

STATE REVIEWS



# Indian Minerals Yearbook 2013

(Part- I : General Reviews)

**52<sup>nd</sup> Edition**

**STATE REVIEWS**

**(FINAL RELEASE)**

**GOVERNMENT OF INDIA  
MINISTRY OF MINES  
INDIAN BUREAU OF MINES**

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# 11 State Reviews

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## Analytical Summary

The value of mineral production in India in 2002-13 was at ₹2,85,761 crores showing a marginal increase in comparison with the previous year. During the year, mineral production was reported from 31 States, Union Territories and Off-shore regions of which the bulk of the value of mineral production of about 89% was confined to eleven states (including Off-shore regions) only. Off-shore regions continued to be in leading position in terms of value of mineral production with a share of about 21% of the value of National Mineral Output. Next in order was Rajasthan with a share of 11% followed by Gujarat and Andhra Pradesh (including newly formed State of Telangana) (9% each), Odisha (8%), Jharkhand and Chhattisgarh (7% each), Maharashtra (5%), Madhya Pradesh, Assam and West Bengal (about 4% each), Uttar Pradesh (3%), Karnataka and Tamil Nadu (about 2% each), Meghalaya, Kerala and Goa (about 1% each). While other 14 States/Union Territories have an individual share of less than one percent.

State-wise analysis revealed that during 2012-13, the value of mineral production in most of the important states was on higher side as compared to that in the previous year. The value of mineral production in West Bengal increased by 34% as compared to the preceding year. The value of production also increased in Rajasthan by 23%, Jharkhand 22%, Himachal Pradesh 18%, Tripura 15%, Madhya Pradesh 10%, Maharashtra

7%, Karnataka and Chhattisgarh 5% each, Andhra Pradesh 3% and Tamil Nadu, Bihar and Uttar Pradesh 2% each. A marginal decline in the value of mineral production was observed in Assam, Kerala and Jammu & Kashmir. However, decrease in value of mineral production was observed in Gujarat 2%, Off-shore regions 7%, Uttarakhand 8%, Odisha 16%, Meghalaya 20%, Arunachal Pradesh 21% and Goa 60 percent (Tables 1 & 2).

The index of mineral production (base 2004-05=100) excluding atomic minerals and minor minerals stood at 125.46 in 2012-13 showing a decrease of about 2.3% over the previous year (Table - 3).

The total number of mines which reported mineral production (excluding atomic minerals, petroleum crude, natural gas and minor minerals) at all India level added to 3,693 in 2012-13 as against 3,603 in the previous year. Out of the 3,693 reporting mines, in Andhra Pradesh accounted for 680 mines followed by Rajasthan (490), Gujarat (447), Madhya Pradesh (382), Tamil Nadu (346), Jharkhand (287), Karnataka (205), Chhattisgarh (192), Odisha (184), Maharashtra (147), West Bengal (126), Goa (49), Kerala (48), Uttarakhand (32), Uttar Pradesh (21), Himachal Pradesh (19), Meghalaya (14), Assam and Jammu & Kashmir (8 each), Bihar (6) and Arunachal Pradesh & Haryana (1 each) (Table - 4).

The present status of each mineral-based industry as mentioned in the tables of respective state reviews is, however, not available.

## STATE REVIEWS

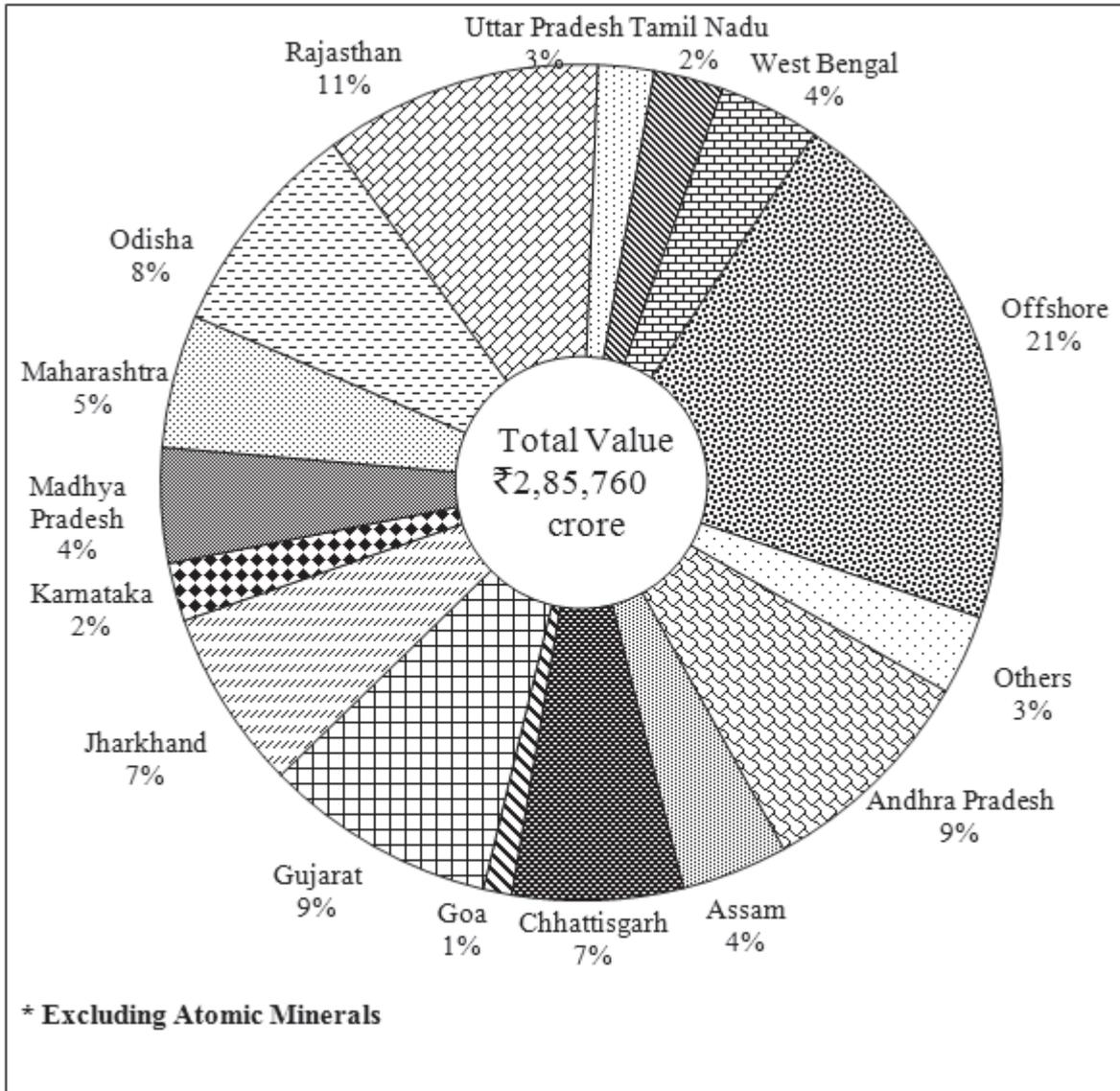
**Table – 1 : Value\* of Mineral Production, 2010-11 to 2012-13  
(By States & Union Territories)**

(In ₹'000)

State/Union Territory/Region	2010-11	2011-12	2012-13(P)
<b>India</b>	<b>2670323852</b>	<b>2845703275</b>	<b>2857605674</b>
Andhra Pradesh	218645465	241467938	248592274
Arunachal Pradesh	3871683	4195752	3322044
Assam	107740059	116554943	116437224
Bihar	3461179	1414481	1446295
Chhattisgarh	136924511	178181093	186953384
Goa	81672198	78602979	31075933
Gujarat	262142077	260895535	254772214
Himachal Pradesh	2559392	2153054	2548604
Haryana	1487198	1487198	1487461
Jammu & Kashmir	1477065	1697170	1691572
Jharkhand	205198846	163484986	199509838
Karnataka	92997859	61319325	64578607
Kerala	12790336	31650899	31563949
Manipur	2866	2866	2866
Meghalaya	26244680	49424246	39400798
Mizoram	15331	22199	22199
Madhya Pradesh	123469521	115952516	127416363
Maharashtra	132903175	137908418	147547061
Nagaland	1774	1774	1774
Odisha	259380019	286834937	241963373
Punjab	422321	327395	327395
Rajasthan	199853728	247321485	304018587
Sikkim	18787	18787	18787
Tamil Nadu	46756551	60045129	61520555
Tripura	3930818	4661677	5379953
Uttar Pradesh	47781553	74848321	76242649
Uttarakhand	882009	922935	849296
West Bengal	29954033	82795647	110849055
Andaman & Nicobar Islands	170580	189039	189039
Chandigarh	3390	-	-
Daman & Diu	587	-	-
Puducherry	115000	54000	54000
Off-shore regions	667449261	641266551	597822525

\* Excluding atomic minerals.

### Share of States in the value\* of Mineral Production, 2012-13



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**Table – 2 : Value\* of Mineral Production, 2011-12 and 2012-13**  
(By States & Union Territories/Mineral Groups)

State/Union Territory/ Region	Total			Fuel minerals			Metallic minerals			Non-metallic minerals			Minor minerals		
	2011-12	2012-13(P)	2012-13(P)	2011-12	2012-13(P)	2012-13(P)	2011-12	2012-13(P)	2012-13(P)	2011-12	2012-13(P)	2012-13(P)	2011-12	2012-13(P)	2012-13(P)
	(In ₹ '000)														
<b>India</b>	<b>2845703275</b>	<b>2857605674</b>	<b>1789219941</b>	<b>1826892354</b>	<b>470320151</b>	<b>435918590</b>	<b>61258314</b>	<b>69889861</b>	<b>524904869</b>	<b>524904869</b>	<b>123362441</b>	<b>123362441</b>	<b>300100</b>	<b>300100</b>	<b>524904869</b>
Andhra Pradesh	241467938	248592274	105353818	107387043	1279955	1122452	11471724	16720338	123362441	123362441	300100	300100	300100	300100	123362441
Arunachal Pradesh	4195752	3322044	3895652	3021944	-	-	-	-	-	-	-	-	-	-	-
Assam	116554943	116437224	116178553	116046056	-	-	-	-	-	-	-	-	-	-	-
Bihar	1414481	1446295	-	-	-	-	-	-	-	-	-	-	-	-	-
Chhattisgarh	178181093	186953384	70740300	90750700	100212253	88747292	3879034	4105886	3349506	3349506	8642394	8642394	-	-	8642394
Goa	78602979	31075933	135891748	128690846	484650	1424645	3871425	4009011	120647712	120647712	1487198	1487198	1487198	1487198	120647712
Gujarat	260895535	254772214	1487461	-	-	-	-	263	1487198	1487198	1487198	1487198	1487198	1487198	1487198
Haryana	1487198	1487461	-	-	-	-	-	263	1487198	1487198	1487198	1487198	1487198	1487198	1487198
Himachal Pradesh	2153054	2548604	-	-	-	-	-	1641404	907200	907200	907200	907200	907200	907200	907200
Jammu & Kashmir	1697170	1691572	42500	40400	-	-	43014	39516	1611656	1611656	1611656	1611656	1611656	1611656	1611656
Jharkhand	163484986	199509838	139887600	175665400	22240798	22504007	955140	938983	401448	401448	401448	401448	401448	401448	401448
Karnataka	61319325	64578607	-	-	37820205	40625574	3011621	3465534	20487499	20487499	20487499	20487499	20487499	20487499	20487499
Kerala	31650899	31563949	-	-	0	0	608037	521087	31042862	31042862	31042862	31042862	31042862	31042862	31042862
Madhya Pradesh	115952516	127416363	83305500	93737900	8230809	9017876	5062199	5306579	19354008	19354008	19354008	19354008	19354008	19354008	19354008
Maharashtra	137908418	147547061	53112600	62356800	6430153	6616392	1721386	1929590	76644279	76644279	76644279	76644279	76644279	76644279	76644279
Manipur	2866	2866	-	-	-	-	-	-	2866	2866	2866	2866	2866	2866	2866
Meghalaya	49424246	39400798	47739800	37365000	-	-	1612371	1963723	72075	72075	72075	72075	72075	72075	72075
Mizoram	22199	22199	-	-	-	-	-	-	22199	22199	22199	22199	22199	22199	22199
Nagaland	1774	1774	-	-	-	-	-	-	1774	1774	1774	1774	1774	1774	1774
Odisha	286834937	241963373	96399000	47256800	187760410	191826764	1818760	2023042	856767	856767	856767	856767	856767	856767	856767
Punjab	327395	327395	-	-	-	-	0	0	327395	327395	327395	327395	327395	327395	327395
Rajasthan	247321485	304018587	124442285	164626055	35883038	51561785	19380872	20215457	67615290	67615290	67615290	67615290	67615290	67615290	67615290
Sikkim	18787	18787	-	-	-	-	-	-	18787	18787	18787	18787	18787	18787	18787
Tamil Nadu	60045129	61520555	50695698	51646208	17295	38264	5437276	5941223	3894860	3894860	3894860	3894860	3894860	3894860	3894860
Tripura	4661677	5379953	4632497	5350773	-	-	-	-	29180	29180	29180	29180	29180	29180	29180
Uttar Pradesh	74848321	76242649	34369500	35844200	-	-	-	476300	39922149	39922149	39922149	39922149	39922149	39922149	39922149
Uttarakhand	922935	849296	-	-	-	-	-	212929	636367	636367	636367	636367	636367	636367	636367
West Bengal	82795647	110849055	81266339	109283704	-	-	-	110238	1455113	1455113	1455113	1455113	1455113	1455113	1455113
Andaman & Nicobar Islands	189039	189039	-	-	-	-	-	-	189039	189039	189039	189039	189039	189039	189039
Puducherry	54000	54000	-	-	-	-	-	-	54000	54000	54000	54000	54000	54000	54000
Offshore regions	641266551	597822525	641266551	597822525	-	-	-	-	-	-	-	-	-	-	-

\* Excluding atomic minerals.

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**Table – 3 : Index of Mineral Production\*, 2010-11 to 2012-13  
(By States)**

(Base 2004-05=100)

State/Region	2010-11	2011-12	2012-13 (P)
<b>India</b>	<b>131.06</b>	<b>128.45</b>	<b>125.46</b>
Andhra Pradesh	137.36	139.23	141.25
Arunachal Pradesh	158.90	161.64	165.75
Assam	103.96	109.18	106.16
Bihar	370.30	214.05	224.27
Chhattisgarh	153.58	155.48	156.46
Goa	156.64	148.16	46.58
Gujarat	93.36	91.85	86.12
Himachal Pradesh	165.67	150.11	180.84
Jammu & Kashmir	82.67	92.49	92.13
Jharkhand	139.52	139.21	140.66
Karnataka	101.69	43.28	37.19
Kerala	193.04	204.54	233.81
Madhya Pradesh	134.35	133.72	142.47
Maharashtra	114.12	114.05	114.14
Meghalaya	132.70	141.89	112.24
Odisha	156.95	144.53	144.80
Rajasthan	165.69	180.16	203.26
Tamil Nadu	109.32	118.36	117.18
Tripura	122.98	129.84	130.44
Uttar Pradesh	92.43	96.07	95.49
Uttarakhand	141.42	137.68	94.60
West Bengal	91.87	102.78	112.26
Offshore regions	122.36	112.18	98.71

\* Excluding atomic minerals and minor minerals.

**Table – 4 : Number of Reporting Mines\*, 2010-11 to 2012-13  
(By States)**

State	2010-11	2011-12	2012-13 (P)
<b>India</b>	<b>3118</b>	<b>3603</b>	<b>3693</b>
Andhra Pradesh	456	621	680
Arunachal Pradesh	1	1	1
Assam	11	10	8
Bihar	10	6	6
Chhattisgarh	167	192	192
Goa	79	74	49
Gujarat	429	441	447
Himachal Pradesh	24	25	19
Haryana	-	-	1
Jammu & Kashmir	10	10	8
Jharkhand	297	297	287
Karnataka	251	207	205
Kerala	30	43	48
Meghalaya	10	13	14
Madhya Pradesh	317	417	382
Maharashtra	161	158	147
Odisha	192	183	184
Rajasthan	308	418	490
Tamil Nadu	192	302	346
Uttar Pradesh	24	25	21
Uttarakhand	40	37	32
West Bengal	109	123	126

\* Excluding atomic minerals and minor minerals.



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Table - 5 (Contd.)

Mineral	Unit	Reserves						Remaining resources						Total resources (A+B)		
		Proved		Probable		Total Feasibility		Measured		Indicated		Inferred			Reconnaissance	
		STD 111		STD121		STD211		STD331		STD332		STD333			STD334	
		STD122		STD122		STD221		STD222								
Granite	'000 cu m	35741	201377	26574	263692	38462	51990	8234	837325	2063964	42499338	467296	45966608	46230300		
Graphite	'000 tonnes	3685172	2266174	2080518	8031864	102173	1409511	3078665	224859	6603670	19736371	135662532	166817781	174849645		
Gypsum	'000 tonnes	22494	239	16363	39096	8502	73651	17659	8455	710853	428272	10	1247402	1286498		
Iron ore	'000 tonnes	5982042	1173324	938180	8093546	515353	756190	494738	540188	1197539	3942673	2341870	9788551	17882098		
Hematite	'000 tonnes	15973	3672	2111	21755	189478	1714	50816	1513168	1984566	6313583	568980	10622305	10644060		
Magnetite	tonne	551529	524485	498839	1574853	322622	25917	1238407	578607	3590902	95914312	-	101670767	103245620		
Kyanite	'000 tonnes	13936	2172	8607	24714	1830	60	2625	-	1107	230865	209632	446119	470833		
Laterite	'000 tonnes	20215	87569	1196	108980	129	1077	3983	21433	221601	325051	3340	576614	685594		
Lead & zinc	'000 tonnes	398.42	1817.89	28.70	2245.01	-	34.32	50.95	472.37	2915.70	5831.04	-	9304.38	11549.39		
Ore	'000 tonnes	1938.37	10460.72	54.17	12453.26	5.20	4.71	86.91	1168.96	9607.12	13237.09	101.65	24211.64	36664.90		
Lead metal	'000 tonnes	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc metal	'000 tonnes	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead & zinc metals	'000 tonnes	-	-	-	-	-	-	-	-	-	-	-	-	-		
Limestone	'000 tonnes	8978583	3650574	2297234	14926392	1827583	3739470	6309489	6858999	22040640	124835558	4396981	170008720	184935112		
Magnetite	'000 tonnes	20851	7786	13313	41950	1776	2244	32326	59010	59652	138169	45	293222	335172		
Marble	'000 tonnes	103736	172661	98	276495	-	29842	72289	-	107129	1445708	-	1654968	1931463		
Marl	tonne	133236150	4650000	2090000	139976150	11704870	-	-	-	-	-	-	1704870	151681020		
Mica	tonne	169841	15269	5632	190741	21427	11317	118868	52724	42504	94427	228	341496	532237		
Manganese ore	'000 tonnes	97425	11590	32962	141977	23529	27594	51074	5732	23726	151704	4644	288003	429980		
Molybdenum	tonne	-	-	-	-	-	1500000	-	36000	569304	17013628	167800	19286732	19286732		
Ore	tonne	-	-	-	-	-	-	-	-	-	-	-	-	-		
Contained	tonne	-	-	-	-	-	1050	-	83	287	11169	50	12640	12640		
MoS <sub>2</sub>	tonne	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel ore	'000 tonnes	-	-	-	-	-	21	21	31	53	63	-	189	189		
Ochre	tonne	39863403	683093	14395680	54942176	15897677	13232482	21008598	2477593	3232246	32701243	769250	89319089	144261265		
Pelite	'000 tonnes	140	-	288	428	-	683	307	-	-	-	988	1978	2406		
Phosphorite/Rock phosphate	tonne	20697294	3352994	10728362	34778650	26826747	21273335	24226125	2912633	3549750	182717111	-	261505701	296284351		
Platinum group of metals	tonne	-	-	-	-	-	-	7.70	-	-	-	6.50	1.50	15.70		
Potash	million tonnes	-	-	-	-	-	-	-	-	18142	3652	22	21815	21815		
Pyrite	'000 tonnes	-	-	-	-	-	-	32597	9590	77729	1527356	-	1674401	1674401		
Pyrophyllite	tonne	12146045	688351	4241055	23275450	3256515	4919285	6595687	3976532	3963980	9786686	308766	32807450	56082901		
Quartz/Quartzite	'000 tonnes	272972	35079	121173	429223	185399	322454	321760	58683	259116	1907994	14402	3069808	3499031		
Silica sand	'000 tonnes	59004	1647	25948	86599	33217	105018	147686	93116	113611	669453	2548	1164648	1251247		
Rock salt	'000 tonnes	10036	-	5990	16026	-	-	-	-	-	-	-	-	16026		
Ruby	kg	143	-	93	236	-	-	3165	286	38	1623	-	5113	5349		
Sapphire	kg	-	-	-	-	-	-	-	-	-	450	-	450	450		

(Contd.)

Table - 5 (Concl'd)

Mineral	Unit	Reserves					Remaining resources					Total Resources (A+B)		
		Proved STD111	Probable		Total (A)	Feasibility STD211	Pre-feasibility		Measured STD331	Indicated STD332	Inferred STD333		Reconnaissance STD334	Total (B)
			STD121	STD122			STD221	STD222						
Shale	'000 tonnes	14992	76	263	15331	-	-	245	-	-	252	83	580	15911
Sillimanite	tonne	1693000	1602228	789824	4085052	317869	124000	20082855	4579816	17795772	16152473	3849600	62902385	66987437
Silver <sup>1)</sup>	tonne	46109414	17655843	123793411	187558668	3375000	1048700	5404862	11140000	86286000	172171729	-	279426291	466984959
Ore	tonne	1591.85	1949.65	4498.07	8039.57	270.00	27.60	54.30	1045.40	6212.66	11978.72	-	19588.68	27628.25
Metal	'000 tonne	-	-	-	-	-	113	1187	-	-	1069	-	2369	2369
Slate	'000 tonne	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphur (Native)	'000 tonne	-	-	-	-	-	-	-	-	-	210	-	-	210
Talc/ steatite/ soapstone	'000 tonne	54615	8772	26640	90026	9732	12773	27080	6403	7256	115195	558	178996	269023
Tin	tonne	4404	1015	1713	7131	22592692	2326	31330000	168622	561080	29064345	-	83719066	83726197
Ore	tonne	925.75	189.76	16.92	1132.43	32222.43	652.89	54032.8	894.91	231.63	13107.75	-	101142.41	102274.84
Metal	tonne	15271219	4274178	2484826	22030223	5198882	151888	-	2046780	50177023	314391121	-	371965694	393995917
Titanium Minerals*	tonne	13369586	4090393	2209232	19669211	4970726	151888	-	1090326	39870981	269835940	-	315919861	335589072
Ilmenite	tonne	933502	183785	132553	1249840	228156	-	-	4460	3331042	8584030	-	12147688	13397528
Rutile	tonne	674592	-	25625	700217	-	-	-	1994	-	341949	-	343943	1044160
Leucoxene	tonne	-	-	-	-	-	-	-	-	-	-	-	-	-
Anatase	tonne	-	-	-	-	-	-	-	-	-	-	-	-	-
Titaniferous Magnetite	tonne	293539	-	117416	410955	-	-	-	950000	3630000	35629202	-	40209202	40620157
Tungsten Ore	tonne	-	-	-	-	2230000	-	173063	1961152	23435954	25356049	16581246	87387464	87387464
Contained WO <sub>3</sub>	tonne	-	-	-	-	3568	-	450	9914	20180.92	103415.15	4566.28	142094.35	142094.35
Vermiculite	tonne	1628475	24593	50939	1704007	22733	75790	71744	35195	24930	569012	3600	803003	2507010
Wollastonite	tonne	2289869	-	197253	2487122	3750545	-	3724191	76088	3325042	3206885	-	14082751	16569873
Zircon*	tonne	1025942	146085	175443	1347470	649938	-	-	81741	338525	716279	-	1786483	3133953

Figures rounded off.

The proved and indicated recoverable reserves of crude oil and natural gas as on 1.4.2013 in India are 758.27 million tonnes and 1354.76 billion cu m, respectively.

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