



Government of India
Ministry of MSME

Brief Industrial Profile of Bhavnagar District



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1. General Characteristics of the District

1.1 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 152 Kms . It has a geographical area of 9971 Sq. Kms.

1.2 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 the 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 Umralla taluka receive less than the average rainfall in the district.

1.3 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 Ghogha Taluka. 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.

PRODUCTION OF MINERAL 2010-11

S.NO.	NAME OF MINERAL	PRODUCTION in tones
MAJOR MINERAL		
1	Lignite	1179050
2	Dolomite	7135
3	Lime Stone	4250
MINOR		
1.	Black Trap	1249560
2.	Bentonite	297336
3.	Ordinary Sand	659332
4.	Hard Murrum	29884
5.	B.Lime Stone	52624
6.	Soft Murrum	5260
7.	Ordinary Clay	41396
8.	Brick Earth	29676
9.	Sand Stone	8

SOURCE: DEPT OF MINES & GEOLOGY, BHAVNAGAR

1.4 FOREST

Total area covered under forest is 21216.23 hectares.

1.5 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 Vallabhipur talukas are locally known as 'Bhal' vistar. Palitana and Gariadhar talukas are known 'Khara-pat' vistar.

2. District at a Glance

S.No.	Particulars	Year	Unit	Statistics
1	Geographical features			
(A)	Geographical Data			
	i) Latitude	2010-11	Degree	21.05° to 22.10°North
	ii) Longtude	2010-11	Degree	71.03° to 72.09°East
	iii) Geographical Area	2010-11	Hectares	997100
(B)	Administrative Units			
	i) Sub Divisions	2010-11	Nos.	6
	ii) Tehsils	2010-11	Nos.	12
	iii) Sub-Tehsil	2010-11	Nos.	NA
	iv) Patwar Circle	2010-11	Nos.	15
	v) Panchayat Simitis	2010-11	Nos.	775
	vi) Nagar Nigam	2010-11	Nos.	1
	vii) Nagar Palika	2010-11	Nos.	8
	viii) Gram Panchayats	2010-11	Nos.	775
	xi) Revenue Villages	2010-11	Nos.	824
	x) Assembly Area	2010-11	Nos.	9
2.	Population			
(A)	Sex-wise			
	i) Male	2011	Persons	1490465
	ii) Female	2011	Persons	1387496
(B)	Rural Population	2011	Persons	1697808
3.	Agriculture			
A.	Land utilization			
	i) Total Area	2010-11	Hectare	857945
	ii) Forest cover	2010-11	"	26924
	iii) Non Agriculture Land	2010-11	"	98557
	iv) Cultivable Barren Land	2010-11	"	59782
4.	Forest			
	(i) Forest	2010-11	Ha.	21216.23
5.	Livestock & Poultry			
A.	Cattle			
	i) Cows	2007	Nos.	340063
	ii) Buffaloes	2007	Nos.	334140
B.	Other Livestock			
	i) Goats	2007	Nos.	199173
	ii) Pigs	2007	Nos.	00
	iii) Dogs & Bitches	2007	Nos.	5373
	iv) Railways			
	i) Length of rail line	2010-11	Kms.	371

	V) Roads			
	(a) National Highway	2010-11	Kms.	109
	(b) State Highway	2010-11	Kms.	788
	(c) Main District Highway	2010-11	Kms.	183
	(d) Other district & Rural	2010-11	Kms.	18
	(e) Rural road/Agriculture Marketing Board Roads	2010-11	Kms.	124
	(f) Kachacha Road	2010-11	Kms.	NA
	(VI) Communication			
	(a) Telephone connection	2010-11	Nos.	45151
	(b) Post Offices	2010-11	Nos.	
	(c) Telephone Centre	2010-11	Nos.	130
	(d) Density of Telephone	2010-11	Nos./1000 person	1.83
	(e) Density of Telephone	2010-11	No. per KM	4.52
	(f) PCO Rural	2010-11	No.	126
	(g) PCO STD	2010-11	No.	279
	(h) Mobile	2010-11	No.	239533
	(VII) Public Health			
	(a) Allopathic Hospital	2010-11	No.	20
	(b) Beds in Allopathic Hospitals	2010-11	No.	1895
	(C) Ayurvedic Hospital	2010-11	No.	2
	(d) Beds in Ayurvedic Hospital	2010-11	No.	120
	(e) Unani Hospitals	2010-11	No.	NA
	(f) Community health centers	2010-11	No.	17
	(g) Primary health centers	2010-11	No.	48
	(h) Dispensaries	2010-11	No.	27
	(i) Sub Health Centers	2010-11	No.	NA
	(j) Private hospitals	2010-11	No.	NA
	(VII) Banking Commercial			
	(a) Commercial bank	2010-11	Nos.	158
	(b) Rural Bank Products	2010-11	Nos.	24
	(c) Co-Operative Bank Products	2010-11	Nos.	92
	(d) PLDB Branches	2010-11	Nos.	25
	(IX) Education			
	(a) Primary Schools	2010-11	Nos.	1063
	(b) Middle Schools	2010-11	Nos.	498
	(c) Secondary & Sr.Secondary School	2010-11	Nos.	177
	(d) Colleges	2010-11	Nos.	98
	(e) Technical University	2010-11	Nos.	00

2.1 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-	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

3. INDUSTRIAL SCENERIO OF BHAVNAGAR DISTRICT

3.1 Industry at a Glance

Sr.No.	Head	Unit	Particulars
1.	REGISTERED INDUSTRIAL UNIT	NO.	723
2.	TOTAL INDUSTRIAL UNIT	NO.	723
3.	REGISTERED MEDIUM & LARGE UNIT	NO.	26
4.	ESTIMATED AVG. NO. OF DAILY WORKER EMPLOYED IN SMALL SCALE INDUSTRIES	NO.	5000
5.	EMPLOYMENT IN LARGE AND MEDIUM INDUSTRIES	NO.	8472
6.	NO. OF INDUSTRIAL AREA	NO.	10
7.	TURNOVER OF SMALL SCALE IND.	IN LACS	12805
8.	TURNOVER OF MEDIUM & LARGE SCALE INDUSTRIES	IN LACS	25800

3.2 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

3.3 DETAILS OF EXISTING MICRO & SMALL ENTERPRISES AND 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
5				
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

3.4 Large Scale Industries/Public Sector Undertakings

List of the units in Bhavnagar

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.

3.5 Major Exportable Item

Onion & other dehydrated product, Silica ,Tooth Paste

3.6 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.

3.7 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.

3.8 Medium Scale Enterprises

3.8.1 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, Bhavnagar
- 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 Polystrap 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`

3.8.2 Major Exportable Item

Dehydrated Vegetable

3.9 Service Enterprises

3.9.1 Service 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.

3.9.2 Potentials areas for service industry

A) Toolkit for Self-employed women at the urban and rural level for

Sl. No.	Description as NIC 2004	5 Digit Code
1	Custom Tailoring (with Manual machine)	18105
2	Custom Tailoring (with electric motors)	18105
3	Washing & ironing of clothes	93010
4	Beauty Parlor	93020

B) Toolkit for Repair Service Providers:

Sl. No.	Description as NIC 2004	5 Digit Code
1	Repair of bicycles and other non-mechanical vehicles	52605
2	Repair of household electrical appliances	52602
3	Plumbing & drainage	45301
4	Repair of TV, VCR, Refrigerator etc.	52603
5	Printing of advertising material	22211
6	Repair & maintenance of electric motors, generators & transformers	31108
7	Repair & maintenance of other electrical equipments n.e.c.	31908
8	Repair & maintenance of transport equipment.	35998
9	Retreading of tyres, replacing of tread & used pneumatic tyres	25114
10	Maintenance & repair of motor cycle, scooters and three wheelers	50404
11	Repair & maintenance of agriculture & forestry machinery	29218

C) Other Services:

Sl. No.	Description as NIC 2004	5 Digit Code
1	Hair dressing & other beauty treatment	93020
2	Renting of tents, electrical appliances, furniture, tableware, crockery & utensils.	71301
3	Galzing, plastering, painting & decorating, floor sending and other similar building finishing works	45402
4	Activities of caterers	55204

3.6 Potential for New MSMEs:**NIC 2004 CODE DESCRIPTION**

01405 Cotton ginning, cleaning and baling
05011 Fishing on commercial basis in ocean, sea and coastal areas
05012 Fishing on commercial basis in inland waters.
10203 Cleaning, sizing and pulverising of lignite
11101 Off shore extraction of petroleum
11102 On shore extraction of petroleum
11103 Off shore extraction of natural gas
11204 On shore extraction of natural gas

11201 Services incidental to off shore oil extraction

11202 Services incidental to on shore oil extraction
 11203 Services incidental to off shore gas extraction
 11204 Services incidental to on shore gas extraction
 13100 Mining of iron ores [includes mining of hematite, magnetite, limonite, siderite or taconite etc. which are valued chiefly for iron content. Production of sintered iron ores is also included].
 13203 Mining of aluminium ores (bauxite)
 14102 Quarrying of granite
 14104 Mining of dolomite
 14105 Mining of gypsum including selenite
 14106 Operation of sand or gravel pits, basalt / porphyry, clay (ordinary) , crushing and breaking of stone for use as a flux or raw material in lime or cement manufacture or as building material, road metal or ballast and other materials for construction.
 14108 Mining of clays (kaolin, ball clay, wollastonite, bentonite, fuller's earth, fire clay etc.)
 14109 Mining of refractory non-clay minerals (andalusite, kyanite, sillimanite, dunite diaspore, magnesite and pyrophyllite).
 14221 Salt mining, quarrying, screening etc.
 14297 Mining of felspar and silica minerals including quartz, quartzite and fuch. quartzite.
 15111 Mutton-slaughtering,
 15116 Processing and canning of meat
 15122 Artificial dehydration of fish and sea food
 15124 Processing and canning of fish
 15132 Artificial dehydration of fruit and vegetables
 15134 Manufacturing of fruit/vegetable juices and their concentrates, squashes and powder
 15135 Manufacture of sauces, jams, jellies and marmalades
 15136 Manufacture of pickles, chutneys, murabbas etc.
 15137 Canning of fruit and vegetables
 15141 Manufacture of hydrogenated oils and vanaspati ghee etc.
 15201 Manufacture of milk powder, ice-cream powder and condensed milk except baby milk foods
 15203 Manufacture of butter, cream, ghee, cheese and khoya etc.
 15204 Manufacture of pasteurized milk whether or not in bottles/ polythene packs etc. (plain or flavoured)
 15205 Manufacture of ice-cream and kulfi etc.
 15311 Flour milling
 15312 Rice milling
 15313 Dal milling
 15318 Manufacture of other readymade mixed powders like idli, gulabjamun etc.
 15321 Manufacture of starch
 15323 Manufacture of glucose & glucose syrup, maltose
 15331 Manufacture of cattle feed
 15332 Manufacture of poultry feed
 15412 Manufacture of biscuits, cakes and pastries
 15421 Manufacture and refining of sugar (vacuum pan sugar factories)
 15422 Manufacture of `gur' from sugar cane
 15424 Manufacture of `khandsari' sugar from sugar cane
 15428 Manufacture of molasses
 15432 Manufacture of sugar confectionery (except sweetmeats)
 15440 Manufacture of marconi, noodles, couscous and similar farinaceous products
 15492 Coffee curing, roasting, grinding and blending etc. including manufacture of instant coffee, chicory and other coffee substitutes, essence of concentrates of coffee.
 15494 Manufacture of malted foods including food for infants and invalids
 15495 Grinding and processing of spices
 15496 Manufacture of papads, appalam and similar food products
 15533 Manufacture of malt
 15541 Manufacture of aerated drinks
 15543 Manufacture of mineral water
 15544 Manufacture of ice

15545 Manufacture of soft drinks
 16001 Tobacco stemming, re drying etc. of tobacco leaf.
 16002 Manufacture of bidi
 16003 Manufacture of cigarette and cigarette tobacco
 16004 Manufacture of snuff
 16006 Manufacture of 'zarda'
 16007 Manufacture of catechu (katha) and chewing lime
 16008 Manufacture of pan masala and related products.
 17111 Preparation and spinning of textile fiber including weaving of textiles (excluding khadi/handloom)
 17114 Preparation and spinning of man-made fiber including blended* man-made fiber.
 17115 Weaving, manufacture of cotton and cotton mixture fabrics.
 17116 Weaving, manufacture of silk and silk mixture fabrics.
 17117 Weaving, manufacture of wool and wool mixture fabrics.
 17118 Weaving, manufacturing of man-made fiber and man-made mixture fabrics.
 17121 Finishing of cotton and blended cotton textiles.
 17122 Finishing of silk and blended silk textiles.
 17123 Finishing of wool and blended wool textiles.
 17124 Finishing of man-made and blended man-made textiles.
 17126 Activity related to screen printing
 17132 Weaving of cotton khadi
 17133 Weaving of cotton textiles on handlooms
 17135 Weaving of woolen and silk khadi
 17136 Weaving of wool and silk on handlooms
 17137 Weaving of artificial/synthetic textile fabrics on handlooms
 17141 Bleaching, dyeing and finishing of cotton cloth and yarn by hand printing of cloth by hand
 17145 Bleaching, dyeing, printing and finishing of artificial/synthetic textile fabrics by hand
 17211 Manufacture of curtains, bed-covers and furnishings.
 17214 Manufacture of bedding, quilts, pillows, cushions and sleeping bags (manufacture of coir foam mattresses and pillows is classified in class 3610)
 17215 Manufacture of tarpaulin
 17221 Manufacture of blankets shawls
 17222 Manufacture of cotton carpets
 17223 Manufacture of woolen carpets
 17224 Manufacture of silk carpets
 17225 Manufacture of durries, druggets and rugs
 1723 Manufacture of cordage, rope, twine and netting
 17231 Manufacture of thread, including thread ball making
 17233 Manufacture of coir rope and cordage
 17241 Embroidery work by hand
 17242 Zari work by hand
 17243 Making of laces and fringes by hand
 17251 Manufacture of blankets and shawls by hand
 17252 Manufacture of cotton carpets by hand
 17255 Manufacture of durries, druggets and rugs by hand
 17291 Embroidery work and making of laces and fringes other than by hand
 17292 Zari work and making of other ornamental trimmings other than by hand
 17295 Manufacture of made-up canvas goods such as tents and sails etc.
 17296 Manufacture of wadding of textile materials and articles of wadding such as sanitary towels and tampons
 17298 Manufacture of waterproof textile excluding Tarpaulin.
 17301 Manufacture of knitted and crocheted cotton textile products
 17302 Manufacture of knitted and crocheted woolen textile products
 17303 Manufacture of knitted and crocheted synthetic textile products
 18101 Manufacture of all types of textile garments and clothing accessories
 18102 Manufacture of rain coats of waterproof textile fabrics or plastic sheetings
 18104 Manufacture of wearing apparel of leather and substitutes of leather
 18202 Manufacture of wearing apparel of fur and pelts

18204 Embroidering and embossing of leather articles
 19112 Tanning and finishing of sole leather
 19115 Crome tanning of leather
 19116 Finishing of upper leather, lining leather and garment leather etc.
 19121 Manufacture of travel goods like suitcases, bags and hold alls etc.
 19122 Manufacture of purses and other ladies handbags, artistic leather presented articles and novelties etc.
 19123 Manufacture of saddlery and harness
 19201 Manufacture of footwear (excluding repair) except of vulcalized or moulded rubber or plastic.
 19202 Manufacture of footwear made primarily of vulcalized or moulded rubber and plastic. This class includes manufacture of rubber footwear, plastic & PVC, canvas -cum-rubber/plastic footwear etc. including sports footwear.
 20101 Sawing and planing of wood (other than plywood)
 20211 Manufacture of plywood and veneer sheets
 20212 Manufacture of flush doors and other boards or panels
 20231 Manufacture of wooden boxes, barrels etc. (except plywood)
 20232 Manufacture of plywood chests
 20233 Manufacture of market basketry, grain storage bins, ration baskets including baskets made-up from rachis (toddy tree) and similar product made from bamboo and reed etc.
 20239 Manufacture of other wooden containers and products made entirely or mainly of cane, rattan, bamboo, willow, fibres, leaves and grass n.e.c.
 20291 Manufacture of wooden industrial goods
 20293 Manufacture of bamboo and cane article and fixture of bamboo, cane, reed and grass products (thatching etc.)
 20295 Manufacture of wooden agricultural implements
 20296 Manufacture from cane and bamboo of shopping bags, ornament boxes, costume articles, trays, table lamps, fancy baskets, table mats, tumbler and vessel holders and other household utilities
 21012 Manufacture of paper incl. Printing & writing paper
 21013 Manufacture of newsprint
 21014 Manufacture of packaging paper
 21015 Manufacture of paper board and straw board
 21021 Manufacture of sacks & paper bags
 21022 Manufacture of card board boxes
 21023 Manufacture of corrugated fiber board containers
 21024 Manufacture of corrugated paper board
 22190 Other publishing [includes publishing of photos and postcards, greeting cards, time-tables, forms, posters or other printed matters.]
 22211 Printing but not publishing of newspapers
 22219 Printing and allied activities like screen printing other than textile, n.e.c.
 22221 Engraving, etching and block making etc.
 22222 Book binding on account of others
 23201 Production of liquid or gaseous fuels, illuminating oils, lubricating oils or greases or other products from crude petroleum or bituminous minerals
 23202 Manufacture of paraffin wax
 23203 Bottling of LPG
 23209 Manufacture of other petroleum products n.e.c. (includes manufacture of petroleum jelly, micro-crystalline petroleum wax, slack wax, ozokerite, lignite wax, petroleum coke, petroleum bitumen and other residues of petroleum oils or of oils obtained from bituminous minerals. Manufacture of candles is classified in
 24111 Manufacture of industrial gases (includes manufacture of elemental gases, liquid or compressed air, acetylene refrigerant gases and mixed industrial gases etc.)
 24211 Manufacture of inorganic acids
 24113 Manufacture of tanning or dyeing extracts; tannings and their derivatives and colouring matter

- 24114 Manufacture of dyes (includes manufacture of such dyes and colouring matters which are for final use by household/industrial/institutional consumers, manufacture of special dyes used in laboratories e.g. to colour microscopic preparations is also included)
- 24115 Manufacture of turpentine and resins of vegetable origin
- 24121 Manufacture of nitric acid, ammonia, commercial ammonium chloride, nitrates of potassium and other basic chemicals of nitrogenous fertilizer industry
- 24122 Manufacture of straight inorganic fertilizers
- 24123 Manufacture of urea and other organic fertilizers
- 24124 Manufacture of mixed, compound or complex fertilizers
- 24131 Manufacture of synthetic rubber in primary forms
- 24211 Manufacture of insecticides, fungicides and weedicides
- 24222 Manufacture of paints, varnishes and similar coatings,
- 24221 Manufacture of prepared pigments, prepared pacifiers and prepared colours, vitrifiable enamels and glazes enrobes and similar preparations of a kind used in the ceramic, enameling or glass industry
- 24222 Manufacture of paints, varnishes, enamels or lacquers
- 24223 Manufacture of printing ink (manufacture of writing or drawing ink is classified in sub-class 24299)
- 24231 Manufacture of chemical substances used in the manufacture of pharmaceuticals: antibiotics, endocrine products, basic vitamins; opium derivatives; sulpha drugs;
- 24232 Manufacture of allopathic pharmaceutical preparations
- 24233 Manufacture of 'ayurvedic' or 'unani' pharmaceutical preparation
- 24234 Manufacture of homoeopathic or biochemical pharmaceutical preparations
- 24235 Manufacture of veterinary preparations
- 24236 Manufacture of surgical dressings, medicated wadding, fracture bandages, catgut and other prepared sutures
- 24241 Manufacture of soaps all types (includes medicated soap, household soaps, rosin, naphthenate soaps and industrial soaps)
- 24242 Manufacture of waxes & polishes (includes manufacture of artificial waxes, prepared waxes; polishes and creams for footwear, furniture, floor, coachwork, glass or metals and scouring-pastes/powders and similar preparations)
- 24244 Manufacture of perfumes and cologne de-eau
- 24245 Manufacture of preparations for oral or dental hygiene (includes manufacture of tooth pastes, tooth powder, mouth wash, oral, perfumes, dental fixative pastes and powders etc.)
- 24246 Manufacture of cosmetics and toileteries (includes manufacture of pre-shave, shaving or after shave preparations; personal deodorants and anti-respirants; perfumed bath salts and other bath preparations; beauty or make-up preparations and preparations for the care of the skin, other than medicaments; manicure and pedicure preparations etc.)
- 24247 Manufacture of hair oil, shampoo, hair dye etc. (includes manufacture of shampoos, hair sprays, hair fixers, hair oils, hair creams, hair dyes and bleaches and preparations for permanent waving or straightening of the hair etc.)
- 24248 Manufacture of "Agarbatti" and other odoriferous preparations which operate by burning
- 24291 Manufacture of matches
- 24292 Manufacture of explosive, ammunition and fire works
- 24298 Manufacture of processed salt
- 25111 Manufacture of tyres and tubes for motor vehicle, tractors and aircrafts
- 25112 Manufacture of tyres and tubes for motor cycles, scooters and three-wheelers
- 25113 Manufacture of tyres and tubes for cycles & cycle rickshaws
- 25114 Retreading of tyres; replacing of tread on used pneumatic tyres
- 25191 Manufacture of rubber plates, sheets, strips, rods, tubes, pipes, hoses and profile-shapes etc.
- 25192 Manufacture of rubber conveyor or transmission belts or belting
- 25193 Manufacture of rubber contraceptives
- 25194 Manufacture of rubber balloons
- 25201 Manufacture of semi -finished products of plastics
- 25202 Manufacture of packing products of plastics (except household)

25203 Manufacture of bathing tubs, wash-basins, lavatory pans and covers, flushing cisterns and similar sanitary-ware of plastics

25204 Manufacture of travel goods of plastics (suitcase, vanity bags, holdalls and similar articles)

25205 Manufacture of spectacle frames of plastic

25206 Manufacture of moulded industrial accessories of plastics [including electrical insulating fittings of plastics]

25207 Manufacture of tableware, kitchenware and other household articles and toilet articles of plastic, including manufacture of vacuum flasks and other vacuum vessels

25208 Manufacture of plastic headgear (helmets)

26101 Manufacture of glass in primary and semi manufactured forms (such as sheets & plates) including mirror sheets and wired, colored, tinted, toughened or laminated glass

26103 Manufacture of hollow glassware

26105 Manufacture of table and kitchen glassware

26911 Manufacture of articles of porcelain or china, earthenware, imitation porcelain or common pottery

26913 Manufacture of ceramic tableware and other articles

26915 Manufacture of ceramic insulators and insulating fittings for electrical machines, appliances and equipments

26921 Manufacture of refractory bricks, blocks, tiles and similar refractory ceramic constructional goods

26931 Manufacture of bricks

26932 Manufacture of non-refractory ceramic pipes, conduits, and guttering pipe fittings

26933 Manufacture of ceramic building material, other than bricks: flooring blocks, roofing tiles, wall tiles (whether or not glazed), flags and paving, mosaic cubes etc.

25914 Manufacture of ceramic sanitary wares: sinks, baths, water-closet pans, flushing

26915 Manufacture of ceramic insulators and insulating fittings for electrical machines,

26921 Manufacture of refractory bricks, blocks tiles and similar refractory ceramic

26922 Manufacture of refractory cements; ceramic products that can withstand the high temperature encountered in metallurgical operations; retorts, crucibles, muffles,

26941 Manufacture of cement in the form of clinkers

26942 Manufacture of Portland cement, aluminous cement, slag cement and similar hydraulic cement, except in the form of clinkers

26943 Manufacture of asbestos cement

26953 Manufacture of asbestos sheets

26954 Manufacture of R.C.C. bricks and blocks

26955 Manufacture of concrete tiles

26956 Manufacture of Hume pipes and other pre-fabricated structural components of cement and/or concrete for building or civil engineering

26960 Cutting, shaping and finishing of stone [includes cutting, shaping and finishing stone for use in construction, in cemeteries, on roads, as roofing and in other applications]

27110 Manufacture of Ferro alloys.

27120 Manufacture of Direct Reduced Iron (DRI)/Sponge Iron and other spongy ferrous products.

27130 Manufacture of Pig Iron (hot metal).

27141 Manufacture of semi -finished non ally steel of these shapes

27142 Manufacture of semi -finished alloy steel of these shapes

27143 Manufacture of semi -finished stainless steel of these shapes

27151 Manufacture of alloy-steel of these shapes

27152 Manufacture of non-alloy steel of these shapes

27153 Manufacture of stainless steel of these shapes

27161 Manufacture of non-alloy steel hot rolled flat products (including plates, sheets, strips, wide coils)

27162 Manufacture of alloy steel hot rolled flat products (including plates, sheets, strips, wide coils)

27163 Manufacture of stainless steel hot rolled flat products (including plated sheets, strips, wide coils)

- 27164 Manufacture of non-alloy steel cold rolled flat products (including sheets, strips, wide coils, TMBP)
- 27165 Manufacture of alloy steel cold rolled flat products
- 27172 Manufacture of Tinplate
- 27181 Manufacture of non-alloy steel wires
- 27182 Manufacture of alloy steel wires
- 27183 Manufacture of stainless steel wires
- 27184 Manufacture of wires coated with zinc or other materials
- 27201 Manufacturing of Copper (includes basic processing, smelting, refining for production of base metal; its further rolling, drawing and extruding; and production of powders or flakes, foil, plates, sheets or strip, bars, rods, profiles, wires, tubes, pipes and tube or pipe fittings)
- 27202 Manufacturing of Brass (includes the making of brass and its further rolling, drawing and extruding; and production of powders or flakes, foil, plates, sheets or strip, bars, rods, profiles, wires, tubes, pipes and tube or pipe fittings)
- 27203 Manufacturing of Aluminum (includes basic processing, smelting, refining for production of base metal; its further rolling, drawing and extruding; and production of powders or flakes, foil, plates, sheets or strip, bars, rods, profiles, wires, tubes, pipes and tube or pipe fittings)
- 27310 Casting of iron and steel
- 27320 Casting of non-ferrous metals
- 28111 Manufacture of doors, windows and their frames, shutters and rolling shutters ; fire escapes, gates and similar articles of iron or steel used on buildings
- 28112 Manufacture of fabricated structural products of iron or steel: bridges and bridge parts, towers, masts, columns, girders, trusses, arches, sluice gates, piers and jetties. Erection of the structures from self-manufactured parts is included
- 28113 Manufacture of fabricated structural products of metal other than of iron or steel
- 28121 Manufacture of containers of metal for compressed or liquefied gas such as gas cylinders
- 28122 Manufacture of tanks, reservoirs and similar containers
- 28123 Manufacture of central heating boilers, radiators and its parts and accessories
- 28128 Repair and maintenance of tanks, reservoirs and containers of metal
- 28131 Manufacture of steam or other vapor generating boilers and hot water boilers other than central heating boilers
- 28133 Manufacture of auxiliary plant for use with boilers, such as economizers, super heaters, steam collectors and accumulators; soot removers, gas recoverers and sludge scrapers and their parts and accessories
- 28138 Repair and maintenance of steam generators, except central heating hot water boilers
- 28910 Forging, pressing, stamping and roll-forming of metal; powder metallurgy
- 28931 Manufacture of metal articles in and about the house: knives and knife blades; other articles of cutlery; including cleavers and choppers, razors and razor blades, scissors, hair clippers and nail clippers; spoons, forks, ladles, skimmers, fish knives, tongs and other articles for use at table or in the kitchen
- 28932 Manufacture of tools of a kind used in agriculture, horticulture or forestry; of a kind used in carpentry, cabinet work or other wood work; of a kind used for mechanical assembly work; of a kind used in sheet metal work; and in other trades
- 28939 Manufacture of general hardware n.e.c.
- 28991 Manufacture of metal fasteners (nails, rivets, tacks, pins, staples, washers and similar non-threaded products and nuts, bolts, screws and other threaded products); springs including semi-finished springs for all purposes other than watch springs; metal chains (other than power transmission chains) and weights and measures
- 28992 Manufacture of containers used for packing or conveyance of goods: casks, drums, pails, cans, boxes etc. (manufacture of railway and ship containers used in container-traffic is classified 3420)

- 28993 Manufacture of reinforced safes, vaults, strong room doors and gates and the like
- 28994 Manufacture of metal sanitary ware, including baths, sinks, wash basins, and other metal sanitary and toilet articles, whether or not enamled
- 28996 Manufacture of hollow-ware, dinnerware or flatware whether or not of base metal plated with precious metal; fry pans, sauce pans, and other metal cooking utensils
- 28997 Manufacture of pressure cookers and other small hand operated kitchen appliances used in preparation, conditioning or serving of food
- 28998(A) Repair and maintenance of other fabricated metal products n.e.c.
- 29111 Manufacture of steam engines and turbines
- 29112 Manufacture of reciprocator or rotary spark-ignition or compression-ignition internal combustion piston engines for use in moving or stationary applications
- 29113 Manufacture of parts and accessories of engines and turbines.
- 29118 Repair and maintenance of engines and turbines, except aircraft, vehicle and cycle engines
- 29119 Manufacture of other movers n.e.c. hydraulic turbines, water wheels and their regulatory machinery; gas turbines for marine propulsion or for use as prime movers of electric generators or pumps; boiler-turbine set or a stationary steam engine with integral boiler.
- 29121 Manufacture of pumps, compressors, taps and valves
- 29128 Repair and maintenance of pumps, compressors, taps and valves
- 29131 Manufacture of bearings, gears, gearing and driving elements
- 29138 Repair and maintenance of bearings, gears, gearing and driving elements
- 29141 Manufacture of non-electric furnaces and ovens for roasting, melting or other heat treatment of ores, pyrites, non-metallic minerals, metals or other materials; manufacture of mechanical stokers, mechanical grates, mechanical ash dischargers and similar appliances
- 29142 Manufacture of electric furnaces or ovens, including induction or dielectric furnaces and ovens including incinerators and industrial heaters
- 29148 Repair and maintenance of ovens, furnaces and furnace burners
- 29149 Manufacture of other ovens, furnaces and furnace burners n.e.c.
- 29151 Manufacture of lifting and handling equipment
- 29158 Repair and maintenance of lifting and handling equipment
- 29191 Manufacture of refrigerators or freezing equipment for commercial and other non-household purposes and assemblies of their major components e.g. compressors and condensers mounted on a common platform even though motor, evaporator or cabinet is missing;; furniture designed to accommodate refrigeration of freezing equipment.
- 29192 Manufacture of domestic air-conditioners.
- 29193 Manufacture of fire extinguishers and other equipment for projecting, dispersing or spraying liquids or powders whether or not hand-operated, including sand blasting machines, stream cleaning machines etc.
- 29194 Manufacture of centrifuges machinery for liquids and gases, other than cream separators or clothes dryers
- 29195 Manufacture of packing and wrapping machinery including machines which perform one or more of such functions as filling, closing, sealing, capsuling or labeling containers such as bottles, cans, boxes or bags; machinery for cleaning or drying bottles or other containers or for aerating beverages.
- 29196 Manufacture of weighing machinery other than sensitive laboratory balances: household and shop scales, portable or mobile platform scales, scales for continuous weighing of goods, scales for weighing a continuous flow of liquid, weigh bridges and so forth, including weighing machinery incorporating calculators etc.
- 29197 Manufacture of filtering and purifying machinery or apparatus for liquids and gases

- 29198 Manufacture of distilling and rectifying plants; heat exchangers; machinery for liquefying air or gas; producer gas or water gas and acetylene gas generators.
- 29198 (A) Repair and maintenance of other general purpose machinery
- 29199 Manufacture of other general purpose machinery: fans intended for industrial applications, exhaust hoods for commercial, laboratory or industrial use; calendaring or other rolling machines other than for metals or glass; gaskets and similar joints made of a combination of materials or layers of the same material and other general purpose machinery n.e.c., including manufacture of parts and accessories for general purpose machinery and equipment.
- 29211 Manufacture of tractors, harvesters and other heavy machinery for use in agricultural and forestry (manufacture of over-the-road tractors for semi -trailers is classified in class 3410)
- 29212 Manufacture of light agricultural and forestry machinery and equipment other than forage press: ploughs, harrows, weeders, hoes, seeders, manure spreaders, thinners etc.
- 29214 Manufacture of parts and accessories for agricultural and forestry machinery and equipment
- 29218 Repair and maintenance of agricultural and forestry machinery
- 29221 Manufacture of automatic capstans and turrets and lathes
- 29222 Manufacture of boring, broaching, drilling and threading machines
- 29223 Manufacture of milling, planning, shaping, gear cutting and slotting machines
- 29224 Manufacture of grinding, lapping, honing and polishing machines
- 29225 Manufacture of sawing, contour sawing, filling and cut-off machines
- 29228 Repair and maintenance of machine-tools
- 29231 Manufacture of machinery for metallurgy: converters, ingot moulds, ladles and casting machines; metal rolling mills and rolls for such mills
- 29238 Repair and maintenance of machinery for metallurgy: converters, ingot moulds, ladles and casting machines; metal rolling mills and rolls for such mills
- 29241 Manufacture of lifting and handling machinery specially designed for use underground
- 29242 Manufacture of boring and sinking machinery
- 29243 Manufacture of machinery for treating minerals by screening, sorting, separating or similar processes
- 29244 Manufacture of bulldozers, angle-dozers and other earth moving machinery; manufacture of pile drivers, pile excavators and compacting machinery
- 29245 Manufacture of track-laying tractors used in construction or mining
- 29246 Manufacture of parts and accessories for machinery/equipment used by construction and mining industries
- 29248 (A) Repair and maintenance of machinery for mining, quarrying and construction
- 29251 Manufacture of machinery for dairy industry and for processing of meat, fish and poultry
- 29253 Manufacture of machinery chiefly employed by grain milling industry and for the oil mills: machinery to clean, sort or grade seed, grain or dried leguminous vegetables; machinery used to produce flour, meal or other ground products; machinery for the extration or preparation of animal or fixed vegetable fats and oils.
- 29254 Manufacture of machinery for manufacture of sugar and for manufacture of bakery and confectionery products
- 29255 Manufacture of machinery for manufacture of fruit/vegetable juices, malt liquors and alcoholic beverages including machinery for processing vegetables
- 29256 Manufacture of parts and accessories of machinery for industrial preparation or manufacture of food or drink.
- 29258 Repair and maintenance of machinery for food, beverage and tobacco processing
- 29261 Manufacture of machinery for preparation of textile fibers upto spinning stage and other similar machines, including ginning machinery.
- 29262 Manufacture of spinning machines for preparing textile yarns for weaving knitting

- 29264 Manufacture of machinery for washing, bleaching, dyeing, dressing, finishing coating or impregnating textile yarns, fabrics or made up apparel;; machines for applying paste to the base fabric or other support used in the manufacture of linoleum or similar floor coverings; machines for reeling, unreeling, folding, cutting or pinking textile fabrics.
- 29265 Manufacture of sewing and knitting machines: sewing machines of all types (including those for household use) and its heads.
- 29266 Manufacture of machinery for preparing, tanning or working hides, skins and leather; machinery for making or repairing footwear or other articles of hides, skins, leather or fur skins.
- 29267 Manufacture of laundry-type washing and drying machines and dry-cleaning machines; ironing machines including fusing presses, (manufacture of centrifugal clothes dryers is classified in class 2929)
- 29268 Manufacture of accessories and parts of all types of machinery for textile, apparel and leather production.
- 29268(A) Repair and maintenance of machinery for textile, apparel and leather production
- 29291 Manufacturing of machinery for working rubber or plastics or for manufacturing of products of these materials.
- 29292 Manufacture of machinery for producing tiles, bricks, shaped ceramic pastes, pipes, graphite electrodes, blackboard chalk, and foundry moulds etc.
- 29293 Manufacture of machinery for pulp, paper and paper board industries machinery for producing paper of a given size or shape or for producing articles such as envelopes, bags, boxes or cartons.
- 29294 Manufacture of printing machinery (presses, screen printers and other special printing machines), type-founding machinery; typesetting machinery; machines for photo-type setting and composing machines; blocks, plates and cylinders and other printing components; book binding machinery and machines for uses ancillary to printing (stockers, feeders, folders, gummers, staplers)
- 29295 Manufacture of molding boxes for metal foundry; mould bases; molding patterns, mould for metals (other than ingot moulds); metal carbides, glass, mineral materials, rubber or plastics and other parts special purpose machinery, not elsewhere classified.
- 29296 Manufacture of cement machinery
- 29297 Manufacture of pharmaceutical and chemical machinery
- 29298 Manufacture of centrifugal cloth dryers, machines to assemble electric or electronic lamps, tubes or bulbs in glass envelopes; machines for production of hot-working of glass or glassware; machinery for isotopic separation
- 29298(A) Repair and maintenance of other special purpose machinery
- 29301 Manufacture of oil stoves, hurricane lanterns and oil pressure lamps
- 29302 Manufacture of gas stoves, cooking ranges and other similar appliances
- 29303 Manufacture of electric fans
- 29304 Manufacture of vacuum cleaners and other electro-mechanical domestic appliances with self-contained electric motors, such as food processors and juice extractors etc.
- 29305 Manufacture of electro-thermal domestic appliances such as immersion water heaters, hot-plates, geysers; electro-thermal hair dressing appliances; electric irons and electric/electronic cooking appliances (ovens, micro-wave ovens, cookers, hot plates, toasters, coffee or tea makers etc.)
- 29306 Manufacture of domestic refrigerators/freezers
- 29307 Manufacturing of items based on solar energy like solar cookers, air/water heating system etc. except cell.
- 29308 Manufacture of other electric domestic appliances n.e.c. : dishwashers, household type laundry equipment, electric razors including parts and accessories for electrical domestic appliances

- 29309 Manufacture of other (non-electric) domestic appliances n.e.c. and part and accessories for electrical and non-electric domestic appliances
- 30003 Manufacture of hand-held or desk-top calculating machines; other calculators; accounting machines, cash registers, postage franking machines, ticket issuing machines and similar machines incorporating a calculating device.
- 30006 Manufacture of complete digital systems comprising a central processing unit, an input unit and an output unit; digital systems which include peripheral units such as additional input/output units, additional storage units etc
- 30009 Manufacture of automatic data processing machines and other computing machinery, including parts and accessories for computing machinery n.e.c.
- 31101 Manufacture of generators/generating sets
- 31102 Manufacture of transformers of all sizes and types & rewinding of electric motors
- 31103 Manufacture of electric motors : universal AC/DC motors and DC motors or generators
- 31104 Manufacture of converters all types (including inverters)
- 31108 Repair and maintenance of electric motors, generators and transformers
- 31109 Manufacture of all types of rectifiers, battery charges, inductors etc. n.e.c
- 31300 Manufacture of insulated wire and cable [insulated (including enamelled or anodized) wire, cable (including coaxial cable) and other insulated conductors; insulated strip as is used in large capacity machines or control equipment; and optical fiber cables]
- 31401 Manufacture of electric accumulators: lead-acid, nickel-cadmium, nickel-iron or other accumulators
- 31402 Manufacture of primary cells and primary batteries: cells containing manganese oxide, mercuric oxide, silver oxide or other material
- 31403 Manufacture of parts and accessories such as separators, containers, etc.
- 31404 Re-charging/re-conditioning of batteries
- 31501 Manufacture of electric filament lamps including manufacture of sealed beam lamp units
- 31502 Manufacture of ultra-violet or infra -red lamps
- 31503 Manufacture of discharge lamps, florescent, hot-cathode or other discharge lamps
- 31504 Manufacture of arc lamps
- 31505 Manufacture of flash bulbs used in photography
- 31506 Manufacture of lighting equipment, illuminated signs, illuminated name -plates and the like; flash light; torch; parts of electric lamps and lighting equipment (manufacture of lighting equipment for cycles and motor vehicles is classified in class 3190) parts of electric lamps
- 31901 Manufacture of electrical ignition or starting equipment of a kind used for spark ignition or compression ignition internal combustion engines; ignition magnetos,
- 31902 Manufacture of electrical lighting (other than sealed beam lamp units) or signaling including sound signaling equipment specialized for use on cycles and motor vehicles; windscreen wipers and electric defrosters and de-misters
- 31904 Manufacture of electro-magnets; electro-magnetic or permanent magnet chucks, clutches, brakes, couplings, clamps or lifting heads
- 31905 Manufacture of wiring sets including wiring sets of a kind used in vehicles, aircraft, ships or other machinery
- 31906 Manufacture of dynamos for cycles and motor-cycles
- 31907 Manufacture of electric sound or visual signaling apparatus (bells, sirens, indicators panels, burglar or fire alarms etc.)
- 31908 Carbon or graphite electrodes, carbon brush, lamp carbons, battery carbon with or without metals used for electronic purpose
- 31908(A) Repair and maintenance of other electrical equipment n.e.c.

- 32104 Manufacture of printed circuits i.e. circuits which are made by forming on an insulating base, by conventional or non-conventional printing process, conductor elements, contacts or other printed elements.
- 32106 Manufacture of electronic integrated circuit and micro-assemblies: monolithic or hybrid and electronic micro-assemblies of moulded module, micro-module or similar types.
- 32205 Manufacture of reception apparatus for radio-telephony or radio-telegraphy, including apparatus combined with sound recording or reproducing apparatus or a clock
- 32208 Repair and maintenance of television and radio transmitters and apparatus for line telephony and line telegraphy
- 32302 Manufacture of reception apparatus for radio broadcasting (includes apparatus with sound recording or reproducing apparatus or a clock).
- 32308(A) Repair and maintenance of television and radio receivers, sound or video recording or reproducing apparatus, and associated goods
- 32309 Manufacture of microphones, loudspeakers, ear-phone, amplifiers, sound amplifier sets and other sound/video reproducing apparatus n.e.c.
- 33111 Manufacture of apparatus based on the use of X-rays or alpha, beta or gamma radiations, whether or not for use in human or animal medicine. Included is the manufacture of X-ray tubes, high tension generators, control panels, desks, screens and the like
- 33112 Manufacture of instruments and appliances used in medical, surgical, dental or veterinary practice, including electro-diagnostic apparatus such as electrocardiographs, dental drill engines, ophthalmic instruments including sight testing sets, syringes, needles used in medicine and the like
- 33113 Manufacture of sterilizers
- 33114 Manufacture of mechanic-therapy appliances; massage apparatus; artificial respiration or other therapeutic respiratory apparatus; other breathing appliances and gas masks other than simple protective masks
- 33115 Manufacture of orthopedic appliances including crutches, surgical belts and trusses, orthopedic corsets and shoes; splints and other fracture appliances; appliances worn, carried or implanted (e.g. hearing aids or pace makers etc.)
- 33116 Manufacture of artificial teeth, artificial limbs and other artificial parts of the body
- 33121 Manufacture of regulating or controlling instruments and apparatus except industrial process control equipment: thermostats, pressure controllers, level regulators and automatic regulators of electrical quantities
- 33122 Manufacture of supply meters for electricity, water or gas
- 33123 Manufacture of sensitive balances and mathematical calculating instruments (e.g. measuring rods and tapes, micrometers, calipers, gauges etc.)
- 33124 Manufacture of radar apparatus and radio remote control apparatus
- 33126 Manufacture of navigational, meteorological, geophysical and related instruments and apparatus oceanographic or hydrological instruments; seismometers, rangefinders, automatic pilots, sextants, ultrasonic sounding instruments and special instruments for air navigation
- 33127 Manufacture of specialised parts and accessories for instruments and apparatus included in this group.
- 33130 Manufacture of industrial process control equipment [apparatus used for automatic continuous measurement and control of variables such as temperature, pressure, viscosity and the like of materials or products as they are being manufactured or otherwise processed]
- 33201 Manufacture of optical elements of glass or of any material; prisms and lenses, mirrors constituting optical elements; colour filters, polarizing elements; ophthalmic lenses, including contact lenses; optical fibers and cables of optical fibers not individually sheathed [(manufacture of optical sheathed fibers is classified in class 3130)glass (except mirror glass) and lenses

- 33202 Manufacture of spectacle frames and frames fitted with lenses, whether or not the lenses are optically worked (e.g. sun glasses, protective glasses and corrective glasses)
- 33203 Manufacture of optical instruments such as binoculars, monoculars, other optical telescopes and their mountings; optical astronomical instruments; compound
- 33208 Manufacture of specialized parts and accessories for photographic/cinematographic and optical instruments, n.e.c. (e.g. discharge lamps and other flashlight apparatus, but not flash bulbs; projection screens etc.)
- 33209 Manufacture of other photographic, cinematographic and optical instruments and apparatus n.e.c.: image projectors, enlargers and reducers including microfilm readers; and apparatus for photographic or cinematographic laboratories)
- 33301 Manufacture of watches and clocks of all kinds
 - 33302 Manufacture of parts and accessories for watches and clocks: watch and clock cases, including cases of precious metals; watch and clock movements; metal watch straps, watch bands and watch bracelets including those of precious metals; watch and clock springs, jewels, dials, ; and other parts
- 34101 Manufacture of heavy motor vehicles: buses and vans principally designed for transport of persons
- 34102 Manufacture of motor vehicles for the transport of goods: ordinary lorries, trucks and goods vans; lorries with automatic discharging devices, tankers, drop frame lorries, refuse collectors, etc. ; special purpose motor lorries and trucks e.g. motor breakdown lorries, armoured cars, street sweepers, mobile medical and dental clinics, travelling libraries etc.; also included over-the-road tractors for semi-trailers
- 34103 Manufacture of motor cars
- 34104 Manufacture of jeeps and station wagons
- 34107 Manufacture of compression-ignition or spark-ignition reciprocating or rotary internal combustion engines used to power motor vehicles
- 34201 Manufacture of bodies (including cabs) designed to be mounted on motor vehicle chassis, bodies for vehicles without chassis and unit construction bodies; bodies for passenger vehicles, lorries and special purpose vehicles; bodies of metal, wood, plastics or combination of these or other material
- 34202 Manufacture of trailers and semi-trailers designed to be drawn by motor vehicles, including rail-road trailers; parts of trailers and semi-trailers
- 34203 Manufacture of containers (including the containers for the transport of fluids) specially designed and equipped for carriage by one or more modes of transport
- 34300 Manufacture of parts and accessories for motor vehicles and their engines [brakes, gear boxes, axles, road wheels, suspension shock absorbers, radiators, silencers, exhaust pipes, steering wheels, steering columns and steering boxes and other parts and accessories n.e.c.]
- 35111 Making including repair of ships and other vessels drawn by power, whether or not used in passenger/freight carriages
- 35113 Building and repairing of non-motorised vessels (i.e. barges), other than pleasure or sporting boats
- 35114 Manufacture of sections for ships or floating structures.
- 35121 Manufacture and repair of pleasure and sporting boats drawn by power
- 35122 Building and repairing of non-motorised pleasure & sporting boats including inflatable boats and rafts.
- 35123 Manufacture of parts and accessories for pleasure and sporting boats
- 35203 Manufacture of specialized parts of railway or tramway locomotives or of rolling stock: bogies, axles and wheels, brakes and parts of brakes, hooks and coupling devices, shock absorbers (but not springs), wagon and locomotive frames, bodies and corridor connections

- 35208 Repair and maintenance of railway and tramway locomotives and rolling stock.
- 35991 Manufacture of bullock-carts, pushcarts, tongas and hand-carts etc.
- 35998 Repair and maintenance of other transport equipment.
- 35303 Manufacture of parts and accessories for aircraft and spacecraft: aircraft launching gear; deck arrestor or similar gear; major assemblies such as fuselages, wings, doors, control surfaces, landing gear and so forth; helicopter rotors etc.; motors and engines of a kind typically found on aircraft and other specialized parts and accessories for aircraft and space craft
- 35309 Manufacture of other air-craft, space craft and parts n.e.c.
- 35911 Manufacture of motorcycles (including mopeds) and cycles fitted with and is classified in class 2520)
- 35912 Manufacture of scooters
- 35913 Manufacture of three-wheelers
- 35923 Manufacture of parts and accessories for bicycles, cycle -rickshaws and invalid
- 36101 Manufacture of furniture & fixtures made of wood, cane & reed
- 30102 Manufacture of furniture and fixtures primarily of metal
- 36103 Manufacture of furniture and fixtures, primarily of plastics
- 36104 Manufacture of coir foam mattresses and pillows etc.
- 36109 Manufacture of photo frame and other furniture & fixtures n.e.c.
- 36911 Manufacture of gold jewellery: gold, silver and other precious metal jewellery; precious and semi-precious stone jewellery; gold and silver articles including presentation coins but not the coin used as a legal tender
- 36912 Diamond cutting and polishing and other gem cutting and polishing
- 36919 Manufacture of other jewellery and other articles, n.e.c.
- 36920 Manufacture of musical instruments [this class includes manufacture of keyboard stringed instruments, including automatic pianos, and other stringed instruments, keyboard pipe organs and harmoniums and similar keyboard instruments with free metal reeds, accordions and similar instruments including mouth organs]
- 36931 Manufacture of carrom boards and tables for billiards, table tennis and other parlour games
- 36932 Manufacture of billiard sticks, hockey sticks, cricket bats, stumps and other cricket accessories
- 36933 Manufacture of rackets for badminton, lawn tennis, table tennis etc.
- 36934 Manufacture of balls including those of billiards
- 36935 Manufacture of athletic/gymnasium articles and equipment
- 36941 Manufacture of children's play equipment including toys and toy musical instruments
- 36942 Manufacture of wooden toys, decoration pieces and wooden lamp stand etc. [including carved wood articles and articles made from coconut shells]
- 36992 Manufacture of umbrellas, sun umbrellas, walking sticks, seat sticks, whips, riding crops, buttons, press fasteners, snap fasteners, press studs and slide fasteners
- 36995 Making of candles, tapers and the similar products of wax
- 36996 Manufacture of imitation jewellery
- 36997 Manufacture of brooms and brushes; hand operated mechanical floor sweepers, mops and feather dusters; paint pads and rollers; squeezes and other brushes, brooms, mops etc.
- 36998 Manufacture of miscellaneous decorative articles .n.e.c.: articles made from ivory, bones and horns; artificial flowers; garland from natural fresh flowers and other novelties and presentation articles n.e.c.
- 36999 Manufacture of other miscellaneous products, n.e.c.: roundabouts, swings, shooting galleries and other fairground amusements; tailors' dummies, banners, signboards and other articles n.e.c.
- 37200 Recycling of non-metal waste and scrap [from old new papers, rejected glass articles and used non-metallic items etc. Collection of non-metal waste and scrap for recycling is included in 51498.]

40101 Generation and transmission of electricity: hydro-electric power plants
 40102 Generation and transmission of electricity: coal based thermal power plants
 40103 Generation and transmission of electricity: oil-based thermal power plants
 40106 Generation of solar energy
 40107 Generation and distribution of bio-gas energy
 40108 Generation of electricity from other non-conventional sources.
 40200 Manufacture of gas; distribution of gaseous fuels through mains
 41000 Collection, Purification and distribution of water
 45101 Site preparation in connection with mining [Includes work performed to develop or prepare mineral properties, except oil and gas sites]
 45102 Site preparation other than in connection with mining
 Building of complete constructions or parts thereof; civil engineering
 45201 General constructions (including alteration, addition, repair and maintenance) of residential buildings, carried –out on own-account basis or on a fee or contract basis.
 45202 General constructions (including alteration, addition, repair and maintenance) of non-residential buildings, carried –out on own-account basis or on a fee or contract basis.
 45203 Construction and maintenance of roads, rail-beds, bridges, tunnels, pipelines, rope-ways, ports, harbours and runways etc.
 45204 Construction/erection and maintenance of power, telecommunication and transmission lines
 45205 Construction and maintenance of waterways and water reservoirs
 45206 Construction and maintenance of hydro-electric projects
 45207 Construction and maintenance of power plants, other than hydro-electric power plants
 45208 Construction and maintenance of industrial plants other than power plants
 45301 Plumbing and drainage
 45302 Installation of heating and air-conditioning systems, antennas, elevators and escalators; insulation work (water, heat, sound); and sound proofing systems.
 45401 Setting of wall and floor tiles or covering with other materials like parquet, carpets, wall paper etc.
 45402 Glazing, plastering, painting and decorating, floor sanding and other similar finishing work
 45403 Finish carpentry such as fixing of doors, windows, panels etc. and other building finishing work n.e.c.
 45500 Renting of construction or demolition equipment with operator [Renting of machinery and equipment without operator is classified under Division 71]
 50404 Maintenance and repair of motor vehicles [including washing and polishing etc.]
 55101 Hotels and motels
 55102 Inns, Dharmshalas and other places providing short term lodging/ camping facilities open to general public, including those run by religious and charitable organisations (includes provision of short term accommodation in houseboats).
 55103 Provision of short term lodging/camping facility to members of a particular organisation (includes government guest/rest/circuit houses, company guest houses and similar establishments)
 55104 Operation of dormitories and/or residence halls/hostels at educational institutions for short-stay.
 55203 Canteens
 55204 Activities of caterers
 55205 Operation of dining cars in the railways and other transport facilities when carried on by separate units
 60102 Freight railway transport
 60211 Land transport other than urban, sub-urban including underground and elevated railways.
 60221 Other non-scheduled passenger land transport by motor vehicles
 60231 Freight transport by motor vehicles
 60232 Freight transport other than by motor vehicles (i.e. by man or animal drawn vehicles such as bullock carts, cycle rickshaws and the like)

- 60300 Transport via pipelines [Includes transport of gases, liquids, slurry and other commodities via pipelines. Included are the incidental activities like operation of pump stations and maintenance of the pipeline.]
- 61100 Sea and coastal water transport
- 61200 Inland water transport
- 63011 Cargo handling, incidental to land transport
- 63012 Cargo handling, incidental to water transport
- 63013 Cargo handling, incidental to air transport
- 63022 Warehousing of agricultural products with refrigeration (i.e. cold storage) Storage and warehousing n.e.c.[Includes general merchandise warehouses and warehousing of furniture, automobiles, gas and oil, chemicals, textiles etc. Also included is storage of goods in foreign trade zones]
- 63040 Activities of travel agencies and tour operators; tourist assistance activities n.e.c. [Includes furnishing travel information; advice and planning; arranging tours, accommodation and transportation for travellers and tourists; and furnishing tickets etc. Also included are tourist assistance activities, such as carried on by tourist guides]
- 63090 Activities of other transport agencies [Includes forwarding of freight, organisation or arrangement of transport on behalf of the shipper or consignee, receiving and acceptance of freight, transportation document preparation, consolidation and break bulk of freight, freight brokerage, custom house brokerage, bill auditing and freight rate information, brokerage for ship and aircraft space, packing and crating and unpacking and de-crating, weighing and sampling of freight etc. This also includes the services provided by chauffeurs and personal car drivers.]
- 64120 Courier activities other than national post activities
- 64201 Provision of basic telecom services: telephone, telex and telegraph (includes the activities of STD/ISD booths)
- 64202 Provision of value added telecom services: paging, e-mail, cellular phone, video conferencing, internet (service directly purchased from internet service providers) etc.
- 64203 Maintenance of telecom network
- 64204 Activities of the cable operators
- 71110 Renting of land transport equipment [Renting without operator of all kinds of transport equipment e.g. railroad vehicles cars trucks, trailers and semi trailers, motor cycles, scooters, including that of containers, caravans and campers.(Renting and leasing of vehicles or trucks with driver is classified in class
- 71120 Renting of water transport equipment [Renting of water transport equipment with operator is classified in appropriate class of division 61. Renting of pleasure boats and related docking facilities is classified in class 9249].
- 71210 Renting of agricultural machinery and equipment [Renting of this machinery or equipment with operators is classified in class 0140].
- 71220 Renting of construction and civil engineering machinery and equipment. [Renting of this machinery or equipment with operators is classified in class 4550].
- 71230 Renting of office machinery and equipment [including computers]
- 71301 Renting of tents, electrical appliances, furniture, table ware, crockery and utensils.
- 71303 Renting of books, journals and magazines etc. (lending of books is classified under class 9231)
- 71309 Renting of costumes, musical instruments and other personal and household goods including bicycle, footwear n.e.c.
- 72211 Production, supply and documentation of ready-made (non-customized) software
- 72212 Production, supply and documentation of ready-made (non-customized) operating system software
- 72213 Production, supply and documentation of ready-made (non-customized) software for business & other applications, where the application is by & large spelt out clearly

- 72214 Production, supply and documentation of ready-made (non-customized) computer games software for all platforms
- 72291 Analysis, design and programming of custom software, ready to use, including analysis of the user's needs and problems, consultancy on the best solution and production of software to realize this solution
- 72292 Development, production, supply and documentation of made-to-order soft-ware based on orders from specific users
- 72293 Writing of programmes of any kind following directives of the users
- 72294 Web-page designing
- 72295 Software maintenance
- 72300 Data processing. [This includes the processing or tabulation of all types of data. Provision of such services on (i) an hourly or time -share basis, and (ii) management or operation of data processing facilities of others on a time sharing basis; on a fee or contract basis].
- 72400 Database activities and distribution of electronic content [This includes data base development, data storage and data base availability. The provision of data in a certain order/sequence, accessible to everybody or to limited users and can be sorted on demand.(computerised documentation activities provided by libraries and archives are classified in class 9231)].
- 72501 Repair & maintenance of computers and computer based systems
- 72502 Repair of office, computing and accounting machinery (including repair of Xerox machine and duplicating machine) other than computers and computer based systems.
- 72901 Activities of cyber cafe
- 72909 Other computer related activities, n.e.c.
- 73100 Research and experimental development on natural sciences and engineering (NSE). [This class includes systematic creative work in the fields of research and development in natural sciences, medical sciences, agriculture and engineering & technology].
- 73200 Research and experimental development on social sciences and humanities (SSH). [This class includes systematic creative work in the fields of research and development in social sciences and humanities.(Market research is classified in class 7413)].
- 74110 Legal activities.[Legal services such as those rendered by advocates, barristers, solicitors, pleaders, mukhtiars, etc. (Law court activities are classified in class 7523).]
- 74120 Accounting, book-keeping and auditing activities; tax consultancy. [Data processing and tabulation are classified in class 7230; activities involving management consultancy by units that do not provide accounting or auditing services e.g. design of accounting systems, cost accounting programmes, budgetary control procedures etc. are in class 7414 and bill collection in class 7499].
- 74130 Market research and public opinion polling.[This class includes investigation on market potential, acceptance and familiarity of products and buying habits of consumers for the purpose of sales promotion and development of new products and investigation on collective opinions of the public about political, economic and social issues.]
- 74210 Architectural and engineering activities and related technical consultancy[Test drilling in connection with petroleum and gas extraction is classified in class 1120, Research and development activities in division 73, Technical testing in class 7499 and Interior decorating in class 7499].
- 74220 Technical testing and analysis.[Testing and analysis of medical and dental specimen are classified in class 8519].
- 74300 Advertising.[Printing of advertising material is classified in class 2221, Market research in class 7413, Public relations activities in class 7414, Direct mailing activities in class 7499, Production of commercial messages for radio, television and film are classified in the appropriate class of group 921].

- 74940 Photographic activities. [Includes microfilming, processing motion picture film related to the motion picture and television industries is classified in class 9211].
- 74993 Photostat, blue-printing, Xeroxing, copying of documents, ammonia printing and cyclostyling services
- 74994 Fashion design related to textiles, wearing apparel, shoes, jewelry, furniture and other fashion goods.
- 74996 Interior decoration

4. Existing Clusters of Micro & Small Enterprises:

No data about existing clusters is available and provided by the DIC, Bhavnagar.

5. General Issues raised by industry association during the course of meeting

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 of 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 bad 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.

6. STEPS TO SET UP MSMEs

Following are the brief description of difference agencies for rendering assistance to the entrepreneurs.

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), Vidyanagar Opp. Poltechnic, Bhavnagar
2.	Identification of Project Profiles, techno-economic and managerial consultancy services, market survey and economic survey reports.	1) District Industries Center (DIC) Vidyanagar Opp. Poltechnic, Bhavnagar 2)(Br.) MSME-Development Institute (MSME-DI) 3 rd Floor, Annexe Bldg, Amruta(Jasani)Bldg. Premises, Nr. Girnar Cinema, M.G.Road, Rajkot 360001 3)MSME-Development Institute (MSME-DI) Harsiddh Chambers,4 th Floor, Ashram Road , Ahmedabad
3.	Land and Industrial shed	Gujarat Industrial Development Corporation(GIDC) 'Navsarjan'Opp: Swaminarayan Gurukul, Gondal Road, Rajkot
4.	Financial Assistance	1)Commercial Banks 2) Co-operative Banks 3)Small Industry Development Bank of India (SIDBI) Jayanti Bhavan ,1 st Floor, P.B.No. 10, Navjivan P.O. Ahmedabad 380 014
5.	For raw materials under Govt. Supply	The National Small Industries Corporation Ltd.(NSIC) 203, Samruddhi Bldg., Opp. Old High Court, Ahmedabad
6.	Plant and machinery under hire/purchase basis	The National Small Industries Corporation Ltd .(NSIC) 203, Samruddhi Bldg., Opp. Old High Court, Ahmedabad
7.	Power/Electricity	Paschim Gujarat Vij Company Ltd.(PGVCL) Bhavnagar

8.	Technical Know-how	<p>1)(Br.) MSME-Development Institute (MSME-DI) 3rd Floor, Annexe Bldg, Amruta(Jasani)Bldg. Premises, Nr. Girnar Cinema, M.G.Road, Rajkot 360001</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>
9.	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>2)Electronics & Qaulity Development Centre(EQDC) Electronics Estate, GIDC, Gandhinagar 382 010</p>
10.	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 360001</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>
11.	Other Promotional Agencies	<p>1)Centre for Emtrepreneurship 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>