

STATE REVIEWS



# Indian Minerals Yearbook 2012

(Part- I)

**51<sup>st</sup> Edition**

**STATE REVIEWS  
(Tamil Nadu)**

**(FINAL 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)

**May, 2014**

## TAMIL NADU

### Mineral Resources

Tamil Nadu is the leading holder of country's resources of vermiculite, magnetite, dunite, rutile, garnet, molybdenum and ilmenite. The State accounts for the country's 81% lignite, 75% vermiculite, 69% dunite, 59% garnet, 52% molybdenum and 30% titanium minerals 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, Shivganga & 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 & 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 Chengai-Anna 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). Districtwise reserves/resources of lignite are provided in Table-2.

**Petroleum and natural gas** deposits are located in Cauvery basin area.

**Table – 1 : Reserves/Resources of Minerals as on 1.4.2010 : Tamil Nadu**

Mineral	Unit	Reserves				Remaining resources				Total resources (A+B)				
		Proved		Probable		Measured		Indicated			Inferred			
		STD 111	STD 121	STD 122	Total (A)	Feasibility STD 211	Pre-feasibility STD 221	STD 222	STD 331		STD 332	STD 333	Reconnaissance STD 334	Total (B)
STATE REVIEWS														
Apatite	tonne	-	-	-	-	-	-	-	-	-	240000	-	240000	240000
Barytes	tonne	-	-	-	-	-	-	-	500	-	221919	-	222419	222419
Bauxite	'000 tonnes	708	-	-	708	-	1141	3564	10084	8363	-	-	24112	24820
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	7466	-	1450	8916	-	-	102190	-	-	5773	-	107963	116879
Felspar	tonne	613184	6450	31302	650936	2328227	70156	416162	18870	69822	5447875	-	8351111	9002047
Fireclay	'000 tonnes	322	3269	423	4014	4833	171	1611	1561	-	102069	-	110244	114258
Garnet	tonne	334469	1511397	10595388	12441254	-	-	92051	15000	1408995	19871019	-	21387065	33828319
Gold														
Ore (primary)	tonne	-	-	-	-	-	-	-	-	-	67000	-	67000	67000
Metal(primary)	tonne	-	-	-	-	-	-	-	-	-	1.00	-	1.00	1.00
Granite														
(Dim. stone)	'000 cu m	-	1448	238	1686	-	45690	8234	7	-	503818	-	557749	559435
Graphite	tonne	2807113	-	810450	3617563	-	39486	2486	65330	647500	3866390	-	4621193	8238756
Gypsum	'000 tonnes	-	-	64	64	313	469	6584	25	249	19540	10	27191	27255
Iron ore														
(Magnetite)	'000 tonnes	-	-	-	-	-	-	-	-	169388	110728	226921	507037	507037
Kyanite	tonne	-	-	-	-	-	-	-	-	167000	81359	-	248359	248359

(Contd.)

## STATE REVIEWS

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			Total (B)
			STD121	STD122			STD221	STD222				STD334	STD334		
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	199243	115705	55165	370112	19229	55984	69951	32169	460412	-	-	679759	1049871	
Magnesite	'000 tonnes	12462	5968	7474	25904	997	27	17	737	12355	-	-	14608	40511	
Molybdenum															
Ore	tonne	-	-	-	-	-	1500000	36000	569304	7692728	167800	9965832	9965832	9965832	
Contained MoS <sub>2</sub>	tonne	-	-	-	-	-	1050	83.00	287.00	4430.53	50.34	5900.87	5900.87	5900.87	
Pyrite	'000 tonnes	-	-	-	-	-	-	-	-	24	-	-	24	24	
Quartz-															
silica sand	'000 Tonnes	60063	9	93	60166	29644	4892	3387	95837	27150	-	168432	228598	228598	
Sillimanite	tonne	331800	-	561766	893566	-	4000	-	-	3529577	-	17058900	17952466	17952466	
Silver															
Ore	tonne	-	-	-	-	-	-	-	330000	460000	-	-	790000	790000	
Metal	tonne	-	-	-	-	-	-	-	15.87	26.68	-	-	42.55	42.55	
Talc-steatite/ soapstone	'000 tonnes	-	-	333	333	194	210	-	-	524	-	-	2328	2661	
Titanium minerals*															
tonne	1181486	-	2367410	3548896	-	-	-	76454	19687147	93466694	-	113230295	116779191	116779191	
Tungsten															
Ore	tonne	-	-	-	-	-	-	-	-	-	-	250000	250000	250000	
Contained WO <sub>3</sub>	tonne	-	-	-	-	-	-	-	-	-	-	50	50	50	
Vermiculite	tonne	1526417	-	-	1526417	-	-	-	-	343051	-	-	343051	1869468	
Wollastonite	tonne	-	-	-	-	-	-	-	-	3533	-	-	3533	3533	
Zircon*	tonne	53318	-	175443	228761	-	-	-	-	-	-	-	-	228761	

Figures rounded off.

The proved and indicated balance recoverable reserves of crude oil and natural gas in the State as on 1.4.2012 are 8.86 million tonnes and 39.30 billion cu m, respectively.

\* Resources as per Department of Atomic Energy are provided in the respective Mineral Reviews.

## STATE REVIEWS

**Table – 2 : Reserves/Resources of Lignite as on 1.4.2012 : Tamil Nadu**

(In million tonnes)

District	Proved	Indicated	Inferred	Total
<b>Total</b>	<b>3735.23</b>	<b>22900.05</b>	<b>7242.85</b>	<b>33878.13</b>
Cuddalore	2831.00	2530.74	1199.78	6561.52
Ariyalur	904.23	302.50	481.07	1687.80
Thanjavur	-	2290.71	72.66	2363.37
Thanjavur & Thiruvarur	-	17248.06	3123.46	20371.52
Thanjavur & Nagapattinam	-	359.21	534.19	893.40
Thiruvarur & Nagapattinam	-	-	574.05	574.05
Ramanathapuram	-	168.83	272.43	441.26
Ramnad	-	-	964.97	964.97
Ramnad & Sivaganga	-	-	20.24	20.24

*Source: Coal Directory of India, 2011-12.***Exploration & Development**

The details of exploration activities conducted by various agencies for lignite and other minerals during 2011-12 are furnished in Tables - 3.

In 2011-12, ONGC conducted geophysical survey, drilling for exploration of petroleum & natural gas and discovered two new prospects for oil & gas namely, Periyakudi - 1(PDAA) and North Kovilkalappal-3(NKKAA) in District Tiruvarur. ONGC drilled a total of 8 exploratory wells and acquired a total of 1109.70 GLK/LK of 2D and 242.87 sq. km of 3D seismic data.

**Production**

The value of mineral production in Tamil Nadu at ₹5636 crore in 2011-12 increased 21% as compared to that in the previous year. The State contributed about 2% to the total value of mineral production in the country. The principal minerals produced in the state were lignite, petroleum (crude), natural gas (utilised), garnet (abrasive), graphite (r.o.m.), limestone, magnesite marl and lime kankar which together accounted for about 98% of the total value of the minerals produced in

the State in 2011-12. The State was the leading producer of lime kankar (almost entire output), garnet (abrasive) (96%), dunite (90%), magnesite (67%) and lignite (58%). It was also the second largest producer of graphite (r.o.m.) (39%), vermiculite (16%) and marl (associate mineral with limestone) (5%) in country.

During the year under review, there was increase in the production of felspar 90%, quartz 66%, dunite 63%, bauxite 51%, fireclay 17%, graphite (r.o.m.) 16%, natural Gas (ut.) 15%, lignite, petroleum (crude) and limestone 6% each as compared to previous year. A sharp decline in production of ball clay 78%, limeshell 76%, marl 66%, silica sand 49%, vermiculite 30% and limekankar 19% was also observed in the State during the year 2011-12 (Table - 4).

The production value of minor minerals was estimated at ₹ 125 crore for the year 2011-12.

The number of reporting mines was 278 in 2011-12 as against 192 in the previous year.

The index of mineral production in Tamil Nadu (base 2004-05 = 100) was 117.32 in 2011-12 as compared to 109.32 in the previous year.

## STATE REVIEWS

**Table –3 : Details of Exploration Activities in Tamil Nadu, 2011-12**

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Metreage		
<b>GSI</b>							
Lignite Ramanatha- puram	Bogalur East Ramnad Sub-basin	-	-	-	-	-	Prospecting stage exploration for lignite (G-3), initiated in FS 2008-09 under promotional scheme to delineate lignite bearing areas and to assess the resource potentiality of the area was completed in March, 2012. Two regionally persistent lignite seams viz. Seam I of maximum thickness of 12 m and Seam II of maximum thickness of 3.80 m were intersected between 350.50 m and 443.50 m depths. The seams are of Lignite A grade. Investigation established the lignite potentiality over an area of around 50 sq km in this sector.
-do-	Uttarako- samangai Sub-basin	-	-	-	-	-	Prospecting stage regional exploration for lignite (G-3) commenced on 20.02.2012. Work has been taken up to (a) delineate lignite-bearing areas and (b) to assess the resource potentiality of the area.
<b>Molybdenum</b>							
Dharmapuri	Velakkal Central block (harar- Uttangarai)	-	-	-	-	-	Prospecting stage (G-3) investigation was taken up during FS 2010-12 for molybdenum in this area. The area falls within Alkaline-Carbonatite Province (ACP). Epidote-homblende gneiss and quartzo-felspathic gneiss are the major rock types exposed in the ACP. Molybdenum mineralisation confined to a regional shallow to moderate easterly dipping shear zone trending NNE-SSW, extending from Velampatti in the south to Nochchipatti in the north in District Dharmapuri and Krishnagiri. The results of drilling along the shear zone in this Block, has brought to light the fact that the zones of quartz veins occur one below the other in a ladder type fashion as sub-horizontal to gentle easterly dipping lensoidal and sigmoidal bodies within the shear zone. The boreholes drilled indicated molybdenum mineralisation ranging from 105 ppm to 307 ppm. The lead (Pb) values ranges from 1% to 2.5%. The work has been completed.

(Contd.)

## STATE REVIEWS

Table - 3 (Contd.)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Metreage		
<b>GSI</b> PGE Coimbatore	Solavanur, Karappadi & Mallanayakan- palayam block	-	-	10	-	42	Reconnaissance (G-4) stage investigation initiated during FS 2009-10, is being continued during FS 2010-12. One borehole (BH-4) has been drilled in F 0C segment of Solavanur block up to a depth of 87.95 m. Three meta-pyroxenite bands have been delineated along the borehole with a cumulative thickness of 36.25 m. Two boreholes have been drilled in Karappadi block. In the first borehole three meta-pyroxenite bands have been delineated along the borehole with a cumulative thickness of 10.55 m. Samples have been processed and sent for PGE analysis. Partial results have been received with Pt value ranging from 5 ppb to 255 ppb and Pd value ranging from 10 ppb to 730 ppb. The other borehole BH- 5 has been drilled along KPT-3D trench profile up to a depth of 75.10 m. Seven meta-pyroxenite bands with a cumulative thickness of 18.5 m have been delineated. Seven boreholes (BH-1 to 7) have been drilled in Mallanayakanpalaiyam block to intersect the metapyroxenite+chromitite band. Several metapyrox-enite bands have been intersected; the samples collected along the metapyroxenite bands are being processed and sent for PGE and trace analyses. EPMA and ore petrographic studies have been carried out on selected section, which has given moderate to high PGE values, high temperature sulphides have been identified along with few suspected PGE grains.

(Contd.)

## STATE REVIEWS

Table - 3 (Contd.)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Metreage		
<b>GSI</b> <b>PGE</b> Coimbatore	Mettupalaiyam	-	-	-	-	-	Reconnaissance (G-4) stage investigation for PGE has been initiated during FS 2010-12 to map all the ultramafic bodies in Attikadavu, Velliyankadu, Tolampalaiyam, Melbavi, Karamadai, Mettupalaiyam, Pugalur, Vadavalli area, within MUB and to carry out comprehensive preliminary study of the ultramafic (UM) bodies to assess its PGE potentials. The major litho-units are hornblende θC biotite gneiss, charnockite, meta-gabbro. Metapyroxenite, amphibolite, ferruginous quartzite, magnetite quartzite, K-feldspar rich pegmatoidal granite, and dolerite dyke and quartz veins. The contact between Hornblende biotite gneiss and Pegmatoidal granite is sheared which is very well exposed to the south of Togarnalai hill. The shear zones are ductile to semi brittle-ductile in nature and predominantly showing dextral shear sense. A total of ten meta pyroxenite bands/bodies are demarcated. The first body is exposed from Devangapuram to north of Vadavalli and extending over a strike length of 2 km. The second metapyroxenite band exposed at Village Melbavi having almost NE-SW strike direction with 1 km. Strike length is located for the first time. The work has been completed.
-do-	Tasampalaiyam,	-	-	-	-	-	Reconnaissance stage (3-4) investigation for Platinum Group of Element (PGE) initiated during FS 2009-10 by scout drilling is being continued in FS 2010-12 in Block of Sittampundi layered mafic-ultramafic complex. The Sittampundi Layered Complex exposes hornblende anorthosite gneiss with bands and lenses metapyroxenite/chromi-ferous metapyroxenite, chromitite and garnet pyroxene granulite within the tonalite-granodiorite gneisses. The Sittampundi Complex is divided



## STATE REVIEWS

Table - 3 (Concl.d.)

Agency/ Mineral/ District	Location	Mapping		Drilling		Sampling	Remarks Reserves/Resources estimated
		Scale	Area (sq km)	No. of boreholes	Metreage		
<b>PGE</b> Coimbatore (Contd.)	Tasampalaiyam	-	-	13	-	-	into three main blocks viz, Karungalpatti, Chettiyampalaiyam and Tasampa-laiyam (from east to west) for the purpose of exploration. During FS 2010-12, scout drilling was carried out in T3 (eight scout boreholes) and T4 sectors (five boreholes) of Tasampalaiyam block as well as Karungalpatti block and closed spaced trenching in T4 sector of Tasampalaiyam block to intersect the PGE mineralised bands at 30 m vertical depth and also to delineate the strike continuity of the mineralised zone. Analytical results of boreholes BH-1, BH-3, BH/4, BH/6 and BH/7 drilled in T1 and T2 sectors of Tasampalaiyam block show high values of PGE in core samples. Based on the analytical results the following significant zones were delineated. BH 1: 4.5 ppm PGE over 1.63 m width BH 3: 3.10 ppm PGE over 1.90 m and 80 ppm over 1.50 m width BH 4: 4.93 ppm PGE over 1.45 m and 6.35 ppm over 1.25 m width BH 6: 2.30 ppm PGE over 1.20 m width. BH 7: 1.1ppm PGE over 3.88 m and 2.10 ppm PGE over 3.10 m width. The analytical results of boreholes drilled in T3 and T4 sectors are awaited. The work has been completed. A new prospecting stage investigation work has been taken up in the eastern part of Tasampalaiyam block (T1 and T2) sector to prove the depth persistence of PGE mineralisation during FS 2012-13 .
<b>MECL</b> Lignite (Neyveli Lignite field)	Sikkal	-	-	27	11640	400	Potential resources of lignite have been established. Promotional drilling on behalf of Ministry of Coal was carried out.

## STATE REVIEWS

**Table – 4 : Mineral Production in Tamil Nadu, 2009-10 to 2011-12  
(Excluding Atomic Minerals)**

(Value in ₹'000)

Mineral	Unit	2009-10			2010-11			2011-12 (P)		
		No. of mines	Qty	Value	No. of mines	Qty	Value	No. of mines	Qty	Value
<b>All Minerals</b>		<b>175</b>		<b>45157727</b>	<b>192</b>		<b>46756551</b>	<b>278</b>		<b>56360994</b>
Lignite	'000t	3	22338	30262900	3	23144	28755300	3	24590	36964800
Natural Gas (utilised.)	m c m	-	1178	4408601	-	1119	7162719	-	1285	8225285
Petroleum (crude)	'000t	-	239	4312461	-	233	4254156	-	247	4509771
Bauxite	t	1	3342	852	3	45898	8789	2	69092	17305
Ball Clay	t	1	22585	5059	1	20001	16461	1	4485	4498
Dunite	t	-	34296	10451	-	21745	6519	-	35377	24873
Felspar	t	-	451	117	1	14555	3768	1	27594	9551
Fireclay	t	3	23260	4431	4	52620	9948	12	61641	11716
Garnet (abrasive)	t	63	1444781	678913	62	1954289	1025423	65	1742434	1006851
Graphite (r.o.m.)	t	2	51719	25676	2	50079	24991	2	58305	28703
Sillimanite*	t	-	67	763	-	150	1593	-	-	-
Limestone	'000t	83	20619	3717570	90	20566	3765907	137	21736	3963613
Lime Kankar	t	1	334287	58500	1	383202	84688	2	310388	62492
Limeshell	t	-	-	-	1	365	274	1	86	86
Magnesite	t	4	235446	349195	5	165601	276628	6	147207	237760
Marl**	t	-	1623568	136226	-	660686	83242	-	223580	21938
Quartz	t	8	6952	7898	11	8674	18045	38	14423	14653
Silica Sand	t	4	10476	5688	6	8886	5466	7	4502	6517
Talc/soapstone steatite	t	1	1000	200	1	1295	259	-	-	-
Sulphur#	t	-	41346	-	-	-	-	-	-	-
Vermiculite	t	1	1602	3558	1	2153	4818	1	1507	3025
Minor Minerals@		-	-	1168668	-	-	1247557	-	-	1247557

*Note: The number of mines excludes petroleum (utilised), natural gas and minor minerals.*

*\* Associated with kyanite.*

*\*\* Associated with limestone.*

*# Recovered as by-product from oil refinery.*

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

## STATE REVIEWS

**Mineral-based Industry**

The important large and medium-scale mineral-based industries in organised sector in the State are given 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>Aluminium</b>	
MALCO, Mettur Dam (Non-operational).	85 (alumina) 40 (aluminium)
<b>Asbestos Products</b>	
Hyderabad Industries Ltd, Kannigaiper.	100.0
Ramco Industries Ltd, Arakkonam, Dist. Kancheepuram.	NA
Tamil Nadu Asbestos, Alangulam, Dist. Virudhunagar.	28.5
<b>Cement</b>	
ACC Ltd, Madukkarai, Dist. Coimbatore.	960
Chettinad Cement Corpn. Ltd, Karur, Dist. Dindigul.	600
Chettinad Cement Corpn. Ltd, Karikalli Dist. Tiruchirapalli.	1200
Dalmia Cements, Dalmiapuram, Dist. Trichirapalli	4000
Grasim South, Reddipalayam.	1030
The India Cements Ltd, Sankarnagar, Dist. Tirunelveli.	2050
The India Cements Ltd, Sankari, Dist. Salem (G)	700
The India Cements Ltd, Dalavoi, Ariyalur.	2160
Ultra-Tech Cement Ltd Reddipalayam, Dist. Ariyalur.	1400
Ultra-Tech Cement Works, ARCW, Arakkonam (G).	1200

(Contd.)

Table - 5 (Contd.)

Industry/plant	Capacity ('000 tpy)
Madras Cements, R.S. Raja Nagar, Dist. Virudhunagar.	750
Madras Cements, Alathiyur.	3120
Tamil Nadu Cements, Alangulam, Dist. Virudhunagar.	400
Tamil Nadu Cements, Ariyalur, Dist. Ariyalur.	500
<b>Ceramics</b>	
Carborandum Universal Ltd, Hosur.	NA
Parryware Glamourooms Pvt. Ltd, Ranipet Dist. Vellore.	15
Murugappa Morgan Thermal Ceramics Ltd, Ranipet, Dist. Vellore.	5.44
Neycer India Ltd, Vadalur, Dist. Cuddalore.	9.0
Spartek Ltd, Chennai.	NA
<b>Copper Smelter</b>	
Sterlite Industries (I) Ltd, Thoothukudi.	400 (Cu anode) 205 (Cu cathode) 90 (wire rods) 1050 (H <sub>2</sub> SO <sub>4</sub> )
<b>Fertilizer</b>	
CPFL, Muthugoundanpadur Dist. Coimbatore.	60 (SSP) 30 (H <sub>2</sub> SO <sub>4</sub> ) 3 (oleum)
Coramandal Fertilizer Ltd, Ranipet Dist. Vellore.	132 (SP) 33 (H <sub>2</sub> SO <sub>4</sub> )
Coramandal Fertilizer Ltd, Ennore, Dist. Thiruvallur.	330 (NPK) 492 (phospho-gypsum)
EID-Parry (I) Ltd, Ranipet Dist. Vellore.	132.00 (super) 33.00 (H <sub>2</sub> SO <sub>4</sub> )
KICL, Ennore	82.00 (SSP) 41.00 (SAP)
Madras Fertilizer Ltd, Manali, Dist. Thiruvallur.	486.7 (urea) 840 (NPK)
Southern Petrochemical Industries Corpn. Ltd, Thoothukudi.	512 (urea) 606 (DAP) 2.56 (AlF <sub>3</sub> )
<b>Chemicals</b>	
Tanfac Industries Ltd, Cuddalore.	17 (HF) 17 (AlF <sub>3</sub> )

(Contd.)

## STATE REVIEWS

Table -5 (Contd.)

Industry/plant	Capacity ( <sup>'000</sup> tpy)
Tuticorin Alkali Chemicals & Fertilizers Ltd, Thoottukudi	115 (soda ash) 115 (NH <sub>4</sub> Cl)
<b>Synthetic Rutile</b> DCW Ltd, Sahupuram, Dist. Thoothukudi.	48
<b>TiO<sub>2</sub> Pigment</b> VVTi Pigments (P) Ltd, (formerly, Kilburn Chemicals) Dist. Thoothukudi.	13
<b>Foundry</b> Raja Foundry, Singanallur, Dist. Coimbatore.	NA
CPC Premier (P) Ltd, Coimbatore.	NA
Hinduja Foundries Ltd, Ennore.	NA
Krishna Engineering Co. Pvt Ltd, Tiruchirapalli.	NA
The KCP Ltd, Thiruvottiyur, Chennai.	NA
<b>Iron &amp; Steel</b> Salem Steel Plant (SAIL), Salem.	320 (saleable steel)
Southern Iron & Steel Co. Ltd, Salem.	180 (pig iron) 300 (saleable steel)
<b>Sponge Iron</b> Adhunik Metals Ltd, Eguvarpalayam, Dist. Thiruvallur.	60
Arshara Industries Ltd, Equvarpalayam, Dist. Thiruvallur.	60
Kaushik Steel Industries Ltd, Pappen Kuppam Dist. Thiruvallur.	60
Agni Steels Pvt Ltd, Olappalayam Road, Ingur, Dist. Erode	30
<b>Refractory</b> ABREF Pvt. Ltd, Gummudipoondi, Dist. Thiruvallur.	1.3
Sharda Ceramics Pvt. Ltd, Ambattur, Chennai.	9.9

(Contd.)

Table -5 (Concl.)

Industry/plant	Capacity ( <sup>'000</sup> tpy)
Shri Natraj Ceramic & Chemical Industries Ltd, Dalmiapuram, Dist. Tiruchirapalli.	42
VRW Refractories, Vanagaram.	21.6
<b>DBM &amp; Calcined Magnesite</b> Badrinath Refractories, Salem.	0.9 (DBM) 2 (calcined)
Burn Standard Co. Ltd, Salem.	18 (calcined magnesite) 54 (DBM) 48 (refractory)
Carborandum Universal Ltd, Ranipet, Dist. Vellore.	NA
Carborandum Universal Ltd, Pallikaranai.	NA
Dalmia Magnesite Corpn., Chettichavadi Dist. Salem.	125 (DBM)
Khaitan Hostambe Spinel, Salem.	30 (DBM) 10 (Mg-Cr clinker)
Ramkrishna Magnesite Mines, Salem.	3 (calcined)
Salem Refractories, Salem.	18 (DBM)
Tamil Nadu Magnesite Ltd, Kurumbapatty, Dist. Salem.	19.5 (calcined magnesite) 30 (DBM)
Tata Refractories Ltd, Salem.	25 (DBM) 2 (Calcined)
Tamil Nadu Products, Salem.	3 (Calcined)
Pon Kumar Magnesite Ltd, Salem	26.5 (DBM)
Khetan Hostambe Spinel, Ltd, Salem.	30 (DBM) 10 (Cr magnesite)
<b>Silicon Carbide</b> Carborandum Universal Ltd, Tiruvottiyur	NA
<b>Petroleum Refinery</b> CPCL, Manali, Dist. Thiruvallur.	10500
CPCL, Narimanam.	1000

(G) : Grinding unit.