

STATE REVIEWS



# Indian Minerals Yearbook 2018

(Part- I)

57<sup>th</sup> Edition

STATE REVIEWS  
(Tamil Nadu)

(FINAL RELEASE)

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INDIAN BUREAU OF MINES

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## TAMIL NADU

### Mineral Resources

Tamil Nadu is the leading holder of country's resources of vermiculite, molybdenum, dunite, rutile, garnet and ilmenite. The State accounts for the country's 79% vermiculite, 65% dunite, 48% garnet, 52% molybdenum, 25% sillimanite and 16% fireclay resources. As per AMD of the Department of Atomic Energy, Tamil Nadu accounted for 167.70 million tonnes of ilmenite resources and 7.85 million tonnes of rutile resources.

Important minerals that are found to occur in the State are: **bauxite** in Dindigul, Namakkal, Nilgiris & Salem districts; **dunite/pyroxenite** in Salem district; **felspar** in Coimbatore, Dindigul, Erode, Kanchipuram, Karur, Namakkal, Salem & Tiruchirapalli districts; **fireclay** in Cuddalore, Kanchipuram, Perambalur, Pudukottai, Sivaganga, Thiruvallur, Tiruchirapalli, Vellore & Villupuram districts; **garnet** in Ramanathapuram, Tiruchirapalli, Tiruvarur, Kanyakumari, Thanjavur & Tirunelveli districts; **granite** in Dharmapuri, Erode, Kanchipuram, Madurai, Salem, Thiruvannamalai, Tiruchirapalli, Tirunelveli, Vellore & Villupuram districts; **graphite** in Madurai, Ramnathapuram, Sivaganga & Vellore districts; and **gypsum** in Coimbatore, Perambalur, Ramnathapuram, Tiruchirapalli, Tirunelveli, Thoothukudi & Virudhunagar districts. Similarly, occurrences of minerals, such as, **lignite** deposits are located in Cuddalore, Ariyalur, Thanjavur, Thiruvarur, Nagapattinam, Shivganga & Ramanathapuram districts; **limestone** in Coimbatore, Cuddalore, Dindigul, Kanchipuram, Karur, Madurai, Nagapattinam, Namakkal, Perambalur, Ramnathapuram, Salem, Thiruvallur, Tiruchirapalli, Tirunelveli, Vellore, Villupuram & Virudhunagar districts; **magnesite** in Coimbatore, Dharmapuri, Karur, Namakkal, Nilgiri, Salem,

Tiruchirapalli, Tirunelveli & Vellore districts; **quartz/silica sand** in Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindigul, Erode, Kanchipuram, Karur, Madurai, Namakkal, Periyar, Perambalur, Salem, Thiruvallur, Thiruvarur, Nagapattinam, Tiruchirapalli, Villupuram, Virudhunagar & Vellore districts; **talc/steatite/soapstone** in Coimbatore, Salem, Tiruchirapalli & Vellore districts; **titanium minerals** in Kanyakumari, Nagapattinam, Ramanathapuram, Thiruvallur, Tirunelveli & Thoothukudi districts; **vermiculite** in Dharmapuri, Tiruchirapalli & Vellore districts; and **zircon** in Kanyakumari district have been established.

Other minerals that occur in the State are: **apatite** in Dharmapuri & Vellore districts; **barytes** in Erode, Madurai, Perambalur, Tirunelveli & Vellore districts; **bentonite** in Chennai district; **calcite** in Salem district; **china clay** in Cuddalore, Dharmapuri, Kanchipuram, Nilgiris, Sivaganga, Thiruvallur, Tiruvannamalai, Tiruchirapalli & Villupuram districts; **chromite** in Coimbatore & Salem districts; **copper, lead-zinc** and **silver** in Villupuram district; **corundum** and **gold** in Dharmapuri district; **dolomite** in Salem & Tirunelveli districts; **emerald** in Coimbatore district; **iron ore (magnetite)** in Dharmapuri, Erode, Nilgiris, Salem, Thiruvannamalai, Tiruchirapalli & Villupuram districts; **kyanite** in Kanyakumari & Tirunelveli districts; **molybdenum** in Dharmapuri, Dindigul & Vellore districts; **pyrite** in Vellore district; **sillimanite** in Kanyakumari, Karur & Tirunelveli districts; **tungsten** in Madurai & Dindigul districts; and **wollastonite** in Dharmapuri & Tirunelveli districts (Table-1). District-wise reserves/resources of lignite are provided in Table-2.

In addition to the above, Petroleum and natural gas deposits are found to be located in Cauvery basin area.

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Table – 1 : Reserves/Resources of Minerals as on 1.4.2015: Tamil Nadu

Mineral	Unit	Reserves					Remaining Resources					Total resources (A+B)	
		Proved STD 111	Probable		Total (A)	Feasibility STD211	Pre-feasibility STD221	Measured STD331	Indicated STD332	Inferred STD333	Reconnaissance STD334		Total (B)
			STD121	STD122									
Apatite	tonne	-	-	-	-	-	-	-	240000	-	240000	240000	
Barytes	tonne	-	-	-	-	-	-	500	221919	-	222419	222419	
Bauxite	'000 tonnes	379	-	379	-	1141	960	10084	8363	-	24112	24491	
Bentonite#	tonne	-	-	-	-	-	-	3725333	5818519	-	9543852	9543852	
Calcite#	tonne	-	-	-	-	-	-	-	116632	-	116632	116632	
China clay#	'000 tonnes	-	-	-	-	-	-	327	56570	-	56897	56897	
Chromite	'000 tonnes	-	-	-	-	-	7	-	276	-	282	282	
Copper													
Ore	'000 tonnes	-	-	-	-	-	200	590	-	-	790	790	
Metal	'000 tonnes	-	-	-	-	-	1.08	2.73	-	-	3.81	3.81	
Corundum	tonne	-	-	-	-	-	-	-	4000	-	4000	4000	
Dolomite#	'000 tonnes	-	-	-	-	-	2010	135	-	-	2145	2145	
Dunite#	'000 tonnes	7343	1450	8793	-	-	-	-	5773	5044	113007	121800	
Felspar#	tonne	738656	7134	769176	1896213	620530	18870	69822	5465465	-	9172741	9941916	
Fireclay#	'000 tonnes	2523	458	155	3952	3971	1842	1561	102202	-	113528	116663	
Garnet	tonne	225554	238067	1382194	1845815	21936	1342191	15000	1425996	19888574	25072194	26918009	
Gold													
Ore	(Primary) tonne	-	-	-	-	-	-	-	67000	-	67000	67000	
Metal													
(Primary)	tonne	-	-	-	-	-	-	-	1.00	-	1.00	1.00	
Granite#													
(Dim. Stone)	'000 cum	-	1448	238	1686	-	45690	7	503818	-	557749	559435	
Graphite	tonne	2495188	-	810450	3305638	28708	39486	29136	647500	3866390	4613707	7919345	
Gypsum#	'000 tonnes	137	-	46	183	19	469	25	249	19540	27099	27282	
Iron ore													
(Magnetite)	'000 tonnes	-	-	-	-	-	-	-	169388	110728	226921	507037	
Kyanite	tonne	-	-	-	-	-	-	-	167000	81359	248359	248359	
Lead-Zinc													
Ore	'000 tonnes	-	-	-	-	-	200	590	-	-	790	790	
Lead metal	'000 tonnes	-	-	-	-	-	2.26	5.48	-	-	7.74	7.74	
Zinc metal	'000 tonnes	-	-	-	-	-	11.76	24.76	-	-	36.52	36.52	
Limestone	'000 tonnes	334445	82892	56572	473909	209632	99882	92843	33440	598942	1126088	1599997	
Magnesite	'000 tonnes	73499	40	38	73577	499	6224	17	737	5643	24649	98226	

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Table -1(Concl'd)

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						
Molybdenum														
Ore	tonne	-	-	-	-	1500000	-	36000	569304	7777694	167800	10050798	10050798	
Contained														
MoS <sub>2</sub>	tonne	-	-	-	-	1050	-	83	287	445933	5034	592967	592967	
Pyrite	'000 tonnes	-	-	-	-	-	-	-	-	24	-	24	24	
Quartz-														
Silica sand#	'000 tonnes	25086	3493	1199	29778	15176	2191	3387	95837	26931	-	171718	201496	
Silver														
Ore	tonne	-	-	-	-	-	-	-	330000	460000	-	790000	790000	
Metal	tonne	-	-	-	-	-	-	-	15.87	26.68	-	42.55	42.55	
Sillimanite	tonne	140184	-	-	140184	4246	4000	13699981	-	3612154	-	17320381	17460565	
Talc/steatite/ soapstone#	'000 tonnes	-	-	-	-	559	210	1762	27	553	-	3110	3110	
Tungsten														
Ore	tonne	-	-	-	-	-	-	-	-	-	250000	250000	250000	
Contained														
WO <sub>3</sub>	tonne	-	-	-	-	-	-	-	-	-	50	50	50	
Vermiculite	tonne	1522014	-	-	1522014	-	-	-	-	343051	-	343051	1865065	
Wollastonite	tonne	-	-	-	-	-	-	-	-	3533	-	3533	3533	

Figures rounded off

Note: The proved and indicated balance recoverable reserves of crude oil and natural gas in the State as on 1.4.2018 are 9.16 million tonnes and 39.11 billion cu m, respectively.

# Declared as Minor Minerals vide Gazette Notification dated 10.02.2015.

## Minor Minerals before Gazette Notification dated 10.02.2015.

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**Table – 2 : Reserves/Resources of Lignite as on 1.4.2018 : Tamil Nadu**

(In million tonnes)

District/Area	Proved	Indicated	Inferred	Total
<b>Total</b>	<b>4093.53</b>	<b>22648.33</b>	<b>9392.85</b>	<b>36134.71</b>
Cuddalore	3189.30	2263.56	1302.23	6755.09
Ariyalur	904.23	302.50	512.37	1719.10
Thanjavur	-	2306.17	156.33	2462.5
Thanjavur & Thiruvarur	-	17248.06	3123.46	20371.52
Thanjavur & Nagapattinam	-	359.21	926.62	1285.83
Thiruvarur & Nagapattinam	-	-	574.05	574.05
Ramanathapuram	-	168.83	1812.58	1981.41
Ramnad	-	-	964.97	964.97
Ramnad & Sivaganga	-	-	20.24	20.24

*Source: Coal Directory of India, 2017-18.*

### Exploration & Development

The details of exploration activities conducted by GSI & various agencies for lignite and other minerals during 2017-18 are furnished in Table - 3.

### Production

The principal minerals produced in the State were lignite, natural gas (utilised), limestone,

petroleum (crude), magnesite, garnet (abrasive), graphite (r.o.m.), bauxite and vermiculite in 2017-18.

The value of minor minerals production was estimated at ` 409 crore for the year 2017-18.

The number of reporting mines was 110 in 2017-18 in the case of MCDR minerals (Table-4).

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Table – 3 : Details of Exploration Activities in Tamil Nadu, 2017-18

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>GSI</b>							
<b>Lignite</b>							
Ramanan- -thapuram	Kalari East Sector Ramanad sub-basin	-	-	5	2667	-	Preliminary exploration for Lignite was carried out in this area. A total of five vertical boreholes were completed for a cumulative drilling depth of 2,667 m. Lignite seams were intersected in all the five boreholes and individual seam thickness varied from 1.0 to 16.50 m. Cumulative thickness of lignite seams varied from 16.0 m to 22.4 m and cumulative parting thickness varied from 29.30 m to 39.00 m. Three main lignite seams were intersected in the upper, middle and lower portions of the lignite zone. The top most seam was the thickest admeasuring about 10.20 m to 16.50 m. The middle and bottom seams were comparatively thinner. The content of fixed carbon varied from 14.9 to 34.8% and the calorific value ranged from 1,848 to 3,510 kcal/kg.
<b>Iron ore</b>							
Salem	Vellalakundam- Singipuram,	1:12500	100	-	-	-	Reconnaissance survey for iron ore in banded magnetite quartzite was taken up between Vellalakundam and Singipuram in Salem district. The study involved large-scale mapping of 100 sq km on 1:12500 scale and 124 cu m of pitting and trenching. The BMQ band of Godumalai hills (Band-I) was found to be extending from Agrahara Nattarmangalam to 970 m hills NW of Seshanchavadi. The BMQ band was found to be 8 km long with width of 6 m to 86 m. BMQ bands of Singipuram and Vepillaiipatti area was noticed to be the two major bands in the southern block. The width of Singipuram Band (Band-II) varied from 3 m to 11 m with strike length of 6 km while the width of Vepillaiipatti Band (Band-III) varied from 4 m to 8 m with strike length of 3.5 km. BMQ bands have been found to be massive and the width of individual magnetite band varied from 0.1 cm to 0.7 cm. The magnetite quartzite ratio was established as 1:1 to 1:3. Apart from these bands, five minor bands M1, M2, M3, M4 and M5 with strike length 1 km, 875 m, 750 m, 750 m and 560 m respectively were mapped in the area.
<b>RM and REE</b>							
Salem & Dharmapuri	Mechchery & Perumbalai taluks	1:12500	100	-	-	217	During reconnaissance survey for RM and REE in the southern extension of Alkaline Carbonatite Complex in parts of Mechchery and Perumbalai taluks, Salem and Dharmapuri districts, an area of 100 sq km was mapped on 1:12500 scale and collection of 106 BRS, 25 PS, 15 each of PCS & OM, 10 EPMA, 16 XRD and 50 samples each regolith &

(Contd)

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Table - 3 (Contd)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
							colluvial was carried out. Besides, 30 samples were collected from pyroxenite to assess the potential of platinum group of elements. The major litho units demarcated in the area included fuchsite quartzite, amphibolite, banded magnetite quartzite, meta-gabbro, hornblende biotite gneiss, epidote hornblende gneiss, migmatite gneiss, quartzofeldspathic gneiss, pyroxenite, syenite, carbonatite, quartz reef and quartz pegmatite veins. Pyroxenite, syenite, carbonatite occur as intrusive while quartz reef & quartz pegmatite vein occur as acid intrusive. Two carbonatite bodies were also delineated. Carbonatite body from about 500 m south of Pottaneri showed an average value of REE up to 2,447.48 ppm. The total REE ranged from 465.46 to 3941.40 ppm which included LREE that ranged from 438.79 to 3,785.33 ppm and HREE that ranged from 26.67 to 156.06 ppm. In Vellore and Dharmapuri districts, reconnaissance survey for rare metals and REE was carried out in Koratti Complex involved large-scale mapping of 100 sq km. The various rock types mapped with an emphasis on REE mineralisation in the area were syenites, carbonatite, syenitoidal pegmatite, pyroxenite and hornblende biotite gneiss. The intrusive carbonatite body extended for a strike length of 1 km with width varying from 30 m to 120 m. Carbonatite was found to be intruded into by pyroxenite in the north and by syenite and gneiss in the southern contact. Samples from syenite variety showed REE values ranging from 83 ppm to 412 ppm and pegmatite samples showed REE values ranging from 86 ppm to 131 ppm. One sample from pyroxenite showed REE value up to 644 ppm. Eleven bedrock samples collected from the carbonatite showed total REE varying from 632 to 2,066 ppm.

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Table - 3 (Concl.)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling (No.)	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Meterage		
<b>Neyveli Lignite Company India Ltd Lignite</b>							
Cuddalor	Palayamkottai and Veeranam block,	-	32	65	9316.55	550	Exploration for lignite in this block was taken up through NMET scheme to bring the resources into proved category. In Palayamkottai block (32.00 sq km area), 65 boreholes were drilled to a total depth of 9316.0 m and 550 samples were collected for chemical analysis.
		-	150	55	14423	208	In Veeranam block (150.00 sq m area), 55 boreholes were drilled to a total depth of 14423.0 m and 208 samples were collected for chemical analysis. The drilling continuing at 400 m grid interval.

**Table – 4 : Mineral Production in Tamil Nadu, 2015-16 to 2017-18  
(Excluding Atomic Minerals)**

(Value in ` '000)

Mineral	Unit	2015-16			2016-17			2017-18 (P)		
		No. of mines	Qty	Value <sup>\$</sup>	No. of mines	Qty	Value <sup>\$</sup>	No. of mines	Qty	Value <sup>\$</sup>
<b>All Minerals</b>		<b>247</b>		<b>11598798</b>	<b>237</b>		<b>11571600</b>	<b>110</b>		<b>10044305</b>
Lignite	'000 t	-	24227	-	-	26204	-	-	23569	-
Natural Gas (ut.)	m cu m	-	1011	-	-	983	-	-	1208	-
Petroleum (crude)	'000 t	-	255	-	-	284	-	-	345	-
Bauxite	t	3	27146	19002	3	7269	4812	3	-	-
Garnet (abrasive)	t	2	10693	81737	3	10612	85009	3	6813	76169
Graphite (r.o.m.)	t	2	90825	73508	2	95061	66744	1	-	-
Limestone	'000 t	223	23008	6623612	213	23670	6692906	98	20277	5507871
Limeshell	t	1	-	-	1	-	-	-	-	-
Magnesite	t	15	264913	705318	14	223406	623084	4	122408	362627
Vermiculite	t	1	968	2170	1	1690	5594	1	1265	4187
Minor Minerals <sup>@</sup>		-	-	4093451	-	-	4093451	-	-	4093451

*Note: The number of mines excludes Fuel and Minor Minerals.*

*\$ Excluding the value of fuel minerals.*

*@ Figures for earlier years have been repeated as estimates because of non-receipt of data.*



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**Mineral-based Industry**

The present status of each Mineral-based Industry is not readily available. However, the important mineral-based industries in organised sector in the State are provided in Table -5.

**Table – 5 : Principal Mineral-based Industries in Tamil Nadu**

Industry/plant	Capacity ('000 tpy)
<b>Abrasives</b>	
Carborandum Universal Ltd, Chennai.	NA
Cutfast Abrasives Tools Pvt. Ltd, Chennai.	NA
<b>Asbestos Products</b>	
Hyderabad Industries Ltd, Kannigaiper.	100
Ramco Industries Ltd, Arakkonam, Distt Vellore.	NA
Southern Asbestos Cement Ltd, Arakkonam, Distt Vellore.	NA
Tamil Nadu Asbestos, Alangulam, Distt Virudhunagar.	28.5
<b>Cement</b>	
ACC Ltd, Madukkarai, Distt Coimbatore.	1180
Chettinad Cement Corpn Ltd, Puliya, Distt Karur.	1700
Chettinad Cement Corpn Ltd, Karikalli Distt Dindigul.	4500
Chettinad Cement Corpn Ltd, Ariyalur.	5500
Dalmia Cements, Dalmiapuram, Distt Tiruchirapalli.	4000
Dalmia Cements, Ariyalur.	2500
India Cements Ltd, Sankarnagar, Distt Tirunelveli.	2050
India Cements Ltd, Sankari, Distt Salem (G).	860
India Cements Ltd, Dalavoi, Distt Perambalur.	1850
India Cements Ltd, Vallur, Distt Chennai (G).	1100
UltraTech Cement Ltd, Reddipalayam, Distt Ariyalur.	1400
Ultra-Tech Cement Works (ARCW), Arakkonam (G).	1100
Ramco Cement (formerly Madras Cement), R.S. Raja Nagar, Distt Virudhunagar.	2000

(Contd)

Table - 5 (Contd)

Industry/plant	Capacity ('000 tpy)
Ramco Cement (formerly Madras Cement), Alathiyur Works, Distt Ariyalur.	3050
Ramco Cement (formerly Madras Cement), Ariyalur Plant, Govindpuram, Distt Ariyalur.	3500
Ramco Cement (formerly Madras Cement), Chengalpet Grinding Unit, Uthiramerur, Distt Kanchipuram (G).	600
Ramco Cement (formerly Madras Cement), Valapady, Distt Salem (G).	1600
Tamil Nadu Cements, Alangulam, Distt Virudhunagar.	400
Tamil Nadu Cements, Ariyalur, Distt Ariyalur.	500
Zuari Cements Ltd, Chennai Grinding Unit, Attipattu, Tiruvallur (G).	1000
<b>Ceramics</b>	
Carborandum Universal Ltd, Hosur.	NA
Murugappa Morgan Thermal Ceramics Ltd, Ranipet, Distt Vellore.	5.44
Neycer India Ltd, Vadalur, Distt Cuddalore.	9.0
Roca Bathroom Product Pvt Ltd, Ranipet, Distt Erode.	12.6
Roca Bathroom Product Pvt. Ltd, Perundurai, Distt Vellore.	24
Spartek Ltd, Chennai.	NA
<b>Copper Smelter</b>	
Sterlite Industries (I) Ltd, Thoothukudi.	400 (Cu smelting) 205 (Cu cathode) 90 (wire rods) 1050 (H <sub>2</sub> SO <sub>4</sub> )
<b>Fertilizer</b>	
Coimbatore Pioneer Fertilizer Ltd, Muthugoundanpudur, Distt Coimbatore.	66 (SSP) 30 (H <sub>2</sub> SO <sub>4</sub> ) 3 (oleum)
Coramandal International Ltd, (Formerly EID Parry), Ranipet, Distt N. Arcot.	132 (SSP) 33 (H <sub>2</sub> SO <sub>4</sub> )
Coramandal International Ltd, Ennore, Distt Thiruvallur.	330 (Complex)
Kothari Industrial Corp. Ltd, Ennore.	66 (SSP)
Madras Fertilizer Ltd, Manali, Distt Thiruvallur.	486.8 (Urea) 840 (NP/NPKs)
Greenstar Fertilizers Ltd, Guindy.	115 (SSP)

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Table -5 (Contd)

Industry/plant	Capacity ( <sup>'000 tpy</sup> )
Southern Petrochemical Industries Corpn Ltd, Thoothukudi.	620 (Urea)
<b>Chemicals</b>	
Tanfacs Industries Ltd, Cuddalore.	16.5 (anhydrous HF), 16.5 (AlF <sub>3</sub> ) 67.5 (H <sub>2</sub> SO <sub>4</sub> ) 14 (Hydrofluoric acid) 3.4 (speciality fluorides)
Tuticorin Alkali Chemicals & Fertilizers Ltd, Thoothukudi	115 (soda ash) 105 (A/Cl)
<b>Synthetic Rutile</b>	
DCW Ltd, Sahapuram, Distt Thoothukudi.	48
<b>TiO<sub>2</sub> Pigment</b>	
VVTi Pigments (P) Ltd, (formerly, Kilburn Chemicals) Distt Thoothukudi.	13
<b>Iron &amp; Steel</b>	
Salem Steel Plant (SAIL), Salem.	180 (Crude/ Liquid steel)
JSW Steel Plant (acquired Southern Iron & Steel Co. Ltd), Salem.	1180 (sinter) 180 (pig iron) 1000 (specialised alloy steel)
<b>Sponge Iron</b>	
Akshara Industries Ltd, Eguvarpalayam, Distt Thiruvallur.	60
Kaushik Steel Industries Ltd, Pappen Kuppam Distt Thiruvallur.	60
Agni Steels Pvt Ltd, Olappalayam Road, Ingur, Distt Erode.	30

(Contd)

Table -5 (Concl'd)

Industry/plant	Capacity ( <sup>'000 tpy</sup> )
<b>Refractory</b>	
ABREF Pvt. Ltd, Gummidipoondi, Distt Thiruvallur.	13
Sharda Ceramics Pvt. Ltd, Ambattur, Chennai.	99
Shri Natraj Ceramic & Chemical Industries Ltd, Dalmiapuram, Distt Tiruchirapalli.	42
VRW Refractories, Vanagaram.	21.6
Zirconium Complex, Pazhakayal, Thoothukudi.	0.5 (Zr-Oxide) 0.25 (Zr sponge)
<b>DBM &amp; Calcined Magnesite</b>	
SAIL Refractory Co. Ltd (formerly Burn Standard Co. Ltd), Salem.	18 (calcined magnesite) 54 (DBM) 48 (refractory)
Dalmia Magnesite Corpn, Chettichavadi Distt Salem.	72 (DBM)
Ramkrishna Magnesite Mines, Salem.	3 (calcined)
Tamil Nadu Magnesite Ltd, Kurumbapatty, Distt Salem.	19.5 (calcined magnesite) 30 (DBM)
Sri Pon Kumar Magnesite Ltd, Salem.	26.5 (DBM)
<b>Silicon Carbide</b>	
Carborandum Universal Ltd, Tiruvottiyur.	NA
<b>Petroleum Refinery</b>	
CPCL, Manali, Distt Thiruvallur.	10500
CPCL, Narimanam.	1000

(G): Grinding unit.

Note: Data, not available for fertilizer and cement Industries on respective website, is taken from Indian Fertilizer Scenario, FAI Statistics and Survey of Cement Industry & Directory respectively.