

STATE REVIEWS



# Indian Minerals Yearbook 2021

(Part- I)

60<sup>th</sup> Edition

STATE REVIEWS  
(Gujarat)

(ADVANCE RELEASE)

GOVERNMENT OF INDIA  
MINISTRY OF MINES  
INDIAN BUREAU OF MINES

Indira Bhavan, Civil Lines,  
NAGPUR – 440 001

PHONE/FAX NO. (0712) 2565471  
PBX : (0712) 2562649, 2560544, 2560648  
E-MAIL : [cme@ibm.gov.in](mailto:cme@ibm.gov.in)  
Website: [www.ibm.gov.in](http://www.ibm.gov.in)

July, 2023

## GUJARAT

### Mineral Resources

Gujarat is the sole producer of chalk and is the principal producer of clay (others), fluorite (graded), kaolin, silica sand, lignite, petroleum & natural gas and marl in the country. The State is the sole holder of the country's chalk, marl and perlite resources and possesses 66% fluorite, 28% diatomite, 25% bentonite, 18% granite, 12% wollastonite, 10% limestone and 9% bauxite resources.

The important mineral occurrences in the State are: **bauxite** in Amreli, Bhavnagar, Jamnagar, Junagadh, Kheda, Kachchh, Porbandar, Sabarkantha & Valsad districts; **ball clay** in Banaskantha, Bharuch, Kachchh & Patan districts; **bentonite** in Amreli, Bhavnagar, Jamnagar, Kachchh & Sabarkantha districts; **china clay** in Amreli, Banaskantha, Bhavnagar, Jamnagar, Junagadh, Kachchh, Mahesana & Sabarkantha districts; **chalk** in Porbandar district; **diatomite** in Bhavnagar district; **dolomite** in Bhavnagar & Vadodara districts; **fireclay** in Bharuch, Kachchh, Mehsana, Rajkot, Sabarkantha, Surat & Surendranagar districts; **fluorite** in Vadodara & Bharuch districts; **gypsum** in Bhavnagar, Jamnagar, Junagadh, Kachchh and Surendranagar districts; **lignite** in Bharuch, Bhavnagar, Kachchh & Surat districts; **limestone** in Amreli, Banaskantha, Bharuch, Bhavnagar, Jamnagar, Junagadh, Kheda, Kachchh, Panchmahals, Porbandar, Rajkot, Sabarkantha, Surat, Vadodara & Valsad districts; **marl** in Amreli, Junagadh & Porbandar district; **ochre** in Banaskantha, Bhavnagar & Kachchh districts; **perlite** in Rajkot district; **petroleum and natural gas** in oil fields of

Ankaleshwar, Kalol, Navgam, Balol & Cambay in Cambay onshore and offshore basins; **quartz/silica sand** in Bharuch, Bhavnagar, Dahod, Kheda, Kachchh, Panchmahals, Rajkot, Sabarkantha, Surat, Surendranagar, Vadodara & Valsad districts; and **talc/soapstone/steatite** in Sabarkantha district.

Other minerals that occur in the State are: **apatite** and **rock phosphate** in Panchmahals district; **calcite** in Amreli & Bharuch districts; **copper ore** in Banaskantha district; **granite** in Banaskantha, Mahesana & Sabarkantha districts; **graphite** in Panchmahals district; **lead-zinc** and **marble** in Banaskantha & Vadodara districts; **manganese ore** in Panchmahals & Vadodara districts; **vermiculite** in Vadodara district; and **wollastonite** in Banaskantha district. The lignite resources are located in Bharuch, Bhavnagar, Kachchh and Surat districts (Tables - 1 and 2).

### Exploration & Development

The details of exploration activities conducted by GSI and various agencies during 2020-21 are furnished in Table - 3.

### Production

Lignite, Natural Gas, Petroleum (Crude), Bauxite, Limestone etc were reported from Gujarat. The value of minor mineral's production is estimated as ₹ 4,794 crore for the year 2020-21. There was 143 reporting mines in 2020-21 in case of MCDR minerals (Table-4).

### Mineral-based Industry

The present status of each mineral-based industry is not readily available. However, the important mineral-based industries in the Organised Sector in the State are furnished in Table - 5.

**Table – 2: Reserves/Resources of Lignite as on 1.4.2021: Gujarat**

(In million tonnes)				
District	Proved	Indicated	Inferred	Total
<b>Total</b>	<b>1278.65</b>	<b>283.70</b>	<b>1159.70</b>	<b>2722.05</b>
Kachchh	335.61	56.40	33.09	425.10
Bharuch	724.76	118.59	491.23	1334.58
Bhavnagar	–	–	299.17	299.17
Surat	218.28	108.71	336.21	663.20

*Source: Coal Directory of India 2020-21.*

**Table – 1 : Reserves/Resources of Minerals as on 1.4.2020 : Gujarat**

Mineral	Unit	Reserves				Remaining resources					Total resources (A+B)			
		Proved STD 111	Probable		Total (A)	Feasibility STD211	Pre-feasibility		Measured STD331	Indicated STD332		Inferred STD333	Reconnaissance STD334	Total (B)
			STD121	STD122			STD221	STD222						
Apatite	tonne	-	-	-	-	-	-	-	-	-	351000	351000	351000	
Bauxite	'000 tonnes	83448	2005	15777	101230	86746	41434	21913	29145	22107	82774	11678	295797	
Copper														
Ore	'000 tonnes	-	-	-	-	2013	2371	969	129	-	7131	-	12613	
Metal	'000 tonnes	-	-	-	-	31.2	35.8	19.67	0.69	-	113.38	-	200.74	
Diatomite	'000 tonnes	-	-	-	-	-	-	-	-	-	811	-	811	
Fluorite	tonne	-	-	-	-	8630000	-	-	-	5723360	1920	-	14355280	
Graphite	tonne	-	-	-	-	-	-	-	-	2520805	835000	-	3355805	
Lead-Zinc Ore														
Ore	'000 tonnes	-	-	-	-	2013	2371	969	129	-	200	-	5682	
Lead metal	'000 tonnes	-	-	-	-	81.94	88.2	34.41	3.9	-	-	-	208.45	
Zinc metal	'000 tonnes	-	-	-	-	111.73	111.44	37.13	1.1	-	-	-	261.4	
Lead-Zinc metal	'000 tonnes	-	-	-	-	-	-	-	-	-	0.9	-	0.9	
Limestone	'000 tonnes	722663	115984	64467	903115	507311	254583	176439	79919	2593098	18317659	160	21929169	
Manganese Ore	'000 tonnes	695	-	0	695	-	-	-	-	-	2180	-	2180	
Marl	tonne	50825000	17210000	110000	68145000	26474477	4189000	-	-	-	390000	-	31053477	
Perlite	'000 tonnes	-	-	-	-	140	683	595	-	-	-	988	2406	
Rare Earth Elements	tonne	-	-	-	-	-	-	-	-	424000	-	-	424000	
Rock	tonne	-	-	-	-	-	-	-	-	-	314820	-	314820	
Phosphate														
Vermiculite	tonne	-	-	-	-	-	-	-	-	-	1960	-	1960	
Wollastonite	tonne	-	-	-	-	-	-	-	-	-	1990000	-	1990000	

Figures rounded off.

STATE REVIEWS

## STATE REVIEWS

Table – 3 : Details of Exploration Activities in Gujarat, 2020-21

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>GSI</b>							
<b>REE &amp; RM</b>							
Chhota Udepur	Nakhal Block	-	-	56	5800	-	Preliminary Exploration (G3) for Rare - Earth Elements (REE) and Rare Metals (RM) was carried out in Nakhal Block of Saidiwasan Carbonatite Complex. Based on the work carried out in the F.S.2019-20, 5800 m of drilling work were taken up in Nakhal block of Saidiwasan area during the FS 2020-21. A total of 56 boreholes of 100±20 m vertical depth with 200 m spacing were planned. BH GJNB 01 and 04 showed carbonatite breccia along with fenitized phonolite. Carbonatite breccia was the main potential source for REE and RM. Soaked sandstone was also found along with carbonatite breccia. Average thickness of carbonatite breccia was 50–60 m.
Chhota Udepur	Gogadev-Janiyara	-	-	-	-	-	Preliminary exploration (G3) for Rare-Earth Elements (REE) mineralisation and other Rare Metals (RM) in Gogadev-Janiyara. Geologically the area comprised metasediments of the Champaner Group of Palaeoproterozoic Age represented by calc-silicate rocks. These metasediments were intruded by Godhra granite of Neo-Proterozoic Age and dykes of Deccan Volcanics of Upper Cretaceous to Eocene Age. Thin bands of calc-silicate rocks which occurred as enclave within Godhra granite were exposed in the south and southwestern part of the area. A total of 90.3 meter auger drilling were completed and 100 bulk samples (-35 mesh) were generated from 28 auger borehole at 400 x 400 m interval. Near Village Janiyara in River Ani, panning of stream sediment resulted in 212 of non-magnetic heavies from 20 kg of samples. Samples of the 1st order streams draining from the granitoids and its late derivatives were collected. Systematic sampling of

(contd)

## STATE REVIEWS

Table - 3 (contd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>Tin</b> Sabarkantha	Nadri block	1:2000	1	-	-	-	<p>stream sediments of River Ani in grid pattern was also done to assess the REE and RM potentiality of the riverine sediments. About 10 bedrock sample (BRS) results received so far showed TREE value ranging from 364 to 583 ppm. Analysis of 18 samples received so far revealed that the TREE value in B-horizon was greater than C horizon. The total REE value ranged from 518 ppm to 1,300 ppm and 298–1,078 ppm respectively. Element wise distribution of the REE in all type of samples, which showed presence of &gt; 500 ppm TREE, indicated that La, Ce, Nd and PR in LREE contribute the major % of TREE.</p> <p>Preliminary exploration (G3) for strategic minerals / rare metals (Sn-W-Ta-Nb) in Nadri granite and pegmatites intrusive into Delhi Supergroup of rocks. To know the extension of mineralised lithounits in the eastern part of the Nadri block, in Sabarkantha district of Gujarat an area of 1 sq. km dimension adjacent to it was chosen for detailed mapping (1:2000) and mineral exploration in FS 2020-21. Quartz-fluorite veins were NE-SW, NW-SE and E-W trending but majority of veins were following the E-W direction which were displaced by N-S and NW-SE strike slip faults. Later silicification resulted in the brecciation of quartz-fluorite veins and epidotised granite, and giving rise to stock-work like feature. Cassiterite, chalcopyrite, pyrite, sphalerite and minor tungsten were the constituting phases of the fine mineralised disseminations in granite and quartz-fluorite veins. The partially available geochemical data of bedrock samples (BRS) suggested the tin-mineralised nature of Ms-granite (399–434 ppm) and NE-SW (252–309 ppm) and E-W (552 ppm)</p>

(contd)

## STATE REVIEWS

Table - 3 (contd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
							trending quartz fluorite veins. Chemical data of samples of three trenches attests the tin-bearing nature of granitic bedrock (Sn 159–181 ppm), quartz veins (Sn 135–231 ppm) and loose sediments lying over the bedrock (Sn 136–244 ppm) in the trenches.
<b>Base Metal</b> Banaskantha	Dungarpura block & Malana block	-	1.75	-	-	33	Preliminary exploration (G3) for base metals and associated mineralisation in Dungarpura block and Malana block, Kui-Chitrasani fault zone. Detailed geological mapping and topographical survey of 1.75 sq. km area (1 sq. km at Dungarpura and 0.75 sq. km at Malana) were completed with the help of DGPS and all types of samples as per NQT were collected. During detailed geological mapping of Dungarpura area it was observed that cherty brecciated quartzite showed incidence of epigenetic hydrothermal base metal mineralisation. Cherty quartzite was highly oxidised, limonitised, siliceous and gritty in nature. Disseminated specks and stringers of galena, sphalerite, pyrite and rare chalcopyrite with surficial encrustation of malachite and covellite were observed in cherty brecciated quartzite and quartz veins. While cherty quartzite of Malana area was highly oxidised, limonitised and brecciated in nature contained galena and sphalerite mineralisation. The chemical analytical result of BRS samples collected from Dungarpura block showed concentration of Cu ranges from 25ppm to 0.1%, Pb ranged from 25ppm to 0.65% and Zn ranged from 25ppm to 1.1% while in Malana block concentration of Cu ranged from 25ppm to 0.18% and Zn ranged from 25ppm to 0.14%. Chemical analytical result of 16 channel samples showed the concentration of Pb and Zn ranging from 0.11% to 0.28% and 0.16 to 0.79% respectively. Analytical result of 17 water samples received so far, indicated value of Cu from 3.71 ppb to 73.96 ppb and Pb from 2.69 ppb to 8.90 ppb while 5 samples showed concentration of Zn from 84 ppb to 4,859.53 ppb.

(contd)

## STATE REVIEWS

Table- 3 (concl'd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>Commissioner of Geology &amp; Mining, Gujarat</b>							
<b>Limestone</b>							
Gir Somnath	Barevala Singhar, Madhavpur Ablash, Pipalva, Gangetha, Bhuva Timbi, Kodidra, Sindhaj, Kukras	-	-	90	3723	1339	The exploration was taken up with an objective to establish auctionable mineral reserves/resources. Exploration was under progress.
Devbhumi Dwarka	Pachtar	-	-	5	109	424	The exploration was taken up with an objective to establish auctionable mineral resources. About 7.49 million tonnes of reserves/resources were estimated during the year.
Amreli	Jafrabad	-	-	27	1350	621	The exploration was taken up with an objective to establish auctionable mineral reserves/resources. Exploration was under progress.
<b>Bentonite</b>							
Kachchh	Khirsara/Miyani, Rajdhanjar I & II & Nundhatad	-	-	604	23779.7	3139	The exploration was taken up with an objective to establish auctionable mineral reserves/resources. Exploration was under progress.
<b>Chinaclay</b>							
Kachchh	Nadapa, Kali Talavadi & Mokhana	-	-	383	24139	4090	The exploration was taken up with an objective to establish auctionable mineral reserves/resources. Exploration was under progress.

(contd)

## STATE REVIEWS

Table- 3 (concl'd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>Commissioner of Geology &amp; Mining, Gujarat</b>							
<b>Bauxite</b>							
Devbhumi Dwarka	Virpur Lusri, Mevasa, Lamba, Magadevia, Satapara & Nandana	-	-	234	495.00	1457	During 2019-20, an exploration in Virpur Lusri, Mevasa, Lamba, Mahadevia, Satapara & Nandana Mevasa villages of Devbhumi Dwarka district, Gujarat, was taken up with an objective to establish auctionable bauxite mineral resources in the area. During study, a total of 234 boreholes were drilled to a cumulative depth of ,313 m and 1,457 samples were collected for chemical analysis. About 66.845 million tonnes resources were established in the area.
<b>Commissioner of Geology &amp; Mining, Gujarat</b>							
<b>Limestone</b>							
Dwarka	Devbhumi, Dwarka	-	-	12	495.00	104	-
Junagadh	Junagadh	-	-	18	905.00	91	-
Gir Somnath	Gir Somnath	-	-	85	2879.50	393	-
<b>China clay</b>							
Kachchh	Kachchh	-	-	37	3071.00	-	-
<b>Bentonite</b>							
Kachchh	Kachchh	-	-	11	574.60	-	-



## STATE REVIEWS

**Table – 4 : Mineral Production in Gujarat, 2018-19 to 2020-21  
(Excluding Atomic Minerals)**

(Value in ₹ '000)

Mineral	Unit	2018-19			2019-20			2020-21 (P)		
		No. of mines	Quantity	Value <sup>§</sup>	No. of mines	Quantity	Value <sup>§</sup>	No. of mines	Quantity	Value <sup>§</sup>
<b>All Minerals</b>		<b>200</b>		<b>74901900</b>	<b>184</b>		<b>76880978</b>	<b>143</b>		<b>54368018</b>
Lignite	'000t	-	12565	-	-	10357	-	-	10813	-
Natural Gas (ut.)	m cu.m	-	1402	-	-	1342	-	-	1138	-
Petroleum (crude)	'000t	-	4626	-	-	4707	-	-	4651	-
Bauxite	t	78	2185325	1412294	68	2076329	1439889	60	1497712	1196637
Manganese Ore	t	1*	-	-	1*	-	-	-	-	-
Limestone	'000t	121	26651	5662241	115	22868	5204303	83	22245	5017115
Marl <sup>%</sup>	t	-	1794940	324720	-	1646104	318711	-	1286248	219191
Sulphur <sup>#</sup>	t	-	91962	-	-	97107	-	-	82450	-
Minor Minerals		-	-	67502645	-	-	69918075	-	-	47935075

*Note : The number of mines excludes Fuel and Minor minerals.**§ Excludes the value of Fuel minerals.**\* Only labour reported.**% Associate with Limestone.**# Recovered as by-product from oil refineries.***Table – 5 : Principal Mineral-based Industries**

Industry/plant	Capacity ('000 tpy)
<b>Abrasives</b>	
Bombay Mineral Limited Jam Khambhalia	86.4 (Abrasive Grain)
Carborandum Universal Ltd, Okha, Distt Jamnagar.	NA
Carborandum Universal Ltd, Bhatia, Distt Jamnagar	NA
Flexo-Plast Abrasives, Ahmedabad	NA
Orient Abrasive Ltd, Porbandar	75 (Abrasive Grain) 150 (Calcined Bauxite) 30 (Castable Refractory)
<b>Asbestos Products</b>	
Ramco Industries Ltd, Singura, Distt Kachchh.	72
Sanghi Industries Ltd,	36
Sanghipuram, Distt Kachchh.	
U.P. Asbestos Ltd, Valsad.	36
	(contd)

Table - 5 (contd)

Industry/plant	Capacity ('000 tpy)
<b>Cement</b>	
Ambuja Cements Ltd, Ambuja Nagar, Distt Junagadh.	5700
Ambuja Cement Ltd, Magdalla, Distt Surat (G).	1560
Mehta Group Gujarat Sidhee Cement, Sidheegram, Sutrapada Distt Junagadh.	1200
Mehta Group Saurashtra Cement Ltd, Porbandar, Distt Junagadh.	1500
Saurashtra Cement Ltd, Ranavav Porbandar,	3063
Hi Bond Cement, Gondal.	1200
J.K. Laxmi, Kalol, Distt Ganghinagar (G).	1000
J.K. Laxmi, Surat	1350
Sanghi Industries Ltd, Sanghipuram, Distt Kachchh.	4000
Shree Digvijay Cement Co. Ltd, Digvijaygram, Sikka Distt Jamnagar.	1200 (43 Gr.) 1200 (53. Gr.) 1200 (PPC)
	1200 (Oil well cement)
	1200 (Sulphate Resisting P.C.)
Tata Chemicals Ltd, Mithapur, Distt Jamnagar.	500
UltraTech Cement Co. Ltd, Pipavav, Distt Amreli.	6400
	(contd)

## STATE REVIEWS

Table - 5 (contd)

Industry/plant	Capacity ('000 tpy)
UltraTech Cement Ltd, (Narmada Cement), Jafrabad, Distt Amreli.	1450
UltraTech Cement Ltd, (Gujarat Cement), Kovaya, Babarkot, Rajula Jafrabad,	6400
UltraTech Cement (formerly a unit of JCCL), Sewagram, Abdasa, Distt Kachchh.	2400
UltraTech Cement (formerly a unit of JCCL), Wanakbori, Distt Kheda (G).	2400
UltraTech Cement Ltd, Magdalla (G).	750
Sparta Cements & Infra Ltd. Bhuj	1000
Vadraj Cement, Mora, Surat	6000
<b>Ceramic</b>	
Unifrax India, Lakhtar	7.5 (Ceramic fiber product)
Orient Glazes Ltd, OGPL Kheda Unit Radhu	35.53
<b>Chemical</b>	
Baroda Rayon Corpn. Ltd, Surat.	15000 (yarn) 21600 (H <sub>2</sub> SO <sub>4</sub> ) 2.2 (sodium sulphate)
Century Chemicals, Nava Nanga, Distt Jamnagar.	108 (refined salt)
Gujarat Alkalies & Chemicals Ltd, Baroda.	14.9 (caustic soda)
Gujarat Alkalies & Chemicals Ltd, Dahej, Distt. Bharuch.	242.6 (caustic Soda) 151.4 (Cl) 33.408 (phosphoric acid)
GHCL Limited, Sutrapada.	1100 (Soda Ash) 71 (Sodium bicarbonate)
Indian Rayon Industries Ltd, Veraval, Distt Junagadh.	21 (yarn) 35.7 (H <sub>2</sub> SO <sub>4</sub> ) 10 (carbon disulphide) 9.3 (sodium sulphate) 91.3 (caustic soda)
Kamadhenu Nutrients Pvt.ltd. Panoli, Ankleshwar	10.8 (Dicalcium phosphate)
Kohler India Corp. Pvt. Ltd, Jhagadia, Talodara	15.02 (2Pc B) 8.29 (lav) 2.25 (Pedestal) 4.73 (tank)
Navin Fluorine Industries Ltd, Surat.	22 (HF)
Nirma Cement Ltd, Ranavav	421.2 (Soda ash)
Nirma Soda Ash Plant Kalatalav, Bhavnagar	1008 (Soda Ash Light) 648 (Soda Dense) 144 (Refined Sodium Bicarbonate) Vaccun Salt (864)
Saurashtra Chemicals Ltd, Porbandar, Distt Porbandar	365 (soda ash) 20.4 (caustic soda) 26.4 (refined bicarbonate)
Shree Sulphurics Pvt. Ltd,	58 (H <sub>2</sub> SO <sub>4</sub> )

(contd)

Table - 5 (contd)

Industry/plant	Capacity ('000 tpy)
Ankleshwar, Distt Bharuch.	12 (chloro-sulphuric acid)
Tata Chemicals Ltd, Mithapur, Distt Jamnagar.	875 (soda ash)
<b>Copper Smelter</b>	
Hindalco Industries Ltd, Birla Copper, Dahej, Distt Bharuch.	500 (copper smelting) 1670 (H <sub>2</sub> SO <sub>4</sub> ) 15 tonnes (Au) 150 tonnes (Ag)
HCL, Gujarat Copper Project, Jhagadia, Distt. Bharuch.	50 (electrolytic copper) 20 (copper anodes)
<b>Electrode</b>	
Power Electrode Varaval Shapar Kotda Sangani	0.60
<b>Fertilizer</b>	
Aarti Fertilizers, Vapi, Valsad	132 (SSP)
Coromandel International Ltd (Formerly Liberty Phosphate Ltd), Nandesari, Vadodara	100 (SSP) 367 (urea) 108 (DAP) 200 (complex) 196 (AS)
GSFC, Vadodara	200 (complex) 196 (AS)
GSFC, Sikka (Sikka - I & II), Jamnagar	326 (DAP)
GNFC, Bharuch	636.9 (urea) 142.5 (complex)
Hindalco Industries Ltd, Dahej, Distt Bharuch	400 (DAP/ complex)
IFFCO Ltd, Kandla, Distt. Kachchh	2420
IFFCO Ltd, Kalol, Distt. Gandhinagar	602 (urea)
Khaitan Chemicals & Fertilizers Ltd, Dahej, Bharuch	200 (SSP)
KRIBHCO Ltd, Hazira, Distt. Surat	2195 (urea)
Narmada Agro Chemicals Pvt. Ltd, Mangrol, Junagadh	33000 (SSP)
Narmada Bio-chem Pvt. Ltd, Kalyangadh, Ahmedabad	196000 (SSP)
Nirma Ltd, Moraiya, Ahmedabad	100 (SSP)
Sona Phosphates Ltd, Sarigam, Valsad	15 (SSP)
T J Agro Fertilizers Pvt. Ltd, Navsari	22 (SSP)
<b>Foundry</b>	
Steelcast Ltd, Ruvapuri Road, Bhavnagar	30
Intolcast Pvt. Ltd, 16, 17 & 19 Ankur Industrial Complex, Rajkot Gundal Road Shaper, Rajkot	2.4 (steel casting)
Intricast Pvt. Ltd, 25/28 Galaxy Industrial Estate, Rajkot Gundal Road Shaper, Rajkot	1.08 (steel casting)
Invac Cast Pvt. Ltd, 444, 453 & 455 Nana Fofadia Road Bamangam, Vadodara	2.4 (steel casting)
Gujarat Intuxt Ltd.184/P, Rajkot Gundal	1.8 (steel casting)

(contd)

## STATE REVIEWS

Table - 5 (contd)

Industry/plant	Capacity ('000 tpy)
Road Shaper, Rajkot	
<b>Iron &amp; Steel</b>	
Essar Steel Ltd, Hazira, Distt Surat	6700 (sponge iron) 10000 (crude/liquid steel)
Jindal Saw Ltd, Samaghogha, Mundra	900 (Sinter) 580 (Pig Iron)
<b>Ferro Alloys</b>	
Baroda Ferro Alloys Ltd, Panchmahals.	3.5
Essel Mining & Industries Ltd, Vapi, Distt Valsad.	9
Electro Ferro Alloys Ltd, Ahmedabad.	0.3
<b>Sponge Iron</b>	
Electrotherm India Pvt. Ltd, Samakhalli, Distt Kachchh	75
Gallant Metal Ltd, Samakhialli, Distt Kachchh	225000
Global Hi-Tech Industries Ltd, Bhuj, Distt Kachchh	105
Welspun Steel Ltd, Versamedi, Anjar	144
<b>Glass</b>	
Alembic Glass Industries Ltd, Baroda.	35.0
Bhagwati Glass Containers Ltd, Kalol.	8.7
Bharat Glass Tube Ltd, Bharuch.	7.2
Gobind Glass & Industries Ltd, Kadi.	NA
Gopal Glass Works Ltd, Budasan, Distt Mehsana.	40.6
Gujarat Borosil Ltd, Govali, Distt. Bharuch.	62.5
Piramal Glass Ltd, Jambusar.	355 (tpd)

(contd)

Table - 5 (concl'd)

Industry/plant	Capacity ('000 tpy)
Piramal Glass Ltd, Kosamba.	340 (tpd)
Haldyn Glass (Gujarat) Ltd, Padra, Vadodara.	320 TPD
Prestige Glass Industries Pvt Ltd, Vagra.	11.5
<b>Petroleum Refinery</b>	
IOCL, Koyali.	13700
RPL, Jamnagar	33000
RPL, Jamnagar (SEZ).	27000
Essar Oil Ltd, Vadinar.	20000
<b>Refractory</b>	
Calders India Refractorie Ltd, Bhayati Jambudiya, Wankaner	42
Lilanand Magnesite Pvt. Ltd, Dharmpur, Ranavav	10.8
<b>Synthetic Gas</b>	
Reliance Industries Ltd, JG-DTA Gasification Area, Kunalus Lalpur	13122.48
<b>Calcined Bauxite</b>	
Birla VXL Ltd, Porbandar	36
Bombay Minerals Ltd, Jamkhambhaliya	96
Gujarat Credo Mineral Industries Ltd, Naredi, Abdasa	500 (dry beneficiated) 10 (processed bauxite)
Saurashtra Calcine Bauxite & Allied Industries Ltd, Bhatia	39
Shri Natraj Ceramics & Chemical Industries Ltd, Khambhaliya	24

*G: Grinding Unit*

*Data, not readily available for fertilizer and cement industries on respective websites, is taken from Indian Fertilizer Scenario, FAI Statistics, and Survey of Cement Industry & Directory, respectively.*