulture and plantation also enrich waste lands and dry lands.

The coverage of Horticulture crops is negligible. The table given below highlights area and production of horticulture crops in the district.

Area under Horticulture crops during 2014-15

Sr. No	Name of the Crop	Area(Hectare)	Production(M.T.)
Fruits crops :			
1	Mango	466	2843
2	Chiku (Sapota)	249	2822
3	Lemon	249	1843
4	Coconut	465	418500
5	Ber	335	3222
6	Amla	35	210
7	Papaya	65	488
8	Pomegranate	445	3783
9	Kharek	420	26087
10	Kaju	4	4
11	Banana	29	1267
12	Pauva	11	48
13	Others	127	964

Kharif Vegetables Crops :			
Sr. No	Name of Vegetable crops	Hectare	Production(M.T.)
1	Potatoes	667	9309
2	Onion	4310	86200
3	Cauliflower	195	2681
4	Brinjal	1740	32364
5	Okra	2290	16076
6	Tomatoes	2450	71050
7	Cabbage	690	11040
8	Cucukerbite	1660	27002
9	Cluster bin	4301	40860
10	Cow pea	585	4680
11	Others	104	1136
Spices Crops :			
Sr. No	Name of Spice crops	Hectare	Production(M.T.)
1	Cumin	44000	33000
2	Dry Chilly	1210	2118
3	Garlic	7900	61974
4	Corrinder	3571	4704
5	Methi	13	20
6	Ajma	4815	3477
7	Suva	100	71
8	Ginger	2	14
9	Turmeric	10	56

Flowers:			
Sr. No	Name of Flowers	Hectare	Production(M.T.)
1	Rose	43	357
2	Mogra	3	26
3	Marigold	110	946
4	Lily	2	16
5	Others	98	858

Source : Dy. Director of Horticulture

LIVESTOCK RESOURCES:

In Jamnagar district as per 19th Cattle Census conducted in 2012, total Livestock population is as under :

1 : Livestock	Total no of livestock as per 2012 census (000 nos)
	Cattle- 204191
	Buffalo - 162812
	Camels- 2205
	sheep- 211290
	Goat- 179839
	horse- 731
	Donkeys and mules- 692
	Rabbits-296
	Birds-19650

2 : Talukawise Livestock Resources in Jamnagar District

19th Livestock Census 2012 (Director of Animal Husbandry, Gujarat State)									
S.N	TALUKA	CATTLE	BUFFALO	SHEEP	GOAT	HORSE	DONKEY	CAMEL	TOTAL
1	jamnagar	49413	40305	38903	42674	218	146	269	171928
2	dhrol	19515	14555	19689	12922	49	23	28	66781
3	jodiya	15638	19395	19859	8685	45	7	216	63845
4	kalavad	49381	28342	35250	23937	82	26	0	137018
5	lalpur	36993	29491	16943	17582	55	67	167	101298
6	jamjodhpur	33251	30724	5320	15942	51	16	32	85336
Total		204191	162812	211290	179839	731	692	2205	626206

3 : DAIRY DEVELOPMENT : A NOTE HIGHLIGHTING DAIRY DEVELOPMENT: The main caste in all the talukas are Ahir, satvara, Patel, darbar, charan and the least mahajans and schedule caste. Most of the caste is engaged with farming and animal Husbandary.

Most of the milk is utilised for home and surplus milk is used for preparing Milk product like Ghee, and the rest is procured by private dairies and house holds. There is no any organised cooperative dairies in jamjodhpur, lalpur, dhrol, jodia talukas. How ever milk Collection centres by Rajkot district milk union have been started in jamnagar and kalavad taluka by Rajkot dairy . kalavad and jamnagar talukas villages are covered by Rajkot dairy. Mahi dairy – registered under companys act has started milk collection centre in jamnagar district. Hence there is a scope in milk production, procurement and marketing if organised/ cooperative based Dairy is started.

Progress in Animal Husbandary- a statistical overlook in Jamnagar District

Statement showing ESTIMATED Annual Animal production						
sr no	Item	Unit	1999-00	2002-03	2007-08	2013-14
1	Milk production	000 ton	160.09	214.21	310.51	347.53
2	Egg production	Lakh	43.59	15	10.35	13.54
3	Wool production	000 k.g	231.62	267	325	290

4 : POULTRY DEVELOPMENT : A NOTE HIGHLIGHTING POULTRY DEVELOPMENT main caste in all the talukas are Ahir, satvara, Patel, darbar, charan and the least mahajans and schedule caste. Most of the caste is engaged with farming and animal Husbandary. LEAST CASTE is engaged with poultry development. There is a scope for poultry development but religious thoughts hindrances the development in poultry.

5 : Views about the development of Animal Husbandary based Industries in the District

There is a scope in milk production, procurement and marketing if organised/ cooperative Dairy is started.

B : Veterinary Services

No of Veterinary Hospitals : 1

No of Veterinary Dispensaries : 21

No of Primary veterinary Centers : 17

MINERALS :

Jamnagar district is endorsed with mineral deposits. Lime stone, Bauxite, Chalk , Marl and Pojolinic Clay are major minerals of the district. Limestone, murram, Black Trap, Ordinary Clay are minor minerals.

TALUKA	NAME OF MINERALS	PRODUCTION IN TONS
JAMNAGAR	MINOR MINERAL	
	MURAM	23269
	ORDINARY SAND	148945
	BLAK TRAP	946362.37
	HARD MURAM	56111.5

LALPUR	MAJOR MINERAL	
	LIME STONE (MAJOR)	451075.37
	MINOR MINERAL	
	LIME STONE	6844
	MURAM	4263
	ORDINARY SAND	203488
	BLACK TRAP	2559680.559

KALAVAD	MAJOR MINERAL	
	LIME STONE (MAJOR)	50
	MINOR MINERAL	
	LIME STONE	32456
	ORDINARY SAND	11551
	BLAK TRAP	258591.079

DHROL	MINOR MINERAL	
	ORDINARY SAND	171993
	BLAK TRAP	68667.33

JODIYA	MINOR MINERAL	
	ORDINARY SAND	181983
	BLAK TRAP	156408.44

JAM JODHPUR	MAJOR MINERAL	
	CHALK	5953.891
	LIME STONE (MAJOR)	176348.165
	MINOR MINERAL	
	LIME STONE	378802.5
	ORDINARY SAND	63662
	BLAK TRAP	352974.54
	HARD MURAM	13953

Source : Department of Geology & Mines, Jamnagar

FISHRIES :

The Statistics and Information obtained from the Assistant Director of Fisheries, Jamnagar are as under.

Fisheries Statistics :2014-15

1. No. of Fishing Boats
 - A. Mechanised Boats 754
 - B. Non Mechanised Boats 30
2. No. of Active Fishermen 15537
3. Fish Production (M.T.)
 - Marine : 4000
 - Inland: 250
- 4.No. of Primary Co-Operative Societies 20
- 5.No.of Membership in Co-Op.Societies in Jamnagar Dist. 2039
- 6.Share Capital deposited by Members Rs.1,51,121
- 7.No. of Fishing centers 6
8. No.of Fish based Industries in Jamnagar Dist. Ice Factories 04

Forest :

Total area under Forest is 38657.52 hectares The main product is grass.

The taluka wise area under forest is as under.

Taluka	Reserved Forest	Unclass Forest	Total
Okha Mandal	4253.37	8.46	4261.83
Khambhalia	989.89	986.02	1975.91
Jamnagar	0.00	1468.40	1468.40
Jodiya	3991.03	4251.68	8242.71
Dhrol	0.00	806.44	806.44
Kalavad	2582.29	863.08	3445.37
Lalpur	3800.00	1500.74	5301.38
Bhanvad	0.00	504.54	504.54
Jamjodhpur	6859.10	1723.42	8582.52
Kalyanpur	1743.52	2324.90	4068.42
Total	24219.84	14437.68	38657.52

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 Jamnagar 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.

The total length of road is 1233 kms.. The Road-wise, latest available position is shown in the tables given here under. Out of total no of 444 villages, 425 villages are connected with Pucca Roads and 19 villages are connected by Kuchha Roads but assessable in fair weather. The State Transport has connected all villages of the district with 258 routes by all weather roads.

Category-wise length of roads in the district :

Types of roads	Length of roads in Kms.
National Highways	64
State Highways	1102
Major District Roads	59
Other District Roads	08
Village Roads	<u>Nil</u>
Total	1233

District Roads under Panchayat**District Roads under Panchyat .**

Catagory Cement	CC Block Concrete	BT Mattaed Top	WBM Roads	Earthen Roads		Total (Kms)
				Materable	Non- Materable (Kms)	
1	MDR	-	789.92	17.41	4.94	812.27
2	ODR	-	598.60	17.80	9.50	625.90
3	VR	-	998.77	44.10	39.00	1,081.87
	Total	-	2,387.29	79.31	53.44	2,520.04

Source : E.E. (R&B), Jilla Panchayat, Jamnagar

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:

(A) Existing Scenario of Industrial Estate in Jamnagar region

Name of Estate	Land Acquired (Hectare)	Land Developed (Hectare)	Pre. Rate Per SQM	No. of Plots	No. of Allotted Plots	No. of Vacant Plots	No. of Units in Production
Jamnagar-I	50.40	50.40	2790	1192	1022	170	815
Jamnagar-II	136.12	136.12	1920	955	955	<u>46</u>	909
Jamnagar-III	175.00	157.00	2020	1466	1420	201	1236
Dhrol	1.00	1.00	130	12	12	<u>0</u>	10

(B) Proposed New Industrial Area in Jamnagar region

Name of Talula	Name of Industrial Area	Total Area (Hectare)
Kalawad	Kalawad Industrial Area	31.00

Talukawise working Factories as on 31.03 2015:

Sr. No.	Taluka	No. of working Factories	Average Nos. of workers Employed	Closed Factories	Total Factories
1	JAMNAGAR	430	10811	304	734
2	DHROL	5	108	3	8
3	JODIYA	4	107	1	5
4	KALAVAD	7	70	1	8
5	LALPUR	23	1907	5	28
6	JAMJODHPUR	8	227	5	13
7	KALYANPUR	4	116	1	5
8	KHAMBHALIA	39	5352	20	59
9	DWARKA	21	4890	13	34
10	BHANVAD	-	-	7	7

Water:

Water is other pre-requisite for the development of industries. The rainfall in the area is scanty, practically every alternate year, there is shortage of water and have famine conditions in many parts of the district. Due to poor rainfall, there is no perennial river. Due to recurring water scarcity, the water from irrigation dams has to be reserved for drinking water needs of towns and villages. As a result, farmers face crisis almost every third year and Rabi cropping is almost not existent.

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 & towns in the district have been electrified for all purpose. Details of sub-stations in Jamnagar district are as under.

(A) Existing Sub-station for Power distribution under Jamnagar TR Division :

Sr No	Name of Circle	Name of division	Name of Sub-Station	Ratio in KV	Installed capacity in MVA		Taluka
					Trans. Wise	Total	
1	Jamnagar	Jamnagar	220 Jamnagar	220/132	2x100	200	Jamnagar
				220/66	1x100+1x160	260	
2	Jamnagar	Jamnagar	66 Kalavad	66/11	2x15+1x10	40	Kalavad
3	Jamnagar	Jamnagar	66 Kharedi	66/11	3x10	30	Kalavad
4	Jamnagar	Jamnagar	66 Navagam	66/11	2x10	20	Kalavad
5	Jamnagar	Jamnagar	66 Morvadi	66/11	2x10	20	Kalavad
6	Jamnagar	Jamnagar	66 Nagajar	66/11	2x10	20	Kalavad
7	Jamnagar	Jamnagar	66 Bhadukia	66/11	2x10	20	Kalavad
8	Jamnagar	Jamnagar	66 Mota-Vadala	66/11	2x10	20	Kalavad
9	Jamnagar	Jamnagar	66 Toda	66/11	2x15	30	Kalavad
10	Jamnagar	Jamnagar	66 Dhulasiya	66/11	1x15	15	Jamnagar
11	Jamnagar	Jamnagar	66 KV Kalavad -B	66/11	2x15	30	Kalavad
12	Jamnagar	Jamnagar	66 Sikka	66/11	10X2	20	Jamnagar
13	Jamnagar	Jamnagar	66 Lalpur	66/11	15X2	30	lalpur
14	Jamnagar	Jamnagar	66 Pipali	66/11	10X2	20	lalpur
15	Jamnagar	Jamnagar	66 Shapar(BAID)	66/11	10X2	20	Jamnagar
16	Jamnagar	Jamnagar	66 TPS Sikka s/s	132/66	50X2	100	Jamnagar
17	Jamnagar	Jamnagar	66 KV Haripar	66/11	15X1	15	Jamnagar
18	Jamnagar	Jamnagar	66 KV Chandragadh	66/11	15X2	30	Jamnagar
19	Jamnagar	Jamnagar	132KV NAGHEDI	132/66	2X50 + 1X100	200	Jamnagar
	Jamnagar	Jamnagar		132/11	3x12.5	37.5	
	Jamnagar	Jamnagar		66/11	1X10	10	

Sr No	Name of Circle	Name of division	Name of Sub-Station	Ratio in KV	Installed capacity in MVA	Taluka	Taluka
20	Jamnagar	Jamnagar	66KV JAMNAGAR-C	66/11	2X15+1X10	40	Jamnagar
21	Jamnagar	Jamnagar	66KV HAPA	66/11	3x10	30	Jamnagar
22	Jamnagar	Jamnagar	66KV Morkanda	66/11	2 X 10	20	Jamnagar
23	Jamnagar	Jamnagar	66KV Beraja	66/11	2X 10	20	Jamnagar
24	Jamnagar	Jamnagar	66KV Mota Khadba	66/11	2 x 15	30	Jamnagar
25	Jamnagar	Jamnagar	66KV SUVARDA	66/11	2 x 15	30	Jamnagar
26	Jamnagar	Jamnagar	66KV SAT RASTA	66/11	4X10	40	Jamnagar
27	Jamnagar	Jamnagar	66KV JAMNAGAR-B	66/11	4x15	60	Jamnagar
28	Jamnagar	Jamnagar	66KV BEDESHWAR	66/11	2X15+1X10	40	Jamnagar
29	Jamnagar	Jamnagar	66KV JAMVANTHALI	66/11	1x10+1x15	25	Jamnagar
30	Jamnagar	Jamnagar	66KV MODPAR	66/11	2X10	20	Jamnagar
31	Jamnagar	Jamnagar	66KV BANUGAR	66/11	10x2=20	20	Jamnagar
32	Jamnagar	Jamnagar	66KV PIPARTODA	66/11	2X10	20	lalpur
33	Jamnagar	Jamnagar	66KV Aliyabada	66/11	1 X 10	10	Jamnagar
34	Jamnagar	Jamnagar	66KV GIDC Phase -III	66/11	2 X 15	30	Jamnagar
35	Jamnagar	Jamnagar	66KV Khiri	66/11	1x10+1x15	25	Jamnagar
36	Jamnagar	Jamnagar	66KV LAL BANGLA	66/11	2 x20	40	Jamnagar

(B) Proposed Sub station in 12th Five Year plan

Sr No.	Name of s/s	Capacity in MVA	Name of Taluka
[A]	EHV Class SS		
1	400kv Kalawad (Khandhera) (ND)	NA	Kalawad
2	400kv Bhogat (Coastal)	NA	Kalyanpur
3	220kv Khambhaliya (Kuvadiya)	NA	Khambhaliya
4	220kv Moti Gop	NA	Jamjodhpur
[B]	66 KV S/S Year - 2015-17		
1	Naranpar	30	Jamnagar
2	Kotada Bavishi	30	Jamjodhpur
3	Meghpar (Morana)	30	Jodia
4	Bhensdad (Piyava Chokdi)	30	Dhrol
5	Harshadpur (Konja)	30	Jamnagar
6	Balva	30	Jamjodhpur
7	Chachlana	30	Kalyanpur
8	Ghunada	30	Jamjodhpur
9	Jasapar	30	Bhanvad
10	Dwarka	30	Dwarka
11	Vasantpur (Panchyari)	30	Jamjodhpur
12	Navaniya (Padana)	30	Lalpur
13	Khad Khambhaliya(Khatiya)	30	Jamjodhpur
14	Sadodar	30	Jamjodhpur

[c]	66 KV S/S Year - 2016-17		
1	Ramnagar	30	Khambhalia
2	Bharatpur (Mokhana)	30	Bhanvad
3	Ravalsar (Vasai)	30	Jamnagar
4	Lakha Baval (Kansumara)	40	Jamnagar
5	Chela	30	Jamnagar
6	Hamapar	30	Dhrol
7	Khirsara	30	Ranavav
8	Police line-Jamnagar	30	Jamnagar
9	Dhrafa	30	Jamjodhpur
10	Rajpara	30	Kalyanpur

Categorywise No.of Electricconnections in district as on 31.03.2015

Sr No	Name Of Taluka	Nos of Domestic Connections (in Lacs)	Consumption Units (in Lacs)	Nos .of Industrial Connections (in Lacs)	Consumption Units (in Lacs)	Nos. of Other Connections (in Lacs)
1	Jamnagar	3.77	2019.2	0.323	2004.7	0.181
2	Dhrol	0.201	170.2	0.028	71.7	0.109
3	Kalawad	0.282	227.6	0.0333	77.9	0.174
4	Jodiya	0.172	118.4	0.0153	40.3	0.0475
5	Lalpur	0.2879	240	0.03362	190.3	0.106
6	Jam-Jodhpur	0.229	160.6	0.03151	92.2	0.111
7	Bhanvad	0.178	120.7	0.0275	55.6	0.0799
8	Khambhaliya	0.319	274.1	0.06782	196.6	0.119
9	Okha Mandal	0.281	258.6	0.05377	209.8	0.01926
10	Kalyanpur	0.183	135.7	0.0261	69.7	0.0811
Source : PGVCL. Jamnagar Cirle office						

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 26.10.2015 is as under:

Types of Motor Vehicles registered from 01/01/2000 to 26/10/2015	
CLASS	TOTAL
MCYCLE MOTOR CYCLE	189681
LMVCAR L. M. V. (CAR)	26995
SCOTER SCOOTER&MOPED	31174
LGV LIGHT GOODS VEHICLE	3855
TRCAGR TRACTOR&TRAILER (AGRICULTURE)	5894
HGV HEAVY GOODS VEHICLE	2811
3W-GDS THREE WHEELER (GOODS)	2663
3W-PSG 3 WHEELER (PASS)	2303
CARTXI CAR TAXI	973
MAXCAB MAXI CAB	698
TSTTXI TOURIST TAXI	372
DLRVAN DELIVERY VAN	287
3W-ADL 3 WHEELER PASS ADL	278
INVCRG INVALID CARRIAGE	177
BUS BUS	95
UTLVAN UTILITY VAN	86
MGV MEDIUM GOODS VEHICLE	84
MINBUS MINI BUS	77
TRLCOM TRAILER (COMMERCIAL)	75
TRCPVT TRACTOR (PRIVATE)	56
LMVIMP L. M. V. (IMP.)	54
DLXBUS DELUXE BUS	50
AMBULC AMBULANCE	48
OMNBUS OMNI BUS	44
LMVJGP L. M. V. (JEEP/GYPSY/VAN)	34
3W-PVT THREE WHEELER PRIVATE	11
CONEQI CONSTRUCTION EQUIP	8
MCYIMP MOTOR CYCLE (IMP.)	8
TRCCOM TRACTOR (COMMERCIAL)	8
JEEPTX JEEP TAXI	7
LOADER LOADER	5
FIRFGT FIRE FIGHTER	4
ANMAMB ANIMAL AMBULANCE	2
STNWGN STATION WAGON	2
TSTBUS TOURIST BUS	2
COMSOR COMPRESSOR	1
CRANE CRANE	1
MWSCAR MCYCLE+SIDE CAR	1
PSTVAN POSTAL VAN	1
TANKER TANKER	1
TRLPVT TRAILER+PVT VEH	1
TSTMCB TOURIST MAXI CAB	1
TOTAL	268928

Telephones:

The fast developed telecommunication has resulted in considerable rise in telephones, fax, mobiles and internets. The BSNL has started first stage of G.S.M, (Global Service Management) Services in the district from 21.10.2002 and covered National High of the district. BSNL has started first stage of G.S.M. (Global Service Management) Services in district from 21.10.2002 and covered National High of the district. Telecommunication facilities available in Jamnagar district as on 31st March, 2015 is as under.

Name of Taluka	No. of Exchange	Total Capacity	Working connection	Waiting list	% of Utilisation
BHATIA	9	3824	1099	0	28.74%
BHANVAD	9	4688	1465	0	31.25%
DHROL	5	1512	603	0	39.88%
DWARKA	4	3360	2296	0	68.33%
JODIA	9	2720	729	0	26.80%
JAMNAGAR	23	42432	27764	2	65.43%
JAMJODHPUR	14	4976	2601	0	52.27%
KALAWAD	14	6108	1495	0	24.48%
KHAMBHALIA	10	6728	2881	0	42.82%
LALPUR	8	2728	793	0	29.07%
TOTAL	105	79076	41726	2	52.77%

Communication:

Taluka wise available Postal facilities:

Sr No.	Name of Talukas	Main Post offices	Sub Post offices	Br. Post offices
1	Jamnagar	1	26	49
2	Kalavad	4	52	0
3	Dhrol	1	20	0
4	Jodiya	5	29	0
5	Lalpur	2	20	0
6	Jamjodhpur	0	4	28
7	Okha Mandal	0	6	18
8	Khambhalia	0	4	41
9	Kalyanpur	0	3	35
10	Bhanvad	2	30	0
	Total	15	194	171

Container Depot availability:

In Jamnagar district, facility of container depot is not available. Therefore, entrepreneurs have to approach Ahmedabad to avail this facility.

INFRASTRUCTURE :**(a) Railway**

There is railway track of 132 kms. covering 6 blocks of the district having 38 big railway stations and 6 middle & small sized railway stations.

(b) Air-port

There is an airport at Jamnagar having Indian Airlines flights, operating between Jamnagar and Mumbai.

(c) Sea Routes

The district has 160 kms. long coast with 8 ports. The main item imported through these ports is Petroleum. Other items imported are Fertilizers, Coal, Wheat, etc.. The Commodities like Groundnut, Oil-cake, Cottonseeds-cake, Salt, Fish, Cement and Minerals are exported through these ports. The Jamnagar Port is the only all weather deep sea port in India with potential for operating 365 days a year. The Govt. has planned to develop the port as a modern port.

(d) Communication

As the district is industrially well developed, facility of speedy and accurate communication already exists. This is further strengthened due to availability of the facility provided by Cell Phone Operators like Vodafone, Uninure, Tata Docomo, Idea, Airtel, Reliance, Tata, etc.. Besides, BSNL, WLL and Land Line through optical cable of Reliance & Tata are also available in the district. Internet facility is being extensively used through out the district. Broad band services of BSNL and of private operators are available.

(e) Post Offices

There are 380 Post Offices covering 444 villages of the district.

(f) Marine Resources

Being a coastal district, there is potential for marine, inland and brackish water fisheries. Although district has a long coast line of 160 kms. Total population of fishermen is 30943 scattered mainly in five talukas of erstwhile Jamnagar District viz. Jamnagar, Kalyanpur, Okha Mandal, Khambhalia & Jodiya. There are about 81 reservoirs with an area of 16659 ha. in the district offering scope for inland fisheries. However, the sector was plagued with overdue affecting extension of bank credit to the activity.

(g) Power

Two thermal power stations are being established at Sikka wind farm in the Asian continent. The Reliance Groups have also proposed to establish their own power projects for captive consumption and excess electricity, if available, will be provided to the State Electricity Distributing Companies/Board.

(h) Mineral Wealth :

Availability of Minerals in the district are as under.

Sr.	Taluka	Minerals Available
01.	Jamnagar	Calcareous, Sand, Black-tap, Clay
02.	Lalpur	Lime-stone, Lime, Black-tap
03.	Jam Jodhpur	Lime-stone, Lime, Black-tap
04.	Dhrol	Black-tap, Sand, Lime

(i) Educational Facilities :

This facility is available from Primary up to Post-graduation level. Except Engineering and Pharmacy colleges almost all type of educational segment are available in the district . The literacy ratio of the district is 64.65% as per census 2011.

The details of educational institutes are as under.

Sr. No.	Education Institutes	Nos.	Teachers	Students
1	Primary Schools	705	3806	88391
2	Secondary Schools	22	73	2088
3	Higher Secondary Schools	15	82	1429

(j) Marine Resources:

Being a coastal district, there is potential for marine, inland and brackish water fisheries. Although the district has a long coast line of 342 kms. The total population of fishermen is 15537 scattered mainly in five talukas viz. Jamnagar, Kalyanpur , Okha Mandal, Khambhalia and Jodia. There are about 81 reservoirs with an area of 16659 hectare in the district offering scope for inland fisheries. However, the sector was plagued with over dues affecting extension of bank credit to the activity.

(k) 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 EMPLOYMENT EXCHANGE AS ON 31.3.2015				
SR.NO.	EDUCATIONAL LEVEL	MALE	FEMALE	TOTAL
1	SSC	2645	151	2796
2	HSC	2875	1736	4611
3	B.SC	483	203	686
4	B.COM	1344	575	1919
5	B.A	1083	1088	2171
6	B.E	0	0	0
7	DIPLOMA HOLDERS	774	19	793
8	ARTISANS(TECH.)	0	0	0
9	OTHERS	571	495	1066
	TOTAL	9775	4267	14042

(B) WORKING OF EMPLOYMENT EXCHANGE: YEAR 2005 TO 2015					
SR.NO.	YEAR	REGISTRATION DURING THE YEAR	NO.OF PERSON SOUGHT PALCEMENT DURING THE YEAR	NO.OF PERSON LIVE REGISTER AT THE END OF YEAR	NO.OF VACANCIES NOTIFIED DURING THE YEAR
1	2005-06	7652	1916	14949	1973
2	2006-07	7993	3296	16958	3394
3	2007-08	8321	4991	16123	5140
4	2008-09	8623	3990	16546	4109
5	2009-10	9876	4502	17123	4637
6	2010-11	11618	4500	24242	4635
7	2011-12	10322	4462	24017	4595
8	2012-13	10654	4611	22945	4749
9	2013-14	11312	5918	23429	6095
10	2014-15	11141	7126	16232	7339
	TOTAL	97512	45312	192564	46666

Banking & Finance:

Finance is the most important item for industrial development to meet the financial need of Jamnagar 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 co-coordinating the activities of various financial institutions for the development purpose of the district. It has so far prepared a number of action programmes 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.

Growth Centres :

S.No.	Type of assistance	Name and address of agencies
1.	Provisional Registration Certificate (EM-1) & Permanent Registration Certificate (EM-II)	District Industries Center (DIC) JillaSevaSadan, LalBunglow Compound Jamnagar
2.	Land and Industrial shed	Gujarat Industrial Development Corporation(GIDC) Udyognagar Jamnagar
3.	Financial Assistance	1)Commercial Banks 2) Co-operative Banks 3)Small Industry Development Bank of India Jayanti Bhavan ,1 st Floor, P.B.No. 10, Navjivan P.O. Ahmedabad 380 014
4.	For raw materials under Govt. Supply	The National Small Industries Corporation Ltd.(NSIC) 203, Samruddhi Bldg. Opp. Old High Court, Ahmedabad
5.	Plant and machinery under hire/purchase basis	The National Small Industries Corporation Ltd .(NSIC) 203, Samruddhi Bldg. Opp. Old High Court, Ahmedabad
6.	Power/Electricity	Paschim Gujarat Vij Company Ltd.(PGVCL) Nr. LalBunglow Compound Jamnagar
7.	Technical Know-how	1)(Br.) MSME-Development Institute (MSME-DI) 3 rd Floor, Annexe Bldg, Amruta(Jasani)Bldg. Premises, Nr. Girnar Cinema, M.G.Road, Rajkot 360001 2) The National Small Industries Corporation Ltd.(NSIC) Aji Industrial Area, Bhavnagar Road, Rajkot 3)MSME-Development Institute (MSME-DI) Harsiddh Chambers 4 th Floor, Ashram Road , Ahmedabad

8.	Quality & Standard	<p>1) Bureau of Indian Standards (BIS) Aji Industrial Area, Bhavnagar Road, Rajkot</p> <p>2) Bureau of Indian Standards (BIS) 'Pushpak', 3rd Floor Khanpur. Ahmedabad</p>
		<p>3) Electronics & Quality Development Centre(EQDC) Electronics Estate, GIDC Gandhinagar 382 010</p>
9.	Marketing/Export Assistance	<p>1)(Br.) MSME-Development Institute (MSME-DI) 3rd Floor, Annexe Bldg, Amruta(Jasani)Bldg. Premises, Nr. Girnar Cinema, M.G.Road,Rajkot</p> <p>2) The National Small Industries Corporation Ltd.(NSIC) Aji Industrial Area, Bhavnagar Road, Rajkot</p> <p>3)MSME-Development Institute (MSME-DI) Harsiddh Chambers 4th Floor, Ashram Road , Ahmedabad</p>
10.	Other Promotional Agencies	<p>1)Centre for Entrepreneurship Development (CED) Block No. 1, 9th Floor, Udyog Bhavan, Sector -11 Gandhinagar 382 017</p> <p>2)Indo-German Tool Room (IGTR) Plot No. 5003, Phase-IV GIDC, Vatva Ahmedabad 380 445</p> <p>3)Gujarat Industrial Technical Company (GITCO) GITCO House, Opp. Sardar Patel Stadium, Navrangpura Ahmedabad 380 009</p> <p>4) CIPET Plot No. 630, Phase IV GIDC, Vatva Ahmedabad 382 445</p> <p>5) National Institute of Design (NID) Paldi Ahmedabad</p> <p>6)Industrial Extension Bureau (INDEXTb) Block No. 18, 2nd Floor Udyog Bhavan, Sector -11 Gandhinagar 382 017</p> <p>7) Industrial Extension Cottage (INDEXT-C) Block No. 7, 1st Floor, Udyog Bhavan, Sector -11 Gandhinagar 382 017</p>

Industrial Associations :

The President, The Navanagar Chamber of Commerce and Industry, Shree Digvijaysinhji Chamber Building, Grain Market, Jamnagar-361001.	0288-2550250 2550257	0288-2554823	Nccijmr@sancharnet.in
The President, Shree Jamnagar Brass Foundry Association, Shankar Takary Udyognagar, P.No.378/1, GIDC Godawan No.1, Near Police Chowki, Jamnagar-361004.	0288-2561834 2560720	2561122	
The President, The Jamnagar Factory Honors Association, Plot No.370/372, GIDC Industrial Area, Shankar Thakari Udyognagar, Jamnagar- 361004.	0288-2560002/3	0288-2560004	jfoa@ sancharnet.in
The President Jamnagar Sahkari Udyognagar Sangh Ltd., BSNL Tower, Industrial Estate, At Hapa, Jamnagar.361120	0288-2570324		
The President, Shri Kutch Saurashtra Salt Manu. Association, D-10/11 S.P. Mehta Market, Jamnagar- 361001.	0288-2675141 2557396	0288-2556005	bcraval@bilt.com
The President Saurashtra Oil Mill Association, M.P. Shah Muni. Industrial Estate, Saru Saction Road, Jamnagar-361002.	0288-2677554/184		
The President Shri M.P. Shah Muni. Udyognagar Association, B-7, M.P. Shah Indl. Estate, Saru Section Road, Jamnagar-361002.	0288-2556015 2710875	2555218	arunudyog@email.com
The President, Jamnagar Stove & Petromex Parts Mfg. Association, 373/16, Nr. GIDC Association. Office P.B. No.632, Jamnagar.	0288-2561997 2560517	2555218	

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 0.2.10.2006 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

The details of industries can be seen from the tables given below as per the data and information received from District Industries Centre, Jamnagar

I. A. Progress in SSI Registration

Year	No. of Regd. units	Investment (Rs. in Lacs)	Employment	Cumulative		
				No. of Regd. units	Investment (Rs. in Lacs)	Employment
Up to 01.10.1978	1648	179.95	12130	1648	179.95	12130
02.10.78 to 31.03.79	291	133.60	2218	1939	313.55	14348
1979-80	206	147.91	1802	2145	461.46	16150
1980-81	211	133.71	1367	2356	595.17	17517
1981-82	202	106.57	1403	2558	701.74	18920
1982-83	200	80.53	1384	2758	782.27	20304
1983-84	225	101.18	1172	2983	883.45	21476
1984-85	212	76.64	1326	3195	960.09	22802
1985-86	215	44.03	684	3410	1004.12	23486
1986-87	227	76.95	785	3637	1081.07	24271
1987-88	275	103.74	933	3912	1184.81	25204
1988-89	291	146.90	1601	4203	1331.71	26805
1989-90	290	140.07	1481	4493	1471.78	28286
1990-91	375	145.71	1377	4868	1617.49	29663
1991-92	451	355.86	1551	5319	1973.35	31214
1992-93	518	223.56	1806	5837	2196.91	33020
1993-94	521	165.56	1629	6358	2362.47	34649
1994-95	533	329.97	1343	6891	2692.44	35992
1995-96	541	575.24	1423	7432	3267.68	37415
1996-97	541	340.02	1352	7973	3607.70	38767
1997-98	551	284.67	1203	8524	3892.37	39970
1998-99	551	896.03	1494	9075	4789.40	41464
1990-2000	551	404.56	1662	9626	5193.96	43126

Year	No. of Regd. units	Investment (Rs. in Lacs)	Employ- ment	Cumulative		
				No. of Regd. units	Investment (Rs. in Lacs)	Employ- ment
2000-01	550	345.63	1096	10176	5539.59	44222
2001-02	550	469.48	1250	10726	6009.07	45472
2002-03	541	664.84	1623	11267	6673.91	47095
2003-04	478	565.44	1465	11745	7239.35	48560
2004-05	465	771.44	1706	12210	8010.79	50266
2005-06	372	581.98	1326	12582	8592.77	51592
01.03.06.to 01.10.2006	79	283.90	395	12661	8875.67	51987

B. GroupWise Registration of SSI Units (Up To 01.10.2006)

Sr. No.	Group of Industries	No. of Units	Investment in P & M(in Lacs)	Employment
1	Food Products	502	1566.35	4633
2	Beverages, Tobacco & Tobacco Products	209	104.03	342
3	Cotton Textile	171	40.18	434
4	Wool, Silk & Synthetic Fibred Textile	0	0.00	0
5	Hosiery & Garments	1190	107.96	1713
6	Wood Products	485	63.38	956
7	Paper Products & Printing	116	92.87	455
8	Leather Products	15	6.17	43
9	Rubber & Plastic Products	468	1030.72	2973
10	Chemical & Chemicals Products	217	409.88	1053
11	Non-Metallic Mineral Products	328	621.13	2224
12	Basic Metal Industries	800	1143.66	6177
13	Metal Products	3246	1640.82	19006
14	Machinery & Parts except Electrical	499	466.73	1971
15	Electrical Machinery & Appartus	80	55.66	406
16	Transport Equipment & Parts	238	111.64	2307
17	Miscellaneous Manufacturing Industries	212	65.50	741
18	Repairing Services	2616	396.94	4193
19	Others industries Not elsewhere classified	1269	952.05	2360
	Total	12661	8875.67	51987

C. Talukawise Registration of SSI Units (Up To 01.10.2006)

Sr. No.	Taluka	SSI Units Nos.	Investment in P & M(in Lacs)	Employment
1	Okha Mandal	619	517.19	1138
2	Khambhalia	496	565.73	1479
3	Jamnagar	7578	5537.73	41096
4	Jodiya	555	124.97	970
5	Dhrol	670	242.49	1331
6	Kalavad	656	229.06	1118
7	Lalpur	322	1138.67	1115
8	Bhanvad	594	174.11	1123
9	Jamjodhpur	702	205.10	1587
10	Kalyanpur	469	140.62	1030
	Total	12661	8875.67	51987

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 enactment of the MSME Development Act from 2nd October, 2006, registration of all the MSMEs came within the purview of the Industries Commissionerate.

II. INDUSTRIAL STATISTICS: Micro, Small & Medium Enterprises

(A) Progress in Micro Enterprises Registration:

Year	No. of Regd. Units	Investment Rs. In Lacs	Employment
02.10.2006-07	79	899.93	683
2007-08	256	4412.58	2538
2008-09	388	5603.99	3157
2009-10	436	7937.90	3380
2010-11	647	8295.70	3849
2011-12	766	12550.91	8601
2012-13	1074	17584.02	7389
2013-14	858	8997.08	5098
2014-15	885	7437.19	3426
TOTAL	5389	73719.30	38121

(B) Progress in Small Enterprises Registration:

Year	No. of Regd. Units	Investment Rs. In Lacs	Employment
02.10.2006-07	16	2344.37	391
2007-08	57	11907.61	2250
2008-09	41	4087.50	959
2009-10	46	5132.00	1106
2010-11	51	5940.99	1073
2011-12	53	9420.59	1181
2012-13	66	10692.40	1048
2013-14	89	15127.57	1360
2014-15	62	7725.15	17061
TOTAL	481	72378.18	26429

(C) Progress in Medium Enterprises Registration:

Year	No. of Regd. Units	Investment Rs. In Lacs	Employment
02.10.2006-07	1	1416.00	36
2007-08	0	0.00	0
2008-09	0	0.00	0
2009-10	2	605.00	877
2010-11	12	7489.00	84
2011-12	3	2536.00	52
2012-13	10	7167.00	50
2013-14	4	3987.00	26
2014-15	1	649.00	1
TOTAL	33	23849.00	1126

Existing Status of Large & Medium Industries :

There are 37 Large and Medium scale Industries working in the district Which Produce Solvent, Edible Oil, Cement, Yarn, Soda Ash, Salt, Fertilizer, Agricultural equipments etc. Major well Known industries are Bombay Dying, New Bharat Works, Brooke Bond India, Digvijay Cement, Tata Chemicals, Bombay Minerals, Natraj Ceramics, G.S.F.C., Reliance, Essar etc. Details of Medium & Large Scale units in the district are as under :

Sl.	Name & Place of the units	Products
1	New Digvijaysinh Tin Factory, Jamnagar	Agricultural Implements
2	Indian Extraction Pvt .Ltd, Jamnagar	Solvent Extraction Plant
3	Sanjay Oil Cake Industries, Jamnagar	Edible Oil
4	New Bharat Engineering Works, Jamnagar	Machine Tools & Diesel Engine
5	Panchsheel Solvent Industries, Jamnagar	Oil Mill Refinery & Solvent Extraction Plant
6	Oceanic Dehydrates P.Ltd., Jamnagar	Dehydration of Onion, Garlic & Other Vegetables
7	Brooke Bond India Ltd., Jamnagar	Tea & Chikori Packing
8	Dig Vijay Cement Co. Limited, Jamnagar	Cement
9	Dig Vijay Woolen Mill Ltd., Jamnagar	Woolen Yarn & Fabrics
10	Tata Chemicals Ltd., Mithapur	Soda Ash, Caustic Soda and Other chemicals
11	Carborandorn Universal Co. Okha	Energy Powder Aluminium Oxide
12	Oceanic Solvent Industries Ltd. Jamnagar	De-oiled Cake, Oil
13	Kanti Oil Mills, Jamnagar	Oil Cake, Oil
14	Don Oil Mills, Jamnagar	De-oiled Cake, Oil
15	Belarpur Industries Ltd., Singarch, J'nagar	Salt & Other Chemicals
16	Umesh Oil Products P. Ltd., Jamnagar	De-oiled Cake, Oil
17	Bombay Minerals Ltd., Jamkhambhalia	Calcite, Bauxite
18	Natraj Ceramic & Chemical Industries Pvt. Ltd., Jamkhambhalia	Refractories, Calcite, Bauxite
19	Gujarat State Fertiliser Co., Sikka	Fertiliser
20	Alma Frozen Food P Ltd., Veraval J'nagar	Fish Frozen
21	B.L.Agarwal & Sons Pvt. Ltd., Okha	Metalogical Cake
22	Birla VXL Ltd., Jamnagar	Converter Manmade Fiber Woolen Weaving System
23	Charm Marine Products Ltd., Veraval	Frozen Sea Food
24	Gujarat NRI Cake Ltd., Jamnagar	Metalogical Cake
25	Mayank Metallurgical P.Ltd., Jamnagar	Copper Zinc based Alloy

Sl.	Name & Place of the units	Products
26	VXL India Ltd., Jamnagar	Worsted Yarn Wool Tops
27	Saurashtra Salt & Chemicals Ltd., Jamnagar	Salt Chemical
28	Century Chemicals Ltd., Jamnagar	Refined Iodised Salt Bromine
29	Chaugule & Co. Balambha, Ta.Joduya	Salt
30	Integrated Prorein Ltd Bedeshwar, J'nagar	Soyabin , Solvent Extraction
31	Bardanwala Indus. Ltd.Padana, J'nagar	HDPE Woollen Sacks
32	Saurashtra Calsine Bauxite & Allied Industries Pvt. Ltd.Bhatiya, Ta.Kalyanpur	Calcite Bauxite
33	Salate Sea Food Pvt. Ltd., Dwarka	Sea Food Marine Products
34	Raghuvanshi Refractories, Bhatiya, J'nagar	Calcite Bauxite
35	Reliance Indus. Ltd. Moti Khavdi, J'nagar	Petrochemicals
36	Essar Oil Refinery & Essar Powerprojects	Oil Mill Refinery& Power Plants
37	Nananagar Matcock Ltd Khiri Ta. Jodia	Matturgical Cokh

Existing Cluster of Micro & Small Enterprise :

The state Government has taken initiatives to extend support for further strengthening industrial clusters 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 in Jamnagar dist Brass Parts & Plastic Buttons has been taken up for further development through CEPT.

Growth Trend :

The economy is well augmented by the presence of a well established industrial infrastructure. There is presence of a significant number of industrial estates and parks in the district. Sectors such as cement, edible oil refinery plants, textiles, engineering and fish processing also contributes to the economy. Fish processing industry is a major sector in the Jamnagar with processed fish exported to Singapore, China, Hong Kong, Japan, Dubai and various other parts of the world. Under the new government policy on Bio technology, Jamnagar has been identified as one of the agriculture biotechnology zone.

Major Exportable Item

- 1) Brass Products
- 2) Cotton Yarn
- 3) Cotton Bale
- 4) Salt

General issues raised by industry associations:

Shortage and irregular supply of power, lack of working capital funds are some of the problems faced by the SSI units. Major constraint faced by GIDC Estates is water shortage . Availability of drinking water and water for industrial use poses a problem. High cost of plots, as a result of high purchase prices are also a constraint in industrial development.

- (1) It is a hard fact that MSMEs are the least preferred entities while allowing financing at the reasonable rates. The major chunk of banking finance goes to major corporate houses. This need to be improved at once in the favour of MSMEs allowing financing at the reasonable rates.
- (2) The region is having very low awareness towards policy changes. However, the various departments are doing their efforts but still those efforts need to be enhanced.
- (3) A proper policy formation on encouragement of different agro commodities is required, as Jamnagar & Saurashtra is hub of agro exports. Policy to encourage local products of edible oil seeds should be introduced at the earliest, as we are heavily dependent on import of edible oil. A fixed long time export policy shall also be introduced on the exports of cotton bales. As without this, the farmers are always at receiving end in huge loss.

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.

Jamnagar district offers good scope for entrepreneurs to establish new industrial units for manufacturing various products. 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. Following Agro-based and Food Processing industries have scope in the district.

Sr.No.	Description	NIC-2004 Code
1	Surgical Dressings Manufacturing	24236
2	Cattle-Feed	15331
3	Poultry Egg Production	01222
4	Spices Processing	15495
5	Dehydration of Onion/Garlic	15132
6	Flour Mills	15311
7	Besan Mill	15311
8	Castor Oil Mills	15142
9	Sugar Mills	15421
10	Fruit Juices & Squashes	15134
11	Dhana Dal	15313
12	MakaiPoha	15315
13	Pickles	15136
14	Namkeen	15316
15	Biscuits	15412
16	Bakery	15419
17	Spice Powder	15134

18	Mamra/Poha	15319
19	Pop Corn	15497
20	Potato Wafer	15499
21	Groundnut Oil	15142
22	Dal Mill	15313
23	Ice Cream	15205

(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	Quarry Stone	14102
3	Bentonite Powder	24229
4	Bricks	26933
5	Pottery	26939
6	Sanitary Wares	26914
7	Cement Blocks	26954

After utilization of these resources by the present industries, scope exists for their further utilization in the district for various industrial purposes.

C) Live Stock based industries

Livestock resources are not now profitably utilised for industrial purposes. The district has good supply of hides and skins. The finished leather utilities units can be set up in the district. Jamnagar district is an ideal place for animal husbandry activities. Following Livestock and Poultry can be set up in district.

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	Dairy	15201

D) Forest based Industries

The development of forest/wasteland development assumes special significant in case of Jamnagar district. The district is often plagued by drought like conditions because of scanty rainfall. Raising of forestry species in wastelands prevents desert formation and helps in maintaining ecological balance.

There also exists a possibility of promoting forest based cottage industries in the district by encouraging entrepreneurs to take up value addition of forest produce. There is scope for setting up of Gum processing unit, Charcoal manufacturing unit, Furniture making , Bamboo basket making, tendu leaf processing, Medicinal plant processing , Processing of rose flowers and seeds.

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

(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) Plastic based Industries

Sr. No.	Description	NIC- 2004 Code
1	PVC Doors & Windows	25209
2	Storage Water Tank	25209
3	Polyphone Bags	25204
4	LDPE / HDPE Film Bags	25204
5	PVC Reinforced Suction Pipe	25209
6	PVC Doors & Windows	25209
7	Plastic Toys	36941
8	Surgical and Industrial Gloves	33115
9	Rigid Polyethene Pipes	25209

DEMAND BASED INDUSTRIES

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

1. Agriculture Implements:

There has been all round emphasis on the development of agriculture during the Five year Plans. 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	Harvester	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 as coating to prevent corrosion of various materials used in equipments. 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 Jamnagar 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 Jamnagar district.

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 Parlors	93020
11	Computerized Wheel Balancing	50200
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 Parlor	55209
18	Ice Cream Parlor	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
26	Bore well Repairing	29128

IV. ANCILLARY DEVELOPMENT:

Looking into the requirements of Medium/Large scale industries, following industries could be considered for establishment in the district

Sr. No	Description	NIC-2004 Code
1.	Aluminum Pipe Fittings	27203
2.	Agriculture Machine & equipment	51219
3.	Electric Motors 5 HP to 25 HP	31103
4.	Nut Bolt MS to 24 with nut and washer	28991
5.	Hardware & Sanitary Fittings	51433
6.	Pipes of Rubber	25191
7.	Nuts of Metal Manufacturing	28991
8.	Oil Seeds	51217
9.	R. C. C. Bricks Manufacturing	26954
10.	Rope Manufacturing	17232
11.	Welding Accessories	29229
12.	V.Belt/Weigher Belts	29196
13.	Wooden Paper Box for packing	20231
14.	Stationery items Manufacturing	21098
15.	PlywoodManufacturing	20211
16.	Bearings Various Types	29131
17.	Molded rubber parts	25206
18.	Hand Tools	29229
19.	Fasteners	28991
20.	Grinding Wheels	29246

Before setting up the above industries based on the ancillary requirements of medium/large scale industries, prospective entrepreneurs are advised to ensure that the concerned units have to obtain their requirements from them consistent with quality. They are advised also enter into certain understanding in this regard before starting such industries. The above list of prospective industries is not an exhaustive list but can be used as reference. 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:

MSME- Development Institute
Government of India, Ministry of MSME,
Harsiddh Chambers, 4th Floor, Ashram Road, AHMEDABAD 380 014

CHAPTER – VIII**CONCLUSION**

District Industrial Potentiality Survey Report of Jamnagar 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. Jamnagar district offers good scope for entrepreneurs to establish new industrial units for manufacturing as well as service based industries.
