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MINISTRY OF MINES
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INDIAN BUREAU OF MINES
खनन एवं खनिज सांख्यिकी प्रभाग
MINING & MINERAL STATISTICS DIVISION

**Statistical Profiles
of
Minerals**

2016-17

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INDIAN BUREAU OF MINES, NAGPUR**

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Abbreviations/Symbols

crt : Carat	(e) : Estimated	N.A. : Not Available
++ : Negligible	N.E. : Not Estimated	- : Nil
(p) : Provisional	(r) : Revised	Th. : Thousand

INTRODUCTION

This publication presenting the information on mineral production for 2016-17 is the 33nd issue of the series 'Statistical Profiles of Minerals'. It provides a bird's eye view of different aspects of all the minerals (except atomic, fuel and minor minerals) produced in the country, which fall under the purview of Mineral Conservation and Development Rules, 1988 (MCDR 1988). The 31 minerals notified as minor minerals vide notification dated 10th February 2015, are not part of this publication.

The publication contains information on various parameters i.e. mineral reserves and its life index, number of mining leases, lease area, number of mines, production by captive and non-captive mines, public & private sector, A & B category, state, grade etc. Data on employment, stock, principal mines, domestic consumption and exports/imports by countries are also presented in the publication.

The total mineral reserves/remaining resources in respect of minerals has been updated as on 1-4-2015. Life Indices and mineral resources data has been compiled based on the latest updated information available with this office. Due to conceptual changes, there will be a few notable variations in the life indices if compared with the earlier one. The Mineral Economics Division of the Bureau has supplied data on reserves, life index, mining leases and domestic consumption.

Data on production for 2015-16 are based on the production reported by the mine owners through Annual/Monthly returns under the provisions of the MCDR 1988 while those for 2016-17 are based on the monthly production reported by the mine owners in Monthly returns. Data on stocks relate to mine-head at the end of the financial year. The foreign trade data are incorporated for the years 2012-13 to 2016-17 and country-wise information is given for the year 2016-17 as received from the source agency i.e. Director General, Commercial Intelligence & Statistics, Kolkata. The export data includes re-exports for the years 2012-13 to 2016-17. Country-wise break-up of some of the minerals at 8- digit ITC (HS) code level is not available for the year 2016-17. The entire figures of such minerals have been grouped under country-item 'unspecified' and are covered under 'others'. The data in respect of such minerals have limitations to that extent.

APATITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. tonnes)	29	24016	24045

Life Index (Years) : Very Large

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases	Lease Area
	2	20.17

C) **Mines Reporting Production** :

	No. of Mines		Production (tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	2	2	110	-
Public Sector	1*	1*	-	-
Private Sector	1	1*	110	-
Non-captive	2	2	110	-
'A' Category	1*	1*	-	-
'B' Category	1	1*	110	-
STATES				-
Andhra Pradesh	1	1*	110	-
West Bengal	1*	1*	-	-

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)	572	1300	930	110	-
Value (Rs. '000)	1208	2768	2065	387	-

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. tonnes)		7	7	7	7	7

F) **Employment** :

No. of Persons Employed per Day	95	47
Percentage Share of Employment to Total for MCDR Minerals	0.08	0.04

*Only labour reported

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. tonnes) (Apatite & Rock Phosphate)	4087	4237	4341	4442	1994

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Exports of All Minerals	-	-	-	-	-
Imports					
Quantity (tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Imports of All Minerals	-	-	-	-	-

I) Exports/Imports by Country in 2016-17 :

Exports	
Quantity (tonnes)	-
Value (Rs. crore)	-
Imports	
Quantity (tonnes)	-
Value (Rs. crore)	-

J) Apatite Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Andhra Phosphate	Vill. N.R. Puram Distt. Visakhapatnam Andhra Pradesh	Andhra Phosphate (P) Ltd, 45-58-17/5, Narasimhaanagar, Visakhapatnam – 530024, Andhra Pradesh.
Beldih Apatite Mine	Vill. Beldih Distt. Purulia West Bengal	West Bengal Mineral Development & Trading Corporation. Ltd., 13 th Nellie Sengupta Sarani, Kolkata – 700087.

K) Contribution of above Mines in 2016-17 :

Quantity (tonnes)	-
Percentage Share to All-India Production	-

ASBESTOS

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (All Grades) (Th. tonnes)	24	22923	22947

Life Index (Years) : Very Large

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases 1	Lease Area 49.22
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C) **Mines Reporting Production** :

	No. of Mines		Production (tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	-	-	-	-
Private Sector	-	-	-	-
Non-captive	-	-	-	-
'A' Category	-	-	-	-
'B' Category	-	-	-	-
STATES				
Andhra Pradesh	-	-	-	-
Rajasthan	-	-	-	-
GRADES				
Chrysotile	-	-	-	-

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)	389	172	-	-	-
Value (Rs. '000)	17057	7271	-	-	-

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)		63	11	11	-	-

F) **Employment** :

No. of Persons Employed per Day : - -

Percentage Share of Employment to Total for MCDR Minerals : - -

G) Domestic Consumption Trend	:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. tonnes)		104	104	N.A	N.A.	N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (tonnes)	78	96	393	524	102
Value (Rs. crore)	0.07	0.05	1.20	2.36	0.10
Percentage Share to the Value of Exports of All Minerals	++	++	++	++	++
Imports					
Quantity (tonnes)	460445	285870	396493	355686	310592
Value (Rs. crore)	1900.4	1329.9	1716.8	1486.55	1127.94
Percentage Share to the Value of Imports of All Minerals	0.17	0.11	0.16	0.20	0.14

I) Exports/Imports by Country in 2016-17:

Exports	Nepal		Bangladesh		UAE	
Quantity (tonnes)	76		16		10	
Value (Rs. crore)	0.03		0.05		0.02	
Imports	Russia	Kazakhstan	Brazil	China P Rep	Poland	Others
Quantity (tonnes)	208696	63497	37280	1005	68	46
Value (Rs. crore)	779.15	211.08	134.16	3.2	0.19	0.16

J) Principal Asbestos Mines in 2016-17:

Name of Mine	Location of Mine	Address of Mine Owner
-----No production reported-----		

K) Contribution of above Mines in 2016-17:

Quantity (tonnes) -

Percentage Share to All-India Production -

BAUXITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. tonnes)	656422	3240442	3896864
Life Index (Years)	:		110
B) Mining Leases as on 31-3-2016 (Area in Hectares)	:	No. of Leases 372	Lease Area 29106.76

C) **Mines Reporting Production** :

	No. of Mines		Production (Th. tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	190(5)	157(7)	28124	24665
Public Sector	18	17	6620	7581
Private Sector	172(5)	140(7)	21504	17084
Captive	82	60	19186	19825
Non-captive	108(5)	97(7)	8938	4840
'A' Category	22	22	15784	16809
'B' Category	168(5)	135(7)	12340	7856
STATES				
Chhattisgarh	11	13	1992	1954
Goa	1	1	164	0
Gujarat	115	86	10387	5819
Jharkhand	19	18	2111	2290
Karnataka	2	2	12	0
Madhya Pradesh	22(5)	18(7)	684	659
Maharashtra	13	13	1908	1946
Odisha	4	3	10839	11990
Tamil Nadu	3	3	27	7
For use in alumina and aluminium metal extraction*				
Above 60% Al ₂ O ₃			-	-
55 – 60% Al ₂ O ₃			-	-
50 – 55% Al ₂ O ₃			16	17
45 – 50% Al ₂ O ₃			3034	1632
40 – 45% Al ₂ O ₃			13761	15049
Below 40% Al ₂ O ₃			859	1097
For use other than alumina and aluminium metal extraction *				
Cement			9864	6112
Abrasive			259	84
Refractory			279	278
Chemical			52	396

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. tonnes)	16508	22319	22494	28124	24665
Value (Rs. '000)	7960767	9996894	11922367	15437694	14170420

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	016-17(p)
Quantity (Th. tonnes)		7873	12084	10768	14093	16262

F) Employment	:					
No. of Persons Employed per Day				8652	6029	
Percentage Share of Employment to Total for MCDR Minerals				7.47	5.55	

() : Figures in parentheses indicate additional mines associated with ochre, iron ore, fire clay, laterite & limestone.

* Substituted by G.S.R. 330(E), dated 10.4.2003.

G) Domestic Consumption Trend	:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. tonnes)		13236	14077	13572	19623	20847

H) Exports/Imports Trend :

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. tonnes)	4198	3493	6809	8915	2791
Value (Rs. crore)	675.20	673.65	1405.07	1952.74	510.53
Percentage Share to the Value of Exports of All Minerals	0.42	0.35	0.79	1.14	0.26
Imports					
Quantity (Th. tonnes)	67	422	1801	1116	1895
Value (Rs. crore)	149.47	366.25	856.09	598.29	778.51
Percentage Share to the Value of Imports of All Minerals	0.01	0.03	0.08	0.08	0.10

I) Exports/Imports by Country in 2016-17:

Exports	China P Rp	Kuwait	Nepal	Estonia	Oman	Others
Quantity (Th. tonnes)	2355	308	42	31	21	34
Value (Rs. crore)	397.03	53.45	10.00	5.48	5.03	39.54
Imports	Guinea	Brazil	Pakistan	Guinea Bisu	China P Rp	Others
Quantity (Th. tonnes)	1258	202	180	112	98	45
Value (Rs. crore)	377.35	79.69	110.82	34.73	167.32	8.6

J) Five Principal Bauxite Mines in 2016-17:

Name of Mine	Location of Mine	Address of Mine Owner
Panchpatmali	Vill. Panchpatmali Distt. Koraput Odisha	National Aluminium Co. Ltd, Nalco Bhawan, P-1 Nayapalli, Bhubaneswar, Khurda – 751 013, Odisha.
Baphlimali	Vill. Paikkupakhal Distt. Rayagada Odisha	Utkal Alumina International Ltd, J-6, Jayadev Vihar, Bhubaneswar – 751 013, Odisha.
Asota Mewasa	Vill. Mewasa Distt. Devbhoomi Dwarka Gujarat	Bombay Minerals Ltd., Jamnagar-Dwarka High Way, Jam-Khambalia Distt. Devbhoomi Dwarka, Gujarat – 361 305.
Bodai Daldali	Vill. Semsata Distt. Kabirdam Chhattisgarh	Bharat Aluminium Co. Ltd., Aluminium Sadan, Core-6, SCOPE Office complex, 7 Lodhi Road, New Delhi-110003.
Nandana	Vill. Nandana Distt. Devbhoomi Dwarka Gujarat	Minerals & Minerals Corporation., 8/9, Ankur Appartment, Near Motor Park Colony, Jamnagar-361001, Distt. Jamnagar, Gujarat.

K) Contribution of above Mines in 2016-17:

Quantity (Th. tonnes)	15440
Percentage Share to All-India Production	63

CHROMITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (All Grades) (Th. tonnes)	102210	241806	344016

Life Index (Years) : 94

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases 34	Lease Area 8955.19
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C) **Mines Reporting Production** :

	No. of Mines		Production (Th. tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	25	25	2916	3728
Public Sector	10	10	1077	1272
Private Sector	15	15	1839	2456
Captive	6	6	945	1001
Non-captive	19	19	1971	2727
'A' Category	21	21	2715	3715
'B' Category	4	4	201	213
STATES				
Karnataka	3	3	2	1
Maharashtra	1	1	++	++
Odisha	21	21	2914	3727
GRADES				
Above 52% Cr ₂ O ₃	Lumps		-	-
	Fines		782	1102
40 - 52% Cr ₂ O ₃	Lumps		52	142
	Fines		1058	1354
Below 40% Cr ₂ O ₃	Lumps		112	127
	Fines		545	531
Concentrates			367	472

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. tonnes)	2834	2878	2164	2916	3728
Value (Rs. '000)	22627633	23759458	18800279	21214490	36438254

E) Closing Stock	:	2012-13	2013-14	2013-14	2015-16	2016-17(p)
Quantity (Th. tonnes)		2559	2258	2245	2560	2694

F) Employment	:					
No. of Persons Employed per Day				6645	7066	
Percentage Share of Employment to Total for MCDR Minerals				5.73	6.5	

G) Domestic Consumption Trend	:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. tonnes)		2603	2433	2058	2448	2161

H) Exports/Imports Trend :

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. tonnes)	196	195	25	72	230
Value (Rs. crore)	310.76	346.84	65.93	131.41	365.77
Percentage Share to the Value of Exports of All Minerals	0.19	0.18	0.04	0.08	0.18
Imports					
Quantity (Th. tonnes)	217	261	243	188	154
Value (Rs. crore)	250.34	309.97	287.15	226.64	210.51
Percentage Share to the Value of Imports of All Minerals	0.02	0.03	0.03	0.03	0.03

I) Exports/Imports by Country in 2016-17 :

Exports	China P Rp		Japan	S. Africa	Egypt A Rep	
Quantity (Th. tonnes)	213		17	--	--	
Value (Rs. crore)	332.02		33.75	--	--	
Imports	S. Africa	Oman	Madagascar	Pakistan	Zimbabwe	Others
Quantity (Th. tonnes)	82	48	8	7	4	5
Value (Rs. crore)	140.5	38.08	8.92	10.01	6.22	6.78

J) Five Principal Chromite Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Bhimtangar (Sukinda)	Vill. Bhimtangar Distt. Jajpur Odisha	Tata Steel Ltd., Bombay House, 24, Homi Mody Street Fort Mumbai – 400 001.
South Kaliapani	Vill. Kaliapani Distt. Jajpur Odisha	The Odisha Mining Corpn. Ltd., OMC House, Unit 5, Post Box No-34, Bhubneshwar – 751 001, Odisha.
Sukinda	Vill. Kaliapani Distt. Jajpur Odisha	Indian Metals & Ferro Alloys Ltd., IMFA Building, Bomikhal, P.O. Rasulgarh, Bhubaneswar – 751 010, Odisha.
Kaliapani	Vill. Kaliapani Distt. Jajpur Odisha	Balasore Alloys Ltd., Balgopalpur, P.O. Rasalpur, Balasore – 756 020, Odisha.
Mahagiri	Vill. Kaliapani Distt. Jajpur Odisha	Indian Metals & Ferro Alloys Ltd., IMFA Building, Bomikhal, P.O. Rasulgarh, Bhubaneswar – 751 010, Odisha.

K) Contribution of above Chromite Mines in 2016-17:

Quantity (Th. tonnes)	2957
Percentage Share to All-India Production	79

COPPER ORE & CONCENTRATES

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 :			
(Th. tonnes) a) Ore	207767	1303730	1511498
b) Metal	2735	9423	12158
Life Index (Years) (Ore) :			194

B) Mining Leases as on 31-3-2016 :	No. of Leases	Lease Area
Ore (Area in Hectares)	14	4253.98

C) Mines Reporting Production :

	No. of Mines		Production(Th. tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
India	5	5		
Ore			3908	3846
Concentrates			152	135
Public Sector	5	5		
Ore			3908	3846
Concentrates			152	135
Captive	5	5		
Ore			3908	3846
Concentrates			152	135
'A' Category	5	5		
Ore			3908	3846
Concentrates			152	135

STATES	No. of Mines		Production (Th. tonnes)			
	2015-16	2016-17(p)	2015-16		2016-17(p)	
			Qty	Cu%	Qty	Cu%
Jharkhand	2	2				
Ore			267	0.88	314	0.87
Concentrates			9	25.25	10	25.92
Madhya Pradesh	1	1				
Ore			2537	0.81	2415	0.81
Concentrates			79	25.00	68	27.76
Rajasthan	2	2				
Ore			1104	1.06	1117	1.01
Concentrates			64	16.43	57	18.53

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. tonnes)					
Ore	3636	3778	3505	3908	3846
Concentrates	124	139	108	152	135
Value (Rs. '000)					
Concentrates	6288969	6681011	5289409	6548318	6403534

E) Closing Stock :	2012-13	2013-14	2013-14	2015-16	2016-17(p)
Quantity (Th. tonnes) Ore	103	7	48	90	67
Concentrates	16	9	12	42	38

F) Employment :

No. of Persons Employed per Day	3285	2820
Percentage Share of Employment to Total for MCDR Minerals	2.83	2.59

G) Domestic Consumption Trend	:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (tonnes)		N.A.	N.A.	N.A.	N.A.	N.A.

H) Exports/Imports Trend :

Exports (Ores & Concentrates)	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (tonnes)	30	38912	1	11432	22711
Value (Rs. crore)	0.34	334.99	++	71.29	105.43
Percentage Share to the Value of Exports of All Minerals	++	0.17	++	0.04	0.05
Imports (Ores & Concentrates)					
Quantity (tonnes)	2296421	2048240	1702247	1886199	1143216
Value (Rs. crore)	30970.44	33226.74	28502.82	26296.54	18298.7
Percentage Share to the Value of Imports of All Minerals	2.81	2.73	2.66	3.56	2.26

I) Exports/Imports by Country in 2016-17:

Exports	China P Rp		France		Germany		Iran
Quantity (tonnes)	22708		1		1		1
Value (Rs. crore)	105.38		0.01		0.01		0.03
Imports	Chile	Indonesia	Australia	Peru	Lao Pd Rp	Others	
Quantity (tonnes)	376236	226271	176152	144013	59854	160690	
Value (Rs. crore)	6114.65	4083.41	2380.1	2324.68	546.62	2849.24	

J) Copper Ore Mines in 2016-17:

Name of Mine	Location of Mine	Address of Mine Owner
Malanjkhanda	Vill. Malanjkhanda (Karamsara) Distt. Balaghat Madhya Pradesh	Hindustan Copper Ltd, Tamra Bhawan, Ashutosh Choudhury Avenue, Kolkata – 700 019.
Kolihan	Vill. Kolihan Nagar/Khetri Distt. Jhunjhunu Rajasthan	
Khetri	Vill. Banwas Distt. Jhunjhunu Rajasthan	
Surda	Vill. Surda & Mosabani Distt. Singhbhum (East) Jharkhand	
Kendadih	Vill. Terenga Distt. Singhbhum (East) Jharkhand	

K) Contribution of above Mines in 2016-17:

Quantity (Th. tonnes) (Copper Ore)	3846
Percentage Share to All-India Production	100

DIAMOND

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. carats)	960	30876	31836
Life Index (Years)			76

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases	Lease Area
	2	275.96

C) **Mines Reporting Production** :

	No. of Mines		Production (carats)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	2	2	36044	36516
Public Sector	2	2	36044	36516
Non-captive	2	2	36044	36516
'A' Category	1	1	35549	35636
'B' Category	1	1	495	880
STATE				
Madhya Pradesh	2	2	36044	36516

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (carats)	31988	37517	36107	36044	36516
Value (Rs. '000)	366471	614087	613504	621441	639596

E) Closing Stock	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (carats)	18888	15076	15303	14084	24102

F) **Employment** :

No. of Persons Employed per Day	156	157
Percentage Share of Employment to Total for MCDR Minerals	0.13	0.14

G) Domestic Consumption Trend : **2012-13** **2013-14** **2014-15** **2015-16(r)** **2016-17(p)**
Quantity (tonnes) N.A. N.A. N.A. N.A. N.A.

H) Exports/Imports Trend :

Exports (Mostly Cut) #	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. carats)	65561	**	**	**	**
Value (Rs. crore)	126568.14	158004.97	148055.77	142664.05	162567.30
Percentage Share to the Value of Exports of All Minerals	79.06	81.12	83.17	83.46	81.23
Imports (Mostly Cut) #					
Quantity (Th. carats)	135729	**	**	**	**
Value (Rs. crore)	117567.81	134117.11	125034.80	110378.47	129442.6
Percentage Share to the Value of Imports of All Minerals	9.70	11.03	11.67	14.94	15.99

I) Exports/Imports by Country in 2016-17 :

Exports (Mostly Cut)	UAE	Hong Kong	Belgium	USA	Japan	Others
Quantity (Th. carats)	**	**	**	**	**	**
Value (Rs. crore)	14764.01	61528.43	15958.34	49420.95	1607.16	19288.41
Imports (Mostly Cut)	Belgium	UAE	Russia	Canada	Hong Kong	Others
Quantity (Th. carats)	**	**	**	**	**	**
Value (Rs. crore)	34026.16	29786.9	15104.34	3692.38	14070.51	32762.31

J) Diamond Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Majhgawan	Vill. Majhgawan Distt. Panna Madhya Pradesh	National Min. Dev. Corpn. Ltd, 10-3-311/A, Khanij Bhavan ,Castle Hills, Masab Tank, Hyderabad – 500 028, Andhra Pradesh.
Shallow (Uthali)	Vill. Itwan, Ramkhiria Distt. Panna Madhya Pradesh	Director of Geology & Mining, (Diamond Project), Govt. of Madhya Pradesh, Khanij Bhavan, 29-A, Arera Hills, Bhopal – 462 016, Madhya Pradesh.

K) Contribution of above Mines in 2016-17 :

Quantity (carats) 36516
Percentage Share to All-India Production 100

: The quantities published in earlier issues for the year 2013-14 to 2015-16 may be treated as a ** since it is found that the unit level quantities were non additive.

EMERALD

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Kgs.)	-	55869	55869
Life Index (Years)			N.E.

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases	Lease Area
	1	46.32

C) Mines Reporting Production :

	No. of Mines		Production (kg)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	No Production reported			
Private Sector	- do -			
Non-Captive	- do -			
'B' Category	- do -			
STATE				
Rajasthan	- do -			

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (kg)	-	-	-	-	-
Value (Rs. '000)	-	-	-	-	-

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (kg)		-	-	-	-	-

F) Employment :

No. of Persons Employed per Day	-	-
Percentage Share of Employment to Total for MCDR Minerals	-	-

G) Domestic Consumption Trend : **2012-13** **2013-14** **2014-15** **2015-16(r)** **2016-17(p)**
Quantity (tonnes) N.A. N.A. N.A. N.A. N.A.

H) Exports/Imports Trend :

Exports (Uncut/Cut)	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity	**	**	**	**	**
Value (Rs. crore)	2678.74	2157.01	1594.5	1788.00	2034.02
Percentage Share to the Value of Exports of All Minerals	1.67	1.11	0.90	1.05	1.02
Imports (Uncut/Cut)					
Quantity	**	**	**	**	**
Value (Rs. crore)	3746.43	2232.88	6306.24	8726.33	11342.88
Percentage Share to the Value of Imports of All Minerals	0.34	0.18	0.59	1.18	1.40

I) Exports/Imports by Country in 2016-17 :

Exports	Hong Kong	USA	UAE	Thailand	Switzerland	Others
Quantity	**	**	**	**	**	**
Value (Rs. crore)	1069.06	312.87	125.18	120.56	103.12	303.23
Imports	Hong Kong	UAE	Thailand	USA	Zambia	Others
Quantity	**	**	**	**	**	**
Value (Rs. crore)	10273.89	379.55	217.58	154.2	114.7	202.96

J) Emerald Mine in 2016-17 : Nil

K) Contribution of above Mine in 2016-17 :

Quantity (kg) -

Percentage Share to All-India Production -

** Quantity in different units.

FLINT STONE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	N.E.	N.E.	N.E.
Life Index (Years)	:		N.E.
B) Mining Leases as on 31-3-2016 (Area in Hectares)	:	No. of Leases N.E.	Lease Area N.E.

C) **Mines Reporting Production** :

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	1	1	253	26
Private Sector	1	1	253	26
Non-captive	1	1	253	26
'B' Category	1	1	253	26
STATES				
Jharkhand	1	1	253	26

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	633	459	244	253	26
Value (Rs. '000)	192	136	79	76	8

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)		-	-	-	-	-

F) **Employment** :

No. of Persons Employed per Day	2	3
Percentage Share of Employment to Total for MCDR Minerals	++	++

G) Domestic Consumption Trend : 2012-13 2013-14 2014-15 2015-16(r) 2016-17(p)
Quantity (Tonnes) N.A. N.A. N.A. N.A. N.A.

H) Exports/Imports Trend :

Exports (Flint Stone)	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	717	2524	484	867	652
Value (Rs. crore)	0.29	1.82	0.40	0.77	0.66
Percentage Share to the Value of Exports of All Minerals	++	++	++	++	++
Imports (Flint Stone)					
Quantity (Tonnes)	28	N.A.	141	1279	1712
Value (Rs. crore)	0.11	N.A.	0.23	1.74	2.43
Percentage Share to the Value of Imports of All Minerals	++	N.A.	++	++	++

I) Exports/Imports by Country in 2016-17 :

Exports (Flint Stone)	Ethiopia	Japan	Bangladesh	Oman	Nigeria	Others
Quantity (Tonnes)	361	160	55	53	20	3
Value (Rs. crore)	0.25	0.26	0.09	0.04	0.02	++
Imports (Flint Stone)	France		Egypt A Rep	USA	Denmark	
Quantity (Tonnes)	1225		484	2	1	
Value (Rs. crore)	1.79		0.63	++	++	

J) Flint Stone Mines in 2016-17:

Name of Mine	Location of Mine	Address of Mine Owner
Dudxole	Vill. Taljhari, Distt. Sahibganj, Jharkhand.	Sisir Kumar Sarkar, Vill. Taljhari, Taluk:Rajmahal, Distt. Sahibganj – 816 129, Jharkhand.

K) Contribution of above Mines in 2016-17:

Quantity (Tonnes) 26
Percentage Share to All-India Production 100

FLUORITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	289	17893	18182

Life Index (Years) : Very large

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases 11	Lease Area 722.84
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C) **Mines Reporting Production** :

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	2	2	2333	1175
Public Sector	2	2	2333	1175
Captive	1*	1*	-	-
Non-captive	1	1	2333	1175
'A' Category	1*	1*	-	-
'B' Category	1	1	2333	1175
STATES				
Gujarat	1*	1*	-	-
Maharashtra	1	1	2333	1175

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	3092	2487	2946	2333	1175
Value (Rs. '000)	13818	11402	13761	12965	6166

E) Closing Stock	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes) (Graded)	91367	91570	94296	96619	97793

F) Employment		
No. of Persons Employed per Day	58	45
Percentage Share of Employment to Total for MCDR Minerals	0.05	0.04

* : only labour reported.

G) Domestic Consumption Trend : **2012-13** **2013-14** **2014-15** **2015-16(r)** **2016-17(p)**
Quantity (Tonnes) 62900 62500 62600 N.A. N.A.

H) Exports/Imports Trend :

Exports (Fluorite)	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	1195	876	561	316	608
Value (Rs. crore)	2.22	1.65	2.08	1.16	2.16
Percentage Share to the Value of Exports of All Minerals	++	++	++	++	++
Imports (Fluorite)					
Quantity (Tonnes)	98043	117254	155675	163113	190446
Value (Rs. crore)	224.19	241.22	296.71	290.87	299.23
Percentage Share to the Value of Imports of All Minerals	0.02	0.02	0.03	0.04	0.04

I) Exports/Imports by Country in 2016-17 :

Exports (Fluorite)	Egypt A Rp	Indonesia	Bangladesh	Brazil	Nigeria	Others
Quantity (Tonnes)	231	144	65	51	44	73
Value (Rs. crore)	0.73	0.55	0.20	0.26	0.12	0.30
Imports (Fluorite)	China P Rp	Thailand	Kenya	Vietnam Soc Rep	S. Africa	Others
Quantity (Tonnes)	85634	29812	28792	24599	17118	4491
Value (Rs. crore)	137.68	46.75	43.51	35.92	25.49	9.88

J) Fluorite Mines in 2016-17:

Name of Mine	Location of Mine	Address of Mine Owner
Dongargaon	Vill. Dongargaon Distt. Chandrapur Maharashtra	Maharashtra State Mining Corporation Ltd, Plot no. 7, Ajni Square, Wardha Road, Nagpur – 440 015, Maharashtra.
Ambadungar	Vill. Ambadungar Distt. Vadodara Gujarat	Gujarat Minerals Development Corporation Ltd. Khanij Bhawan, 132 Feet Ring Road, Vastrapur, Ahmedabad -380052, Gujarat.

K) Contribution of above Mines in 2016-17:

Quantity (Tonnes) 1175
Percentage Share to All-India Production 100

GARNET

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	12784	43377	56161
Life Index (Years)	:		93
B) Mining Leases as on 31-3-2016 (Area in Hectares)	:	No. of Leases	Lease Area
Abrasive		105	1617.59
Gem		2	38.95
C) Mines Reporting Production	:		

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
Garnet (Abrasive)				
INDIA	7(1)	7(1)	82001	85411
Public Sector	2(1)	3(1)	25460	32687
Private Sector	5	4	56541	52724
Non-captive	7(1)	7(1)	82001	85411
'A' Category	3(1)	4(1)	57348	64307
'B' Category	4	3	24653	21104
STATES				
Andhra Pradesh	2	2	55583	51243
Odisha	(1)	(1)	14767	22076
Rajasthan	3	2	958	1481
Tamil Nadu	2	3	10693	10611

D) Production Trend :

Garnet (Abrasive)	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)	768248	483559	91394	82001	85411
Value (Rs. '000)	924683	1113231	800998	648124	758300

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity Garnet (Abrasive) (Tonnes)		53609	89886	63608	62908	67955

F) Employment :

No. of Persons Employed per Day	1890	1478
Percentage Share of Employment to Total for MCDR Minerals	1.63	1.36

() : Figures indicate associated mine with sillimanite.

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. Tonnes)	774	774	N.A	N.A.	N.A.

H) Exports/Imports Trend:

Exports (Garnet (Abrasive))	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	505281	480774	448559	480408	387276
Value (Rs. crore)	510.87	606.03	567.38	595.09	469.18
Exports (Garnet (Cut & Uncut))					
Quantity	**	**	**	**	**
Value (Rs. crore)	4.98	3.94	3.11	2.54	24.17
Percentage Share to the Value (Abrasive) of Exports of All Minerals (Cut & Uncut)	0.32	0.31	0.32	0.35	0.23
	++	++	++	++	0.01
Imports (Garnet (Abrasive))					
Quantity (Tonnes)	1115	626	647	883	2286
Value (Rs. crore)	1.98	1.05	1.03	1.11	2.22
Imports (Garnet (Cut & Uncut))					
Quantity	**	**	**	**	**
Value (Rs. crore)	11.79	4.69	6.87	6.26	22.23
Percentage Share to the Value (Abrasive) of Imports of All Minerals (Cut & Uncut)	++	++	++	++	++
	++	++	++	++	++

I) Exports/Imports by Country in 2016-17:

Exports (Garnet Abrasive)	USA	UAE	Kuwait	Korea Rp	Saudi Arab	Others
Quantity (Tonnes)	69306	48865	27185	20292	18929	202699
Value (Rs. crore)	75.03	66.54	35.12	27.52	24.07	240.90
Exports (Garnet (Cut & Uncut))	HongKong	Thailand	USA	Japan	Czech Rep	Others
Quantity	**	**	**	**	**	**
Value (Rs. crore)	10.61	8.39	3.01	0.78	0.63	0.75
Imports (Garnet Abrasive)	U Arab Emts	Baharain Is	China P Rp	USA		
Quantity (Tonnes)	2238	26	18	4		
Value (Rs. crore)	2.12	0.03	0.04	0.03		
Imports (Garnet (Cut & Uncut))	Hong Kong	S. Africa	Thailand	Sri Lanka	Kenya	Others
Quantity	**	**	**	**	**	**
Value (Rs. crore)	16.41	1.31	1.27	1.07	0.87	1.3

J) Principal Garnet Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Vatsavalasa	Vill.Vatsavalasa & Tonangi Distt. Srikakulam Andhra Pradesh	Trimex Sands (P) Ltd., Trimex Towers, No. 1, Subbraya Avenue, C.P. Rama Swamy Road, Alwarpet, Chennai – 600 018, T. N.
OSCOM (Odisha Sands Com)	Vill. Matikhala Distt. Ganjam Odisha	Indian Rare Earths Ltd, Plot No. 1207, Veer Savarkar Marg, Near Siddhivinayak Temple, Prabhadevi, Dadar – 400 028, Mumbai, Maharashtra.
TGI Garnet mine	Vill.Mofazbandru & Ippili Distt. Srikakulam Andhra Pradesh	Transworld Garnet India (P) Ltd., New No. 34, Old No. 46, M.G.R. Road, Kalakshetra Colony, Besant Nagar, Chennai – 600 090, Tamil Nadu.
Manavalakuruchi	Vill. Kalkulam Distt. Kanyakumari Tamil Nadu	Indian Rare Earths Ltd, Plot No. 1207, Veer Savarkar Marg, Near Siddhivinayak Temple, Prabhadevi, Dadar – 400 028, Mumbai, Maharashtra.
Kodukota	Vill. Gokulpura Distt. Bhilwara Rajasthan	AKD Gem Garnet Mines, F-203, Near Mahapragya Circle, Azad Nagar, Bhilwara – 311 001, Rajasthan.

K) Contribution of above Mines in 2016-17 :

Garnet (Abrasive) Quantity (Tonnes)	85371
Percentage Share to All-India Production	99.95

** Quantity in different units.

GOLD

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 :			
Primary Ore (Th. Tonnes)	17228	484611	501839
Metal (Tonnes)	70	585	655
Life Index (Years) (Ore) :			247
B) Mining Leases as on 31-3-2016 :	No. of Leases		Lease Area
(Area in Hectares)	11		7445.46
C) Mines Reporting Production :			

	No. of Mines		Production	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	5	5		
Ore (Th. Tonnes)			563	582
Gold Bullion (kg)			1323	1594
Primary			1323	1594
Public Sector	3	3		
Ore (Th. Tonnes)			559	577
Gold Bullion (kg)			1310	1579
Private Sector	2	2		
Ore (Th. Tonnes)			4	5
Gold Bullion (kg)			13	15
Captive	5	5		
Ore (Th. Tonnes)			563	582
Gold Bullion (kg)			1323	1594
'A' Category	4	4		
Ore (Th. Tonnes)			559	577
Gold Bullion (kg)			1310	1579
'B' Category	1	1		
Ore (Th. Tonnes)			4	5
Gold Bullion (kg)			13	15
STATES				
Andhra Pradesh	1*	1*		
Ore (Th. Tonnes)			-	-
Gold Bullion (kg)			-	-
Jharkhand	1	1		
Ore (Th. Tonnes)			4	5
Gold Bullion (kg)			13	15
Karnataka	3	3		
Ore (Th. Tonnes)			559	577
Gold Bullion (kg)			1310	1579

D) Production Trend :

Quantity	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Ore (Th. Tonnes)	503	421	447	563	582
Gold Bullion (kg)	1588	1564	1441	1323	1594
Value (Rs. '000)					
Gold Bullion	5172517	4225317	3602722	3214623	4362410

E) Closing Stock :	2012-13	2013-14	2013-14	2015-16	2016-17(p)
Quantity (Ore) (Th. Tonnes)	326	192	122	106	110
F) Employment :					
No. of Persons Employed per Day				3426	3382
Percentage Share of Employment to Total for MCDR Minerals				2.96	3.11

* Only labour reported

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	N.A.	N.A.	N.A.	N.A.	N.A.

H) Exports/Imports Trend :

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Metal) (kg)	85349	70721	70796	135275	133032
Value (Rs. crore)	24116.41	18351.30	17442.38	32566.59	36179.54
Percentage Share to the Value of Exports of All Metals	17.15	11.98	10.44	21.30	19.86
Imports					
Quantity (Metal) (kg)	1013703	661715	915473	968075	778449
Value (Rs. crore)	292152.82	166242.62	210658.04	207487.50	183960.13
Percentage Share to the Value of Imports of All Metals	65.42	51.73	52.50	53.15	54.46

I) Exports/Imports by Country in 2016-17 :

Exports	UAE		USA		Singapore	
Quantity (Metal) (kg)	133030		1		1	
Value (Rs. crore)	36179.49		0.05		++	
Imports	Switzerland	UAE	Domonic Rep	USA	Ghana	Others
Quantity (Metal) (kg)	377236	80119	59150	48709	48370	164865
Value (Rs. crore)	103032.52	21824.67	4074.26	9534.64	11812.55	33681.46

J) Gold Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Hutti	Vill. Hutti Distt. Raichur Karnataka	The Hutti Gold Mines Co. Ltd, Hutti, Distt. Raichur- 584 115. Karnataka.
Hirabuddini	Vill. Hirabuddini Distt. Raichur Karnataka	The Hutti Gold Mines Co. Ltd, Hutti, Distt. Raichur- 584 115. Karnataka.
Uti	Vill. Uti Distt. Raichur Karnataka	The Hutti Gold Mines Co. Ltd, Hutti, Distt. Raichur- 584 115. Karnataka.
Kunderkocha	Vill. Kunderkocha Distt. Singhbhum (East) Jharkhand	Manmohan Industries (p) Ltd, Shanti Niketan, 286, New Patliputra Colony, Patna, Bihar.
Jonnagiri	Vill. Jonnagiri Distt. Kurnool Andhra Pradesh	Geomysore Services (India) (p) Ltd., 627, Trinity Building, 3 rd Cross, 3 rd Block, Koramangala, Bengaluru - 560 034.

K) Contribution of above Mines in 2016-17 :

Quantity (Th. Tonnes) Gold Ore (Primary)	582
Percentage Share to All-India	100

GRAPHITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	7961	186926	194887
Life Index (Years)			250
B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases 105		Lease Area 3482.39

C) **Mines Reporting Production** :

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	11	9	135528	122437
Public Sector	1	1	90275	92901
Private Sector	10	8	45253	29536
Captive	3	3	90925	93561
Non-captive	8	6	44603	28876
'B' Category	11	9	135528	122437
STATES				
Chhattisgarh	1*	-	-	-
Jharkhand	2	1	36270	10343
Karnataka	1*	1*	-	-
Kerala	1	1	650	660
Odisha	4	4	7783	16373
Tamil Nadu	2	2	90825	95061

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	134735	146390	116712	135528	122437
Value (Rs. '000)	84133	102471	83996	106487	85054

E) Closing Stock	:	2012-13	2013-14	2013-14	2015-16	2016-17(p)
Quantity (Tonnes)		111297	125414	115526	139590	186361

F) **Employment** :

No. of Persons Employed per Day	253	125
Percentage Share of Employment to Total for MCDR Minerals	0.22	0.11

* Only labour reported.

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	52900	52800	61300	58000	63500

H) Exports/Imports Trend:

Exports (Graphite (Natural))	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	2304	820	2669	286	402
Value (Rs. crore)	15.54	11.24	8.66	1.71	3.03
Percentage Share to the Value of Exports of All Minerals	0.01	0.01	++	++	++
Imports (Graphite (Natural))					
Quantity (Tonnes)	19485	22916	28552	26160	37046
Value (Rs. crore)	119.35	123.56	133.53	121.34	139.11
Percentage Share to the Value of Imports of All Minerals	0.01	0.01	0.01	0.02	0.02

I) Exports/Imports by Country in 2016-17 :

Exports	U.A.E.	Tanzania Rep	Kuwait	Sudan	Qatar	Others
Quantity (Tonnes)	101	95	88	22	21	75
Value (Rs. crore)	0.83	0.38	0.61	0.10	0.17	0.94
Imports	China P Rp	Madagascar	Brazil	USA	Germany	Others
Quantity (Tonnes)	31388	2408	2277	372	237	364
Value (Rs. crore)	99.31	13.21	12.64	5.11	4.32	4.52

J) Five Principal Graphite Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Sivaganga	Vill. Senthudayanathapura Distt. Sivaganga Tamil Nadu	Tamil Nadu Minerals Ltd., 31, Kamarajar Salaitwad House, Chepauk, Chennai – 600 005, Tamil Nadu.
Gaura	Vill. Gaura Distt. Palamau Jharkhand	Sishir Kumar Poddar, 4L, Shree Gopal Complex, Court road, Ranchi – 834 001, Jharkhand.
Gandabahali & Kirkita	Vill. Gandabahali Distt. Nawapara Odisha	Pramod Kumar Agrawal, Shantikunj Farm Road, Modipara, Sambalpur– 768 002, Odisha.
Gandabahali	Vill. Gandabahali Distt. Nawapara Odisha	Prabhas Chandra Agrawal, Shantikunj Farm Road, Modipara, Sambalpur – 768 002, Odisha.
Keeranur	Vill. Keeranur Distt. Madurai Tamil Nadu	V. Thirunavukkarasu, 166/168 First Floor, E.V.R. Nagar, T.V. Koil, Trichy, Tiruchirapalli – 620 005 Tamil Nadu.

K) Contribution of above Mines in 2016-17 :

Quantity (Tonnes)	119972
Percentage Share to All-India Production	98

IOLITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Kg.)	N.A.	N.A.	N.A.

Life Index (Years) : N.E

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases	Lease Area
	14	195.7

C) **Mines Reporting Production** :

	No. of Mines		Production (kg)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	-	-	-	-
Private Sector	-	-	-	-
Non-captive	-	-	-	-
'B' Category	-	-	-	-
STATE				
Odisha	-	-	-	-

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (kg)	-	-	-	-	-
Value (Rs. '000)	-	-	-	-	-

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (kg)		2203	2204	2241	2204	2204

F) **Employment** :

No. of Persons Employed per Day					
		-	-	-	-
Percentage Share of Employment to Total for MCDR Minerals		-	-	-	-

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (kgs)	N.A.	N.A.	N.A.	N.A.	N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (kg)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Exports of All Minerals	-	-	-	-	-
Imports					
Quantity (kg)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Imports of All Minerals	-	-	-	-	-

K) Exports/Imports by Country in 2016-17:

Exports	
Quantity (kg)	-
Value (Rs. crore)	-
Imports	
Quantity (kg)	-
Value (Rs. crore)	-

J) Iolite Mine in 2016-17:

Name of Mine	Location of Mine	Address of Mine Owner
-----No mines reported production-----		

K) Contribution of above mine in 2016-17:

Quantity (kg)	-
Percentage Share to All-India Production	-

IRON ORE AND CONCENTRATES

Items	Reserves	Remaining Resources	Total
A) Recoverable Reserves (Total) :	5475	27801	33276
(Million Tonnes) Hematite {1-4-2015}	5422	17065	22487
Magnetite {1-4-2015}	53	10736	10789
Life Index (Years) :			124
(Includes Hematite & Magnetite)			

B) Mining Leases as on 31-3-2016 :	No. of Leases	Lease Area
Iron Ore (Area in Hectares)	713	90301.95

C) Mines Reporting Production :

	No. of Mines		Production (Th. Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	330(16)	296(12)	158108	192081
Public Sector	33(1)	34	62860	68250
Private Sector	297(15)	262(12)	95248	123831
Captive	32	32	50751	57348
Non-captive	298(16)	264(12)	107357	134733
'A' Category	154(2)	147(1)	113492	136727
'B' Category	176(14)	149(11)	44616	55354
STATES				
Andhra pradesh	27(1)	19(1)	493	489
Chhattisgarh	15	15	26718	31068
Goa	82(1)	78(1)	1794	8933
Jharkhand	21	19	19198	21335
Karnataka	69	58	25036	26363
Madhya Pradesh	19(11)	15(8)	2447	1730
Maharashtra	16	16	1420	1321
Odisha	66(3)	62(2)	79856	99614
Rajasthan	14	14	1146	1228
Telangana	1	-	-	-
GRADES				
Lumps (Total)			54610	64186
Below 55% Fe			1716	1883
55% to below 58% Fe			1029	2139
58% to below 60% Fe			3089	4444
60% to below 62% Fe			6615	7544
62% to below 65% Fe			29941	32303
65% Fe and above			12220	15873
Fines (Total)			102407	126736
Below 55% Fe			4649	6068
55% to below 58% Fe			8217	15004
58% to below 60% Fe			6692	8726
60% to below 62% Fe			22877	17477
62% to below 65% Fe			45183	59532
65% Fe and above			14789	19929
Concentrates (Total)			1091	1159

D) Production Trend :

	2012-13	2013-14	2013-14	2015-16	2016-17(p)
Quantity (Th. Tonnes)	136618	152183	129321	158108	192081
Value (Rs. '000)	328244402	316491777	276636789	223206636	251388688

E) Closing Stock :	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)	119875	124378	123705	144498 [#]	148424

F) Employment :					
No. of Persons Employed per Day				42065	42049

Percentage Share of Employment to Total for MCDR Minerals	36.3	38.68
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(): Figures in parentheses indicate additional mines associated with dolomite, laterite, limestone, manganese ore and Ochre.

: Quantity excludes the stock taken over by the Govt. of Goa as per the Hon'ble Supreme Court order (435/2012).

*Only labour reported.

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. Tonnes)	103590	108339	114680	126774	142533

H) Exports/Imports Trend :

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. Tonnes)	18122	16302	7297	5441	30728
Value (Rs. crore)	8985.21	9481.11	3143.67	1263.96	10292.93
Percentage Share to the Value of Exports of All Minerals	5.61	4.87	1.77	0.74	5.14
Imports					
Quantity (Th. Tonnes)	3056	369	12093	7099	4607
Value (Rs. crore)	2577.86	342.36	6594.74	3197.14	2161.52
Percentage Share to the Value of Imports of All Minerals	0.23	0.03	0.62	0.43	0.27

I) Exports/Imports by Country in 2016-17 :

Exports	China P Rp	Japan	Oman	Italy	Korea Rp	Others
Quantity (Th. Tonnes)	29474	468	417	109	75	185
Value (Rs. crore)	9729.40	154.63	215.16	71.17	28.57	94.00
Imports						
	S. Africa	Brazil	Bahrain Is	Iran	Norway	Others
Quantity (Th. Tonnes)	2383	1729	234	124	72	65
Value (Rs. crore)	1106.66	796.08	146.71	50.84	21.22	40.01

J) Five Principal Iron ore Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Jajang	Vill-Jajang Distt. Keonjhar Odisha	Rungta Mines Ltd., 8A- Express Tower, 42A – Shakespeare Sarani, Kolkata – 700 017, West Bengal.
Balda Block	Vill. Balda Distt. Keonjhar Odisha	Serajjudin and Co., P-16, Bentink Street, Kolkata – 700 069, West Bengal.
Bailadila Iron Ore Mine Deposit No. 14 Kirandul Complex	Vill. Kirandul Distt. Dantewada Chhattisgarh	National Mineral Development Corp. Ltd, Khanij Bhavan, 10-3-311/A, Castle Hills, Masab Tank, Hyderabad – 500 028.
Joda East	Vill. Joda Distt. Keonjhar Odisha	Tata Steel Ltd., Bombay House, 24 Homi Mody Street, Fort, Mumbai – 400 001.
Bailadila Iron Ore Mine (Deposit No. 5)	Vill. Bacheli Distt. Dantewada Chhattisgarh	National Mineral Development Corp. Ltd, Khanij Bhavan, 10-3-311/A, Castle Hills, Masab Tank, Hyderabad – 500 028.

K) Contribution of above Mines in 2016-17 :

Quantity (Th. Tonnes)	50581
Percentage Share to All-India Production	26

KYANITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	688	104293	104981
Life Index (Years)	:		Very Large
B) Mining Leases as on 31-3-2016 (Area in Hectares)	:	No. of Leases 30	Lease Area 1446.75
C) Mines Reporting Production	:		

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	5	5	2901	3254
Public Sector	1	1	201	977
Private Sector	4	4	2700	2277
Non-captive	5	5	2901	3254
'B' Category	5	5	2901	3254
STATES				
Karnataka	1*	1*	-	-
Maharashtra	4	4	2901	3254
GRADES				
40 % Al ₂ O ₃ & above			2566	3154
Below 40 % Al ₂ O ₃			335	100

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	1048	3679	6255	2901	3254
Value (Rs. '000)	1248	8071	12185	14180	13632

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)		8383	10032	14280	14519	12892

F) Employment	:		
No. of Persons Employed per Day		98	65
Percentage Share of Employment to Total for MCDR Minerals		0.08	0.06

*Only labour reported.

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	3000	3000	3200	3100	3400

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	53	52	39	144	153
Value (Rs. crore)	0.08	0.12	0.05	0.27	0.31
Percentage Share to the Value of Exports of All Minerals	++	++	++	++	++
Imports					
Quantity (Tonnes)	622	394	508	478	748
Value (Rs. crore)	2.08	1.37	1.70	1.69	1.66
Percentage Share to the Value of Imports of All Minerals	++	++	++	++	++

I) Exports/Imports by Country in 2016-17:

Exports	Greece	Nepal	U. A. E.	Kenya
Quantity (Tonnes)	139	5	5	4
Value (Rs. crore)	0.27	++	0.02	0.02
Imports	USA		China P Rp	
Quantity (Tonnes)	478		270	
Value (Rs. crore)	1.46		0.20	

J) Kyanite Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Pavri Kyanite Mine (Jamdi)	Vill. Jamadi (Girola) Dist. Bhandara Maharashtra	Pavri Kyanite Mine, A-1 Indra sagar, Ravindranath Tagore Marg, Civil Line, Nagpur – 440 001, Maharashtra.
Navargaon Chowa	Vill. Navargaon Dist. Bhandara Maharashtra	Maharashtra State Mining Corporation Ltd., Plot No. 7, Ajni Chowk, Wardha Road, Nagpur-440 015, Maharashtra.

J) Contribution of above Mines in 2016-17:

Quantity (Tonnes)	3254
Percentage Share to All-India Production:	100

LEAD AND ZINC CONCENTRATES

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 :			
(Th. Tonnes) a) Ore	106116	643343	749459
b) Lead metal	2482	10521	13003
c) Zinc metal	10000	26363	36363
Life Index (Years) (Lead & Zinc Ore):			37

B) Mining Leases as on 31-3-2016 :	No. of Leases	Lease Area
(Area in Hectares) (Lead & Zinc Ore)	13	17977.92

C) Mines Reporting Production :

	No. of Mines		Production (Th. Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
India	8	8		
Lead & Zinc Ore			10453	11881
Lead Concentrates			262	268
Zinc Concentrates			1474	1484
Private Sector	8	8		
Lead & Zinc Ore			10453	11881
Lead Concentrates			262	268
Zinc Concentrates			1474	1484
Captive	8	8		
Lead & Zinc Ore			10453	11881
Lead Concentrates			262	268
Zinc Concentrates			1474	1484
'A' Category	8	8		
Lead & Zinc Ore			10453	11881
Lead Concentrates			262	268
Zinc Concentrates			1474	1484

STATES	No. of Mines		Production (Th. Tonnes)					
	2015-16	2016-17(p)	2015-16			2016-17(p)		
			Qty.	Pb%	Zn%	Qty.	Pb%	Zn%
Rajasthan	8	8						
Lead & Zinc Ore			10453	1.88	7.85	11881	1.81	7.55
Lead Concentrates			262	54.88		268	56.32	
Zinc Concentrates			1474		50.26	1484		50.92

D) Production Trend :	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)					
Lead & Zinc Ore	8633	9282	9363	10453	11881
Lead Concentrates	184	194	198	262	268
Zinc Concentrates	1493	1491	1489	1474	1484
Value (Rs. '000)					
Lead Concentrates	3300883	4372536	5640013	7885122	9669168
Zinc Concentrates	23948683	27389284	31572181	34943088	43385607

E) Closing Stock :	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)					
Lead & Zinc Ore	63	89	116	42	810
Lead Conc.	9	2	12	10	8
Zinc Conc.	28	11	55	30	67

F) Employment :		
No. of Persons Employed per Day	7018	7397
Percentage Share of Employment to Total for MCDR Minerals	6.06	6.8

G) Domestic Consumption Trend : 2012-13 2013-14 2014-15 2015-16(r) 2016-17(p)

Lead Concentrates (Th. Tonnes)	N.A.	N.A.	N.A.	N.A.	N.A.
Zinc Concentrates (Th. Tonnes)	N.A.	N.A.	N.A.	N.A.	N.A.

H) Exports/Imports Trend :

Exports (Lead Ores & Concentrates)	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	14	7	509	++	1
Value (Rs. crore)	0.03	0.02	2.23	0.02	++
Exports (Zinc Ores & Concentrates)					
Quantity (Tonnes)	75870	45660	41	558	53912
Value (Rs. crore)	295.79	162.01	0.07	1.13	399.02
Percentage Share to Val. (Lead Ore & conc.) of Exports of All Minerals	++	++	++	++	++
(Zinc Ore & conc.)	0.18	0.08	++	++	0.20
Imports (Lead Ores & Concentrates)					
Quantity (Tonnes)	56049	33405	39441	5334	6217
Value (Rs. crore)	759.06	388.09	384.68	26.47	31.87
Imports (Zinc Ores & Concentrates)					
Quantity (Tonnes)	111912	33113	35696	385	1771
Value (Rs. crore)	499.73	156.23	169.38	1.87	8.66
Percentage Share to Val. (Lead Ore & conc.) of Imports of All Minerals	0.07	0.03	0.04	++	++
(Zinc Ore & conc.)	0.05	0.01	0.02	++	++

I) Exports/Imports by Country in 2016-17 :

Exports (Lead ores & conc.)	Bangladesh					
Quantity (Tonnes)	1					
Value (Rs. crore)	++					
Exports (Zinc ores & conc.)	Korea Rp		China P Rp		Japan	
Quantity (Tonnes)	31423		11913		10576	
Value (Rs. crore)	236.84		83.21		78.97	
Imports (Lead ores & conc.)	Turkey	UAE	Yemen Rep	S. Arab	S. Africa	Others
Quantity (Tonnes)	4181	581	343	260	214	638
Value (Rs. crore)	21.02	4.4	1.02	0.94	1.25	3.24
Imports (Zinc ores & conc.)	Turkey	Spain	Japan	USA	Korea Rp	Others
Quantity (Tonnes)	1394	257	45	26	24	25
Value (Rs. crore)	6.15	1.62	0.29	0.23	0.23	0.14

J) Principal Lead & Zinc Mines in 2016-17:

Name of Mine	Location of Mine	Address of Mine Owner
Rampura Agucha	Vill. Agucha Distt. Bhilwara Rajasthan	Hindustan Zinc Ltd, Yashad Bhawan, Udaipur, Rajasthan – 313 004.
Sindesar Khurd	Vill. Sindesar Khurd Distt. Rajsamand Rajasthan	
Kayar	Vill. Kayar Distt. Ajmer Rajasthan	
Rajpura Dariba	Vill. Rajpura Dariba Distt. Rajsamand Rajasthan	
Baroi	Vill. Zawar Distt. Udaipur Rajasthan	

K) Contribution of above Mines in 2016-17 :

Quantity (Th. Tonnes)	10713
Percentage share to all India Production	90

LIME SHELL

Items		Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015	:	N.A.	N.A.	N.A.

Life Index (Years) : (Included in Limestone)

B) Mining Leases as on 31-3-2016		No. of Leases	Lease Area
(Area in Hectares)		25	2856.78

C) Mines Reporting Production :

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	7	7	10353	12343
Public Sector	-	-	-	-
Private Sector	7	7	10353	12343
Captive	-	-	-	-
Non-captive	7	7	10353	12343
'A' Category	1	1	3537	2963
'B' Category	6	6	6816	9380
STATES				
Karnataka	2	2	1221	4003
Kerala	4	4	9132	8340
Tamilnadu	1*	1*	-	-

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	24044	18750	16353	10353	12343
Value (Rs. '000)	41930	35162	37137	28613	33588

E) Closing Stock		2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)		2539	2341	2468	996	2720

F) Employment :

No. of Persons Employed per Day		534	484
Percentage Share of Employment to Total for MCDR Minerals		0.46	0.45

*Only labour reported.

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	N.A.	N.A.	N.A.	N.A.	N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Exports of All Minerals	-	-	-	-	-
Imports					
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Imports of All Minerals	-	-	-	-	-

I) Exports/Imports by Country in 2016-17:

Exports	
Quantity (Tonnes)	-
Value (Rs. crore)	-
Imports	
Quantity (Tonnes)	-
Value (Rs. crore)	-

J) Principal Lime Shell Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Kanasgeri	Vill. Kanasgeri Dist. North Kanara Karnataka	Suresh P Pednekar, Gongotri Ashram Road, Karwar, Dist. North Kanara, Karnataka – 581 301.
Mannancherry 4.9-H	Vill. Mannancherry Distt. Alappuzha Kerala	Muhamma Clam Marketing Society Ltd., Vill. Thanneermukom South, Taluk: Cherthala, Distt. Alappuzha, Kerala – 688 525.
Vembanad Lake	Vill. Vaikom, Distt. Kottayam Kerala	The Vaikom Limeshell Co-Operative Society Ltd., No. 3145, P.O. Pallippurathussery, Vaikom – 686 606, Distt. Kottayam, Kerala.
Thanneermukkam 500H	Vill. Thanneermukkam Distt. Alappuzha Kerala	Karappuram White Limeshell Vyavasaya Co-Op. Society Ltd., Muhamma, Taluk: Cherthala, Distt. Alappuzha, Kerala – 688 525.
Kumarakom	Vill. Kumarakom Distt. Kottayam Kerala	Vaikom Taluk White Limeshell Co-Op. Society, Ltd., No. K.357, Ambika Market (P.O.) Vaikom, Distt. Kottayam, Kerala – 686 144.

K) Contribution of above Mines in 2016-17 :

Quantity (Tonnes)	12143
Percentage Share to All-India Production	98

LIMESTONE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Million Tonnes)	16336	186889	203225
Life Index (Years) (Includes Lime kankar & Lime shell)	:		216
B) Mining Leases as on 31-3-2016 (Area in Hectares)	:	No. of Leases 2015	Lease Area 156016.02
C) Mines Reporting production	:		

	No. of mines		Production (in Th. Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	807(1)	771(2)	307001	313196
Public Sector	26	27	12222	10483
Private Sector	781(1)	744(2)	294779	302713
Captive	390	382	290923	296521
Non-Captive	417(1)	389(2)	16078	16675
“A” Category	223	224	236874	241670
“B” Category	584(1)	547(2)	70127	71526
STATES				
Andhra Pradesh	76	72	32579	35251
Assam	3	3	777	1594
Bihar	1	1	459	190
Chhattisgarh	68	66	27667	31919
Gujarat	112	105	25622	24923
Himachal pradesh	18	21	12390	11009
Jammu & Kashmir	6	5	1232	825
Jharkhand	11	10	1076	1146
Karnataka	66	60	27062	29784
Kerala	1	1	487	376
Madhya Pradesh	118(1)	117(1)	39430	35843
Maharashtra	17	17	13036	12119
Meghalaya	13	13	3834	5103
Odisha	6	6(1)	4532	4751
Rajasthan	36	34	67336	67078
Tamil Nadu	223	209	23008	23840
Telangana	30	29	23878	24789
Uttar Pradesh	2	2	2596	2656
GRADES				
Cement			296002	302785
Iron & steel			7140	6596
Chemical			3859	3815

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)	285030	280863	293273	307001	313196
Value (Rs. '000)	47973173	51332006	58000375	68673970	66883775

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)		12983	12404	13077	12633	14394
F) Employment	:					
No. of Persons Employed per Day				23987	20800	
Percentage Share of Employment to Total for MCDR Minerals				20.7	19.13	

(): Figures in parentheses indicate associated mines with dolomite and shale.

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. Tonnes)	240243	244265	266433	294263	242459

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. Tonnes)	2992	2779	3813	3236	4330
Value (Rs. crore)	269.93	343.23	467.20	469.43	499.01
Percentage Share to the Value of Exports of All Minerals	0.17	0.18	0.26	0.27	0.25
Imports					
Quantity (Th. Tonnes)	11139	13214	13944	17187	18300
Value (Rs. crore)	1667.22	2158.04	2213.86	2377.28	2438.42
Percentage Share to the Value of Imports of All Minerals	0.15	0.18	0.21	0.32	0.30

I) Exports/Imports by Country in 2016-17 :

Exports	Bangladesh	UK	Bhutan	Nepal	Ireland	Others
Quantity (Th. Tonnes)	4200	51	17	10	6	46
Value (Rs. crore)	366.64	50.31	13.78	5.25	6.70	56.33
Imports	UAE	Oman	Vietnam Soc Rep.	Malaysia	Iran	Others
Quantity (Th. Tonnes)	14363	2351	494	493	314	285
Value (Rs. crore)	1617.48	365.43	155.01	181.48	35.13	83.89

J) Five Principal Limestone Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Nimbeti	Vill. Nimbeti Distt. Pali Rajasthan	Shree Cement Limited, Post Box No. 33, Bangur nagar, Beawar – 305 901, Ajmer, Rajasthan.
Aditya	Vill. Near Medika Amarana Distt. Chittorgarh Rajasthan	UltraTech Cement Limited, B Wing, 2nd floor Ahura Centre, Mahakali Caves Road, Andheri (E), Mumbai – 400 093, Maharashtra.
Rajashree Cement	Vill. Adityanagar Distt. Gulbarga Karnataka	UltraTech Cement Limited, B Wing, Ahura Centre, 2nd floor Mahakali Caves Road, Andheri (E), Mumbai – 400 093, Maharashtra.
Lakshmi Cement	Vill. Basantgarh Distt. Sirohi Rajasthan	JK Lakshmi Cement Limited, J K Puram, Basantgarh Pindwara– 307 019. Sirohi, Rajasthan.
Grasim (Rawan)	Vill. Rawan-Jhipan Distt. Raipur Chhattisgarh	Ultratech Cement Limited B Wing, 2nd Floor Ahura Centre, Mahakali Caves Road, Andheri (E), Mumbai – 400 093, Maharashtra.

K) Contribution of above mines in 2016-17

Quantity (Th. Tonnes)	44460
Percentage share to all India production	14

MAGNESITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	82276	311711	393988
Life Index (Years)	:		987

B) Mining Leases as on 31-3-2016 (Area in Hectares)	:	No. of Leases 38	Lease Area 1894.36
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C) **Mines Reporting Production** :

	No. of Mines		Production (Th. Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	20	19	328	299
Public Sector	4	4	209	163
Private Sector	16	15	119	136
Captive	4	4	221	169
Non-captive	16	15	107	130
'A' Category	8	8	279	240
'B' Category	12	11	49	59
STATES				
Karnataka	2	2	8	8
Tamil Nadu	15	14	265	224
Uttarakhand	3	3	55	67

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th.Tonnes)	224	197	285	328	299
Value (Rs. '000)	459178	445622	748792	827072	735655

E) Closing Stock:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)	60	63	61	66	83

F) **Employment** :

No. of Persons Employed per Day	1258	1229
Percentage Share of Employment to Total for MCDR Minerals	1.09	1.13

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. Tonnes)	490	343	275	265	172

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	9503	6118	6612	6204	8065
Value (Rs. crore)	14.88	12.75	12.09	12.45	13.52
Percentage Share to the Value of Exports of All Minerals	0.01	0.01	0.01	0.01	0.01
Imports					
Quantity (Tonnes)	79080	66001	10208	118788	142599
Value (Rs. crore)	277.00	221.69	332.78	325.68	308.99
Percentage Share to the Value of Imports of All Minerals	0.03	0.02	0.03	0.04	0.04

I) Exports/Imports by Country in 2016-17 :

Exports	Malaysia	UAE	Iran	Nepal	Thailand	Others
Quantity (Tonnes)	1801	1215	811	759	751	2728
Value (Rs. crore)	1.27	1.87	0.55	0.66	1.17	8.00
Imports	China P Rp	UAE	Pakistan	Turkey	Australia	Others
Quantity (Tonnes)	32831	27892	25656	15158	13871	27191
Value (Rs. crore)	85.65	5.01	10.29	38.49	55.01	114.54

J) Five Principal Magnesite Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Arasu	Vill. Thathiengarpatti Distt. Salem Tamil Nadu	Tamil Nadu Magnesite Ltd, 5/53, Omalur Main Road, Jagirammalayam, Distt. Salem – 636 302, Tamil Nadu.
Kamanaickenapatti	Vill. Karuppur Distt. Salem Tamil Nadu	Sail Refractory Company Ltd., Post Bag No. 565 Suramangalam Post, Salem – 636 005, Tamil Nadu.
Sri Ponguru	Vill. Jagir Ammapalayam Distt. Salem Tamil Nadu	S. Sundararajan. 5/22-A, Periyakollapatti, Post- Kannankuruchi, Salem – 636 008, Tamil Nadu.
Jhiroli	Vill. Jhiroli Distt. Bageshwar Uttarakhand	Almora Magnesite Ltd, Village Matela, P.O. Billori, Distt. Bageshwar – 263 630, Uttarakhand.
Dundu	Vill. Dundu & Talli Sangri Distt. Pithoragarh Uttarakhand	N.B. Minerals Corporation, 6/575 Nawabi Road, Haldwani, Nainital – 263 139, Uttarakhand.

K) Contribution of above Mines in 2016-17 :

Quantity (Th. Tonnes)	213
Percentage Share to All-India Production	71

MANGANESE ORE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	93475	402399	495874
Life Index (Years)	:		143
B) Mining Leases as on 31-3-2016 (Area in Hectares)	:	No. of Leases 321	Lease Area 17060.54
C) Mines Reporting Production	:		

	No. of Mines		Production (Th. Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	146(9)	142(12)	2167	2393
Public Sector	23	24	1099	1052
Private Sector	123(9)	118(12)	1068	1341
Captive	9(1)	9(1)	222	237
Non-captive	137(8)	133(11)	1945	2156
'A' Category	27(3)	28(3)	1652	1871
'B' Category	119(6)	114(9)	515	522
STATES				
Andhra Pradesh	23	23	187	233
Karnataka	11(1)	9(1)	145	261
Madhya Pradesh	45(5)	42(7)	767	648
Maharashtra	18	19	621	604
Odisha	31(3)	31(4)	390	588
Others	18	18	57	59
GRADES				
MnO ₂			20	28
Above 46% Mn			277	228
35-46% Mn			470	554
25-35% Mn			1003	1175
Below 25% Mn			397	408

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)	2342	2626	2369	2167	2393
Value (Rs. '000)	12836200	15181757	13661799	8545510	16026609

E) Closing Stock :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)	845	726	1114	1317	1214

F) Employment :

No. of Persons Employed per Day	12990	12465
Percentage Share of Employment to Total for MCDR Minerals	11.21	11.47

() : Figures in parenthesis indicates additional mines associated with iron ore, quartz, laterite and limestone.

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. Tonnes)	4177	4186	4439	3334	2714

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. Tonnes)	72	66	11	0.4	0.2
Value (Rs. crore)	26.96	18.93	6.54	1.89	1.24
Percentage Share to the Value of Exports of All Minerals	0.02	0.01	++	++	++
Imports					
Quantity (Th. Tonnes)	2327	2179	3173	2217	1908
Value (Rs. crore)	2562.24	2830.63	3466.91	1741.37	2402.81
Percentage Share to the Value of Imports of All Minerals	0.23	0.23	0.32	0.24	0.30

I) Exports/Imports by Country in 2016-17 :

Exports	Netherland	Turkey	Nepal		Others	
Quantity (Tonnes)	150	87	7		++	
Value (Rs. crore)	0.77	0.45	++		0.02	
Imports	South Africa	Australia	Gabon	Malaysia	Ivory Coast	Others
Quantity (Th. Tonnes)	1047	426	205	77	76	77
Value (Rs. crore)	1272.49	675.7	225.81	44.8	91.3	92.71

J) Five Principal Manganese Ore Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Balaghat	Vill. Bharweli Distt. Balaghat Madhya Pradesh	MOIL Ltd., Moil Bhavan, 1 A – Katol Road, Chhaoni, Nagpur – 440 013, Maharashtra.
SMIORE	Vill. Deogiri Distt. Bellary Karnataka	SMIORE Ltd., No. 9, Bellary Road, Sadashivanagar, Bangalore – 560 080, Karnataka.
Dongribuzurg	Vill. Balapur Hamesha Distt. Bhandara Maharashtra	MOIL Ltd., Moil Bhavan, 1 A – Katol Road, Chhaoni, Nagpur – 440 013, Maharashtra.
Chikla	Vill. Sitasongi Distt. Bhandara Maharashtra	MOIL Ltd., Moil Bhavan, 1 A – Katol Road, Chhaoni, Nagpur – 440 013, Maharashtra.
Patmunda	Vill. Patmunda Distt. Sundargarh Odisha	Orissa Manganese & Minerals Ltd., Lansdowne Tower, 6 th Floor, 2/1 A, Sarat Bose Road, Kolkata – 700 020, West Bengal.

K) Contribution of above Mines in 2016-17 :

Quantity (Th. Tonnes)	1020
Percentage Share to All-India Production	43

MARL

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	123856	11705	135561
Life Index (Years)	:		46

B) Mining Leases as on 31-3-2016 (Area in Hectares)	:	No. of Leases	Lease Area
		1	4.9

C) **Mines Reporting Production** :

	No. of Mines		Production (Th. Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	(5)	(5)	2390	2204
Private Sector	(5)	(5)	2390	2204
Captive	(5)	(5)	2390	2204
'A' Category	(5)	(5)	2390	2204
STATES				
Gujarat	(5)	(5)	2390	2204
Tamil Nadu	-	-	-	-

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity(Th. Tonnes)	4337	3254	2179	2390	2204
Value (Rs. '000)	269366	280571	257598	319957	316310

E) Closing Stock:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)	1133	1263	1022	1227	1321

F) **Employment** :

No. of Persons Employed per Day*	-	-
Percentage Share of Employment to Total for MCDR Minerals	-	-

() : Figures in parentheses indicate mines associated with limestone.

*: Associated with Limestone.

G) Domestic Consumption Trend: 2012-13 2013-14 2014-15 2015-16(r) 2016-17(p)

Quantity (Tonnes) N.A. N.A. N.A. N.A. N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Exports of All Minerals	-	-	-	-	-
Imports					
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Imports of All Minerals	-	-	-	-	-

I) Exports/Imports by Country in 2016-17:

Exports	
Quantity (Tonnes)	-
Value (Rs. crore)	-
Imports	
Quantity (Tonnes)	-
Value (Rs. crore)	-

J) Five Principal Marl Mines in 2016-17:

Name	Location of Mine	Name & address of Mine owner
Kovaya *	Vill. Kovaya Distt. Amreli Gujarat	Ultratech Cement Ltd, 'B' Wing, 2 nd floor, Ahura Center, Mahakali Caves Road, Andheri (E), Mumbai – 400 093.
Adityana *	Vill. Adityana Distt. Porbandar Gujarat	Saurashtra Cement Ltd., N.K. Mehta International House, 178-Backbay Reclamation, Mumbai – 400 020.
Narmada *	Vill. Babarkot Distt. Amreli Gujarat	Ultratech Cement Ltd, 'B' Wing, 2 nd floor, Ahura Center, Mahakali Caves Rd, Andheri (E), Mumbai – 400 093.
Sidhee *	Vill. Preshnavada-Morasa Distt. Junagarh Gujarat	Gujarat Sidhee Cement Ltd., N.K. Mehta International House, 178-Backbay Reclamation, Mumbai – 400 020.
Vadnagar *	Vill. Vadnagar Distt. Junagarh Gujarat	Ambuja Cements Ltd., Elegant Business Park, MIDC Cross Road 'B' Off Andheri-Kurla Road, Andheri (E) Mumbai – 400 059.

K) Contribution of above mines in 2016-17

Quantity (Th. Tonnes) 2204

Percentage share to all India production 100

* Associated with limestone.

MOULDING SAND

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	N.E.	N.E.	N.E.
Life Index (Years)			N.E.

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases	Lease Area
	35	841.85

C) **Mines Reporting Production** :

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17	2015-16	2016-17 (p)
INDIA	3	4	26042	27686
Private Sector	3	4	26042	27686
Non-Captive	3	4	26042	27686
'B' Category	3	4	26042	27686
STATES				
Chhattisgarh	3	4	26042	27686

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17 (p)
Quantity (Tonnes)	3118	29963	6383	26042	27686
Value (Rs. '000)	564	4877	1671	6117	6416

E) Closing Stock	: 2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	252	2741	411	1148	6241

F) Employment	:		
No. of Persons Employed per Day		34	42
Percentage Share of Employment to Total for MCDR Minerals		0.03	0.04

G) Domestic Consumption Trend	:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)		47500	47500	47500	N.A.	N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Exports of All Minerals	-	-	-	-	-
Imports					
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Imports of All Minerals	-	-	-	-	-

I) Exports/Imports by Country in 2016-17:

Exports	
Quantity (Tonnes)	-
Value (Rs. crore)	-
Imports	
Quantity (Tonnes)	-
Value (Rs. crore)	-

J) Moulding Sand Mines in 2016-17:

Name	Location of Mine	Name & address of Mine owner
Thanaud	Vill. Thanaud, Distt. Durg, Chhattisgarh.	Deepak Kumar Gupta, 97-A, Plot 10,11, Nehru Nagar (East), Bhilai, Durg – 490 020, Chhattisgarh.
Karhidih	Vill. Karhidih, Distt. Durg Chhattisgarh.	Marendra Kumar Seksaria, 271, Ramdev Mandir, Ward 35, Ganjpara, Durg – 491 001, Chhattisgarh.
Barregaon	Vill. Barregaon, Distt. Rajnandgaon, Chhattisgarh.	Smt. Sujata Dakliya, House No: 19/132, P.O.-Sahadeo Nagar, Rajnandgaon – 491 441, Chhattisgarh.
Amti	Vill. Amti, Distt. Durg Chhattisgarh	Bimal Kumar Seksaria, 271, Ramdev Mandir, Ward 35, Ganjpara, Durg– 491 001, Chhattisgarh.

K) Contribution of above mines in 2016-17

Quantity (Tonnes)	27686
Percentage share to all India production	100

PERLITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	-	2406	2406
Life Index (Years)	:		N.E.

B) Mining Leases as on 31-3-2016 (Area in Hectares)	:	No. of Leases 1	Lease Area 144.88
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C) **Mines Reporting Production** :

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	-	-	-	-
Private Sector	-	-	-	-
Non-captive	-	-	-	-
'B' Category	-	-	-	-
STATE				
Gujarat	-	-	-	-

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. '000)	-	-	-	-	-

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)		NA	NA	NA	NA	NA

F) **Employment** :

No. of Persons Employed per Day	-	-
Percentage Share of Employment to Total for MCDR Minerals	-	-

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	N.A.	N.A.	N.A.	N.A.	N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Exports of All Minerals	-	-	-	-	-
Imports					
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Imports of All Minerals	-	-	-	-	-

I) Exports/Imports by Country in 2016-17:

Exports	
Quantity (Tonnes)	-
Value (Rs. crore)	-
Imports	
Quantity (Tonnes)	-
Value (Rs. crore)	-

J) Perlite Mines in 2016-17: Nil

K) Contribution of above mine in 2016-17:

Quantity (Tonnes)	-
Percentage Share to All-India Production	-

PHOSPHORITE/ROCK PHOSPHATE

Items		Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	:	45807	266871	312678
Life Index (Years)	:			79
B) Mining Leases as on 31-3-2016 (Area in Hectares)	:	No. of Leases		Lease Area
		11		2158.60
C) Mines Reporting Production	:			

	No. of Mines		Production (Th. Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	5	5	1572	1181
Public Sector	4	4	1515	1172
Private Sector	1	1	57	9
Non Captive	5	5	1572	1181
'A' Category	3	3	1506	1115
'B' Category	2	2	66	66
STATES				
Madhya Pradesh	3	3	66	69
Rajasthan	2	2	1506	1112
GRADES				
30-35% P ₂ O ₅			594	705
25-30% P ₂ O ₅			26	9
20-25% P ₂ O ₅			31	-
15-20% P ₂ O ₅			921	467

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)	1941	1454	1607	1572	1181
Value (Rs. '000)	6807233	4754755	3759071	3763823	3894738

E) Closing Stock		2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Th. Tonnes)		1525	1802	2356	2568	2460

F) Employment						
No. of Persons Employed per Day				1129	818	
Percentage Share of Employment to Total for MCDR Minerals				0.97	0.75	

G) Domestic Consumption Trend	:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. Tonnes) (Apatite & Rock Phosphate)		4087	4238	4341	4442	1994

H) Exports/Imports Trend :

Exports (Rock Phosphate)	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	21309	948	437	14242	5915
Value (Rs. crore)	2.45	0.70	0.29	6.91	0.86
Percentage Share to the Value of Exports of All Minerals	++	++	++	++	++
Imports (Rock Phosphate)					
Quantity (Th. Tonnes)	8161	7161	8273	8038	7511
Value (Rs. crore)	7309.82	5517.79	6188.87	6529.04	4951.31
Percentage Share to the Value of Imports of All Minerals	0.66	0.45	0.58	0.88	0.61

I) Exports/Imports by Country in 2016-17 :

Exports (Rock Phosphate)	Nepal	Bangladesh	Malaysia	Baharain Is	Pakistan	Others
Quantity (Tonnes)	5214	508	112	52	19	10
Value (Rs. crore)	0.56	0.03	0.09	0.10	0.07	0.01
Imports (Rock Phosphate)	Jordan	Egypt A Rp	Morocco	Peru	Togo	Others
Quantity (Th. Tonnes)	2783	2180	1108	749	509	182
Value (Rs. crore)	1936.14	1013.4	934.09	494.82	449.94	122.92

J) Principal Phosphorite Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Jhamarkotra	Vill. Jhamarkotra Distt. Udaipur Rajasthan	Rajasthan State Mines & Minerals Ltd., C – 89/90, Janpathlal, Kothi Scheme, Jaipur – 302015, Rajasthan.
Hirapur(Tigoda)	Vill. Tigoda Distt. Sagar Madhya Pradesh	M. P. State Mining Corpn. Ltd., Block A, 2 nd Floor, Paryawas Bhawan, Jail Road, Arera Hills, Bhopal – 462 011, M. P.
Maddeora	Vill. Maddeora Distt. Chhatarapur Madhya Pradesh	M. P. State Mining Corpn. Ltd., Block A, 2 nd Floor, Paryawas Bhawan, Jail Road, Arera Hills, Bhopal – 462 011, M. P.
Maton	Vill. Maton Distt. Udaipur Rajasthan	Hindusthan Zinc Ltd, Yashad Bhawan, Distt. Udaipur – 313 004, Rajasthan.
Kachaldara	Vill. Kachaldara Distt. Jhabua Madhya Pradesh	M. P. State Mining Corpn. Ltd., Block A, 2 nd Floor, Paryawas Bhawan, Jail Road, Arera Hills, Bhopal – 462 011, M. P.

K) Contribution of above Mines in 2016-17

Quantity (Th. Tonnes)	1181
Percentage Share to All-India Production	100

PYRITES

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Million Tonnes)	-	1674	1674

Life Index (Years) : N.E.

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases	Lease Area
	N.A	N.A

C) **Mines Reporting Production** :

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	-	-	-	-
Public Sector	-	-	-	-
Captive	-	-	-	-
'A' Category	-	-	-	-
STATE				
Bihar	-	-	-	-

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. '000)	-	-	-	-	-

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)		-	-	-	-	-

F) **Employment** :

No. of Persons Employed per Day	-	-
Percentage Share of Employment to Total for MCDR Minerals	-	-

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	N.A.	N.A.	N.A.	N.A.	N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Exports of All Minerals	-	-	-	-	-
Imports					
Quantity (Tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Imports of All Minerals	-	-	-	-	-

I) Exports/Imports by Country in 2016-17 :

Exports	
Quantity (Tonnes)	-
Value (Rs. crore)	-
Imports	
Quantity (Tonnes)	-
Value (Rs. crore)	-

J) Pyrites Mines in 2016-17: Nil

K) Contribution of above Mine in 2016-17:

Quantity (Tonnes)	-
Percentage Share to All-India Production	-

RUBY

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (kg)	-	5349	5349

Life Index (Years) : N.E.

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases	Lease Area
	6	130.00

C) Mines Reporting Production :

	No. of Mines		Production (kg)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	----- No Production reported -----			
Public Sector	- do -			
Non-Captive	- do -			
'B' Category	- do -			
STATE				
Odisha	- do -			

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (kg)	-	-	-	-	-
Value (Rs. '000)	-	-	-	-	-

E) Closing Stock	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (kg)	-	-	-	-	-

F) Employment :

No. of Persons Employed per Day : - -

Percentage Share of Employment to Total for MCDR Minerals : - -

G) Domestic Consumption Trend : **2012-13** **2013-14** **2014-15** **2015-16(r)** **2016-17(p)**
Quantity (kg) N.A. N.A. N.A. N.A. N.A.

H) Exports/Imports Trend :

Exports (Ruby & Sapphire Uncut)	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (tonnes)	33	7	++	12	++
Value (Rs. crore)	24.23	19.45	12.68	5.17	38.99
Percentage Share to the Value of Exports of All Minerals	0.02	0.01	0.01	++	0.02
Imports (Ruby & Sapphire Uncut)					
Quantity (tonnes)	44	66	42	24	11
Value (Rs. crore)	174.24	242.85	389.04	1057.84	1166.65
Percentage Share to the Value of Imports of All Minerals	0.02	0.02	0.04	0.14	0.14

I) Exports/Imports by Country in 2016-17 :

Exports(Ruby & Sapphire Uncut)	Singapore	Hong Kong	Switzerland	Baharain Is	Thailand	Others
Quantity (tonnes)	++	++	++	++	++	++
Value (Rs. crore)	28.8	3.19	1.9	1.88	1.36	1.86
Imports(Ruby & Sapphire Uncut)	Hong Kong	Zambia	Thailand	Tanzania	Ecuador	Others
Quantity (tonnes)	8	2	1	++	++	++
Value (Rs. crore)	859.66	162.61	20.51	0.01	1.68	122.18

J) Ruby Mines in 2016-17 : Nil

K) Contribution of above Mine in 2016-17:

Quantity (kg) -
Percentage Share to All-India Production -

++ : Negligible

SALT (Rock)

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. tonnes)	-	16025	16025

Life Index (Years) : N.E.

B) Mining Leases as on 31-3-2016: (Area in Hectares)	No. of Leases	Lease Area
	NA	NA

C) **Mines Reporting Production** :

	No. of Mines		Production (tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	-	-	-	-
Public Sector	-	-	-	-
Non-captive	-	-	-	-
'B' Category	-	-	-	-
STATE				
Himachal Pradesh	-	-	-	-

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)	-	-	-	-	-
Value (Rs. '000)	-	-	-	-	-

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)		-	-	-	-	-

F) **Employment** :

No. of Persons Employed per Day		-	-
Percentage Share of Employment to Total for MCDR Minerals		-	-

G) Domestic Consumption Trend : 2012-13 2013-14 2014-15 2015-16(r) 2016-17(p)
Quantity (tonnes) N.A. N.A. N.A. N.A. N.A.

H) Exports/Imports Trend :

Exports (Salts (other than common salt))	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. tonnes)	4598	4957	4776	5927	7898
Value (Rs. crore)	528.22	656.29	639.07	670.12	745.08
Percentage Share to the Value of Exports of All Minerals	0.33	0.34	0.36	0.39	0.37
Imports (Salts (other than common salt))					
Quantity (tonnes)	40274	35591	41300	55642	52901
Value (Rs. crore)	9.88	12.10	11.36	17.37	17.37
Percentage Share to the Value of Imports of All Minerals	++	++	++	++	++

I) Exports/Imports by Country in 2016-17:

Exports	China P Rp	Korea Rp	Japan	Bangladesh	Qatar	Others
Quantity (Th. tonnes)	4481	1033	477	463	378	1066
Value (Rs. crore)	352.13	110.43	68.75	34.48	47.46	131.83
Imports	Pakistan	Germany	Israel	USA	Serbia	Others
Quantity (tonnes)	52414	295	47	44	40	61
Value (Rs. crore)	15.29	0.83	0.24	0.5	0.09	0.42

J) Salt (Rock) Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
-----No production during the year.-----		

K) Contribution of above Mines in 2016-17:

Quantity (tonnes) -

Percentage Share to All-India Production -

SELENITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015	:	N.A.	N.A.
Life Index (Years)	:		N.E.

B) Mining Leases as on 31-3-2016	:	No. of Leases	Lease Area
(Area in Hectares)		N.A.	N.A.

C) Mines Reporting Production :

	No. of Mines		Production (tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	3	3	3103	4327
Public Sector	3	3	3103	4327
Non-captive	3	3	3103	4327
'B' Category	3	3	3103	4327
STATE				
Rajasthan	3	3	3103	4327

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)	7577	531	207	3103	4327
Value (Rs. '000)	10226	706	456	6206	9211

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)		-	-	-	-	-

F) Employment :

No. of Persons Employed per Day	20	21
Percentage Share of Employment to Total for MCDR Minerals	0.02	0.02

G) Domestic Consumption Trend : **2012-13** **2013-14** **2014-15** **2015-16(r)** **2016-17(p)**
Quantity (tonnes) N.A. N.A. N.A. N.A. N.A.

H) Exports/Imports Trend :

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Exports of All Minerals	-	-	-	-	-
Imports					
Quantity (tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Imports of All Minerals	-	-	-	-	-

I) Exports/Imports by Country in 2016-17:

Exports	
Quantity (tonnes)	-
Value (Rs. crore)	-
Imports	
Quantity (tonnes)	-
Value (Rs. crore)	-

J) Selenite Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Thob-2	Vill. Thob Distt. Barmer Rajasthan	Rajasthan State Mines & Minerals Ltd, C-89-90, Janpath, Lal Kothi Scheme, Jaipur – 302 015, Rajasthan.
Thob-1	Vill. Thob Distt. Barmer Rajasthan	Rajasthan State Mines & Minerals Ltd, C-89-90, Janpath, Lal Kothi Scheme, Jaipur – 302 015, Rajasthan.
Lunkaransar	Vill. Lunkaransar Distt. Bikaner Rajasthan	Rajasthan State Mines & Minerals Ltd, C-89-90, Janpath, Lal Kothi Scheme, Jaipur – 302 015, Rajasthan.

K) Contribution of above Mines in 2016-17 :

Quantity (tonnes) 4327
Percentage Share to All-India Production 100

SILICEOUS EARTH

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. tonnes)	-	-	NA

Life Index (Years) : N.E.

B) Mining Leases as on 31-3-2016: (Area in Hectares)	No. of Leases	Lease Area
	25	226.75

C) **Mines Reporting Production** :

	No. of Mines		Production (tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	13	13	47386	69379
Private Sector	13	13	47386	69379
Non-captive	13	13	47386	69379
'B' Category	13	13	47386	69379
STATE				
Rajasthan	13	13	47386	69379

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)	-	-	-	47386	69379
Value (Rs. '000)	-	-	-	20735	63722

E) **Closing Stock** : 2012-13 2013-14 2014-15 2015-16 2016-17(p)
Quantity (tonnes) - - - 45029 57905

F) **Employment** :

No. of Persons Employed per Day	89	73
Percentage Share of Employment to Total for MCDR Minerals	0.08	0.07

G) Domestic Consumption Trend	:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (tonnes)		N.A.	N.A.	N.A.	N.A.	N.A.

H) Exports/Imports Trend :

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Exports of All Minerals	-	-	-	-	-
Imports					
Quantity (tonnes)	-	-	-	-	-
Value (Rs. crore)	-	-	-	-	-
Percentage Share to the Value of Imports of All Minerals	-	-	-	-	-

J) Exports/Imports by Country in 2016-17:

Exports	
Quantity (Th. tonnes)	-
Value (Rs. crore)	-
Imports	
Quantity (tonnes)	-
Value (Rs. crore)	-

J) Five Principal Siliceous Earth Mines in 2016-17:

Name of Mine	Location of Mine	Address of Mine Owner
Bhiyasar (164/13)	Vill. Bhiyasar Distt. Jaisalmer Rajasthan	J.B. Mines & Chemicals, Vill. Indawar, Tehsil: Merta Nagaur – 341 510, Rajasthan.
Bhiyar (65/12)	Vill. Bhiyar Distt. Barmer Rajasthan	Bhom Singh Rathore, 297, Hanwant-ABJS Colony, Jodhpur – 342 001, Rajasthan.
Bhiyasar (16/93)	Vill. Bhiyasar Distt. Jaisalmer Rajasthan	Jai Shri Ram Minerals, C/o Surya Prakash Parmar, Swamiyon ka Vas, Shiv, Barmer – 344 701, Rajasthan.
Sajit (457/12)	Vill. Sajit Distt. Jaisalmer Rajasthan	Parmeshwar Khatri, Shastri Nagar, Barmer Barmer – 344 001, Rajasthan.
Mati Ka Gol(14/10)	Vill. Mati Ka Gol Distt. Barmer Rajasthan	Ms. Priyanka Kanwar, 2, Madhuban Colony, Behind Panchyat Samiti, Barmer – 344 001, Rajasthan.

K) Contribution of above Mines in 2016-17:

Quantity (tonnes)	54417
Percentage Share to All-India Production	78.43

SILLIMANITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015	6502	63702	70204
(Th. tonnes)			
Life Index (Years)	:		796
B) Mining Leases as on 31-3-2016	:	No. of Leases	Lease Area
(Area in Hectares)		7	3027.06

C) **Mines Reporting Production** :

	No. of Mines		Production (tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	4(4)	4(4)	69942	68137
Public Sector	4	4	18514	24942
Private Sector	(4)	(4)	51428	43195
Non-Captive	4(4)	4(4)	69942	68137
'A' Category	3(1)	3(1)	60451	61445
'B' Category	1(3)	1(3)	9491	6692
STATES				
Andhra Pradesh	(1)	(1)	42409	37109
Kerala	2	2	5121	9260
Maharashtra	1(3)	1(3)	9019	6196
Odisha	1	1	13393	15572

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)	43736	67265	66273	69942	68137
Value (Rs. '000)	352062	408247	456050	509314	534098

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (tonnes)		16939	15103	21239	24430	28531

F) **Employment** :

No. of Persons Employed per Day	1759	1723
Percentage Share of Employment to Total for MCDR Minerals	1.52	1.59

() : Figures in parentheses indicate associated mines with garnet and kyanite.

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (tonnes)	19600	20900	28200	38100	24200

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (tonnes)	11151	28152	17304	15078	14064
Value (Rs. crore)	13.33	14.88	14.13	11.08	11.47
Percentage Share to the Value of Exports of All Minerals	0.01	0.01	0.01	0.01	0.01
Imports					
Quantity (tonnes)	74	110	116	214	24
Value (Rs. crore)	0.74	1.43	1.08	0.90	0.3
Percentage Share to the Value of Imports of All Minerals	++	++	++	++	++

I) Exports/Imports by Country in 2016-17:

Exports	China P Rp	Nepal	Japan	Belgium	Germany	Others
Quantity (tonnes)	6507	6384	480	234	125	334
Value (Rs. crore)	6.94	2.54	0.93	0.29	0.18	0.59
Imports	Japan			USA		
Quantity (tonnes)	22			2		
Value (Rs. crore)	0.21			0.09		

J) Five Principal Sillimanite Mines in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Vatsavalasa#	Vill. Vatsavalasa & Tonangi Distt. Srikakulam Andhra Pradesh	Trimex Sands (P) Limited, Trimex Tower, No 1 Subbaraya Avenue, C P Ramaswamy Road, Alwarpet, Chennai – 600 018, Tamil Nadu.
OSCOM	Vill. Matikhala Distt. Ganjam Odisha	Indian Rare Earths Ltd., Plot No. 1207, V.S. Marg, Prabhadevi, Mumbai – 400 028, Maharashtra.
Chavara	Vill. Chavara Distt. Kollam Kerala	Indian Rare Earths Ltd., Plot No. 1207, V.S. Marg, Prabhadevi, Mumbai – 400 028, Maharashtra.
Pavri Kyanite Mine (Jamadi)*	Vill. Jamadi (Girola) Distt. Bhandara Maharashtra	Pavri Kyanite Mines, A-1 Indra Sagar, Ravindranath Tagore Marg, Civil Lines, Nagpur – 440 001, Maharashtra.
Chavara & Panama	Vill. Chavara & Panama Distt. Kollam Kerala.	Kerala Minerals & Metals Ltd., Sankaramangalam, Chavara, Karunagappally, Kollam – 691 583, Kerala.

K) Contribution of above Mines in 2016-17 :

Quantity (tonnes)	67637
Percentage Share to All-India Production	99

* Associated with kyanite. # Associated with Garnet.

SILVER*

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 :			
(Th. Tonnes) Ore	150444	361511	511955
Metal	7	23	30
 Life Index (Years) :			 31

B) Mining Leases as on 31-3-2016 :	No. of Leases	Lease Area
(Area in Hectares)	N.A.	N.A.

C) Production of Silver :

	Production (kg)	
	2015-16	2016-17(p)
INDIA	426443	460811
Public Sector	122	169
Private Sector	426321	460642
STATES		
Karnataka	122	169
Rajasthan	426321	460642

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (kg)	374046	349774	327647	426443	460811
Value (Rs. '000)	21234214	15778713	11947028	15212374	18320759

E) Closing Stock :	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (kg)	-	-	-	-	-

F) Employment :		
No. of Persons Employed per Day	-	-
Percentage Share of Employment to Total for MCDR Minerals	-	-

* Produced as a by-product.

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	N.A.	N.A.	N.A.	N.A.	N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	38	31	5	24	28
Value (Rs. crore)	192.82	112.79	34.63	48.15	75.65
Percentage Share to the Value of Exports of All Metals	0.14	0.07	0.02	0.03	0.04
Imports					
Quantity (Tonnes)	2021	6512	7708	7428	3359
Value (Rs. crore)	10797.37	26973.65	27686.37	24435.80	12329.33
Percentage Share to the Value of Imports of All Metals	2.43	8.39	6.90	6.26	3.65

I) Exports/Imports By Country In 2016-17 :

Exports	USA	UAE	Mexico	Canada	Philippines	Others
Quantity (Tonnes)	16	4	1	1	1	5
Value (Rs. crore)	33.09	20.84	3.23	2.78	1.67	14.04
Imports	Hong Kong	China P Rp	Korea Rp	Russia	UK	Others
Quantity (Tonnes)	836	793	366	321	216	827
Value (Rs. crore)	3208.23	2956.54	1288.58	1157.58	751.9	2966.5

J) Producers of Silver in 2016-17 :

Name of Smelter / Mine	Location of Smelter / Mine	Address of Producer / Mine Owner
Chanderiya Lead & Zinc Smelter	Distt. Chittorgarh Rajasthan	Hindustan Zinc Ltd, Yashad Bhawan, Udaipur – 313 004, Rajasthan.
Hutti Gold Mines Co. Ltd.	Distt. Raichur Karnataka	The Hutti Gold Mines Co. Ltd, Hutti, Distt. Raichur – 584 115. Karnataka.

K) Contribution of above Producers in 2016-17 :

Quantity (kg)	460811
Percentage Share to All-India Production	100

SULPHUR*

Items	Reserves	Remaining Resources	Total
A) Recoverable Reserves 1-4-2015 (Th. Tonnes) Sulphur (Native)	-	210	210

Life Index (Years) : N. E.

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases N.A.	Lease Area N.A.
--	-----------------------	--------------------

C) Production of Sulphur :

	No. of Units [§]		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	10	11	441153	527539
Public Sector	10	11	441153	527539
STATES				
Assam	4	4	4312	6559
Bihar	1	1	5561	8159
Gujarat	1	1	101743	100952
Haryana	1	1	178688	190946
Maharashtra	1	1	56670	48991
Orissa	-	1	-	86734
Uttar Pradesh	1	1	47836	46618
West Bengal	1	1	46343	38580

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	449004	390325	429258	441153	527539

E) Closing Stock	:	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)		NA	NA	NA	NA	NA

F) Employment :

No. of Persons Employed per Day	-	-
Percentage Share of Employment to Total for MCDR Minerals	-	-

* Sulphur is recovered as by-product from fertilizer plants and oil refineries. (Excluding units working under Pvt. Sector)
 § No. of units reporting production of sulphur as by-product

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Th. Tonnes)	1961	1997	2027	1206	N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	369960	577695	397399	628164	616472
Value (Rs. crore)	336.78	394.99	371.41	515.71	346.94
Percentage Share to the Value of Exports of All Minerals	0.21	0.20	0.21	0.30	0.17
Imports					
Quantity (Th. Tonnes)	1547	1290	1626	1433	1345
Value (Rs. crore)	1735.90	1100.29	1744.54	1417.26	875.14
Percentage Share to the Value of Imports of All Minerals	0.16	0.09	0.16	0.19	0.11

I) Exports/Imports by Country in 2016-17:

Exports	China P Rp	Indonesia	S. Africa	Oman	Brazil	Others
Quantity (Tonnes)	521873	60500	27039	2105	2019	2936
Value (Rs. crore)	288.57	34.01	14.03	2.13	2.24	5.96
Imports	S. Arab	Qatar	UAE	Japan	Baharain Is	Others
Quantity (Th. Tonnes)	548	313	244	70	57	113
Value (Rs. crore)	359.75	197.42	153.5	48.33	36.5	79.64

J) Sulphur Producing Units in 2016-17 : (As By-Product)

Location of Unit	Address of Owner
Panipat, Distt: Panipat, Haryana	Indian Oil Corpn. Ltd, (Refineries Division) Scope Complex, Core-II, 7, Institutional Area, Lodhi Road, New Delhi – 110 003.
Gujarat, Distt. Baroda, Gujarat	
Mathura , Distt. Mathura, Uttar Pradesh	
Haldia, Distt: Midnapur, West Bengal	
Barauni, Distt: Begusarai, Bihar	
Guwahati, Distt. Guwahati, Assam	
Digboi, Distt: Digboi, Assam	
Bongaigaon, Distt. Chirang, Assam	
Numaligarh Refinery Limited, Distt: Golaghat Assam	Numaligarh Refinery Limited, 122A , G.S. Road Christianbasti, Guwahati – 781 005.
Mahul, Distt. Mumbai Maharashtra	Bharat Petroleum Corp. Ltd., Bharat Bhawan, 4 & 6, Currimbhoy Road, Ballard Estate, Mumbai – 400 001, Maharashtra

K) Contribution of above Units in 2016-17 :

Quantity (Tonnes)	527539
Percentage Share to All-India Production	100

TIN CONCENTRATES

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 :			
(Tonnes) Ore	4419	83720749	83725168
Metal	154	102259	102413

Life Index (Years) : Very Large

B) Mining Leases as on 31-3-2016 :	No. of Leases	Lease Area
(Area in Hectares)	14	300.17

C) Mines Reporting Production :

	No. of Mines		Production (kg)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	6	6	13541	12120
Public Sector	1	1	9268	10006
Private Sector	5	5	4273	2114
Captive	5	5	4273	2114
Non-captive	1	1	9268	10006
'B' Category	6	6	13541	12120
STATE				
Chhattisgarh	6	6	13541	12120

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (kg)	47774	34862	24685	13541	12120
Value (Rs. '000)	24962	22791	18528	9231	7443

E) Closing Stock :	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Kg)	46503	24718	8093	3683	59050

F) Employment :

No. of Persons Employed per Day	32	19
Percentage Share of Employment to Total for MCDR Minerals	0.03	0.02

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	N.A.	N.A.	N.A.	N.A.	N.A.

H) Exports/Imports Trend:

Exports (Tin ores & concs.)	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	-	8	-	-	-
Value (Rs. crore)	-	0.11	-	-	-
Percentage Share to the Value of Exports of All Minerals	-	++	-	-	-
Imports (Tin ores & concs.)					
Quantity (Tonnes)	21	1	-	82	68
Value (Rs. crore)	1.41	0.04	-	5.80	3.73
Percentage Share to the Value of Imports of All Minerals	++	++	-	++	++

I) Exports / Imports by Country in 2016-17 :

Exports				
Quantity (Tonnes)	-			
Value (Rs. crore)	-			
Imports	Lao Pd Rd	Thailand	Kenya	Guinea
Quantity (Tonnes)	22	22	20	4
Value (Rs. crore)	1.12	1.22	1.11	0.28

J) Five Principal Tin Concentrate Mine in 2016-17 :

Name of Mine	Location of Mine	Address of Mine Owner
Bastar	Vill. Bastar Distt. Bastar Chhattisgarh	Chhattisgarh State Mineral Dev. Corpn. Ltd, Sona Khan Bhawan, Ring Road No.1, Raipur – 492 006, Chhattisgarh.
Bade Bacheli (17.087 Ha)	Vill. Bade Bacheli Distt. Dantewada Chhattisgarh	Precious Minerals & Smelting Ltd, Semi Urban Industrial Estate, Frezerpur, Jagdapur – 494 001, Chhattisgarh.
Bade Bacheli (36.067 Ha)	Vill. Bade Bacheli Distt. Dantewada Chhattisgarh	
Bade Bacheli (7.739 Ha)	Vill. Bade Bacheli Distt. Dantewada Chhattisgarh	
Bade Bacheli (5.314 Ha)	Vill. Bade Bacheli Distt. Dantewada Chhattisgarh	

K) Contribution of above Mine in 2016-17 :

Quantity (Kg)	12090
Percentage Share to All-India Production	99.75

TUNGSTEN CONCENTRATES

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 :			
(Th. Tonnes) Ore	-	87387	87387
Metal	-	142	142
 Life Index (Years) :			N. E.

B) Mining Leases as on 31-3-2016 :	No. of Leases	Lease Area
(Area in Hectares)	N.A.	N.A.

C) Mines Reporting Production :

	No. of Mines		Production (kg)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	----- No Production reported -----			
Public Sector	- do -			
Non-Captive	- do -			
'A' Category	- do -			
'B' Category	- do -			
STATE				
Rajasthan	- do -			

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (kg)	-	-	-	-	-
Value (Rs.'000)	-	-	-	-	-

E) Closing Stock :	2012-13	2013-14	2013-14	2015-16	2016-17(p)
Quantity (kg)	-	-	-	-	-

F) Employment :

No. of Persons Employed per Day	-	-
Percentage Share of Employment to Total for MCDR Minerals	-	-

G) Domestic Consumption Trend : 2012-13 2013-14 2014-15 2015-16(r) 2016-17(p)

Quantity (Tonnes) N.A. N.A. N.A. N.A. N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	93	323	175	1	8
Value (Rs. crore)	0.92	6.42	2.97	0.04	0.61
Percentage Share to the Value of Exports of All Minerals	++	++	++	++	++
Imports					
Quantity (Tonnes)	107	17	191	78	283
Value (Rs. crore)	2.88	2.82	6.16	3.41	2.96
Percentage Share to the Value of Imports of All Minerals	++	++	++	++	++

I) Exports/Imports by Country in 2016-17 :

Exports	Rwanda			Germany	
Quantity (Tonnes)	7			1	
Value (Rs. crore)	0.60			0.01	
Imports	Netherland	Singapore	Australia	Slovenia	Germany
Quantity (Tonnes)	171	63	23	23	3
Value (Rs. crore)	1.37	0.53	0.74	0.05	0.27

J) Tungsten Concentrate Mines in 2016-17 : Nil

K) Contribution of above Mine in 2016-17 :

Quantity (kg) -

Percentage Share to All-India Production -

VERMICULITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	1633	719	2352
Life Index (Years)			137
B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases 104		Lease Area 1861.04

C) **Mines Reporting Production** :

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	7(7)	6(3)	23279	6543
Public Sector	1	1	968	1691
Private Sector	6(7)	5(3)	22311	4852
Captive	-	-	-	-
Non-captive	7(7)	6(3)	23279	6543
'B' Category	7(7)	6(3)	23279	6543
STATES				
Andhra Pradesh	6(5)	5(1)	21890	4725
Rajasthan	(2)	(2)	421	127
Tamil Nadu	1	1	968	1691

D) **Production Trend** :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	7947	11851	19336	23279	6543
Value (Rs. '000)	5010	9470	12479	10556	6122

E) **Closing Stock** :

	2012-13	2013-14	2013-14	2015-16	2016-17(p)
Quantity (Tonnes)	10131	13119	17899	29045	27570

F) **Employment** :

No. of Persons Employed per Day	106	76
Percentage Share of Employment to Total for MCDR Minerals	0.09	0.07

(): Figures indicate associated mines with apatite, feldspar, mica and quartz.

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	800	900	900	N.A.	N.A.

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	648	737	1044	528	756
Value (Rs. crore)	0.55	0.87	0.99	0.64	0.83
Percentage Share to the Value of Exports of All Minerals	++	++	++	++	++
Imports					
Quantity (Tonnes)	170	176	391	439	551
Value (Rs. crore)	0.83	0.84	1.15	1.51	1.44
Percentage Share to the Value of Imports of All Minerals	++	++	++	++	++

I) Exports/Imports by Country in 2016-17 :

Exports	Norway	UAE	Cambodia		Japan	
Quantity (Tonnes)	342	250	100		64	
Value (Rs. crore)	0.29	0.30	0.16		0.08	
Imports	Brazil	Zimbabwe	S. Africa	USA	Mozambique	Others
Quantity (Tonnes)	336	72	65	51	24	3
Value (Rs. crore)	0.78	0.12	0.16	0.29	0.04	0.05

J) Five Principal Vermiculite Mines in 2016-17:

Name of Mine	Location of Mine	Address of Mine Owner
Sevathur	Vill. Sevathur Distt. Vellore Tamil Nadu	Tamil Nadu Minerals Ltd, 31, Kamarajar Salaitwad House, Chepauk, Chennai – 600 005, Tamil Nadu.
Kandali Vermiculite Mine-2	Vill. Kandali Distt. Nellore Andhra Pradesh	B. Koteswara Rao, 558.53-4A Swarna Bharathi Nagar, Malavya Nagar, Gudur, Nellore-524 101, A. P.
Kandali Vermiculite Mine	Vill. Kandali Distt. Nellore Andhra Pradesh	B. Koteswara Rao, 558.53-4A Swarna Bharathi Nagar, Malavya Nagar, Gudur, Nellore-524 101, A. P.
Dugar III	Vill. Palicherla Distt. Nellore Andhra Pradesh	Dugar Insulations India (P) Ltd., 7 th Floor 34(123), Dugar Towers, Marshalls Rd, Egmore, Chennai – 600 008, Tamil Nadu.
Muruga	Vill. Rajupalem Distt. Nellore Andhra Pradesh	T. Meenatchi Sundaram Plot No.2, Industrial Estate, Gudur (P.O.), (Mandal), SPSR Nellore – 524 101, (A.P.)

K) Contribution of above Mines in 2016-17 :

Quantity (Tonnes)	6196
Percentage Share to All-India Production :	95

WOLLASTONITE

Items	Reserves	Remaining Resources	Total
A) Total Resources 1-4-2015 (Th. Tonnes)	2241	14228	16469

Life Index (Years) : 74

B) Mining Leases as on 31-3-2016 (Area in Hectares)	No. of Leases	Lease Area
	16	418.59

C) Mines Reporting Production :

	No. of Mines		Production (Tonnes)	
	2015-16	2016-17(p)	2015-16	2016-17(p)
INDIA	5	4	175348	166186
Private Sector	5	4	175348	166186
Non-captive	5	4	175348	166186
'A' Category	2	2	159264	154801
'B' Category	3	2	16084	11385
STATE				
Rajasthan	5	4	175348	166186

D) Production Trend :

	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	145667	192712	186524	175348	166186
Value (Rs. '000)	127468	157090	162113	150313	158935

E) Closing Stock	2012-13	2013-14	2014-15	2015-16	2016-17(p)
Quantity (Tonnes)	2248	10706	3418	13896	17580

F) Employment :

No. of Persons Employed per Day	309	292
Percentage Share of Employment to Total for MCDR Minerals	0.27	0.27

G) Domestic Consumption Trend:	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	140300	183300	196700	164200	153000

H) Exports/Imports Trend:

Exports	2012-13	2013-14	2014-15	2015-16(r)	2016-17(p)
Quantity (Tonnes)	18765	19033	17864	16616	16700
Value (Rs. crore)	28.15	31.02	28.81	27.93	29.35
Percentage Share to the Value of Exports of All Minerals	0.02	0.02	0.02	0.02	0.01
Imports					
Quantity (Tonnes)	1288	1305	1948	2818	3483
Value (Rs. crore)	2.42	3.05	3.25	5.32	7.31
Percentage Share to the Value of Imports of All Minerals	++	++	++	++	++

I) Exports/Imports by Country in 2016-17 :

Exports	Belgium	Japan	Germany	Turkey	France	Others
Quantity (Tonnes)	8823	4203	1987	506	336	845
Value (Rs. crore)	16.32	6.52	3.69	0.56	0.75	1.51
Imports	China P Rp	Spain	USA	Mexico	Germany	Others
Quantity (Tonnes)	2169	1032	195	65	16	6
Value (Rs. crore)	3.15	2.28	1.29	0.28	0.21	0.1

J) Wollastonite Mines in 2016-17 :

Name Of Mine	Location Of Mine	Address Of Mine Owner
Kheratarla	Vill. Khera Distt. Udaipur Rajasthan	Wolkem Industries Ltd, P.B. 21, E-101, Mewar Industrial Area, Madri, Udaipur – 313003, Rajasthan.
Belkapahar	Vill. Khila Distt. Sirohi Rajasthan	Wolkem Industries Ltd, P.B. 21, E-101, Mewar Industrial Area, Madri, Udaipur – 313003, Rajasthan.
Kotra (22/01)	Vill. Kotra Distt. Ajmer Rajasthan	Renu Atre, C-378, Pardhan Marg, Malviya Nagar, Jaipur – 302017, Rajasthan.
Ramawas	Vill. Ramavas Distt. Ajmer Rajasthan	Renu Atre, C-378, Pardhan Marg, Malviya Nagar, Jaipur – 302017, Rajasthan.

K) Contribution of above Mines in 2016-17 :

Quantity (Tonnes)	166186
Percentage Share to All-India Production :	100