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Ministry of Mines  
INDIAN BUREAU OF MINES

**Bulletin of**  
**MINING LEASES & PROSPECTING LICENCES, 2014**  
[Excluding Atomic Minerals, Coal, Lignite, Petroleum, Natural Gas  
(includes the minerals declared as minor as per Gazette Notification dated 10<sup>th</sup> February  
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## **Preface**

Indian Bureau of Mines is a repository of database on mineral sector. Directory of Mining Leases is one such database that comprises details of information on Mining Leases granted/executed/renewed/revoked/surrendered. Bulletin of Mineral Information, Bulletin of Mining Leases and Prospecting Licences etc. are published based on this information. Currently in its 17<sup>th</sup> edition, this publication "*Bulletin of Mining Leases and Prospecting Licences 2014*" contains information on Mining Leases, Prospecting Licences as well as Reconnaissance Permits as on 31-3-2014. Information contained in the Directory of Mining Leases have been segregated into state wise, district wise, mineral wise and sector wise. Similarly, the data on distribution of Mining Leases executed across the country have been demarcated and classified into high, medium and low mineral-potential bearing districts.

Predominant portions of this publication is based on the Directory of Mining Leases as on 31-3-2014, which in turn was compiled from the data supplied by the different State Governments under the statutory provision of Rule 57(2) of MCR, 1960. So far as prospecting licences/reconnaissance permits are concerned, the individual licence/permit deeds and the consolidated annual returns received under Rule 57(1) and (2) of MCR, 1960 for the same period have been utilised. Besides the above, the approval orders in case of reconnaissance permits were also used as sources of information.

Indian Bureau of Mines is grateful to all the State Government Departments for furnishing information on mining leases, prospecting licences, reconnaissance permits, etc. and it is hoped that this publication would be quite useful to all those associated with mineral sector.

Nagpur  
Dated: 6/10/2015

Controller General (In-charge)  
Indian Bureau of Mines

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## Introduction

India has a total geographical area of 328.73 million hectares. Of this, the mining lease area, except for fuel, atomic minerals and minor minerals, constitutes around 0.14% (454,706 hectares). The position of mining leases as on 31.3.2014 reveals that there are as many as 10,982 mining leases (compared to 11,104 in the previous year) granted in the country by the State Governments covering 64 minerals (excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) with a total area of 454,706 hectares and spread over 23 States. These 64 minerals are broadly classified into metallic and non-metallic minerals. This bulletin highlights state wise, sector wise and district wise distribution of mining leases, frequency distribution of mining leases, prospecting licences and reconnaissance permits, etc. Though apparently negligible, the mining lease area of the country is considered as an important land use segment as it contributes to the economic growth of the country. Besides, it calls for environmental protection, as land under leases is subjected to degradation during the process of mining activities.

India is well-endowed with a wide variety of naturally occurring minerals. These are being exploited to cater to the needs of domestic mineral-based industries as well as to meet export demands to earn foreign exchange. Today, as many as 64 minerals including major metallic and non-metallic minerals are being exploited in the country excluding coal, atomic and some minor minerals.

The Indian Mineral Sector is opened fully to private sector including domestic and foreign. The Government of India in its National Mineral Policy 2008, has enunciated policy measures like assured right to next stage mineral concession, transferability of mineral concessions and transparency in allotment of concession in order to reduce delays and with a purpose to weed out impediments that hinder inflow of investments and technology into the Mining Sector of the country. These policy initiatives would provide suitable environment for exploration and judicious utilisation of the country's mineral wealth. Apart from these, the National Mineral Policy has enunciated several policy measures that seek to strengthen the

framework/institutions that support the Indian Mining Sector which includes Geological Survey of India, Indian Bureau of Mines and State Directorates of Geology & Mining.

Under Rule 57 (1) of MCR, 1960, a copy of every reconnaissance permit, (no provision for renewal of reconnaissance permits), prospecting licence and mining lease granted or renewed shall be supplied by each State Government within two months of such grant or renewal to the Controller General, Indian Bureau of Mines. Besides, under Rule 57 (2) of MCR, 1960 all the State Governments/Union Territories are required to submit to the Controller General, Indian Bureau of Mines, a consolidated annual return of reconnaissance permits/prospecting licences/mining leases granted or executed in Proforma 'A'; prospecting licences/mining leases renewed in Proforma 'B' and termination of mining leases & reasons for termination in Proforma 'C' for the preceding financial year ending in March on or before 30<sup>th</sup> June every year.

The information pertaining to mining leases and prospecting licences as received is then compiled, processed and updated. These stored data can be retrieved and made available for analysis & further requisite studies and for the information seekers.



## Land Use Scenario

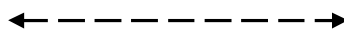
India's geographical area is about 328.73 million hectares. The entire geographical area is broadly classified into 7 segments which are as follows.

Sl. No.	Area/Segment	Total Area (Million Ha.)	Percentage of Area
	<b>Total Geographical Area</b>	<b>328.73</b>	<b>100</b>
1	Net Area Sown (Crop Area)	140.80	42.83
2	Permanent Pastures & Grazing Land	10.30	3.13
3	Forest	70.02	21.30
4	Mining Lease Area*	0.45	0.14
5	Fallow Lands	25.38	7.72
6	Land Not Available for Cultivation	43.52	13.24
7	Other area	38.26	11.64

Source : Directorate of Economics & Statistics, Department of Agriculture & Cooperation, Pocket Book of Agricultural Statistics, 2014.

\* Source : ML Directory as on 31.03.2014 prepared by IBM based on data received from State Govt.s/UTs

The mining lease area constitutes around 454,706.15 hectares which is approximately 0.14% of the total geographical area. However, mining lease area, though a minuscule segment in the total land area, continues to be an important segment and an essential contributing factor to the economy of the country. At the same time, there is an imperative need to pay due attention to environmental aspects, as these land areas under mining leases are subjected to various processes of mining activity and are liable for degradation.



## Mining Leases

### 3.1 STATE WISE ANALYSIS

As per the Mining Lease Directory as on 31.3.2014, there were 10,982 mining leases granted by State Governments for 64 different minerals, covering an area of about 4,54,706 hectares in the country. States rich in minerals where maximum number of mining leases were granted are Rajasthan (30.10%) followed by Andhra Pradesh (18.56%), Gujarat (10.02%), Madhya Pradesh (9.11%), Tamil Nadu (8.48%), Karnataka (4.96%), Odisha (4.20%), Chhattisgarh (2.73%), Jharkhand (2.57%), Goa (2.43%) and Maharashtra (2.37%). These eleven States together account for about 95.53% of the total leases executed and the remaining twelve States where such leases were executed accounted for about 4.47% of the total mining leases.

The maximum area in percentage covered under mining leases in different States are Rajasthan (18.50%) followed by Odisha (16.18%), Andhra Pradesh (13.52%), Karnataka (10.48%), Madhya Pradesh (7.23%), Jharkhand (6.67%), Gujarat (6.52%), Chhattisgarh (4.85%), Goa (4.37%), Maharashtra (3.40%), Haryana (2.41%) and Tamil Nadu (2.15%). These twelve States account for about 96.28% of the total mining lease area granted and the remaining 3.72% is accounted for by the rest eleven States.

The State wise mining lease distribution together with lease areas as well as state wise/ district wise distribution of mining leases as on 31.03.2014 are furnished in Tables - 1 to 4.



**Table – 1: State wise Summary of Lease Distribution  
As on 31.03.2014**

State	No. of Leases	Percentage	Area (In Hect.)	Percentage
Andhra Pradesh*	2038	18.56	61470.00	13.52
Assam	7	0.06	889.50	0.20
Bihar	9	0.08	1382.66	0.30
Chhattisgarh	300	2.73	22070.85	4.85
Goa	267	2.43	19892.01	4.37
Gujarat	1100	10.02	29632.55	6.52
Haryana	110	1.00	10974.99	2.41
Himachal Pradesh	44	0.40	2542.39	0.56
Jammu & Kashmir	57	0.52	2450.93	0.54
Jharkhand	282	2.57	30344.92	6.67
Karnataka	545	4.96	47653.07	10.48
Kerala	91	0.83	3077.84	0.68
Manipur	1	0.01	132.78	0.03
Meghalaya	18	0.16	606.19	0.13
Madhya Pradesh	1001	9.11	32882.58	7.23
Maharashtra	260	2.37	15454.61	3.40
Odisha	461	4.20	73594.13	16.18
Rajasthan	3306	30.10	84140.69	18.50
Sikkim	3	0.03	96.32	0.02
Tamil Nadu	931	8.48	9765.52	2.15
Uttar Pradesh	23	0.21	3964.70	0.87
Uttarakhand	83	0.76	1272.85	0.30
West Bengal	45	0.41	414.07	0.09
<b>All India</b>	<b>10982.00</b>	<b>100.00</b>	<b>454706.15</b>	<b>100.00</b>

\* Including Telangana.

**Table – 2: Mineral wise Summary of Lease Distribution  
As on 31/03/2014**

<b>Sl. No.</b>	<b>Minerals</b>	<b>No. of Leases</b>	<b>Area (In Hect.)</b>
1	Agate	3	59.62
2	Amethyst	4	10.63
3	Apatite	2	20.17
4	Asbestos	7	394.74
5	Ball Clay	88	1970.37
6	Barytes	160	2442.58
7	Bauxite	339	28613.60
8	Borax	1	159.00
9	Calcite	73	1223.23
10	Chalk	152	628.91
11	China clay	489	13304.07
12	Chromite	34	8955.19
13	Clay (others)	100	1191.25
14	Copper Ore	14	5324.67
15	Corundum	9	68.25
16	Diamond	2	275.96
17	Diaspore	11	77.38
18	Dolomite	543	7625.84
19	Dunite	1	14.28
20	Epidote	1	5.00
21	Felsite	6	102.29
22	Feldspar	1008	6099.36
23	Fireclay	235	4073.76
24	Flint Stone	2	11.87
25	Fluorite	9	1280.85
26	Garnet	94	1513.53
27	Garnet (Gem)	3	51.03

contd...

Table-2 (contd.)

<b>Sl. No.</b>	<b>Minerals</b>	<b>No. of Leases</b>	<b>Area (In Hect.)</b>
28	Gold	16	9869.36
29	Graphite	104	3510.60
30	Gypsum	107	14868.49
31	Iolite	11	104.35
32	Iron ore	664	86326.39
33	Jasper	2	10.00
34	Kyanite	33	3138.10
35	Laterite	208	2549.59
36	Lead & Zinc ore	12	6997.28
37	Lime Kankar	7	37.18
38	Limeshell	26	3748.17
39	Limestone	1923	150906.80
40	Magnesite	34	1931.57
41	Manganese ore	308	20383.98
42	Marl	1	4.90
43	Mica	244	4417.21
44	Moulding sand	33	723.51
45	Ochre	157	1939.98
46	Perlite	1	144.88
47	Phosphorite	10	2120.90
48	Pyrophyllite	94	1231.23
49	Pyroxenite	11	95.39
50	Quartz	2427	18336.46
51	Quartzite	80	1423.62
52	Ruby	6	130.00
53	Sand (others)	44	3110.06
54	Sapphire	1	673.40

contd...

Table-2 (concl.)

<b>Sl. No.</b>	<b>Minerals</b>	<b>No. of Leases</b>	<b>Area (In Hect.)</b>
55	Shale	31	403.34
56	Silica sand	453	12461.06
57	Sillimanite	6	2823.26
58	Slate	17	627.82
59	Steatite	428	12808.30
60	Tin	16	324.66
61	Vermiculite	12	185.53
62	White clay	40	633.34
63	White shale	15	77.34
64	Wollastonite	10	130.67
	<b>Total</b>	<b>10982</b>	<b>454706.15</b>

**Table – 3 : State wise/Mineral wise Distribution of Mining Leases  
As on 31.3.2014**

<b>State</b>	<b>Minerals</b>	<b>No. of Leases</b>	<b>Area (In Hect.)</b>
<b>Andhra Pradesh*</b>	Amethyst	4	10.63
	Apatite	1	16.12
	Asbestos	5	228.17
	Ball Clay	26	197.58
	Barytes	150	2206.32
	Calcite	9	77.81
	China Clay	24	480.45
	Clay (Others)	14	398.57
	Corundum	6	30.88
	Dolomite	154	2702.90
	Feldspar	26	611.74
	Fireclay	30	103.86
	Garnet	11	844.10
	Gold	4	1031.84
	Iron ore	67	2367.31
	Laterite	136	1267.46
	Lead & Zinc ore	1	15.89
	Lime kankar	6	29.44
	Limeshell	4	87.63
	Limestone	262	32220.56
	Manganese ore	50	1485.31
	Mica	120	1820.76
	Moulding sand	1	13.19
	Ochre	32	319.36
Pyrophyllite	13	489.45	
Quartz	532	6141.46	
Quartzite	38	779.31	
Sand (others)	12	1181.25	

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
<b>Andhra Pradesh*</b> (Concl'd.)	Shale	14	293.75
	Silica sand	130	2321.04
	Slate	15	504.12
	Steatite	99	832.81
	Vermiculite	7	126.02
	White clay	20	155.57
	White shale	15	77.34
	<b>Total</b>	<b>2038</b>	<b>61470</b>
<b>Assam</b>	Limestone	7	889.50
	<b>Total</b>	<b>7</b>	<b>889.50</b>
<b>Bihar</b>	Limestone	6	166.06
	Mica	2	1196.8
	Quartz	1	19.8
	<b>Total</b>	<b>9</b>	<b>1382.66</b>
<b>Chhattisgarh</b>	Bauxite	25	4760.73
	China clay	1	2.29
	Corundum	2	27.25
	Dolomite	79	540.19
	Fireclay	3	7.31
	Graphite	1	67.11
	Iron ore	17	7820.19
	Limestone	124	8369.46
	Moulding sand	6	33.65
	Ochre	1	10.12

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
<b>Chhattisgarh (concl.d.)</b>	Quartz	11	36.50
	Quartzite	11	80.12
	Steatite	3	6.62
	Tin	15	303.81
	White shale	1	5.50
	<b>Total</b>	<b>300</b>	<b>22070.85</b>
<b>Goa</b>	Bauxite	3	1304.58
	Iron ore	229	16456.87
	Manganese ore	35	2130.56
	<b>Total</b>	<b>267</b>	<b>19892.01</b>
<b>Gujarat</b>	Agate	1	4.64
	Ball clay	6	197.86
	Bauxite	147	5406.05
	Calcite	4	10.33
	Chalk	152	628.91
	China clay	122	1557.56
	Clay (others)	81	772.76
	Copper ore	1	832.00
	Dolomite	80	954.90
	Feldspar	1	1.00
	Fireclay	63	276.56
	Fluorite	2	63.20
	Gypsum	7	86.87
	Laterite	5	617.5
	Limestone	298	16717.01
	Manganese ore	1	2.95

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
<b>Gujarat (concl.)</b>	Marl	1	4.90
	Moulding sand	3	5.82
	Ochre	5	47.29
	Perlite	1	144.88
	Quartz	38	251.25
	Silica sand	73	1014.77
	Steatite	4	18.17
	White clay	4	15.37
	<b>Total</b>	<b>1100</b>	<b>29632.55</b>
<b>Haryana</b>	Barytes	1	79.32
	Calcite	2	158.56
	China clay	39	3438.99
	Dolomite	2	252.15
	Feldspar	1	128.95
	Limestone	7	109.46
	Mica	1	400.00
	Quartz	14	675.14
	Quartzite	4	68.24
	Silica sand	37	5540.48
	Slate	2	123.70
	<b>Total</b>	<b>110</b>	<b>10974.99</b>
<b>Himachal Pradesh</b>	Barytes	3	8.42
	Limestone	40	2529.09
	Quartzite	1	4.88
	<b>Total</b>	<b>44</b>	<b>2542.39</b>

contd...



Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
<b>Jammu &amp; Kashmir</b>	Borax	1	159.00
	China clay	1	14.70
	Gypsum	21	423.75
	Limestone	32	694.78
	Magnesite	1	485.30
	Sapphire	1	673.40
	<b>Total</b>	<b>57</b>	<b>2450.93</b>
<b>Jharkhand</b>	Bauxite	45	4325.82
	China clay	20	1227.42
	Copper ore	3	2312.77
	Dolomite	3	197.94
	Feldspar	13	110.85
	Fireclay	16	779.76
	Flint Stone	2	11.87
	Gold	1	19.50
	Graphite	18	970.77
	Iron ore	51	12470.10
	Kyanite	10	2658.27
	Limestone	44	4138.12
	Ochre	1	5.62
	Pyrophyllite	1	8.84
	Pyroxenite	11	95.39
	Quartz	22	254.34
	Quartzite	3	28.23
	Sand (others)	13	665.04
Steatite	5	64.27	
<b>Total</b>	<b>282</b>	<b>30344.92</b>	

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Karnataka	Barytes	1	3.82
	Bauxite	5	370.02
	China clay	14	855.08
	Chromite	6	1306.39
	Copper ore	2	416.83
	Corundum	1	10.12
	Dolomite	21	427.32
	Felsite	6	102.29
	Feldspar	5	134.47
	Fireclay	3	36.41
	Gold	9	6828.14
	Graphite	4	235.03
	Iron ore	123	14872.14
	Kyanite	7	47.97
	Laterite	4	102.08
	Lime kankar	1	7.74
	Limeshell	16	1451.03
	Limestone	140	14994.73
	Magnesite	9	163.83
	Manganese ore	53	3440.22
	Moulding sand	19	616.42
	Quartz	54	758.59
	Quartzite	2	8.09
	Ruby	3	9.20
Silica sand	31	342.29	
Steatite	4	104.51	
Vermiculite	2	8.31	
	<b>Total</b>	<b>545</b>	<b>47653.07</b>

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
<b>Kerala</b>	Bauxite	2	0.72
	China clay	31	97.68
	Graphite	1	1.25
	Iron ore	1	86.06
	Laterite	9	32.79
	Limeshell	5	2204.90
	Limestone	1	245.69
	Quartz	1	4.80
	Quartzite	1	2.02
	Silica sand	35	47.36
	Sillimanite	4	354.57
	<b>Total</b>	<b>91</b>	<b>3077.84</b>
<b>Madhya Pradesh</b>	Barytes	1	2.02
	Bauxite	67	991.35
	Calcite	18	51.64
	China clay	9	94.19
	Clay (others)	4	15.25
	Copper ore	2	960.00
	Diamond	2	275.96
	Diaspore	11	77.38
	Dolomite	176	869.66
	Fireclay	36	235.56
	Iron ore	19	243.56
	Laterite	49	428.59
	Lead & Zinc ore	2	11.16
	Limestone	375	25041.92
	Manganese ore	80	1803.32

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
<b>Madhya Pradesh (concl.)</b>	Ochre	50	699.95
	Phosphorite	4	112.97
	Pyrophyllite	50	274.22
	Quartz	6	47.68
	Quartzite	1	6.10
	Sand (others)	2	15.66
	Shale	15	72.20
	Silica sand	1	0.60
	Steatite	7	89.59
	Vermiculite	2	27.49
	White clay	12	434.56
	<b>Total</b>	<b>1001</b>	<b>32882.58</b>
<b>Maharashtra</b>	Agate	2	54.98
	Bauxite	33	4363.87
	China clay	1	13.18
	Chromite	1	16.22
	Dolomite	17	284.23
	Feldspar	2	53.65
	Fireclay	4	35.11
	Fluorite	1	32.70
	Iron ore	26	1177.22
	Kyanite	12	222.37
	Laterite	5	101.17
	Limestone	53	5532.79
	Manganese ore	42	1037.04
	Mica	1	42.06
Moulding sand	1	47.02	

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
<b>Maharashtra (concl.)</b>	Quartz	9	83.20
	Sand (others)	12	745.24
	Shale	1	32.49
	Silica sand	34	1557.73
	White clay	3	22.34
	<b>Total</b>	<b>260</b>	<b>15454.61</b>
<b>Manipur</b>	Chromite	1	132.78
	<b>Total</b>	<b>1</b>	<b>132.78</b>
<b>Meghalaya</b>	Limestone	16	596.65
	Shale	1	4.90
	Sillimanite	1	4.64
	<b>Total</b>	<b>18</b>	<b>606.19</b>
<b>Odisha</b>	Asbestos	2	166.57
	Bauxite	8	6673.47
	China clay	14	1249.69
	Chromite	26	7499.80
	Dolomite	5	523.63
	Dunite	1	14.28
	Fireclay	17	1605.62
	Garnet (Gems)	2	46.03
	Graphite	73	1958.92
	Iolite	11	104.35
	Iron ore	117	30671.86
	Kyanite	1	55.49
	Lead & zinc ore	1	5.26
Limestone	39	7416.85	

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
<b>Odisha</b> (concl.)	Manganese ore	46	10465.69
	Pyrophyllite	5	231.22
	Quartz	59	1069.93
	Quartzite	17	437.02
	Ruby	3	120.80
	Sand (others)	5	502.87
	Silica sand	1	17.45
	Sillimanite	1	2464.05
	Steatite	6	272.43
	Tin	1	20.85
	<b>Total</b>	<b>461</b>	<b>73594.13</b>
<b>Rajasthan</b>	Ball clay	56	1574.93
	Barytes	4	142.68
	Calcite	40	924.89
	China clay	189	3933.97
	Clay (others)	1	4.67
	Copper Ore	3	706.75
	Dolomite	5	202.35
	Epidote	1	5.00
	Feldspar	960	5058.70
	Fireclay	12	859.61
	Fluorite	6	1184.95
	Garnet	9	44.15
	Garnet (Gem)	1	5.00
	Gold	2	1989.88
	Gypsum	64	14317.92
	Iron ore	14	161.08
	Jasper	2	10.00
Kyanite	3	154.00	

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
<b>Rajasthan</b> (concl.)	Lead & Zinc ore	8	6964.97
	Limestone	35	21405.22
	Magnesite	4	19.75
	Manganese ore	1	18.89
	Mica	120	957.59
	Ochre	67	851.87
	Phosphorite	5	1994.46
	Pyrophyllite	10	47.24
	Quartz	1381	8445.90
	Quartzite	1	4.91
	Silica sand	73	1492.19
	Steatite	219	10526.50
	Wollastonite	10	130.67
	<b>Total</b>	<b>3306</b>	<b>84140.69</b>
<b>Sikkim</b>	Copper ore	3	96.32
	<b>Total</b>	<b>3</b>	<b>96.32</b>
<b>Tamil Nadu</b>	Apatite	1	4.05
	Bauxite	4	416.99
	Fireclay	48	120.88
	Garnet	74	625.28
	Graphite	7	277.52
	Gypsum	15	39.95
	Limeshell	1	4.61
	Limestone	434	6728.97
	Magnesite	17	895.41
	Quartz	289	521.83
	Silica sand	33	81.18

contd...

Table-3 (concl.d.)

State	Minerals	No. of Leases	Area (In Hect.)
<b>Tamil Nadu</b> (concl.d.)	Steatite	7	25.14
	Vermiculite	1	23.71
	<b>Total</b>	<b>931</b>	<b>9765.52</b>
<b>Uttar Pradesh</b>	Dolomite	1	670.57
	Limestone	4	3072.63
	Pyrophyllite	15	180.26
	Silica sand	3	41.24
	<b>Total</b>	<b>23</b>	<b>3964.70</b>
<b>Uttarakhand</b>	Limestone	6	37.31
	Magnesite	3	367.28
	Steatite	74	868.26
	<b>Total</b>	<b>83</b>	<b>1272.85</b>
<b>West Bengal</b>	China clay	24	338.87
	Fireclay	3	13.08
	Moulding sand	3	7.41
	Ochre	1	5.77
	Phosphorite	1	13.47
	Quartz	10	26.04
	Quartzite	1	4.70
	Silica sand	2	4.73
<b>Total</b>	<b>45</b>	<b>414.07</b>	

\*Including Telangana



**Table-4 : State wise/District wise /Mineral wise Distribution of Mining Leases  
As on 31.3.2014**

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh*	Adilabad	Laterite	3	13.24
		Limestone	11	2382.90
		Manganese ore	14	731.92
		Quartz	2	9.40
		Sand (others)	2	294.00
		White clay	16	129.19
		<b>Total</b>	<b>48</b>	<b>3560.65</b>
	Anantapur	Barytes	3	12.96
		Calcite	1	4.68
		Corundum	2	13.41
		Dolomite	64	914.87
		Feldspar	4	74.55
		Gold	1	168.43
		Iron ore	8	196.59
		Limestone	27	1500.08
		Ochre	3	22.11
		Pyrophyllite	3	217.17
		Quartz	28	457.81
		Steatite	33	377.08
		<b>Total</b>	<b>177</b>	<b>3959.74</b>
		Chittoor	China clay	2
	Feldspar		1	3.78
	Gold		2	265.59
	Pyrophyllite		3	20.73
	Quartz		14	130.76
	Quartzite		1	15.34
	Steatite		1	1.53
	White shale		1	6.68
	<b>Total</b>	<b>25</b>	<b>467.06</b>	
	Cuddapah	Asbestos	5	228.17
		Barytes	123	1599.42
		China clay	5	390.04
		Clay (others)	11	388.93

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh* (contd.)	Cuddapah (concl.)	Dolomite	20	701.79
		Feldspar	15	413.51
		Iron ore	10	971.06
		Laterite	1	28.06
		Lead & Zinc ore	1	15.89
		Limestone	22	3060.70
		Ochre	15	111.32
		Pyrophyllite	7	251.55
		Quartz	19	490.98
		Quartzite	5	209.12
		Shale	7	83.60
		Silica sand	1	18.70
		Steatite	2	40.13
		<b>Total</b>	<b>269</b>	<b>9002.97</b>
		Godavari East	China clay	13
	Fireclay		25	61.73
	Laterite		33	435.66
	<b>Total</b>		<b>71</b>	<b>521.62</b>
	Godavari West	Ball clay	26	197.58
		Fireclay	3	34.03
		Quartz	6	76.64
		<b>Total</b>	<b>35</b>	<b>308.25</b>
	Guntur	Laterite	1	1.97
		Limestone	38	5923.50
		Quartz	14	166.07
		Slate	1	19.61
		White clay	2	13.61
		White shale	1	33.01
	<b>Total</b>	<b>57</b>	<b>6157.77</b>	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh* (contd.)	Karimnagar	Iron ore	2	4.00
		Limestone	1	122.28
		Quartz	2	27.51
		Sand (others)	5	601.71
		Silica sand	1	10.00
		<b>Total</b>	<b>11</b>	<b>765.50</b>
	Khammam	Barytes	5	304.13
		Corundum	4	17.47
		Dolomite	11	540.41
		Feldspar	3	75.25
		Garnet	4	19.94
		Iron ore	6	53.26
		Laterite	1	4.61
		Mica	1	21.85
		Quartz	17	45.46
		Sand (others)	3	89.73
		<b>Total</b>	<b>55</b>	<b>1172.11</b>
	Krishna	Iron ore	5	25.26
		Limestone	15	3220.30
		Quartz	9	22.47
		<b>Total</b>	<b>29</b>	<b>3268.03</b>
	Kurnool	Barytes	5	36.92
		China clay	1	12.14
		Dolomite	57	537.54
		Gold	1	597.82
		Iron ore	29	457.40
		Limestone	105	9091.27
		Ochre	14	185.93
		Quartz	19	197.81

contd....

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh* (contd.)	Kurnool (concl'd.)	Quartzite	4	34.72
		Shale	4	16.99
		Silica sand	39	1068.66
		Steatite	62	411.57
		White shale	13	37.65
		<b>Total</b>	<b>353</b>	<b>12686.42</b>
	Mahbubnagar	Feldspar	3	44.65
		Limestone	1	173.64
		Quartz	136	865.77
		Steatite	1	2.50
		<b>Total</b>	<b>141</b>	<b>1086.56</b>
	Medak	Laterite	10	56.70
		Quartz	27	195.25
		<b>Total</b>	<b>37</b>	<b>251.95</b>
	Nalgonda	Amethyst	1	4.94
		Laterite	8	25.74
		Limestone	36	5416.56
		Quartz	22	157.69
		Shale	2	60.04
		<b>Total</b>	<b>69</b>	<b>5664.97</b>
	Nellore	Barytes	4	49.56
		Iron ore	2	113.91
		Laterite	14	86.54
		Limeshell	3	83.63
		Mica	117	1794.21
		Moulding sand	1	13.19
		Quartz	93	1158.21

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh* (contd.)	Nellore (Concl.)	Silica sand	75	1200.87
		Vermiculite	7	126.02
		<b>Total</b>	<b>316</b>	<b>4626.14</b>
	Nizamabad	Amethyst	1	4.00
		Iron ore	1	6.68
		Laterite	4	47.71
		Quartz	6	20.58
		<b>Total</b>	<b>12</b>	<b>78.97</b>
		Prakasam	Barytes	10
	Garnet		4	4.71
	Iron ore		4	539.15
	Quartz		74	1731.04
	Silica sand		13	15.31
	Slate		14	484.51
	<b>Total</b>		<b>119</b>	<b>2978.05</b>
	Rangareddi	Amethyst	2	1.69
		Clay (others)	3	9.64
		Fireclay	2	8.10
		Laterite	23	267.42
		Limestone	5	1327.71
		Quartz	26	168.33
		Shale	1	133.12
		<b>Total</b>	<b>62</b>	<b>1916.01</b>
	Srikakulam	Garnet	2	815.08
		Lime kankar	2	10.98
		Limeshell	1	4.00
		Quartz	2	10.91

Contd..

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh* (concl.)	Srikakulam (concl.)	Quartzite	5	114.08
		Silica sand	1	7.50
		<b>Total</b>	<b>13</b>	<b>962.55</b>
	Visakhapatnam	Apatite	1	16.12
		Calcite	8	73.13
		China clay	3	31.39
		Garnet	1	4.37
		Laterite	6	67.43
		Limestone	1	1.62
		Mica	2	4.70
		Quartz	8	115.53
		White clay	2	12.77
		<b>Total</b>	<b>32</b>	<b>327.06</b>
	Vizianagaram	Lime kankar	4	18.46
		Manganese ore	36	753.39
		Quartz	7	82.17
		Quartzite	23	406.05
		Sand (others)	2	195.81
		<b>Total</b>	<b>72</b>	<b>1455.88</b>
	Warangal	Dolomite	2	8.29
Laterite		32	232.38	
Quartz		1	11.07	
<b>Total</b>		<b>35</b>	<b>251.74</b>	
Assam	Karbi Anglong	Limestone	1	171.00
		<b>Total</b>	<b>1</b>	<b>171.00</b>
Assam	North Cachar Hills	Limestone	6	718.50
		<b>Total</b>	<b>6</b>	<b>718.50</b>

Contd..

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Bihar	Nawada	Mica	2	1196.80
		<b>Total</b>	<b>2</b>	<b>1196.80</b>
	Rohtas	Limestone	6	166.06
		<b>Total</b>	<b>6</b>	<b>166.06</b>
	Supaul	Quartz	1	19.80
		<b>Total</b>	<b>1</b>	<b>19.80</b>
Chhattisgarh	Balod	Iron ore	4	2562.69
		<b>Total</b>	<b>4</b>	<b>2562.69</b>
	Baloda Bazar	Dolomite	2	17.59
		Limestone	23	5154.96
		<b>Total</b>	<b>25</b>	<b>5172.55</b>
	Balrampur	Bauxite	3	3742.63
		Graphite	1	67.11
		<b>Total</b>	<b>4</b>	<b>3809.74</b>
	Bastar	Limestone	20	61.06
		<b>Total</b>	<b>20</b>	<b>61.06</b>
Bemetara	Dolomite	27	124.46	
	Limestone	1	17.90	
	<b>Total</b>	<b>28</b>	<b>142.36</b>	
Bijapur	Tin	1	3.70	
	<b>Total</b>	<b>1</b>	<b>3.70</b>	

Contd..

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
<b>Chhattisgarh (contd.)</b>	<b>Bilaspur</b>	Dolomite	30	257.51
		Limestone	1	582.96
		<b>Total</b>	<b>31</b>	<b>840.47</b>
	<b>Dantewara</b>	Iron ore	6	2696.21
		Tin	8	116.15
		<b>Total</b>	<b>14</b>	<b>2812.36</b>
	<b>Durg</b>	Limestone	45	1345.65
		Moulding sand	3	12.12
		Quartz	1	4.69
		Quartzite	3	24.08
		<b>Total</b>	<b>52</b>	<b>1386.54</b>
	<b>Janjgir-Champa</b>	Dolomite	10	96.37
		Limestone	3	713.32
		<b>Total</b>	<b>13</b>	<b>809.69</b>
	<b>Jashpur</b>	Bauxite	2	40.61
		Quartz	2	4.36
		<b>Total</b>	<b>4</b>	<b>44.97</b>
	<b>Kabirdham</b>	Bauxite	3	669.64
		Limestone	4	21.59
		<b>Total</b>	<b>7</b>	<b>691.23</b>
	<b>Kanker</b>	Bauxite	3	13.22
		Iron ore	4	2178.33
		Moulding sand	1	13.84
		Steatite	3	6.62
<b>Total</b>		<b>11</b>	<b>2212.01</b>	

contd.



Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Chhattisgarh (contd.)	Kondagaon	Bauxite	2	27.28
		<b>Total</b>	<b>2</b>	<b>27.28</b>
	Korba	Fireclay	1	1.59
		<b>Total</b>	<b>1</b>	<b>1.59</b>
	Mahasamund	Fireclay	1	0.77
		Quartz	6	13.50
		<b>Total</b>	<b>7</b>	<b>14.27</b>
	Narayanpur	Iron ore	1	192.25
		<b>Total</b>	<b>1</b>	<b>192.25</b>
	Raigarh	Dolomite	10	44.26
		Fireclay	1	4.95
		Limestone	6	18.84
		Quartzite	2	26.40
		<b>Total</b>	<b>19</b>	<b>94.45</b>
	Raipur	Limestone	20	448.53
		<b>Total</b>	<b>20</b>	<b>448.53</b>
	Rajnandgaon	China clay	1	2.29
		Iron ore	2	190.71
		Limestone	1	4.65
		Moulding sand	2	7.69
		Ochre	1	10.12
		Quartz	2	13.95
		Quartzite	6	29.64
White clay		1	5.50	
<b>Total</b>	<b>16</b>	<b>264.55</b>		

contd.

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)	
Chhattisgarh (concl.)	Sukma	Corundum	2	27.25	
		Tin	6	183.96	
		<b>Total</b>	<b>8</b>	<b>211.21</b>	
	Surguja	Bauxite	12	267.35	
		<b>Total</b>	<b>12</b>	<b>267.35</b>	
	Goa	North Goa	Iron ore	76	5639.03
Manganese ore			10	589.27	
<b>Total</b>			<b>86</b>	<b>6228.30</b>	
South Goa		Bauxite	3	1304.58	
		Iron ore	153	10817.84	
		Manganese ore	25	1541.29	
		<b>Total</b>	<b>181</b>	<b>13663.71</b>	
Gujarat		Amreli	Bauxite	1	12.68
			China clay	3	273.63
			Clay (others)	1	88.54
	Limestone		5	1864.77	
	<b>Total</b>		<b>10</b>	<b>2239.62</b>	
	Aravali	Bauxite	4	16.39	
		Felspar	1	1.00	
		Steatite	4	18.17	
		<b>Total</b>	<b>9</b>	<b>35.56</b>	
	Banaskantha	Calcite	1	3.76	
		Copper ore	1	832.00	
		Limestone	1	21.24	
		<b>Total</b>	<b>3</b>	<b>857.00</b>	

Contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Gujarat (contd.)	Bharuch	Agate	1	4.64
		Ball clay	1	183.87
		Silica sand	25	593.96
		<b>Total</b>	<b>27</b>	<b>782.47</b>
	Bhavnagar	Chalk	1	12.00
		Clay (others)	1	9.71
		Dolomite	4	68.09
		Limestone	1	20.00
		Moulding sand	1	2.80
		<b>Total</b>	<b>8</b>	<b>112.60</b>
	Chhota Udaipur	Dolomite	76	886.81
		Fluorite	2	63.20
		<b>Total</b>	<b>78</b>	<b>950.01</b>
	Dahod	Quartz	6	43.52
		<b>Total</b>	<b>6</b>	<b>43.52</b>
	Devbhoomi Dwarka	Bauxite	109	3129.80
		Clay (Others)	3	28.78
		Limestone	33	1218.38
		Marl	1	4.90
		Ochre	1	20.23
		<b>Total</b>	<b>147</b>	<b>4402.09</b>
	Gir Somnath	Limestone	57	1496.46
		<b>Total</b>	<b>57</b>	<b>1496.46</b>
Jamnagar	Chalk	12	41.55	
	Limestone	23	888.56	
	<b>Total</b>	<b>35</b>	<b>930.11</b>	

Contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Gujarat (contd.)	Junagarh	Limestone	45	1992.99
		<b>Total</b>	<b>45</b>	<b>1992.99</b>
	Kheda	Bauxite	14	64.17
		Quartz	5	19.27
		<b>Total</b>	<b>19</b>	<b>83.44</b>
	Kachchh	Ball clay	4	8.50
		Bauxite	11	2049.46
		China clay	99	633.76
		Clay (others)	69	534.12
		Fireclay	1	3.00
		Gypsum	5	83.63
		Laterite	4	526.97
		Limestone	9	5741.88
		Ochre	1	4.00
		Silica sand	8	185.41
		White clay	1	5.00
		<b>Total</b>	<b>212</b>	<b>9775.73</b>
	Mehesana	China clay	12	253.10
		<b>Total</b>	<b>12</b>	<b>253.10</b>
	Morbi	Fireclay	20	86.56
		Gypsum	2	3.24
		Silica sand	3	12.50
		<b>Total</b>	<b>25</b>	<b>102.30</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Gujarat (contd.)	Panchmahal	Limestone	1	0.49
		Manganese ore	1	2.95
		Quartz	27	188.46
		Sillica Sand	1	5.00
		<b>Total</b>	<b>30</b>	<b>196.90</b>
	Patan	Ball clay	1	5.49
		China clay	1	36.22
		Clay (others)	5	103.82
		Ochre	3	23.06
		White clay	3	10.37
		<b>Total</b>	<b>13</b>	<b>178.96</b>
	Porbandar	Bauxite	6	112.39
		Chalk	114	488.76
		Laterite	1	90.53
		Limestone	116	2413.27
		<b>Total</b>	<b>237</b>	<b>3104.95</b>
	Rajkot	Chalk	25	86.60
		Fireclay	2	8.12
		Limestone	3	12.00
		Perlite	1	144.88
		<b>Total</b>	<b>31</b>	<b>251.60</b>
Sabarkantha	Bauxite	2	21.16	
	Calcite	3	6.57	
	China clay	7	360.85	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)	
Gujarat (concl.)	Sabarkantha (concl.)	Fireclay	4	8.05	
		Limestone	2	2.53	
		Silica sand	12	72.54	
		<b>Total</b>	<b>30</b>	<b>471.70</b>	
	Surat	Limestone	2	1044.44	
		Silica sand	1	6.52	
		<b>Total</b>	<b>3</b>	<b>1050.96</b>	
	Surendranagar	Clay (others)	2	7.79	
		Fireclay	36	170.83	
		Moulding sand	2	3.02	
		Silica sand	23	138.84	
		<b>Total</b>	<b>63</b>	<b>320.48</b>	
	Haryana	Faridabad	China clay	2	267.87
			Silica sand	22	4492.97
			<b>Total</b>	<b>24</b>	<b>4760.84</b>
Gurgaon		China clay	37	3171.12	
		Quartz	4	97.94	
		Quartzite	2	47.78	
		Silica sand	15	1047.51	
		<b>Total</b>	<b>58</b>	<b>4364.35</b>	
Mahendragarh		Barytes	1	79.32	
		Calcite	2	158.56	
		Dolomite	2	252.15	
		Feldspar	1	128.95	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)	
Haryana (concl.)	Mahendragarh (concl.)	Limestone	7	109.46	
		Mica	1	400.00	
		Quartz	10	577.20	
		Slate	1	81.35	
		<b>Total</b>	<b>25</b>	<b>1786.99</b>	
	Rewari	Quartzite	2	20.46	
		Slate	1	42.35	
		<b>Total</b>	<b>3</b>	<b>62.81</b>	
	Himachal Pradesh	Bilaspur	Limestone	1	231.25
			Quartzite	1	4.88
<b>Total</b>			<b>2</b>	<b>236.13</b>	
Mandi		Limestone	1	725.86	
		<b>Total</b>	<b>1</b>	<b>725.86</b>	
Sirmur		Barytes	3	8.42	
		Limestone	35	489.48	
		<b>Total</b>	<b>38</b>	<b>497.90</b>	
Solan		Limestone	3	1082.50	
		<b>Total</b>	<b>3</b>	<b>1082.50</b>	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Jammu & Kashmir	Anantnag	Limestone	22	216.15
		<b>Total</b>	<b>22</b>	<b>216.15</b>
	Baramula	Gypsum	13	65.46
		<b>Total</b>	<b>13</b>	<b>65.46</b>
	Doda	Gypsum	5	105.13
		<b>Total</b>	<b>5</b>	<b>105.13</b>
	Kishtwar	Sapphire	1	673.40
		<b>Total</b>	<b>1</b>	<b>673.40</b>
	Leh	Borax	1	159.00
		<b>Total</b>	<b>1</b>	<b>159.00</b>
	Poonch	Limestone	1	15.89
		<b>Total</b>	<b>1</b>	<b>15.89</b>
	Pulwama	Limestone	7	240.53
		<b>Total</b>	<b>7</b>	<b>240.53</b>
	Ramban	Gypsum	3	253.16
		<b>Total</b>	<b>3</b>	<b>253.16</b>
	Reasi	Magnesite	1	485.30
		<b>Total</b>	<b>1</b>	<b>485.30</b>
	Srinagar	Limestone	2	222.21
<b>Total</b>		<b>2</b>	<b>222.21</b>	

contd...



Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
<b>Jammu &amp; Kashmir</b> (concl.)	<b>Udhampur</b>	China clay	1	14.70
		<b>Total</b>	<b>1</b>	<b>14.70</b>
<b>Jharkhand</b>	<b>Bokaro</b>	Limestone	1	17.36
		Sand (others)	2	81.03
		<b>Total</b>	<b>3</b>	<b>98.39</b>
	<b>Deoghar</b>	Feldspar	1	2.02
		Quartz	1	5.95
		<b>Total</b>	<b>2</b>	<b>7.97</b>
	<b>Dhanbad</b>	Fireclay	4	93.41
		Sand (others)	11	584.01
		<b>Total</b>	<b>15</b>	<b>677.42</b>
	<b>Garwah</b>	Dolomite	1	118.69
		Limestone	3	1178.92
		<b>Total</b>	<b>4</b>	<b>1297.61</b>
	<b>Giridih</b>	Feldspar	2	13.97
		Quartz	2	4.80
		<b>Total</b>	<b>4</b>	<b>18.77</b>
	<b>Godda</b>	Feldspar	1	18.82
<b>Total</b>		<b>1</b>	<b>18.82</b>	
<b>Gumla</b>	Bauxite	27	3065.94	
	<b>Total</b>	<b>27</b>	<b>3065.94</b>	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Jharkhand (contd.)	Hazaribagh	Feldspar	1	3.82
		Fireclay	1	6.06
		Limestone	2	84.85
		Quartz	1	8.20
		<b>Total</b>	<b>5</b>	<b>102.93</b>
	Jamtara	Feldspar	2	8.16
		Quartz	1	2.21
		<b>Total</b>	<b>3</b>	<b>10.37</b>
	Kodarma	Feldspar	3	14.54
		Quartz	3	11.91
		Steatite	1	1.08
		<b>Total</b>	<b>7</b>	<b>27.53</b>
	Latehar	Bauxite	2	475.87
		Feldspar	1	7.08
		Fireclay	11	680.29
		Iron ore	2	48.19
		Quartz	8	156.52
		<b>Total</b>	<b>24</b>	<b>1367.95</b>
	Lohardaga	Bauxite	16	784.01
		<b>Total</b>	<b>16</b>	<b>784.01</b>
	Palamau	Dolomite	2	79.25
		Graphite	18	970.77
		Iron ore	5	70.77

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Jharkhand (contd.)	Palamau(concl.d.)	Limestone	1	1043.43
		Steatite	1	4.77
		<b>Total</b>	<b>27</b>	<b>2168.99</b>
	Ramgarh	Limestone	5	109.66
		<b>Total</b>	<b>5</b>	<b>109.66</b>
	Ranchi	China clay	1	6.79
		Feldspar	2	42.44
		Limestone	4	1288.72
		<b>Total</b>	<b>7</b>	<b>1337.95</b>
	Sahebganj	China clay	10	193.36
		Flint Stone	02	11.87
		<b>Total</b>	<b>12</b>	<b>205.23</b>
	Saraikela-Kharaswan	Kyanite	4	800.86
		Pyrophyllite	1	8.84
		Pyroxenite	3	25.84
		Quartz	5	62.73
		Steatite	1	31.36
		<b>Total</b>	<b>14</b>	<b>929.63</b>
	Singhbhum (East)	Copper ore	3	2312.77
		Gold	1	19.50
		Kyanite	1	2.43
		Limestone	23	373.83
		<b>Total</b>	<b>28</b>	<b>2708.53</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Jharkhand (concl.)	Singhbhum (West)	China clay	9	1027.27
		Iron ore	44	12351.14
		Kyanite	5	1854.98
		Limestone	5	41.35
		Ochre	1	5.62
		Pyroxenite	8	69.55
		Quartz	1	2.02
		Quartzite	3	28.23
		Steatite	2	27.06
		<b>Total</b>	<b>78</b>	<b>15407.22</b>
Karnataka	Bagalkot	Barytes	1	3.82
		Dolomite	14	301.84
		Iron ore	3	74.84
		Limestone	87	5542.98
		Quartz	1	4.05
		<b>Total</b>	<b>106</b>	<b>5927.53</b>
	Bengaluru	China clay	1	48.56
		Corundum	1	10.12
		Feldspar	4	131.91
		Fireclay	1	2.02
		Ruby	1	4.07
		<b>Total</b>	<b>8</b>	<b>196.68</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Karnataka (contd.)	Belgaum	Bauxite	5	370.02
		China clay	3	74.22
		Dolomite	4	15.87
		Iron ore	1	20.23
		Laterite	3	100.06
		Limestone	19	1559.11
		Manganese ore	1	40.47
		Moulding sand	3	31.57
		Quartz	1	0.81
		Quartzite	2	8.09
		Silica sand	2	8.96
		<b>Total</b>	<b>44</b>	<b>2229.41</b>
	Bellary	Iron ore	85	8341.36
		Manganese ore	7	405.16
		Moulding sand	1	4.04
		Quartz	7	63.80
		Steatite	1	1.30
		<b>Total</b>	<b>101</b>	<b>8815.66</b>
	Chickballapura	China clay	4	352.91
		Feldspar	1	2.56
		Fireclay	2	34.39
		Laterite	1	2.02
		Quartz	2	65.46
		<b>Total</b>	<b>10</b>	<b>457.34</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Karnataka (contd.)	Chikmagalur	Dolomite	1	4.45
		Iron ore	2	4610.31
		Quartz	1	7.41
		<b>Total</b>	<b>4</b>	<b>4622.17</b>
	Chitradurga	Copper ore	2	416.83
		Iron ore	13	595.90
		Limestone	13	1538.15
		Manganese ore	22	964.31
		Quartz	8	259.01
		<b>Total</b>	<b>58</b>	<b>3774.20</b>
	Dawangere	Iron ore	1	38.44
		Manganese ore	4	79.51
		Moulding sand	5	165.51
		Quartz	3	26.31
		<b>Total</b>	<b>13</b>	<b>309.77</b>
	Gadag	Iron ore	4	190.37
		Quartz	2	9.71
		<b>Total</b>	<b>6</b>	<b>200.08</b>
	Gulbarga	Gold	1	55.75
		Limestone	15	5941.22
		Moulding sand	1	91.00
		Quartz	2	32.29
		<b>Total</b>	<b>19</b>	<b>6120.26</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Karnataka (contd.)	Hassan	China clay	2	311.81
		Chromite	6	1306.39
		Kyanite	1	2.93
		Quartz	4	110.27
		Steatite	1	80.93
		<b>Total</b>	<b>14</b>	<b>1812.33</b>
	Haveri	Moulding sand	5	199.49
		<b>Total</b>	<b>5</b>	<b>199.49</b>
	Kolar	Gold	1	5213.21
		<b>Total</b>	<b>1</b>	<b>5213.21</b>
	Koppal	Quartz	9	84.96
		<b>Total</b>	<b>9</b>	<b>84.96</b>
	Mandya	Felsite	2	2.88
		Quartz	3	23.09
		Ruby	1	1.64
		<b>Total</b>	<b>6</b>	<b>27.61</b>
	Mysore	Felsite	4	99.41
		Graphite	4	235.03
		Kyanite	5	42.61
		Limestone	1	20.23
		Magnesite	9	163.83
		Quartz	2	4.98
		Ruby	1	3.49
		Vermiculite	2	8.31
		<b>Total</b>	<b>28</b>	<b>577.89</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
<b>Karnataka (Contd.)</b>	<b>North Kannada (Uttar Kannada)</b>	Iron ore	5	522.29
		Limeshell	13	1143.06
		Manganese ore	9	811.48
		Quartz	1	1.82
		Silica sand	11	87.41
		<b>Total</b>	<b>39</b>	<b>2566.06</b>
	<b>Raichur</b>	Gold	6	1521.14
		Quartz	1	4.86
		<b>Total</b>	<b>7</b>	<b>1526.00</b>
	<b>Shimoga</b>	China clay	2	21.85
		Kyanite	1	2.43
		Limestone	1	40.12
		Manganese ore	2	543.60
		<b>Total</b>	<b>6</b>	<b>608.00</b>
	<b>South Kannada (Dakshina Kannada)</b>	Quartz	1	1.95
		<b>Total</b>	<b>1</b>	<b>1.95</b>
	<b>Tumkur</b>	China clay	2	45.73
		Dolomite	2	105.16
		Gold	1	38.04
		Iron ore	9	478.40
		Limestone	3	350.01
		Manganese ore	8	595.69
		Quartz	6	57.81
		Steatite	2	22.28
		<b>Total</b>	<b>33</b>	<b>1693.12</b>

contd...



Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)	
Karnataka (concl.)	Udupi	Limeshell	3	307.97	
		Silica sand	18	245.92	
		<b>Total</b>	<b>21</b>	<b>553.89</b>	
	Yadgir	Limekankar	1	7.74	
		Limestone	1	2.91	
		Moulding Sand	4	124.81	
		<b>Total</b>	<b>6</b>	<b>135.46</b>	
	Kerala	Alappuzha (Alleppey)	Laterite	1	1.13
			Limeshell	3	759.90
			Silica sand	35	47.36
<b>Total</b>			<b>39</b>	<b>808.39</b>	
Ernakulam		Graphite	1	1.25	
		<b>Total</b>	<b>1</b>	<b>1.25</b>	
Idukki (Iddiki)		Quartz	1	4.80	
		<b>Total</b>	<b>1</b>	<b>4.80</b>	
Kannur		Laterite	6	10.41	
		<b>Total</b>	<b>6</b>	<b>10.41</b>	
Kasargod		Laterite	2	21.25	
		<b>Total</b>	<b>2</b>	<b>21.25</b>	
Kollam		Bauxite	2	0.72	
		China clay	2	7.85	
	Sillimanite	4	354.57		
	<b>Total</b>	<b>8</b>	<b>363.14</b>		

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Kerala (concl.)	Kottayam	Limeshell	2	1445.00
		<b>Total</b>	<b>2</b>	<b>1445.00</b>
	Kozhikode	Iron ore	1	86.06
		Quartzite	1	2.02
		<b>Total</b>	<b>2</b>	<b>88.08</b>
	Palakkad	Limestone	1	245.69
		<b>Total</b>	<b>1</b>	<b>245.69</b>
	Thiruvananthapuram	China clay	29	89.83
		<b>Total</b>	<b>29</b>	<b>89.83</b>
	Madhya Pradesh	Alirajpur	Calcite	3
Dolomite			32	188.55
Limestone			1	2.15
Steatite			1	3.59
Vermiculite			2	27.49
<b>Total</b>			<b>39</b>	<b>235.22</b>
Anuppur		Bauxite	3	170.82
		Ochre	1	8.10
		<b>Total</b>	<b>4</b>	<b>178.92</b>
Badwani		Calcite	15	38.20
		<b>Total</b>	<b>15</b>	<b>38.20</b>
Balaghat		Bauxite	1	40.47
		Copper ore	2	960.00
		Dolomite	14	93.41
		Iron ore	1	4.95
		Limestone	2	10.11

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh (contd.)	Balaghat (concl.d.)	Manganese ore	61	1615.91
		Quartz	2	24.28
		Sand (others)	2	15.66
		<b>Total</b>	<b>85</b>	<b>2764.79</b>
	Betul	Lead & Zinc ore	2	11.16
		White clay	1	39.84
		<b>Total</b>	<b>3</b>	<b>51.00</b>
	Chhatarpur	China clay	2	20.12
		Diaspore	7	40.10
		Dolomite	2	17.28
		Limestone	2	4.91
		Ochre	4	23.61
		Phosphorite	1	48.76
		Pyrophyllite	21	81.73
		Quartzite	1	6.10
		Steatite	2	10.36
		<b>Total</b>	<b>42</b>	<b>252.97</b>
		Chhindwara	Dolomite	11
	Manganese ore		13	155.42
	<b>Total</b>		<b>24</b>	<b>229.61</b>
	Damoh	Laterite	1	2.02
		Limestone	8	2621.77
		<b>Total</b>	<b>9</b>	<b>2623.79</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh (contd.)	Dhar	Limestone	29	1248.64
		<b>Total</b>	<b>29</b>	<b>1248.64</b>
	Gwalior	Iron ore	3	19.90
		Quartz	1	1.30
		<b>Total</b>	<b>4</b>	<b>21.20</b>
	Jabalpur	Bauxite	4	26.35
		Dolomite	29	148.30
		Fireclay	9	42.12
		Iron ore	14	216.65
		Laterite	17	126.86
		Limestone	3	17.62
		Manganese ore	6	31.99
		Ochre	5	46.92
		Silica sand	1	0.60
		White clay	1	18.66
		<b>Total</b>	<b>89</b>	<b>676.07</b>
	Jhabua	Phosphorite	2	11.41
		<b>Total</b>	<b>2</b>	<b>11.41</b>
	Katni	Bauxite	24	367.77
		China clay	1	1.60
		Dolomite	31	159.84
		Fireclay	20	152.89
		Iron ore	1	2.06
		Laterite	15	153.34
		Limestone	146	5098.17
		Ochre	4	14.15

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh (contd.)	Katni (concl.)	Quartz	1	6.10
		Steatite	1	4.79
		White clay	2	3.64
		<b>Total</b>	<b>246</b>	<b>5964.35</b>
	Khargaon	Dolomite	1	4.05
		<b>Total</b>	<b>1</b>	<b>4.05</b>
	Mandla	Dolomite	40	124.04
		<b>Total</b>	<b>40</b>	<b>124.04</b>
	Mandsaur	Shale	15	72.20
		<b>Total</b>	<b>15</b>	<b>72.20</b>
	Narasinhapur	Dolomite	5	21.79
		Fireclay	2	23.30
		Limestone	3	7.14
		Steatite	2	55.24
		<b>Total</b>	<b>12</b>	<b>107.47</b>
	Nimach	Laterite	5	53.28
		Limestone	7	1339.94
		<b>Total</b>	<b>12</b>	<b>1393.22</b>
	Panna	Diamond	2	275.96
		Limestone	1	48.39
		<b>Total</b>	<b>3</b>	<b>324.35</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh (contd.)	Rewa	Bauxite	12	147.61
		Limestone	19	1867.18
		Ochre	3	47.37
		<b>Total</b>	<b>34</b>	<b>2062.16</b>
	Sagar	Dolomite	1	18.21
		Phosphorite	1	52.80
		<b>Total</b>	<b>2</b>	<b>71.01</b>
	Satna	Bauxite	20	227.85
		China clay	6	72.47
		Clay (others)	4	15.25
		Laterite	11	93.09
		Limestone	142	11696.26
		Ochre	23	384.16
		White clay	8	372.42
		<b>Total</b>	<b>214</b>	<b>12861.50</b>
	Seoni	Dolomite	10	20.00
		<b>Total</b>	<b>10</b>	<b>20.00</b>
	Shahdol	Ochre	4	126.60
		<b>Total</b>	<b>4</b>	<b>126.60</b>
	Shivpuri	Pyrophyllite	1	17.00
		<b>Total</b>	<b>1</b>	<b>17.00</b>
	Shyampur	Limestone	8	513.48
		Ochre	3	29.60
		<b>Total</b>	<b>11</b>	<b>543.08</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh (concl.)	Sidhi	Bauxite	3	10.48
		Limestone	4	566.16
		Steatite	1	15.61
		<b>Total</b>	<b>8</b>	<b>592.25</b>
	Tikamgarh	Barytes	1	2.02
		Diaspore	4	37.28
		Pyrophyllite	28	175.49
		Quartz	2	16.00
		<b>Total</b>	<b>35</b>	<b>230.79</b>
	Umaria	Fireclay	5	17.25
		Ochre	3	19.44
		<b>Total</b>	<b>8</b>	<b>36.69</b>
	Maharashtra	Amravati	Fireclay	3
<b>Total</b>			<b>3</b>	<b>29.97</b>
Bhandara		Chromite	1	16.22
		Kyanite	12	222.37
		Manganese ore	7	345.87
		Quartz	3	9.38
		Sand (others)	2	48.41
<b>Total</b>		<b>25</b>	<b>642.25</b>	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Maharashtra (contd.)	Chandrapur	Dolomite	1	60.10
		Fluorite	1	32.70
		Iron ore	4	37.91
		Laterite	5	101.17
		Limestone	16	3342.47
		Quartz	1	9.74
		Sand (others)	5	460.95
		Shale	1	32.49
		White clay	1	18.00
		<b>Total</b>	<b>35</b>	<b>4095.53</b>
	Gadchiroli	Iron ore	3	355.12
		Quartz	1	20.00
		<b>Total</b>	<b>4</b>	<b>375.12</b>
	Gondia	Iron ore	4	26.97
		Quartz	1	14.32
		<b>Total</b>	<b>5</b>	<b>41.29</b>
	Jalna	Agate	2	54.98
		<b>Total</b>	<b>2</b>	<b>54.98</b>
	Kolhapur	Bauxite	15	2893.13
		Iron ore	1	144.00
		Silica Sand	2	9.67
		<b>Total</b>	<b>18</b>	<b>3046.80</b>

contd...



Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Maharashtra (contd.)	Nagpur	Dolomite	15	162.22
		Manganese ore	35	691.17
		Quartz	2	17.67
		Sand (others)	4	191.88
		White clay	2	4.34
		<b>Total</b>	<b>58</b>	<b>1067.28</b>
	Raigad	Bauxite	9	523.12
		<b>Total</b>	<b>9</b>	<b>523.12</b>
	Ratnagiri	Bauxite	7	777.56
		Moulding sand	1	47.02
		Silica sand	7	411.66
		<b>Total</b>	<b>15</b>	<b>1236.24</b>
	Satara	Bauxite	1	125.06
		<b>Total</b>	<b>1</b>	<b>125.06</b>
	Sindhudurg	Bauxite	1	45.00
		China clay	1	13.18
		Feldspar	2	53.65
		Fireclay	1	5.14
		Iron ore	14	613.22
		Mica	1	42.06
		Quartz	1	12.09
		Silica sand	25	1136.40
		<b>Total</b>	<b>46</b>	<b>1920.74</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
<b>Maharashtra</b> (concl.)	<b>Yeotmal</b>	Dolomite	1	61.91
		Limestone	37	2190.32
		Sand (others)	1	44.00
		<b>Total</b>	<b>39</b>	<b>2296.23</b>
<b>Manipur</b>	<b>Ukhrul</b>	Chromite	1	132.78
		<b>Total</b>	<b>1</b>	<b>132.78</b>
<b>Meghalaya</b>	<b>Jaintia Hills</b>	Limestone	11	51.87
		<b>Total</b>	<b>11</b>	<b>51.87</b>
	<b>Khasi Hills East</b>	Limestone	4	484.78
		Shale	1	4.90
		<b>Total</b>	<b>5</b>	<b>489.68</b>
	<b>Khasi Hills West</b>	Limestone	1	60.00
		Sillimanite	1	4.64
		<b>Total</b>	<b>2</b>	<b>64.64</b>
	<b>Odisha</b>	<b>Angul</b>	Fireclay	1
Quartz			2	18.87
Sand (others)			4	393.67
<b>Total</b>			<b>7</b>	<b>726.39</b>
<b>Bargarh</b>		Graphite	6	112.12
		Limestone	3	903.56
		<b>Total</b>	<b>9</b>	<b>1015.68</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Odisha (contd.)	Baudh	Quartz	2	29.15
		<b>Total</b>	<b>2</b>	<b>29.15</b>
	Bolangir	Garnet (Gem)	1	12.08
		Graphite	40	940.43
		Lead & zinc ore	1	5.26
		Limestone	1	27.65
		Manganese ore	1	7.27
		Quartz	4	166.49
		<b>Total</b>	<b>48</b>	<b>1159.18</b>
	Cuttack	Fireclay	9	539.27
		<b>Total</b>	<b>9</b>	<b>539.27</b>
	Dhenkanal	Chromite	3	960.80
		Fireclay	1	10.11
		Quartz	1	4.65
		<b>Total</b>	<b>5</b>	<b>975.56</b>
	Ganjam	Sillimanite	1	2464.05
		Steatite	1	3.64
		<b>Total</b>	<b>2</b>	<b>2467.69</b>
	Jajpur	Chromite	17	4344.72
		Iron ore	1	1812.99
		Quartzite	2	6.15
		<b>Total</b>	<b>20</b>	<b>6163.86</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Odisha (contd.)	Jharsuguda	Fireclay	1	50.50
		Quartz	1	83.66
		Quartzite	3	298.12
		Sand (others)	1	109.20
		<b>Total</b>	<b>6</b>	<b>541.48</b>
	Kalahandi	Graphite	9	106.36
		Iolite	10	80.06
		Quartz	30	257.72
		Ruby	3	120.80
		<b>Total</b>	<b>52</b>	<b>564.94</b>
	Keonjhar	Asbestos	1	49.22
		Chromite	6	2194.28
		Iron ore	68	20146.35
		Manganese ore	21	6615.63
		Pyrophyllite	5	231.22
		Quartz	3	55.25
		<b>Total</b>	<b>104</b>	<b>29291.95</b>
	Khurda	Fireclay	1	117.74
		<b>Total</b>	<b>1</b>	<b>117.74</b>
	Koraput	Bauxite	3	4915.38
		China clay	2	115.07
		Dunite	1	14.28
		Limestone	2	1586.22
Quartz		1	11.28	
<b>Total</b>		<b>9</b>	<b>6642.23</b>	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Odisha (Contd.)	Malkangiri	Quartz	1	2.48
		Tin	1	20.85
		<b>Total</b>	<b>2</b>	<b>23.33</b>
	Mayurbhanj	Asbestos	1	117.35
		China clay	11	1094.15
		Fireclay	1	29.49
		Iron ore	9	1564.55
		Kyanite	1	55.49
		Quartz	2	20.11
		Quartzite	12	132.75
		Steatite	3	107.66
		<b>Total</b>	<b>40</b>	<b>3121.55</b>
	Nawapara	Garnet (Gem)	1	33.95
		Graphite	5	185.28
		Limestone	3	332.96
		<b>Total</b>	<b>9</b>	<b>552.19</b>
	Nayagarh	Graphite	1	16.64
		<b>Total</b>	<b>1</b>	<b>16.64</b>
	Raygada	Bauxite	1	1388.74
		Graphite	12	598.09
		Manganese ore	5	579.58
Quartz		3	95.66	
<b>Total</b>		<b>21</b>	<b>2662.07</b>	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Odisha (Concl.)	Sambalpur	China clay	1	40.47
		lolite	1	24.29
		Quartz	2	31.88
		<b>Total</b>	<b>4</b>	<b>96.64</b>
	Sonepur	Quartz	3	119.22
		<b>Total</b>	<b>3</b>	<b>119.22</b>
	Sundargarh	Bauxite	4	369.35
		Dolomite	5	523.63
		Fireclay	3	544.66
		Iron ore	39	7147.97
		Limestone	30	4566.46
		Manganese ore	19	3263.21
		Quartz	4	173.51
		Silica sand	1	17.45
		Steatite	2	161.13
<b>Total</b>		<b>107</b>	<b>16767.37</b>	
Rajasthan		Ajmer	Calcite	2
	Feldspar		325	1680.15
	Garnet		5	24.15
	Lead & Zinc Ore		1	480.45
	Limestone		1	856.33
	Magnesite		2	9.75
	Mica		29	138.10
	Quartz		195	1162.62

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan (contd.)	Ajmer (contd.)	Steatite	1	4.58
		Wollastonite	7	48.81
		<b>Total</b>	<b>568</b>	<b>4414.94</b>
	Alwar	Barytes	2	72.83
		China clay	1	4.50
		Feldspar	1	4.00
		Silica sand	1	4.00
		Steatite	5	224.81
		<b>Total</b>	<b>10</b>	<b>310.14</b>
		Banswara	Dolomite	1
	Limestone		1	65.82
	Manganese ore		1	18.89
	Steatite		1	63.39
	<b>Total</b>		<b>4</b>	<b>219.42</b>
	Barmer	China clay	4	19.90
		Gypsum	3	726.03
		Silica sand	4	18.99
		<b>Total</b>	<b>11</b>	<b>764.92</b>
	Bharatpur	Fireclay	1	5.00
		Ochre	2	9.40
		Silica sand	14	381.28
		<b>Total</b>	<b>17</b>	<b>395.68</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan (contd.)	Bhilwara	Calcite	3	14.00
		China clay	13	121.42
		Feldspar	580	2947.16
		Garnet (Gem)	1	5.00
		Gold	2	1989.88
		Kyanite	3	154.00
		Lead & Zinc ore	1	1200.00
		Mica	82	727.45
		Ochre	6	28.32
		Pyrophyllite	1	4.75
		Quartz	3	14.72
		Silica sand	1	5.00
		Steatite	36	2995.85
		<b>Total</b>	<b>732</b>	<b>10207.55</b>
		Bikaner	Ball clay	51
	China clay		16	1293.09
	Fireclay		10	843.62
	Gypsum		33	5592.34
	Ochre		1	4.00
	<b>Total</b>		<b>111</b>	<b>8722.16</b>
	Bundi		China clay	1
		Quartz	1	4.50
		Silica sand	1	59.51
		<b>Total</b>	<b>3</b>	<b>125.01</b>

contd...



Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan (contd.)	Chittorgarh	China clay	37	647.73
		Limestone	9	4972.10
		Ochre	24	196.79
		Quartz	29	130.89
		<b>Total</b>	<b>99</b>	<b>5947.51</b>
	Dausa	Quartz	2	104.39
		Silica sand	7	233.64
		Steatite	3	40.00
		<b>Total</b>	<b>12</b>	<b>378.03</b>
	Dungarpur	Fluorite	2	9.95
		Steatite	29	655.04
		<b>Total</b>	<b>31</b>	<b>664.99</b>
	Ganganagar	Felspar	11	49.70
		Gypsum	15	1097.76
		Quartz	7	30.15
		<b>Total</b>	<b>33</b>	<b>1177.61</b>
	Hanumangarh	Gypsum	7	3807.68
		<b>Total</b>	<b>7</b>	<b>3807.68</b>
	Jaipur	Calcite	1	296.41
		China clay	7	1104.52
		Dolomite	1	60.56

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan (contd.)	Jaipur (concl.)	Epidote	1	5.00
		Feldspar	4	18.93
		Iron ore	6	48.93
		Limestone	2	581.15
		Mica	3	43.13
		Quartz	79	654.22
		Silica sand	5	236.20
		Steatite	6	566.01
		<b>Total</b>	<b>115</b>	<b>3615.06</b>
	Jaisalmer	Dolomite	1	32.37
		Gypsum	3	922.49
		Limestone	2	1997.97
		Ochre	3	14.75
		Silica sand	10	91.81
		<b>Total</b>	<b>19</b>	<b>3059.39</b>
	Jalore	Fluorite	4	1175.00
		Gypsum	1	178.50
		<b>Total</b>	<b>5</b>	<b>1353.50</b>
	Jhunjhunu	Calcite	4	19.89
		Copper Ore	3	706.75
		Dolomite	1	33.31
		Feldspar	4	17.64
		Fireclay	1	10.99
		Iron ore	6	102.20
		Ochre	1	39.00
		Pyrophyllite	1	5.00

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan (contd.)	Jhunjhunu (concl.)	Quartz	16	72.56
		Quartzite	1	4.91
		Steatite	3	132.31
		<b>Total</b>	<b>41</b>	<b>1144.56</b>
	Jodhpur	Jasper	2	10.00
		Limestone	1	2070.00
		Ochre	7	33.03
		<b>Total</b>	<b>10</b>	<b>2113.03</b>
	Karauli	China clay	6	27.97
		Silica sand	18	140.68
		Steatite	2	165.39
		<b>Total</b>	<b>26</b>	<b>334.04</b>
	Kota	Limestone	2	4875.42
		<b>Total</b>	<b>2</b>	<b>4875.42</b>
	Nagaur	China clay	80	361.10
		Gypsum	2	1993.12
		Limestone	4	1232.87
		Quartz	4	17.60
		<b>Total</b>	<b>90</b>	<b>3604.69</b>
	Pali	Ball clay	5	585.82
		China clay	18	117.65
		Limestone	3	1736.53
		Magnesite	2	10.00

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan (contd.)	Pali (concl'd.)	Quartz	22	177.32
		Wollastonite	1	4.00
		<b>Total</b>	<b>51</b>	<b>2631.32</b>
	Pratapgarh	Ochre	18	463.48
		Quartz	8	32.00
		Steatite	17	786.67
		<b>Total</b>	<b>43</b>	<b>1282.15</b>
	Rajsamand	Barytes	1	38.85
		Calcite	4	18.35
		Feldspar	14	60.28
		Lead & Zinc ore	3	1725.82
		Quartz	775	3731.41
		Silica sand	1	4.20
		Steatite	16	911.54
		<b>Total</b>	<b>814</b>	<b>6490.45</b>
	Sawai Madhopur	China clay	3	14.35
		Clay (others)	1	4.67
		Quartz	7	31.33
		<b>Total</b>	<b>11</b>	<b>50.35</b>
	Sikar	Calcite	10	115.25
		China clay	1	32.54
		Dolomite	1	4.79
		Feldspar	7	214.52
		Iron ore	2	9.95
		Limestone	2	856.76
		Ochre	2	9.10

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan (concl.d.)	Sikar (concl.d.)	Quartz	93	661.68
		Silica sand	5	35.23
		Steatite	2	9.46
		<b>Total</b>	<b>125</b>	<b>1949.28</b>
	Sirohi	Calcite	5	216.02
		Lead & Zinc ore	2	115.00
		Limestone	5	1124.00
		Quartz	16	70.99
		Wollastonite	2	77.86
		<b>Total</b>	<b>30</b>	<b>1603.87</b>
		Tonk	Feldspar	3
	Garnet		4	20.00
	Mica		6	48.91
	Quartz		45	225.28
	Silica sand		6	281.65
	<b>Total</b>		<b>64</b>	<b>589.64</b>
	Udaipur	Barytes	1	31.00
		Calcite	11	234.97
		China clay	2	128.20
		Feldspar	11	52.52
		Lead & Zinc ore	1	3443.70
		Limestone	3	1036.27
		Ochre	3	54.00
		Phosphorite	5	1994.46
		Pyrophyllite	8	37.49
		Quartz	79	1324.24
		Steatite	98	3971.45
<b>Total</b>		<b>222</b>	<b>12308.30</b>	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Sikkim	Sikkim East	Copper ore	3	96.32
		<b>Total</b>	<b>3</b>	<b>96.32</b>
Tamil Nadu	Ariyalur	Fireclay	11	22.33
		Limestone	62	2280.14
		<b>Total</b>	<b>73</b>	<b>2302.47</b>
	Coimbatore	Gypsum	3	13.83
		Limestone	3	152.77
		Quartz	9	15.65
		Steatite	2	5.46
		<b>Total</b>	<b>17</b>	<b>187.71</b>
	Cuddalore	Fireclay	17	37.53
		Limeshell	1	4.61
		Silica sand	2	5.34
		<b>Total</b>	<b>20</b>	<b>47.48</b>
	Dindigul	Limestone	41	627.56
		Quartz	31	37.39
		<b>Total</b>	<b>72</b>	<b>664.95</b>
	Erode	Quartz	3	9.83
		<b>Total</b>	<b>3</b>	<b>9.83</b>
Kanchipuram	Silica sand	11	34.46	
	<b>Total</b>	<b>11</b>	<b>34.46</b>	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Tamil Nadu (contd.)	Kanyakumari	Garnet	9	193.21
		<b>Total</b>	<b>9</b>	<b>193.21</b>
	Karur	Limestone	42	534.06
		Magnesite	2	4.41
		Quartz	88	122.15
		<b>Total</b>	<b>132</b>	<b>660.62</b>
		Krishnagiri	Limestone	2
	Quartz		1	7.21
	<b>Total</b>		<b>3</b>	<b>9.67</b>
	Madurai	Garnet	2	6.62
		Graphite	2	5.68
		Limestone	13	48.56
		Quartz	4	4.66
		<b>Total</b>	<b>21</b>	<b>65.52</b>
	Nagapattinam	Silica sand	8	14.99
		<b>Total</b>	<b>8</b>	<b>14.99</b>
	Namakkal	Bauxite	3	226.15
		Limestone	36	103.97
		Magnesite	3	4.89
		Quartz	26	47.38
		<b>Total</b>	<b>68</b>	<b>382.39</b>

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Tamil Nadu (contd.)	Perambalur	Fireclay	18	54.95
		Gypsum	6	14.90
		Limestone	32	95.75
		<b>Total</b>	<b>56</b>	<b>165.60</b>
	Pudukkottai	Quartz	1	1.08
		<b>Total</b>	<b>1</b>	<b>1.08</b>
	Salem	Apatite	1	4.05
		Bauxite	1	190.84
		Limestone	53	433.23
		Magnesite	10	878.85
		Quartz	34	135.71
		Steatite	2	9.78
		<b>Total</b>	<b>101</b>	<b>1652.46</b>
	Sivaganga	Graphite	5	271.84
		Quartz	1	1.11
		<b>Total</b>	<b>6</b>	<b>272.95</b>
	Theni (Madurai)	Limestone	3	6.77
		<b>Total</b>	<b>3</b>	<b>6.77</b>
	Thiruvallur (Chengalpattu)	Silica sand	1	3.28
		<b>Total</b>	<b>1</b>	<b>3.28</b>
	Thiruvannamalai	Fireclay	1	4.87
		<b>Total</b>	<b>1</b>	<b>4.87</b>

contd...



Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Tamil Nadu (concl.)	Thoothukudi (Tuticorin)	Garnet	6	70.56
		Limestone	15	411.92
		Quartz	2	8.06
		<b>Total</b>	<b>23</b>	<b>490.54</b>
	Tiruchirappalli	Fire Clay	1	1.20
		Garnet	5	29.99
		Gypsum	4	5.94
		Limestone	29	186.41
		Quartz	7	14.70
		Steatite	3	9.90
		<b>Total</b>	<b>49</b>	<b>248.14</b>
	Tirunelveli	Garnet	52	324.90
		Limestone	72	669.72
		<b>Total</b>	<b>124</b>	<b>994.62</b>
	Tiruppur	Gypsum	2	5.28
		Magnesite	2	7.26
		Quartz	81	115.51
		<b>Total</b>	<b>85</b>	<b>128.05</b>
	Vellore	Quartz	1	1.39
		Vermiculite	1	23.71
		<b>Total</b>	<b>2</b>	<b>25.10</b>
	Villupuram	Silica sand	11	23.11
		<b>Total</b>	<b>11</b>	<b>23.11</b>
Virudhunagar	Limestone	31	1175.65	
	<b>Total</b>	<b>31</b>	<b>1175.65</b>	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Uttar Pradesh	Allahabad	Silica Sand	3	41.24
		<b>Total</b>	<b>3</b>	<b>41.24</b>
	Hamirpur	Pyrophyllite	1	25.71
		<b>Total</b>	<b>1</b>	<b>25.71</b>
	Jhansi	Pyrophyllite	5	67.99
		<b>Total</b>	<b>5</b>	<b>67.99</b>
	Lalitpur	Pyrophyllite	7	79.18
		<b>Total</b>	<b>7</b>	<b>79.18</b>
	Mahoba	Pyrophyllite	2	7.38
		<b>Total</b>	<b>2</b>	<b>7.38</b>
	Sonbhadra	Dolomite	1	670.57
		Limestone	4	3072.63
		<b>Total</b>	<b>5</b>	<b>3743.20</b>
	Uttarakhand	Almoda	Steatite	2
<b>Total</b>			<b>2</b>	<b>6.24</b>
Bageshwar		Magnesite	1	165.08
		Steatite	54	779.62
		<b>Total</b>	<b>55</b>	<b>944.70</b>
Chamoli		Steatite	2	9.09
		<b>Total</b>	<b>2</b>	<b>9.09</b>
Pithoragarh		Magnesite	2	202.20
		Steatite	16	73.31
		<b>Total</b>	<b>18</b>	<b>275.51</b>

Contd...

Table-4 (concl.d.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
<b>Uttarakhand</b> (concl.d.)	<b>Tehri Garhwal</b>	Limestone	6	37.31
		<b>Total</b>	<b>6</b>	<b>37.31</b>
<b>West Bengal</b>	<b>Bankura</b>	China clay	9	48.46
		Fireclay	1	7.03
		Quartz	4	10.84
		Quartzite	1	4.70
		Silica sand	2	4.73
		<b>Total</b>	<b>17</b>	<b>75.76</b>
	<b>Birbhum</b>	China clay	15	290.41
		Fireclay	1	4.85
		Quartz	1	1.94
		<b>Total</b>	<b>17</b>	<b>297.20</b>
	<b>Burdwan</b>	Moulding sand	2	2.27
		<b>Total</b>	<b>2</b>	<b>2.27</b>
	<b>Midnapur</b>	Ochre	1	5.77
		<b>Total</b>	<b>1</b>	<b>5.77</b>
	<b>Purulia</b>	Fireclay	1	1.20
		Moulding sand	1	5.14
		Phosphorite	1	13.47
		Quartz	5	13.26
		<b>Total</b>	<b>8</b>	<b>33.07</b>

\* including Telangana.

## **3.2 DISTRICT WISE ANALYSIS**

### **(i) High Mineral Potential Districts**

District wise analysis indicates that the total number of mineral-bearing districts are 283 and they are spread across 23 states in the country. Out of these, 26 districts in 8 states are considered as high mineral potential districts wherein more than 100 mining leases each have been granted. A total of 6,074 mining leases have been granted in these districts covering an area of about 1,95,930 hectares. These constitute about 55% of total number of mining leases in the country and cover around 43% of the total area.

### **(ii) Medium Mineral Potential Districts**

Districts wherein mining leases between 51 and 100 are granted are considered as Medium Potential districts. There are 1,913 such mining leases granted in 28 districts in 13 states covering an area of about 73,250 hectares. These constitute 18% of the total number of mining leases in the country and cover over 16% of the total area.

### **(iii) Low Mineral Potential Districts**

Districts wherein mining leases granted are between 1 and 50 are considered as Low Mineral Potential districts. There are 2,995 mining leases granted in 229 such districts in 22 states covering an area of about 1,85,526 hectares in the country. These account for 27% of the total leases in the country covering 41% of the total area.

Information on the number of mining leases granted in high mineral potential, medium potential, low potential states and districts is furnished in Table-5 to 7.

**Table - 5 : High Mineral Potential Districts**

<b>Sl. No.</b>	<b>State</b>	<b>District</b>	<b>No. of Leases</b>	<b>No. of Minerals</b>	<b>Area (inHect.)</b>
1	Andhra Pradesh	Anantapur	177	12	3959.74
2	Andhra Pradesh	Cuddapah	269	17	9002.97
3	Andhra Pradesh	Kurnool	353	13	12686.42
4	Andhra Pradesh	Mahbubnagar	141	4	1086.56
5	Andhra Pradesh	Nellore	316	9	4626.14
6	Andhra Pradesh	Prakasam	119	6	2978.05
7	Goa	South Goa	181	3	13663.71
8	Gujarat	Devbhoomi Dwarka	147	5	4402.09
9	Gujarat	Kachchh	212	11	9775.73
10	Gujarat	Porbandar	237	4	3104.95
11	Karnataka	Bagalkot	106	5	5927.53
12	Karnataka	Bellary	101	5	8815.66
13	Madhya Pradesh	Katni	246	11	5964.35
14	Madhya Pradesh	Satna	214	7	12861.50
15	Odisha	Keonjhar	104	6	29291.95
16	Odisha	Sundargarh	107	9	16767.37
17	Rajasthan	Ajmer	568	10	4414.94
18	Rajasthan	Bhilwara	732	13	10207.55
19	Rajasthan	Bikaner	111	5	8722.16
20	Rajasthan	Jaipur	115	11	3615.06
21	Rajasthan	Rajsamand	814	7	6490.45
22	Rajasthan	Sikar	125	10	1949.28
23	Rajasthan	Udaipur	222	11	12308.30
24	Tamil Nadu	Karur	132	3	660.62
25	Tamil Nadu	Salem	101	6	1652.46
26	Tamil Nadu	Tirunelveli	124	2	994.62
		<b>Total</b>	<b>6074</b>		<b>195930.16</b>

**Table – 6: Medium Mineral Potential Districts**

<b>Sl. No.</b>	<b>State</b>	<b>District</b>	<b>No. of Leases</b>	<b>No. of Minerals</b>	<b>Area (inHect.)</b>
1	Andhra Pradesh	Godavari East	71	3	521.62
2	Andhra Pradesh	Guntur	57	6	6157.77
3	Andhra Pradesh	Khammam	55	10	1172.11
4	Andhra Pradesh	Nalgonda	69	5	5664.97
5	Andhra Pradesh	Rangareddy	62	7	1916.01
6	Andhra Pradesh	Vizianagaram	72	5	1455.88
7	Chhattisgarh	Durg	52	4	1386.54
8	Goa	North Goa	86	2	6228.30
9	Gujarat	Chhota Udaipur	78	2	950.01
10	Gujarat	Gir Somnath	57	1	1496.46
11	Gujarat	Surendranagar	63	4	320.48
12	Haryana	Gurgaon	58	4	4364.35
13	Jharkhand	Singhbhum (West)	78	9	15407.22
14	Karnataka	Chitradurga	58	5	3774.20
15	Madhya Pradesh	Balaghat	85	8	2764.79
16	Madhya Pradesh	Jabalpur	89	10	676.07
17	Maharashtra	Nagpur	58	5	1067.28
18	Odisha	Kalahandi	52	4	564.94
19	Rajasthan	Chittorgarh	99	4	5947.51
20	Rajasthan	Nagaur	90	4	3604.69
21	Rajasthan	Pali	51	6	2631.32
22	Rajasthan	Tonk	64	5	589.64
23	Tamil Nadu	Ariyalur	73	2	2302.47
24	Tamil Nadu	Dindigul	72	2	664.95
25	Tamil Nadu	Namakkal	68	4	382.39
26	Tamil Nadu	Perambalur	56	3	165.60
27	Tamil Nadu	Tiruppur	85	3	128.05
28	Uttarakhand	Bageshwar	55	2	944.70
		<b>Total</b>	<b>1913</b>		<b>73250.32</b>

**Table – 7 : Low Mineral Potential Districts**

<b>Sl. No.</b>	<b>State</b>	<b>No. of Districts</b>	<b>No. of Leases</b>	<b>Area (inHect.)</b>
1	Andhra Pradesh	10	277	10241.76
2	Assam	2	7	889.50
3	Bihar	3	9	1382.66
4	Chhattisgarh	21	248	20684.31
5	Gujarat	16	306	9582.83
6	Haryana	3	52	6610.64
7	Himachal Pradesh	4	44	2542.39
8	Jammu & Kashmir	11	57	2450.93
9	Jharkhand	18	204	14937.70
10	Karnataka	20	280	29135.68
11	Kerala	10	91	3077.84
12	Madhya Pradesh	25	367	10615.87
13	Maharashtra	12	202	14387.33
14	Manipur	1	1	132.78
15	Meghalaya	3	18	606.19
16	Odisha	18	198	26969.87
17	Rajasthan	18	315	23659.79
18	Sikkim	1	3	96.32
19	Tamil Nadu	18	220	2814.36
20	Uttar Pradesh	6	23	3964.70
21	Uttarakhand	4	28	328.15
22	West Bengal	5	45	414.07
	<b>Total</b>	<b>229</b>	<b>2995</b>	<b>185525.67</b>

### **3.3 MINERAL WISE ANALYSIS**

There are 64 naturally occurring minerals for which mining leases are granted in the country. These minerals are broadly classified into Scheduled and Non-Scheduled minerals.

#### **(i) Scheduled Minerals**

The Scheduled Minerals include ferrous, non-ferrous & noble metals, industrial mineral and precious stones. The ferrous group includes chromite, iron ore and manganese ore; non-ferrous group consists of bauxite, copper and lead & zinc ores; noble metal group includes gold; industrial mineral group includes asbestos and precious stones includes diamond, ruby & sapphire. At present, there are no commercial mining leases granted for silver and platinum group of metals in the country.

There are 11 minerals under Scheduled Minerals for which mining leases are granted as on 31.3.2014. The number of leases granted are 1,403 i.e. 13% of the total mining leases accounting for an area of about 1,67,945 hectares which is 37% of the total mining area in the country. Out of the eleven scheduled minerals, the total number of mining leases granted for iron ore is placed at (664) followed by bauxite (339), manganese ore (308), chromite (34), gold (16), copper ore (14) and lead & zinc (12). These seven minerals account for 1,387 mining leases, i.e., 99% of the mining leases under this category accounting for an area of about 1,66,470 hectares which is 99% of the lease area accounted under Scheduled Minerals. The distribution of mining leases for Scheduled minerals is given in Table-8.

#### **(ii) Non-Scheduled Minerals**

There are 53 Non-Scheduled or Industrial minerals, for which leases are granted in the country. In all, there are 9,579 (87% of the total mining leases) mining leases granted for these minerals that account for an area of about 2,86,761 hectares which is 63% of the total lease area. Distribution of mining leases for Non-Scheduled minerals is given in Table-9.



**Table – 8 : Distribution of Mining Leases for Scheduled Minerals  
As on 31.03.2014**

<b>Sl. No.</b>	<b>Minerals</b>	<b>No. of Leases</b>	<b>Area (in Hect.)</b>
1	Asbestos	7	394.74
2	Bauxite	339	28613.60
3	Chromite	34	8955.19
4	Copper ore	14	5324.67
5	Diamond *	02	275.96
6	Gold	16	9869.36
7	Iron ore	664	86326.39
8	Lead & Zinc ore	12	6997.28
9	Manganese ore	308	20383.98
10	Ruby *	6	130.00
11	Sapphire *	1	673.40
	<b>Total</b>	<b>1403</b>	<b>167944.57</b>

\* Precious stone

**Table – 9 : Distribution of Mining Leases for Non-Scheduled Minerals  
As on 31.03.2014**

<b>Sl. No.</b>	<b>Minerals</b>	<b>No. of Leases</b>	<b>Area (in Hect.)</b>
1	Agate	3	59.62
2	Amethyst	4	10.63
3	Apatite	2	20.17
4	Ball clay	88	1970.37
5	Barytes	160	2442.58
6	Borax	1	159.00
7	Calcite	73	1223.23
8	Chalk	152	628.91
9	China clay	489	13304.07
10	Clay (others)	100	1191.25
11	Corundum	9	68.25
12	Diaspore	11	77.38
13	Dolomite	543	7625.84
14	Dunite	1	14.28
15	Epidote	1	5.00
16	Felsite	6	102.29
17	Feldspar	1008	6099.36
18	Fireclay	235	4073.76
19	Flint Stone	02	11.87
20	Fluorite	9	1280.85
21	Garnet	94	1513.53
22	Garnet (Gem)	3	51.03
23	Graphite	104	3510.60
24	Gypsum	107	14868.49
25	Iolite	11	104.35
26	Jasper	2	10
27	Kyanite	33	3138.10

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Table-9 (concl.d.)

<b>Sl. No.</b>	<b>Minerals</b>	<b>No. of Leases</b>	<b>Area (in Hect.)</b>
28	Laterite	208	2549.59
29	Lime kankar	7	37.18
30	Limeshell	26	3748.17
31	Limestone	1923	150906.80
32	Magnesite	34	1931.57
33	Marl	1	4.90
34	Mica	244	4417.21
35	Moulding sand	33	723.51
36	Ochre	157	1939.98
37	Perlite	1	144.88
38	Phosphorite	10	2120.90
39	Pyrophyllite	94	1231.23
40	Pyroxenite	11	95.39
41	Quartz	2427	18336.46
42	Quartzite	80	1423.62
43	Sand (others)	44	3110.06
44	Shale	31	403.34
45	Silica sand	453	12461.06
46	Sillimanite	6	2823.26
47	Slate	17	627.82
48	Steatite	428	12808.30
49	Tin	16	324.66
50	Vermiculite	12	185.53
51	White clay	40	633.34
52	White shale	15	77.34
53	Wollastonite	10	130.67
	<b>Total</b>	<b>9579</b>	<b>286761.58</b>

### 3.4 FREQUENCY DISTRIBUTION OF MINING LEASES

The number of mining leases so far executed for various minerals are classified into seven categories:

<b>Category – I :</b>	Includes minerals for which number of mining leases executed are more than 1000;
<b>Category – II :</b>	Includes minerals for which number of mining leases executed are between 501 and 1,000;
<b>Category – III :</b>	Includes minerals for which number of mining leases executed are between 301 and 500;
<b>Category – IV :</b>	Includes minerals for which number of mining leases executed are between 201 and 300;
<b>Category – V :</b>	Includes minerals for which number of mining leases executed are between 101 and 200;
<b>Category – VI :</b>	Includes minerals for which number of mining leases executed are between 51 and 100;
<b>Category – VII :</b>	Includes minerals for which number of mining leases executed are between 1 and 50.

Number of minerals, their mining leases and area of leases covered category wise are summarised in Table - 10. The frequency distribution of mining leases is given in Table – 11.

**Table – 10 : Category wise Number of Minerals, their Mining Leases and  
Area of Leases**

Category	No. of Minerals	No. of Mining Leases		Lease Area	
		No. of Leases	Percentage	In Hect.	Percentage
I	3	5358	48.79	175342.62	38.56
II	2	1207	10.99	93952.23	20.66
III	5	2017	18.37	87571.01	19.26
IV	3	687	6.25	11040.56	2.43
V	5	680	6.19	23390.56	5.15
VI	6	529	4.82	8553.23	1.88
VII	40	504	4.59	54855.94	12.06
<b>Total</b>	<b>64</b>	<b>10982</b>	<b>100.00</b>	<b>454706.15</b>	<b>100.00</b>

**Table- 11 : Frequency Distribution of Mining Leases**

<b>Category</b>	<b>Frequency of Leases</b>	<b>Minerals</b>	<b>No. of Leases</b>	<b>Area (In Hect.)</b>
<b>I</b>	<b>&gt;1000</b>	Limestone	1923	150906.80
		Quartz	2427	18336.46
		Feldspar	1008	6099.36
		<b>Total</b>	<b>5358</b>	<b>175342.62</b>
<b>II</b>	<b>Between 501 and 1000</b>	Dolomite	543	7625.84
		Iron ore	664	86326.39
		<b>Total</b>	<b>1207</b>	<b>93952.23</b>
<b>III</b>	<b>Between 301 and 500</b>	Bauxite	339	28613.60
		China clay	489	13304.07
		Manganese ore	308	20383.98
		Silica sand	453	12461.06
		Steatite	428	12808.30
		<b>Total</b>	<b>2017</b>	<b>87571.01</b>
<b>IV</b>	<b>Between 201 and 300</b>	Fireclay	235	4073.76
		Laterite	208	2549.59
		Mica	244	4417.21
		<b>Total</b>	<b>687</b>	<b>11040.56</b>
<b>V</b>	<b>Between 101 and 200</b>	Barytes	160	2442.58
		Chalk	152	628.91
		Graphite	104	3510.60
		Gypsum	107	14868.49
		Ochre	157	1939.98
		<b>Total</b>	<b>680</b>	<b>23390.56</b>

contd...

Table-11 (contd.)

Category	Frequency of Leases	Minerals	No. of Leases	Area (In Hect.)
<b>VI</b>	<b>Between 51 and 100</b>	Ball Clay	88	1970.37
		Calcite	73	1223.23
		Clay (others)	100	1191.25
		Garnet	94	1513.53
		Pyrophyllite	94	1231.23
		Quartzite	80	1423.62
		<b>Total</b>	<b>529</b>	<b>8553.23</b>
<b>VII</b>	<b>Between 1 and 50</b>	Agate	3	59.62
		Amethyst	4	10.63
		Apatite	2	20.17
		Asbestos	7	394.74
		Borax	1	159.00
		Chromite	34	8955.19
		Copper Ore	14	5324.67
		Corundum	9	68.25
		Diamond	2	275.96
		Diaspore	11	77.38
		Dunite	1	14.28
		Epidote	1	5
		Felsite	6	102.29
		Flint Stone	2	11.87
		Fluorite	9	1280.85
		Garnet (Gem)	3	51.03
		Gold	16	9869.36
		Iolite	11	104.35
		Jasper	2	10
		Kyanite	33	3138.10
		Lead & Zinc ore	12	6997.28
Lime kankar	7	37.18		

contd...

Table-11 (concl.)

<b>Category</b>	<b>Frequency of Leases</b>	<b>Minerals</b>	<b>No. of Leases</b>	<b>Area (In Hect.)</b>
		Limeshell	26	3748.17
		Magnesite	34	1931.57
		Marl	1	4.90
		Moulding sand	33	723.51
		Perlite	1	144.88
		Phosphorite	10	2120.90
		Pyroxenite	11	95.39
		Ruby	6	130.00
		Sand ( others)	44	3110.06
		Sapphire	1	673.4
		Shale	31	403.34
		Sillimanite	6	2823.26
		Slate	17	627.82
		Tin	16	324.66
		Vermiculite	12	185.53
		White clay	40	633.34
		White shale	15	77.34
		Wollastonite	10	130.67
		<b>Total</b>	<b>504</b>	<b>54855.94</b>



### **3.5 SECTOR WISE DISTRIBUTION OF MINING LEASES**

Out of the total 10,982 mining leases in the country, 441 (4%) leases have been executed in the Public Sector, extending over an area of about 1,26,862.19 hectares (28%). The remaining 10,541 (96%) mining leases with an area of about 3, 27, 843.96 hectares (72%) have been executed in the Private Sector. Most of the Scheduled Minerals, namely, copper ore, lead & zinc ores, gold, iron ore, manganese ore and chromite and Non-Scheduled Minerals like limestone, dolomite, apatite, barytes, fluorite, kyanite, magnesite etc. are being exploited by both Public and Private Sectors.

#### **(a) Central Government Public Sector Undertakings :**

There are 180 mining leases under Central Government Public Sector Undertakings executed in 13 states for different minerals, covering an area of about 67,169.83 hectares. The States rich in minerals where maximum number of mining leases executed for Central Govt. Public Sector Undertakings are Jharkhand 33 (18.34%), followed by Maharashtra 29 (16.11%), Andhra Pradesh 24 (13.33%), Madhya Pradesh 22 (12.22%), Rajasthan 19 (10.56%), Odisha 18 (10%), Chhattisgarh 13 (7.22%), Karnataka 7 (3.89%) and Tamil Nadu 6 ( 3.33%). These nine States together account for over 95% of total leases executed and the remaining 4 States account for the rest of the 5% of the total leases executed under this category.

The prominent States where maximum mining lease areas are located are Odisha (25.64%), Jharkhand (19.27%), Karnataka (16.85%), Chhattisgarh (11.83%), Madhya Pradesh (10.34%), Andhra Pradesh (7.74%) and Rajasthan (3.95%). These seven States account for (95.62%) of the total lease area executed and the remaining 6 States account for the rest of the 4.38% of the total lease area executed under this category.

#### **(b) State Government Public Sector Undertakings:**

There are 261 number of mining leases executed in 15 States for different minerals, covering an area of 59,692.36 hectares. The States rich in minerals where there are maximum number of mining leases executed are Karnataka 52 (19.92%), Rajasthan 44 (16.86%), Odisha 42 (16.09%), Tamil Nadu 24 (9.20%), Chhattisgarh 21 (8.04%), Gujarat 19 (7.28%), Andhra

Pradesh 17 (6.51%), Maharashtra 13 (4.98%), Jharkhand & Madhya Pradesh 8 each (3.07% each). These ten States together account for over 95.02% of the total leases executed and the remaining 5 States account for the rest of the 4.98% of the total leases executed under this category.

The prominent States where maximum mining lease areas are located are Odisha (34.70%), Rajasthan (29.25%), Karnataka (16.11%), Gujarat (7.37%), Jharkhand (3.15%), Jammu and Kashmir (2.63%) and Tamil Nadu (2.37%). These seven States together account for around 95.58% of the total lease area executed while the remaining 8 States account for the rest of the 4.42 % of the total lease area executed under this category.

Sector wise distribution of mining leases in public/private sector and Mineral wise distribution of Mining Leases are given in Tables-12 to 14 respectively.

**Table – 12: Sector wise Distribution of Mining Leases (As on 31.03.2014)**  
(Public Sector and Private Sector)

Sl. No.	State	Total		Public Sector		Private Sector	
		No. of Leases	Area (In Hect.)	No. of Leases	Area (In Hect.)	No. of Leases	Area (In Hect.)
1	Andhra Pradesh*	2038	61470	41	6228.47	1997	55241.53
2	Assam	7	889.50	3	371.00	4	518.50
3	Bihar	9	1382.66	-	-	9	1382.66
4	Chhattisgarh	300	22070.85	34	8412.51	266	13658.34
5	Goa	267	19892.01	-	-	267	19892.01
6	Gujarat	1100	29632.55	19	4396.38	1081	25236.17
7	Haryana	110	10974.99	-	-	110	10974.99
8	Himachal Pradesh	44	2542.39	2	404.23	42	2138.16
9	Jammu & Kashmir	57	2450.93	5	1568.80	52	882.13
10	Jharkhand	282	30344.92	41	14828.41	241	15516.51
11	Karnataka	545	47653.07	59	20933.60	486	26719.47
12	Kerala	91	3077.84	5	359.23	86	2718.61
13	Madhya Pradesh	1001	32882.58	30	7217.08	971	25665.5
14	Maharashtra	260	15454.61	42	1989.77	218	13464.84
15	Manipur	1	132.78	-	-	1	132.78
16	Meghalaya	18	606.19	-	-	18	606.19
17	Odisha	461	73594.13	60	37939.24	401	35654.89
18	Rajasthan	3306	84140.69	63	20111.25	3243	64029.44
19	Sikkim	3	96.32	3	96.32	-	-
20	Tamil Nadu	931	9765.52	30	1818.30	901	7947.22
21	Uttar Pradesh	23	3964.70	-	-	23	3964.70
22	Uttarakhand	83	1272.85	2	170.45	81	1102.40
23	West Bengal	45	414.07	2	17.15	43	396.92
	<b>Total</b>	<b>10982</b>	<b>454706.15</b>	<b>441</b>	<b>126862.19</b>	<b>10541</b>	<b>327843.96</b>

\* including Telangana

**Table – 13: Sector wise Distribution of Mining Leases (As on 31.03.2014)**  
**(Under Central Government and State Governments)**

Sl. No.	State	Central Government		State Government		Total	
		No. of Leases	Area (In Hect.)	No. of Leases	Area (In Hect.)	No. of Leases	Area (In Hect.)
1	Andhra Pradesh*	24	5197.70	17	1030.77	41	6228.47
2	Assam	1	171.00	2	200.00	3	371.00
3	Chhattisgarh	13	7942.92	21	469.59	34	8412.51
4	Gujarat	-	-	19	4396.38	19	4396.38
5	Himachal Pradesh	2	404.23	-	-	2	404.23
6	Jammu & Kashmir	-	-	5	1568.80	5	1568.80
7	Jharkhand	33	12946.56	8	1881.85	41	14828.41
8	Karnataka	7	11315.49	52	9618.11	59	20933.60
9	Kerala	4	354.57	1	4.66	5	359.23
10	Madhya Pradesh	22	6943.51	8	273.57	30	7217.08
11	Maharashtra	29	1445.56	13	544.21	42	1989.77
12	Odisha	18	17225.27	42	20713.97	60	37939.24
13	Rajasthan	19	2650.69	44	17460.56	63	20111.25
14	Sikkim	-	-	3	96.32	3	96.32
15	Tamil Nadu	6	401.88	24	1416.42	30	1818.30
16	Uttarakhand	2	170.45	-	-	2	170.45
17	West Bengal	-	-	2	17.15	2	17.15
	<b>Total</b>	<b>180</b>	<b>67169.83</b>	<b>261</b>	<b>59692.36</b>	<b>441</b>	<b>126862.19</b>

\* including Telangana

**Table-14: Summary of Lease Distribution in Public Sector  
(As on 31.3.2014)  
(By States/Districts/Minerals)**

(Area in Hect.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Andhra Pradesh*	Adilabad	Limestone	1	839.38	1	210.00	2	1049.38
	Adilabad	Sand (others)	2	294.00	-	-	2	294.00
	Anantapur	Gold	1	168.43	-	-	1	168.43
	Cuddapah	Barytes	-	-	10	225.00	10	225.00
	Chittoor	Gold	2	265.59	-	-	2	265.59
	Godavari West	Ball clay	-	-	1	14.67	1	14.67
	Karimnagar	Sand (others)	5	601.71	-	-	5	601.71
	Khammam	Dolomite	1	384.46	-	-	1	384.46
	Khammam	Sand (others)	3	89.73	-	-	3	89.73
	Krishna	Limestone	1	1295.00	-	-	1	1295.00
	Nellore	Moulding sand	-	-	1	13.19	1	13.19
	Prakasam	Iron ore	-	-	1	505.17	1	505.17
	Rangareddi	Laterite	1	41.40	-	-	1	41.40
	Rangareddi	Limestone	1	613.79	-	-	1	613.79
	Rangareddi	Shale	1	133.12	-	-	1	133.12
	Srikakulam	Silica sand	1	7.50	-	-	1	7.50
	Visakhapatnam	Apatite	-	-	1	16.12	1	16.12
	Visakhapatnam	Calcite	-	-	2	46.62	2	46.62
	Visakhapatnam	Quartz	1	3.24	-	-	1	3.24
	Vizianagaram	Manganese ore	1	264.54	-	-	1	264.54
Vizianagaram	Sand (others)	2	195.81	-	-	2	195.81	
		<b>Total</b>	<b>24</b>	<b>5197.70</b>	<b>17</b>	<b>1030.77</b>	<b>41</b>	<b>6228.47</b>

\* Includes Telangana

Contd...

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
<b>Assam</b>	Karbi Anglong	Limestone	1	171.00	-	-	1	171.00
	North Cachar Hills	Limestone	-	-	2	200.00	2	200.00
		<b>Total</b>	<b>1</b>	<b>171.00</b>	<b>2</b>	<b>200.00</b>	<b>3</b>	<b>371.00</b>
<b>Chhattisgarh</b>	Balod	Iron ore	4	2562.69	-	-	4	2562.69
	Bemetara	Dolomite	-	-	1	22.15	1	22.15
	Bijapur	Tin	-	-	1	3.7	1	3.7
	Bilaspur	Dolomite	1	128.88	-	-	1	128.88
	Dantewada	Iron ore	6	2696.21	-	-	6	2696.21
	Durg	Limestone	1	526.34	-	-	1	526.34
	Jashpur	Bauxite	-	-	2	40.61	2	40.61
	Kanker	Iron ore	1	2028.80	-	-	1	2028.8
	Kabirdham	Bauxite	-	-	1	5.31	1	5.31
	Sukma	Corundum	-	-	2	27.25	2	27.25
	Sukma	Tin	-	-	2	103.22	2	103.22
	Surguja	Bauxite	-	-	12	267.35	12	267.35
			<b>Total</b>	<b>13</b>	<b>7942.92</b>	<b>21</b>	<b>469.59</b>	<b>34</b>
<b>Gujarat</b>	Banaskantha	Copper ore	-	-	1	832.00	1	832.00
	Bharuch	Ball clay	-	-	1	183.87	1	183.87
	Bharuch	Silica sand	-	-	1	143.70	1	143.70
	Chhota Udaipur	Fluorite	-	-	2	63.20	2	63.20
	Devbhoomi-Dwarka	Bauxite	-	-	2	189.78	2	189.78
	Kachchh	Bauxite	-	-	10	1939.39	10	1939.39
	Surat	Limestone	-	-	2	1044.44	2	1044.44
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>19</b>	<b>4396.38</b>	<b>19</b>	<b>4396.38</b>

Contd...

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
<b>Himachal Pradesh</b>	Sirmur	Limestone	1	172.03	-	-	1	172.03
	Solan	Limestone	1	232.2	-	-	1	232.2
		<b>Total</b>	<b>2</b>	<b>404.23</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>404.23</b>
<b>Jammu &amp; Kashmir</b>	Doda	Gypsum	-	-	1	76.00	1	76.00
	Kishtwar	Sapphire	-	-	1	673.40	1	673.40
	Pulwama	Limestone	-	-	1	88.10	1	88.10
	Ramban	Gypsum	-	-	1	246	1	246
	Reasi	Magnesite	-	-	1	485.3	1	485.3
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>5</b>	<b>1568.8</b>	<b>5</b>	<b>1568.8</b>
<b>Jharkhand</b>	Bokaro	Sand (others)	1	31.47	-	-	1	31.47
	Dhanbad	Sand (others)	11	584.01	-	-	11	584.01
	Garwah	Dolomite	1	118.69	-	-	1	118.69
	Garwah	Limestone	3	1178.92	-	-	3	1178.92
	Palamau	Graphite	-	-	2	507.97	2	507.97
	Palamau	Limestone	-	-	1	1043.43	1	1043.43
	Ranchi	Limestone	-	-	2	239.54	2	239.54
	Singhbhum (East)	Copper ore	3	2312.77	-	-	3	2312.77
	Singhbhum (East)	Kyanite	-	-	1	2.43	1	2.43
	Singhbhum (West)	Iron ore	13	6972.45	-	-	13	6972.45
	Singhbhum (West)	Kyanite	1	1748.25	2	88.48	3	1836.73
	<b>Total</b>		<b>33</b>	<b>12946.56</b>	<b>8</b>	<b>1881.85</b>	<b>41</b>	<b>14828.41</b>

Contd...

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Karnataka	Bagalkot	Dolomite	-	-	2	239.86	2	239.86
	Bagalkot	Limestone	-	-	8	3241.81	8	3241.81
	Bengaluru	Feldspar	-	-	3	130.30	3	130.30
	Belgaum	Limestone	-	-	2	755.48	2	755.48
	Bellary	Iron ore	2	1255.5	7	606.69	9	1862.19
	Chikmagalur	Iron ore	1	4605.42	-	-	1	4605.42
	Chitradurga	Copper ore	-	-	2	416.83	2	416.83
	Gulbarga	Gold	-	-	1	55.75	1	55.75
	Gulbarga	Limestone	3	241.36	-	-	3	241.36
	Hassan	China clay	-	-	2	311.81	2	311.81
	Hassan	Chromite	-	-	6	1306.39	6	1306.39
	Hassan	Quartz	-	-	2	18.21	2	18.21
	Hassan	Steatite	-	-	1	80.93	1	80.93
	Kolar	Gold	1	5213.21	-	-	1	5213.21
	Mandya	Quartz	-	-	1	15.18	1	15.18
	Mysore	Magnesite	-	-	3	136.27	3	136.27
	Uttara Kannada	Manganese ore	-	-	1	80.94	1	80.94
	Raichur	Gold	-	-	6	1521.14	6	1521.14
	Shimoga	China clay	-	-	2	21.85	2	21.85
	Shimoga	Manganese ore	-	-	1	526.10	1	526.10
Tumkur	Gold	-	-	1	38.04	1	38.04	
Udupi	Limeshell	-	-	1	114.53	1	114.53	
		<b>Total</b>	<b>7</b>	<b>11315.49</b>	<b>52</b>	<b>9618.11</b>	<b>59</b>	<b>20933.60</b>

Contd...



Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Kerala	Kollam	China clay	-	-	1	4.66	1	4.66
	Kollam	Sillimanite	4	354.57	-	-	4	354.57
		<b>Total</b>	<b>4</b>	<b>354.57</b>	<b>1</b>	<b>4.66</b>	<b>5</b>	<b>359.23</b>
Madhya Pradesh	Anuppur	Bauxite	-	-	1	148.18	1	148.18
	Balaghat	Copper ore	2	960.00	-	-	2	960.00
	Balaghat	Manganese ore	10	1129.83	-	-	10	1129.83
	Balaghat	Sand (others)	2	15.66	-	-	2	15.66
	Chhatarpur	Phosphorite	-	-	1	48.76	1	48.76
	Jhabua	Phosphorite	-	-	2	11.41	2	11.41
	Katni	Limestone	2	1036.03	-	-	2	1036.03
	Mandla	Dolomite	-	-	1	2.52	1	2.52
	Nimach	Limestone	2	500.45	-	-	2	500.45
	Panna	Diamond	2	275.96	-	-	2	275.96
	Rewa	Bauxite	-	-	1	4.90	1	4.90
	Sagar	Phosphorite	-	-	1	52.80	1	52.80
	Satna	Limestone	2	3025.58	-	-	2	3025.58
	Tikamgarh	Pyrophyllite	-	-	1	5.00	1	5.00
		<b>Total</b>	<b>22</b>	<b>6943.51</b>	<b>8</b>	<b>273.57</b>	<b>30</b>	<b>7217.08</b>
Maharashtra	Bhandara	Kyanite	-	-	5	158.93	5	158.93
	Bhandara	Manganese ore	5	325.44	-	-	5	325.44
	Bhandara	Sand (others)	1	40.41	-	-	1	40.41
	Chandrapur	Fluorite	-	-	1	32.70	1	32.70
	Chandrapur	Sand (others)	5	460.95	-	-	5	460.95
	Gondia	Iron ore	-	-	1	9.32	1	9.32
	Nagpur	Dolomite	-	-	1	55.63	1	55.63

Contd...

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
<b>Maharashtra</b> <b>(Concl.)</b>	Nagpur	Manganese ore	13	382.88	-	-	13	382.88
	Nagpur	Sand (others)	4	191.88	-	-	4	191.88
	Sindhudurg	Feldspar	-	-	1	29.27	1	29.27
	Sindhudurg	Silica sand	-	-	2	138.61	2	138.61
	Yeotmal	Limestone	-	-	2	119.75	2	119.75
	Yeotmal	Sand (others)	1	44.00	-	-	1	44.00
		<b>Total</b>	<b>29</b>	<b>1445.56</b>	<b>13</b>	<b>544.21</b>	<b>42</b>	<b>1989.77</b>
<b>Odisha</b>	Bargarh	Limestone	-	-	1	304.32	1	304.32
	Dhenkanal	Chromite	-	-	2	847.49	2	847.49
	Ganjam	Sillimanite	1	2464.05	-	-	1	2464.05
	Jajpur	Chromite	-	-	7	3117.36	7	3117.36
	Jajpur	Iron ore	-	-	1	1812.99	1	1812.99
	Kalahandi	Ruby	-	-	3	120.80	3	120.80
	Keonjhar	Chromite	-	-	3	1930.17	3	1930.17
	Keonjhar	Iron ore	7	5343.43	8	4529.52	15	9872.95
	Keonjhar	Manganese ore	2	1265.47	6	3415.62	8	4681.09
	Koraput	Bauxite	2	4647.27	-	-	2	4647.27
	Koraput	Limestone	-	-	2	1586.22	2	1586.22
	Nawapara	Garnet (Gem)	-	-	1	33.95	1	33.95
	Nawapara	Limestone	-	-	3	332.96	3	332.96
	Raygada	Manganese ore	-	-	1	501.67	1	501.67
	Sundargarh	Bauxite	1	117.44	-	-	1	117.44
	Sundargarh	Iron ore	4	2593.64	4	2180.90	8	4774.54
	Sundargarh	Limestone	1	793.97	-	-	1	793.97
		<b>Total</b>	<b>18</b>	<b>17225.27</b>	<b>42</b>	<b>20713.97</b>	<b>60</b>	<b>37939.24</b>

Contd...

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Rajasthan	Barmer	Gypsum	-	-	3	726.03	3	726.03
	Bikaner	Gypsum	3	562.32	12	4943.92	15	5506.24
	Dungarpur	Steatite	-	-	1	4.88	1	4.88
	Ganganagar	Gypsum	11	679.93	4	417.83	15	1097.76
	Hanumangarh	Gypsum	-	-	7	3807.68	7	3807.68
	Jaisalmer	Gypsum	2	701.69	1	220.80	3	922.49
	Jaisalmer	Limestone	-	-	2	1997.97	2	1997.97
	Jalore	Fluorite	-	-	4	1175.00	4	1175.00
	Jalore	Gypsum	-	-	1	178.50	1	178.50
	Jhunjhunu	Copper ore	3	706.75	-	-	3	706.75
	Nagaur	Gypsum	-	-	2	1993.12	2	1993.12
	Sirohi	Lead & Zinc ore	-	-	1	63.00	1	63.00
	Udaipur	Barytes	-	-	1	31.00	1	31.00
	Udaipur	Calcite	-	-	1	49.50	1	49.50
	Udaipur	Phosphorite	-	-	4	1851.33	4	1851.33
		<b>Total</b>	<b>19</b>	<b>2650.69</b>	<b>44</b>	<b>17460.56</b>	<b>63</b>	<b>20111.25</b>
<b>Sikkim</b>	Sikkim East	Copper ore	-	-	3	96.32	3	96.32
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>96.32</b>	<b>3</b>	<b>96.32</b>
<b>Tamil Nadu</b>	Ariyalur	Limestone	-	-	6	624.53	6	624.53
	Cuddalore	Fireclay	-	-	1	6.61	1	6.61
	Kanchipuram	Silica sand	-	-	4	21.51	4	21.51
	Kanyakumari	Garnet	3	178.07	-	-	3	178.07
	Karur	Quartz	-	-	1	1.31	1	1.31
	Namakkal	Quartz	-	-	1	2.52	1	2.52
	Salem	Magnesite	3	223.81	-	-	3	223.81

Contd...

Table-14 (concl.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Tamil Nadu (Concl.)	Salem	Quartz	-	-	1	0.28	1	0.28
	Sivaganga	Graphite	-	-	2	242.46	2	242.46
	Tirunelveli	Garnet	-	-	1	4.36	1	4.36
	Tirunelveli	Limestone	-	-	2	31.67	2	31.67
	Tiruppur	Quartz	-	-	1	4.07	1	4.07
	Vellore	Vermiculite	-	-	1	23.71	1	23.71
	Villupuram	Silica sand	-	-	1	3.73	1	3.73
	Virudhunagar	Limestone	-	-	2	449.66	2	449.66
		<b>Total</b>	<b>6</b>	<b>401.88</b>	<b>24</b>	<b>1416.42</b>	<b>30</b>	<b>1818.30</b>
Uttarakhand	Bageshwar	Magnesite	1	165.08	-	-	1	165.08
	Bageshwar	Steatite	1	5.37	-	-	1	5.37
		<b>Total</b>	<b>2</b>	<b>170.45</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>170.45</b>
West Bengal	Purulia	Phosphorite	-	-	1	13.47	1	13.47
	Purulia	Quartz	-	-	1	3.68	1	3.68
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>17.15</b>	<b>2</b>	<b>17.15</b>

### 3.5 YEAR WISE STATUS OF EXPIRY OF MIINING LEASES

Every mining lease is granted for a stipulated period and once this period expires the lessees shall have to apply for renewal to the respective State Governments as per the provisions under MCR, 1960. The period of leases varies from minimum 20 years to a maximum of 30 years. Further renewal(s) are possible for period or periods not exceeding 20 years in each case. Out of the total number of leases in the Directory (10,982), more than 2,552 leases will expire between 2015 and 2021. The year wise breakup of expiry of leases and state wise and year wise breakup of expiry of leases are given in Tables-15 and 16.

**Table-15: Year wise Status of Expiry of Mining Leases as on 31/03/2014\***

Year of Expiry	No. of Leases	Percentage	Area (In Hect.)	Percentage
2015	288	11.28	16165.20	15.89
2016	337	13.20	16999.53	16.70
2017	336	13.17	8119.53	7.98
2018	381	14.93	18307.08	17.99
2019	348	13.64	11097.14	10.90
2020	404	15.83	16205.98	15.93
2021	458	17.95	14864.16	14.61
<b>Total</b>	<b>2552</b>	<b>100.00</b>	<b>101758.62</b>	<b>100.00</b>

**\*Note** As this bulletin of ML/PL 2014 is representing the status of expiry of ML as on 31.3.2014 hence the subsequent amendment in the MMDR Act 1957 that "All mining leases granted before the commencement of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 shall be deemed to have been granted for a period of fifty years or up to a period ending on 31<sup>st</sup> March 2020 (Mineral is used for Non captive purpose) / up to a period ending on 31<sup>st</sup> March 2030 (Mineral is used for captive purpose) whichever is later", is not taken in account in the Tables 15&16.

**Table-16: State wise and Year wise Status of Expiry of Mining Leases**

Sl. No.	State	2015		2016		2017		2018		2019		2020		2021	
		No.	Area (Ha.)	No.	Area (Ha.)	No.	Area (Ha.)	No.	Area (Ha.)	No.	Area (Ha.)	No.	Area (Ha.)	No.	Area (Ha.)
1	Andhra Pradesh	37	1574.85	55	1438.94	77	1849.38	81	1924.00	115	1515.09	170	4905.62	221	3626.25
2	Assam	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Chhattisgarh	23	405.54	20	435	18	1250.90	10	3543.39	17	771.55	12	508.32	13	531.49
4	Goa	-	-	-	-	-	-	01	65.24	-	-	-	-	-	-
5	Gujarat	22	131.42	23	2820.69	18	293.85	38	292.10	33	491.44	21	484.35	28	281.69
6	Haryana	11	1205.9	47	3733.95	-	-	2	58.35	8	357.46	4	331.09	2	66.50
7	Himachal Pradesh	1	3.72	-	-	1	23.57	-	-	2	236.13	1	3.07	2	5.95
8	Jammu & Kashmir	1	15.89	-	-	1	2.76	-	-	-	-	-	-	2	7.67
9	Jharkhand	14	279.56	6	53.34	-	-	1	5.62	-	-	7	681.23	7	37.38
10	Karnataka	16	5760.83	15	773.49	13	393.71	17	2161.56	20	809.41	36	1446.97	36	1607.00
11	Kerala	8	510.23	8	23.15	8	13.11	3	504.68	2	68.76	4	6.15	3	3.52
12	Madhya Pradesh	58	771.29	46	519.9	39	227.46	49	480.14	39	379.69	30	262.96	25	3521.26
13	Maharashtra	7	1052.11	9	810.08	4	103.09	10	1430.42	2	93.84	12	2409.13	9	771.85
14	Meghalaya	-	-	-	-	1	60	-	-	-	-	-	-	1	139.67
15	Odisha	10	736.09	14	448.24	13	1020.04	14	940.82	11	3554.65	16	1487.72	10	1027.30
16	Rajasthan	25	3206.33	38	4907.26	57	2649.12	69	5389.58	49	2656.16	37	3388.31	57	2682.97
17	Sikkim	-	-	-	-	1	18.32	-	-	-	-	1	34.80	-	-
18	Tamil Nadu	54	510.02	47	106.84	81	195.21	82	230.81	45	152.13	36	190.44	32	89.07
19	Uttar Pradesh	--	-	3	755.63	-	-	2	1272.07	-	-	1	4.68	5	447.21
20	Uttarakhand	-	-	4	163.99	4	19.01	1	4.97	3	5.76	15	59.30	2	8.67
21	West Bengal	1	1.42	2	9.03	-	-	1	3.33	2	5.07	1	1.84	3	8.71
	<b>Total</b>	<b>288</b>	<b>16165.2</b>	<b>337</b>	<b>16999.53</b>	<b>336</b>	<b>8119.53</b>	<b>381</b>	<b>18307.08</b>	<b>348</b>	<b>11097.14</b>	<b>404</b>	<b>16205.98</b>	<b>458</b>	<b>14864.16</b>

## Prospecting Licences

Under the Mines & Minerals (Development & Regulation) Act, 1957, “Prospecting Licence” (PL) means a licence granted for the purpose of undertaking “prospecting operations” with a view to exploring, locating or proving mineral deposits. The State Governments and Union Territories are empowered to grant /execute/ renew / revoke prospecting licences (PL) under provisions of Mineral Concession Rules, 1960. The area restrictions for prospecting licences have been substantially liberalised by making such restrictions applicable state wise instead of the country as a whole.

### 4.1 STATE WISE DISTRIBUTION OF PROSPECTING LICENCES

As per information received from the State Governments/Union Territories, 146 prospecting licences were granted covering an area of 24,589 hectares during 2013-14 as compared to 104 prospecting licences covering 13,367 hectares area during 2012-13.

The States where prospecting licences were granted during 2013-14 include Madhya Pradesh (56), Andhra Pradesh (32), Rajasthan (30), Maharashtra (11), Jharkhand & Uttarakhand (6 each), Manipur (4) and Arunachal Pradesh (1). Area wise Madhya Pradesh 9,229.47 hectares, Rajasthan 4,909.27 hectares, Andhra Pradesh 4893.51 hectares, Manipur 3,730.00 hectares, Arunachal Pradesh 1000.00 hectares, Maharashtra 597.44 hectares, Jharkhand 156.77 hectares and Uttarakhand 72.90 hectares.

### 4.2 MINERAL WISE DISTRIBUTION OF PROSPECTING LICENCES

Mineral wise, in 2013-14, prospecting licences granted were for limestone (30), manganese ore (18), laterite (16), China clay (6), Barytes, Iron ore, mica & Talc/soapstone/steatite (5 each), quartz & silica sand 0(3 each), Bauxite (2) and dolomite, fireclay, garnet (abrasive) & pyrophyllite (1 each). Forty four PLs were granted in respect of group of minerals.

The state wise and mineral wise distribution of prospecting licences granted during 2011-12 to 2013-14 is given in Tables -17 and 18 respectively.

**Table-17: Prospecting Licences Granted from 2011-12 to 2013-14  
(By States)**

State	2011-12		2012-13		2013-14	
	No.	Area (In Hect.)	No.	Area (In Hect.)	No.	Area (In Hect.)
Andhra Pradesh	7	2040.16	14	997.53	32	4893.51
Arunachal Pradesh	-	-	-	-	1	1000.00
Chhattisgarh	4	1540.65	-	-	-	-
Gujarat	-	-	1	5.31	-	-
Jharkhand	2	44.50	-	-	6	156.77
Madhya Pradesh	67	4810.26	55	6748.16	56	9229.47
Maharashtra	2	1031.55	-	-	11	597.44
Manipur	4	6000.00	5	2700.00	4	3730.00
Rajasthan	13	4190.27	27	2905.90	30	4909.27
Tamil Nadu	-	-	-	-	-	-
Uttarakhand	16	89.19	2	9.80	6	72.90
<b>Total</b>	<b>115</b>	<b>19746.58</b>	<b>104</b>	<b>13366.70</b>	<b>146</b>	<b>24589.36</b>



**Table-18: Prospecting Licences Granted from 2011-12 to 2013-14  
(By Minerals)**

Mineral	2011-12		2012-13		2013-14	
	No.	Area	No.	Area	No.	Area
		(In Hect.)		(In Hect.)		(In Hect.)
Barytes	2	8.26	-	-	5	22.09
Bauxite	-	-	-	-	2	170.38
Calcite	-	-	1	5.31	-	-
China clay	1	166.04	3	554.47	6	135.00
Chromite	4	6000.00	-	-	-	-
Cherty Dolomite	1	148.00	-	-	-	-
Diamond	1	902.49	1	902.49	-	-
Dolomite	7	107.90	-	-	1	4.50
Fireclay	1	4.80	-	-	1	34.29
Garnet (abrasive)	-	-	2	441.04	1	112.50
Galena	1	4.05	-	-	-	-
Graphite	1	12.91	-	-	-	-
Iron ore	10	2746.63	2	107.48	5	1019.94
Laterite	4	162.28	6	90.76	16	188.91
Limestone	14	6222.10	14	7492.72	30	15410.52
Limestone (cement grade)	-	-	2	446.90	-	-
Manganese ore	20	755.00	10	95.11	18	675.72
Mica	-	-	1	20.36	5	91.63
Pyrophyllite	-	-	-	-	1	25.00
Quartz	1	26.57	-	-	3	93.31
Red ochre	3	85.87	4	271.61	-	-
Red Oxide	1	5.00	-	-	-	-
Rock Phosphate	1	26.41	4	805.19	-	-
Talc/Soapstone/steatite	16	89.19	2	9.80	5	36.96
Semi Precious Stone	-	-	2	25.18	-	-
Silica sand	1	3.19	1	22.50	3	63.94
Siliceous Earth	-	-	2	352.37	-	-
Wollastonite	2	88.88	-	-	-	-
Yellow ochre	1	4.24	-	-	-	-
Group of minerals	22	2176.77	47	1723.41	44	6504.67
<b>Total</b>	<b>115</b>	<b>19746.58</b>	<b>104</b>	<b>13366.70</b>	<b>146</b>	<b>24589.36</b>

## Reconnaissance Permits

The provision of Reconnaissance Permit (RP) was introduced with effect from 20.12.1999 under the Mines & Minerals (Development & Regulation) Act, 1957 and from 18.1.2000 under the Mineral Concession Rules, 1960 & Mineral Conservation and Development Rules, 1988 made under the Act. Reconnaissance Permit is a permit granted for the purpose of undertaking “reconnaissance operations” which means any operation undertaken for preliminary prospecting of a mineral through regional, aerial, geophysical or geochemical surveys and geological mapping, but does not include pitting, trenching, drilling (except drilling of boreholes on a grid specified from time to time by the Central Government) or subsurface excavation.

As per Section 6 (1) one or more Reconnaissance Permits covering a total area of 10,000 sq.km may be granted provided that the area granted under a single Reconnaissance Permit shall not exceed 5000 sq. km in a State. As per Section 7 (1) the period for which a Reconnaissance Permit may be granted shall not exceed 3 years. As per rule 63 A of MCR 1960, the State Government is obligated to dispose of any application for Reconnaissance Permits within six months from the date of receipt of application for such Permits under Rule 4 A of MCR,1960.

During the year 2013-14, no Reconnaissance Permits have approved/granted.

**Table-19: Approval/Grant of Reconnaissance Permits during 2013-14**

Sl. No.	State	Minerals	No. of RPs	Area in sq.km.
-----Nil-----				

