

Government of India  
Ministry of Mines  
**INDIAN BUREAU OF MINES**

**Bulletin of**  
**MINING LEASES & PROSPECTING LICENCE, 2012**  
(Excluding Atomic Minerals, Coal, Lignite, Petroleum, Natural Gas and Minor Minerals)



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*Prepared by*  
**Mineral Economics Division**

# INDIAN BUREAU OF MINES

**C.S.GUNDEWAR**

*Controller General*

## MINERAL ECONOMICS DIVISION

**Dr. R.N. MESHRAM**

*Chief Mineral Economist*

**D.K. SILEKAR**

*Mineral Economist*

**PRABHAT MISHRA**

*Deputy Mineral Economist (Int.)*

**A. PAUL**

*Asstt. Mineral Economist (Int.)*

**A. M. SHAHANE**

*Mineral Officer (Int.)*

**R. N. HAZRA**

*Mineral Officer (Int.)*

**V. J. KHALATKAR**

*Upper Division Clerk*

## PUBLICATIN SECTION

**A.K. SINGH**

*Chief Editor*

**M. SUMESH**

*Editor*

**Mrs I.S. NAIR**

*Senior Technical Assistant*

**P.L. MASRAM**

*Junior Technical Assistant*

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## Preface

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Indian Bureau of Mines is a repository to a vault of mine-mineral information. A deluge of databases generated from all across the country are periodically analysed, interpreted, processed, published and disseminated for public consumption in a continual and ongoing manner. Directory of Mining Leases is one such database that comprises a compilation of country-wide information on Mining Leases granted/executed/renewed/revoked/surrendered. These are regularly assessed, assorted and disseminated by way of published documents, such as, Bulletin of Mineral Information, Bulletin of Mining Leases and Prospecting Licences etc.

Currently in its 15<sup>th</sup> edition, this publication "*Bulletin of Mining Leases and Prospecting Licences 2012*" contains information on Mining Leases, Prospecting Licences as well as Reconnaissance Permits as on 31-3-2012. Information resourced from the Directory of Mining Leases after assortment and analysis with different parameters have been segregated into state wise, district wise, mineral wise and sector wise categories and integrated into the text for easy comprehension. Similarly, the data on distribution of Mining Leases executed across the country have further been demarcated and classified into high, medium and low mineral-potential bearing districts to facilitate easy assimilation. Predominantly statistical, this publication is tailor-made to be a ready reckoner for policy makers, prospective entrepreneurs and other interested readers, who could at a glance formulate a perspective on the geographical spread of mineral availability in the country along with exact positions of distribution of Mining Leases of the various minerals produced to the last and precise detail.

Predominant portions of this publication owe their basis to the updated Directory of Mining Leases as on 31-3-2012, 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. Insofar 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.

Attempts have been made to restrict the contents of this publication exclusive to the subject of coverage and the premise for this intent is that this information could be vital and handy in planning and formulating new ventures, commissioning new projects that would ultimately benefit mineral-based industries and would also stoke the underlying objective of encouraging judicious utilisation of mineral resources in the country.

While Indian Bureau of Mines is profoundly indebted and grateful to all the State Government Departments for furnishing information on mining leases, prospecting licences and reconnaissance permits, it is sincerely believed and hoped that the data that is shared with IBM and that which is transformed for the consumption of every invaluable reader, serve the purpose for which that has been published.

Nagpur  
Dated: 30.08.2013

C.S. Gundewar  
Controller General  
Indian Bureau of Mines

# Chapter 1

## INTRODUCTION

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India has a total geographical area of 328.73 million hectares. Of this, the mining lease area, except for fuel and atomic minerals, minor minerals constitutes around 0.16% (530,282 hectares). The position of mining leases as on 31.3.2012 reveals that there are as many as 11,456 mining leases (compared to 11,003 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 530,282 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 lease gets 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 new 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. In order to give effect to the direction envisioned in the new Mineral Policy, the Ministry of Mines has promulgated the review and refurbishing of the existing Act and has prepared the draft of the new Act, namely, Mines & Minerals (Development and Regulation) Bill, 2011 with the aim to develop the Mineral Sector of the country in a holistic manner. As per existing MMDR Act, 1957, the limit of maximum area under RP, PL and ML is 10,000 sq. km, 25 sq.km and 10 sq.km respectively in a State. 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. The above statements for the previous financial year are required to be submitted to Indian Bureau of Mines on or before 30th June each year by every State Government. From such information received from all the State Governments under statutory provisions, the information pertaining to mining leases and prospecting licences is compiled, processed and updated. These stored data is retrieved and made available for further requisite studies, analysis and for consumption of information seekers.

## Chapter 2

### 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 in Million Hect.	Percentage of Area
	<b>Total Geographical Area</b>	<b>328.73</b>	<b>100.00</b>
1.	Net Area Sown (Crop Area)	140.02	42.59
2.	Permanent pastures & grazing land	10.15	3.09
3.	Forest	70.04	21.31
4.	Mining lease area	0.53	0.16
5.	Fallow lands	26.24	7.98
6.	Land Not Available For Cultivation	42.95	13.07
7.	Other area	38.80	11.80

*Source : Directorate of Economics & Statistics, Department of Agriculture & Cooperation, Agricultural Statistics at a Glance, 2012*

The mining lease area constitutes around 530282.70 hectares which is approximately 0.16% 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 environment aspects as these land areas under mining leases are subjected to various processes of mining activity and are liable to degradation.

## Chapter 3

### MINING LEASES

#### 3.1 STATEWISE ANALYSIS

As per the Lease Directory as on 31.3.2012, there were 11,456 mining leases granted by State Governments for 64 different minerals, covering an area of 5,30,282.70 hectares in the country. States rich in minerals where maximum number of mining leases were granted are Rajasthan (27%) followed by Andhra Pradesh (18%), Gujarat & Madhya Pradesh (10% each), Tamil Nadu (8%), Karnataka (7%), Odisha (4%) and Chhattisgarh, Goa & Jharkhand (3% each). These ten States together account for about 93% of the total leases executed and the remaining thirteen States where such leases were executed accounted for about 7 percent of the total mining leases.

The maximum area in percentage covered under mining leases in different States are Rajasthan (22%) followed by Odisha (14%), Andhra Pradesh (13%), Karnataka (11%), Jharkhand (7%), Madhya Pradesh & Gujarat (6% each), Goa (5%), Chhattisgarh (4%) and Maharashtra (3%). These ten States account for about 91% of the total mining lease area granted and the remaining 9 percent was accounted for by the rest thirteen States.

The State wise mining lease distribution together with lease areas as well as state wise/ district wise distribution of mining leases as on 31.03.2012 are furnished in Tables - 1 to 4.

**Table – 1: State wise Summary of Lease Distribution  
(As on 31.03.2012)**

State	No. of Leases	Percentage	Leases Area (Hect.)	Percentage
Andhra Pradesh	2031	17.73	69607.07	13.13
Assam	8	0.07	929.50	0.18
Bihar	10	0.09	1427.22	0.27
Chhattisgarh	320	2.79	23502.06	4.43
Goa	336	2.93	24394.55	4.60
Gujarat	1162	10.14	29430.04	5.55
Haryana	118	1.03	12255.13	2.31
Himachal Pradesh	54	0.47	3623.80	0.68
Jammu & Kashmir	59	0.52	2680.89	0.51
Jharkhand	332	2.90	36987.64	6.98
Karnataka	762	6.65	58582.73	11.05
Kerala	87	0.76	3274.35	0.62
Madhya Pradesh	1105	9.65	32985.83	6.22

Contd.

Table-1 (Concl.d.)

State	No. of Leases	Percentage	Leases Area (Hect.)	Percentage
Maharashtra	255	2.23	15962.33	3.01
Manipur	2	0.02	610.17	0.12
Meghalaya	18	0.16	606.19	0.11
Odisha	496	4.33	74990.98	14.14
Rajasthan	3085	26.93	116009.93	21.88
Sikkim	3	0.03	96.32	0.02
Tamil Nadu	972	8.48	12558.61	2.37
Uttar Pradesh	98	0.86	7651.28	1.44
Uttarakhand	94	0.82	1411.56	0.27
West Bengal	49	0.43	704.52	0.13
<b>All India</b>	<b>11456</b>	<b>100.00</b>	<b>530282.70</b>	<b>100.00</b>



**Table – 2 : Mineral wise Summary of Lease Distribution  
As on 31/03/2012**

<b>Sl. No.</b>	<b>Mineral</b>	<b>No. of Leases</b>	<b>Lease Area (Hect.)</b>
1	Agate	3	59.62
2	Amethyst	8	80.85
3	Apatite	2	20.17
4	Asbestos	34	1632.75
5	Ball Clay	75	2744.56
6	Barytes	167	2614.26
7	Bauxite	343	30078.20
8	Borax	1	159.00
9	Calcareous sand	14	151.54
10	Calcite	89	1810.92
11	Chalk	163	651.77
12	China clay	519	16904.36
13	Chromite	35	9432.58
14	Clay (others)	106	1270.34
15	Copper Ore	17	9960.09
16	Corundum	17	247.80
17	Diamond	2	275.96
18	Diaspore	12	94.38
19	Dolomite	542	7669.75
20	Dunite	1	14.28
21	Epidote	2	10.00
22	Felsite	6	102.29
23	Felspar	890	11766.22
24	Fireclay	269	5520.78
25	Fluorite	16	1670.71
26	Garnet	102	1110.35
27	Garnet(Gem)	2	17.08
28	Gold	12	6753.31
29	Graphite	112	3481.98
30	Gypsum	108	19108.88
31	Iolite	11	104.35
32	Iron ore	798	96946.26
33	Jasper	5	211.70

Contd.

Table-2 (Concl.)

Sl. No.	Mineral	No. of Leases	Lease Area (Hect.)
34	Kyanite	33	3354.49
35	Laterite	189	2348.79
36	Lead & Zinc ore	12	7175.19
37	Lime kankar	19	654.62
38	Limeshell	37	5109.36
39	Limestone	2109	160875.26
40	Magnesite	40	3099.02
41	Manganese ore	343	23041.90
42	Marl	2	9.15
43	Mica	307	7358.07
44	Moulding sand	61	1376.27
45	Ochre	162	3563.16
46	Perlite	1	144.88
47	Phosphorite	16	3705.78
48	Pyrophyllite	104	2276.85
49	Pyroxenite	10	90.84
50	Quartz	2161	17348.98
51	Quartzite	86	1463.21
52	Ruby	3	9.20
53	Sand (others)	54	13497.90
54	Sapphire	1	673.40
55	Shale	46	738.52
56	Silica sand	569	18121.58
57	Sillimanite	7	3027.06
58	Slate	18	683.31
59	Steatite	505	16739.88
60	Tin	15	321.02
61	Vermiculite	16	285.94
62	White clay	26	218.32
63	White shale	14	71.63
64	Wollastonite	7	222.02
	<b>Total</b>	<b>11456</b>	<b>530282.70</b>

**Table – 3 : State wise/Mineral wise Distribution of Lease and Lease Area  
(As on 31.3.2012)**

<b>State</b>	<b>Mineral</b>	<b>No of Lease</b>	<b>Lease Area (Hect.)</b>
<b>Andhra Pradesh</b>	Amethyst	6	17.51
	Apatite	1	16.12
	Asbestos	5	227.77
	Ball Clay	24	190.04
	Barytes	156	2412.57
	Calcite	9	95.82
	China Clay	39	558.88
	Clay (Others)	11	287.8
	Corundum	6	25.98
	Dolomite	150	2623.15
	Felspar	30	704.2
	Fireclay	28	104.37
	Garnet	10	124.08
	Gold	3	434.02
	Graphite	1	3.11
	Iron ore	64	2526.38
	Laterite	116	1063.82
	Lead & Zinc	1	15.89
	Lime kankar	15	114.88
	Limeshell	4	87.63
	Limestone	269	32386.38
	Manganese ore	58	1822.5
	Mica	117	1931.67
	Moulding sand	1	13.19
	Ochre	27	296.51
	Pyrophyllite	11	460.11
	Quartz	523	5859.78
	Quartzite	39	753.3
	Sand (others)	17	10301.59
	Shale	15	296.91
	Silica sand	126	2197.93
	Slate	15	504.12
	Steatite	99	829.47

Contd.

Table-3 (Contd.)

State	Mineral	No of Lease	Lease Area (Hect.)
<b>Andhra Pradesh (Concl.)</b>	Vermiculite	8	134.71
	White clay	13	113.25
	White shale	14	71.63
	<b>Total</b>	<b>2031</b>	<b>69607.07</b>
<b>Assam</b>	Limestone	8	929.50
	<b>Total</b>	<b>8</b>	<b>929.50</b>
<b>Bihar</b>	Bauxite	1	44.56
	Limestone	6	166.06
	Mica	2	1196.80
	Quartz	1	19.80
	<b>Total</b>	<b>10</b>	<b>1427.22</b>
<b>Chhattisgarh</b>	Bauxite	26	5399.90
	China clay	1	2.29
	Corundum	3	30.95
	Dolomite	83	1077.72
	Fireclay	4	7.77
	Graphite	1	67.11
	Iron ore	17	7820.19
	Limestone	129	8559.77
	Moulding sand	6	33.65
	Ochre	1	10.12
	Quartz	13	43.90
	Quartzite	14	125.88
	Steatite	4	10.42
	Tin	14	300.17
	White shale	4	12.22
<b>Total</b>	<b>320</b>	<b>23502.06</b>	
<b>Goa</b>	Bauxite	3	1304.58
	Iron ore	286	20338.83
	Manganese ore	47	2751.14
	<b>Total</b>	<b>336</b>	<b>24394.55</b>
<b>Gujarat</b>	Agate	1	4.64
	Ball clay	6	197.86

Contd.

Table-3 (Contd.)

State	Mineral	No of Lease	Lease Area (Hect.)
<b>Gujarat (Concl.)</b>	Bauxite	153	5592.25
	Calcareous sand	14	151.54
	Calcite	4	10.33
	Copper ore	1	832.00
	Dolomite	79	952.96
	Felspar	1	1.00
	Fireclay	64	273.62
	Fluorite	2	63.20
	Gypsum	7	86.87
	Laterite	5	617.50
	Limestone	323	16378.58
	Manganese ore	1	2.95
	Marl	2	9.15
	Moulding sand	3	5.82
	Ochre	5	47.29
	Perlite	1	144.88
	Quartz	40	257.55
	Silica sand	76	1026.18
	Steatite	4	13.67
	Vermiculite	1	23.20
	White clay	3	11.32
<b>Total</b>	<b>1162</b>	<b>29430.04</b>	
<b>Haryana</b>	Barytes	1	79.32
	Calcite	2	158.56
	China clay	40	3534.72
	Dolomite	2	252.15
	Felspar	1	128.95
	Limekankar	3	532.00
	Limestone	7	99.88
	Mica	1	400.00
	Quartz	14	675.14
	Quartzite	4	68.24
	Silica sand	41	6202.47
	Slate	2	123.70
	<b>Total</b>	<b>118</b>	<b>12255.13</b>

Contd.

Table-3 (Contd.)

State	Mineral	No of Lease	Lease Area (Hect.)
<b>Himachal Pradesh</b>	Barytes	3	8.42
	Limestone	49	3438.20
	Quartzite	1	4.88
	Shale	1	172.30
	<b>Total</b>	<b>54</b>	<b>3623.80</b>
<b>Jammu &amp; Kashmir</b>	Borax	1	159.00
	China clay	2	59.70
	Gypsum	21	423.74
	Limestone	33	879.75
	Magnesite	1	485.30
	Sapphire	1	673.40
	<b>Total</b>	<b>59</b>	<b>2680.89</b>
<b>Jharkhand</b>	Bauxite	45	3994.58
	China clay	21	1536.27
	Copper ore	4	6417.09
	Dolomite	2	137.19
	Felspar	10	255.72
	Fireclay	25	915.11
	Gold	1	19.50
	Graphite	19	687.57
	Iron ore	51	12516.81
	Kyanite	8	2591.36
	Limestone	53	4512.89
	Mica	31	971.17
	Ochre	1	5.62
	Pyrophyllite	1	22.50
	Pyroxenite	10	90.84
	Quartz	26	301.75
	Quartzite	3	27.83
	Sand (others)	15	1918.18
	Steatite	6	65.66
	<b>Total</b>	<b>332</b>	<b>36987.64</b>
<b>Karnataka</b>	Barytes	1	17.00
	Bauxite	6	393.82
	Calcite	1	17.00

Contd.

Table-3 (Contd.)

State	Mineral	No of Lease	Lease Area (Hect.)
<b>Karnataka (Concl.)</b>	China clay	20	925.96
	Clay (others)	2	24.68
	Copper ore	2	416.83
	Corundum	5	95.50
	Dolomite	20	376.13
	Felsite	6	102.29
	Felspar	5	134.47
	Fireclay	6	290.72
	Gold	8	6299.79
	Graphite	4	235.03
	Iron ore	186	18789.54
	Kyanite	9	315.05
	Laterite	4	102.08
	Lime kankar	1	7.74
	Limeshell	25	2083.17
	Limestone	163	17436.59
	Magnesite	10	223.39
	Manganese ore	82	5172.59
	Moulding sand	47	1274.18
	Ochre	5	155.83
	Quartz	71	963.03
	Quartzite	2	8.09
	Ruby	3	9.20
	Silica sand	48	1092.57
	Steatite	11	279.46
	Vermiculite	3	34.61
	<b>Total</b>	<b>762</b>	<b>58582.73</b>
<b>Kerala</b>	Bauxite	2	0.72
	China clay	31	97.68
	Graphite	1	1.25
	Iron ore	1	86.06
	Laterite	8	31.78
	Limeshell	5	2204.90
	Limestone	1	245.69
	Quartz	2	6.82
	Silica sand	31	41.08
	Sillimanite	5	558.37
	<b>Total</b>	<b>87</b>	<b>3274.35</b>

Contd.

Table-3 (Contd.)

State	Mineral	No of Lease	Lease Area (Hect.)
<b>Madhya Pradesh</b>	Barytes	2	5.37
	Bauxite	63	1342.06
	Calcite	28	69.05
	China clay	19	174.01
	Clay (others)	5	119.25
	Copper ore	2	479.90
	Diamond	2	275.96
	Diaspore	12	94.38
	Dolomite	175	884.37
	Fireclay	40	331.77
	Iron ore	19	251.63
	Laterite	51	432.44
	Lead & Zinc ore	2	12.77
	Limestone	421	24395.72
	Manganese ore	67	1726.83
	Ochre	76	1402.80
	Phosphorite	5	150.67
	Pyrophyllite	52	277.43
	Quartz	7	45.37
	Quartzite	1	6.10
	Sand (others)	3	20.10
	Shale	27	226.92
	Silica sand	4	3.32
	Slate	1	55.49
	Steatite	16	115.44
	Vermiculite	2	27.49
White clay	3	59.19	
<b>Total</b>	<b>1105</b>	<b>32985.83</b>	
<b>Maharashtra</b>	Agate	2	54.98
	Bauxite	32	4915.28
	China clay	1	13.18
	Chromite	1	16.22
	Corundum	1	3.96
	Dolomite	18	297.20

Contd.



Table-3 (Contd.)

State	Mineral	No of Lease	Lease Area (Hect.)
<b>Maharashtra (Concl.)</b>	Felspar	2	53.65
	Fireclay	4	35.11
	Fluorite	1	32.70
	Iron ore	26	1185.91
	Kyanite	12	238.59
	Laterite	5	101.17
	Limestone	54	5543.53
	Manganese ore	38	987.09
	Mica	1	42.06
	Moulding sand	1	42.02
	Quartz	7	46.60
	Sand (others)	12	745.24
	Shale	1	32.49
	Silica Sand	33	1553.01
	White clay	3	22.34
	<b>Total</b>	<b>255</b>	<b>15962.33</b>
<b>Manipur</b>	Chromite	2	610.17
	<b>Total</b>	<b>2</b>	<b>610.17</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>	Amethyst	2	63.34
	Asbestos	2	166.57
	Bauxite	8	6673.47
	China clay	15	1323.96
	Chromite	26	7499.80
	Corundum	2	91.41
	Dolomite	5	523.63
	Dunite	1	14.28
	Fireclay	18	1627.14
	Garnet (Gem)	1	12.08
	Graphite	78	2086.64
	Iolite	11	104.35
	Iron ore	130	31146.87

Contd.

Table-3 (Contd.)

State	Mineral	No of Lease	Lease Area (Hect.)
<b>Odisha (Concl.)</b>	Kyanite	1	55.49
	Lead & zinc ore	1	5.26
	Pyrophyllite	5	231.22
	Quartz	63	1101.74
	Quartzite	18	461.19
	Sand (others)	7	512.79
	Silica sand	1	17.45
	Sillimanite	1	2464.05
	Steatite	7	276.48
	Tin	1	20.85
	<b>Total</b>	<b>496</b>	<b>74990.98</b>
<b>Rajasthan</b>	Asbestos	27	1238.41
	Ball clay	45	2356.66
	Barytes	4	91.58
	Calcite	45	1460.16
	China clay	188	6821.94
	Clay (others)	1	4.67
	Copper Ore	5	1717.95
	Dolomite	6	326.86
	Epidote	2	10.00
	Felspar	841	10488.23
	Fireclay	24	1735.55
	Fluorite	13	1574.81
	Garnet	11	132.67
	Garnet (Gem)	1	5.00
	Graphite	1	123.75
	Gypsum	65	18557.04
	Iron ore	18	2284.04
	Jasper	5	211.70
	Kyanite	3	154.00
	Lead & Zinc ore	8	7141.27
	Limestone	78	26315.19
	Magnesite	3	15.00
	Manganese ore	1	18.90
	Mica	155	2816.37

Contd.

Table-3 (Contd.)

State	Mineral	No of Lease	Lease Area (Hect.)
<b>Rajasthan (Concl.)</b>	Ochre	46	1639.22
	Pyrophyllite	19	2846.53
	Shale	1	5.00
	Silica sand	105	4005.36
	Steatite	269	14218.57
	Vermiculite	1	42.22
	Wollastonite	7	222.02
	<b>Total</b>	<b>3085</b>	<b>116009.93</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
	China clay	1	12.30
	Dolomite	1	62.07
	Fireclay	49	158.61
	Garnet	81	853.60
	Graphite	7	277.52
	Gypsum	15	41.23
	Limeshell	3	733.66
	Limestone	442	7267.93
	Magnesite	22	2003.80
	Quartz	300	575.20
	Silica sand	38	102.80
	Steatite	7	25.14
	Vermiculite	1	23.71
	<b>Total</b>	<b>972</b>	<b>12558.61</b>
<b>Uttar Pradesh</b>	Dolomite	1	156.32
	Limestone	6	3637.47
	Phosphorite	1	874.00
	Pyrophyllite	25	1106.70
	Silica sand	65	1876.79
	<b>Total</b>	<b>98</b>	<b>7651.28</b>

Contd.

Table-3 (Concl.)

<b>State</b>	<b>Mineral</b>	<b>No of Lease</b>	<b>Lease Area (Hect.)</b>
<b>Uttarakhand</b>	Limestone	8	134.46
	Magnesite	4	371.53
	Steatite	82	905.57
	<b>Total</b>	<b>94</b>	<b>1411.56</b>
<b>West Bengal</b>	China clay	25	603.50
	Fireclay	7	41.01
	Moulding sand	3	7.41
	Ochre	1	5.77
	Phosphorite	1	13.47
	Quartz	10	26.04
	Quartzite	1	4.70
	Silica sand	1	2.62
	<b>Total</b>	<b>49</b>	<b>704.52</b>

**Table – 4 : State wise/District wise/Mineral wise Distribution  
of Leases and Lease Area  
(As on 31.3.2012)**

State	District	Mineral	No. of Leases	Lease Area Hect.	
Andhra Pradesh	Adilabad	China clay	9	52.02	
		Laterite	3	13.24	
		Limestone	12	2393.18	
		Manganese ore	16	758.72	
		Quartz	2	9.40	
		Sand (others)	4	7297.93	
		White clay	9	86.87	
		<b>Total</b>	<b>55</b>	<b>10611.36</b>	
	Anantapur	Barytes	3	12.96	
		Calcite	1	4.68	
		China clay	2	12.17	
		Corundum	2	13.41	
		Dolomite	63	890.91	
		Felspar	4	74.55	
		Gold	1	168.43	
		Iron ore	8	196.59	
		Limestone	27	1500.07	
		Ochre	3	22.11	
		Pyrophyllite	3	217.17	
		Quartz	27	432.23	
		Shale	1	3.16	
		Steatite	32	366.21	
		<b>Total</b>	<b>177</b>	<b>3914.65</b>	
		Chittoor	China clay	3	29.33
			Felspar	1	3.78
	Gold		2	265.59	
	Pyrophyllite		3	20.73	
	Quartz		13	125.76	
	Quartzite		1	15.34	
	Steatite		1	1.53	
	White shale		1	6.68	
	<b>Total</b>		<b>25</b>	<b>468.74</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Andhra Pradesh (Contd.)	Cuddapah	Asbestos	5	227.77
		Barytes	127	1795.49
		China clay	5	390.04
		Clay (others)	10	281.80
		Dolomite	19	689.43
		Felspar	15	413.23
		Iron ore	11	1012.25
		Laterite	1	28.07
		Lead & Zinc ore	1	15.89
		Limestone	22	2801.39
		Ochre	11	93.55
		Pyrophyllite	5	222.21
		Quartz	15	277.00
		Quartzite	5	209.06
		Shale	7	83.60
		Silica sand	1	18.70
		Steatite	2	40.13
		<b>Total</b>	<b>262</b>	<b>8599.61</b>
		Godavari East	China clay	13
	Fireclay		23	58.19
	Laterite		23	334.30
	<b>Total</b>		<b>59</b>	<b>416.72</b>
	Godavari West	Ball clay	24	190.04
		China clay	2	7.51
		Fireclay	3	34.03
		Quartz	6	76.64
		<b>Total</b>	<b>35</b>	<b>308.22</b>
	Guntur	Laterite	1	1.97
		Limestone	35	5895.99
		Quartz	14	181.04
		Slate	1	19.61
		White clay	2	13.61
		White shale	1	33.01
	<b>Total</b>	<b>54</b>	<b>6145.23</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Andhra Pradesh (Contd.)	Karimnagar	Iron ore	2	4.00
		Limestone	2	482.52
		Quartz	2	27.51
		Sand (others)	6	2086.71
		Silica sand	1	10.00
		<b>Total</b>	<b>13</b>	<b>2610.74</b>
	Khammam	Barytes	5	304.13
		Corundum	4	12.57
		Dolomite	10	536.32
		Felspar	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)	2	76.48
		<b>Total</b>	<b>53</b>	<b>1149.87</b>
		Krishna	Iron ore	2
	Limestone		21	3250.36
	Quartz		10	22.52
	<b>Total</b>		<b>33</b>	<b>3305.58</b>
	Kurnool	Barytes	6	45.13
		Calcite	2	24.39
		China clay	1	12.14
		Dolomite	55	486.91
		Iron ore	28	438.40
		Limestone	107	9130.86
		Ochre	13	180.85
		Quartz	16	169.19

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Andhra Pradesh (Contd.)	Kurnool (Concl.)	Quartzite	3	28.27
		Shale	4	16.99
		Silica sand	36	944.45
		Steatite	63	419.10
		White shale	12	31.94
		<b>Total</b>	<b>346</b>	<b>11928.62</b>
	Mahbubnagar	Felspar	3	44.65
		Laterite	1	17.82
		Limestone	1	173.64
		Quartz	135	834.64
		Steatite	1	2.50
		<b>Total</b>	<b>141</b>	<b>1073.25</b>
	Medak	Amethyst	1	1.49
		Laterite	10	52.33
		Quartz	29	221.36
		<b>Total</b>	<b>40</b>	<b>275.18</b>
	Nalgonda	Amethyst	1	4.94
		Laterite	7	20.59
		Limestone	36	5319.00
		Quartz	22	151.69
		Shale	2	60.04
		<b>Total</b>	<b>68</b>	<b>5556.26</b>
	Nellore	Barytes	4	49.56
		Felspar	4	92.74
		Iron ore	2	222.21
		Laterite	13	72.86
		Limeshell	3	83.63
		Mica	113	1903.50
		Moulding sand	1	13.19
		Quartz	92	1162.11
		Silica sand	74	1202.51
		Vermiculite	8	134.71
		<b>Total</b>	<b>314</b>	<b>4937.02</b>

Contd.



Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Andhra Pradesh (Contd.)	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	11	205.30
		Garnet	4	4.71
		Iron ore	4	560.29
		Quartz	71	1712.77
		Silica sand	13	14.77
		Slate	14	484.51
		<b>Total</b>	<b>117</b>	<b>2982.35</b>
	Rangareddi	Amethyst	3	7.08
		China clay	1	2.02
		Clay (others)	1	6.00
		Fireclay	2	12.15
		Laterite	19	181.88
		Limestone	6	1439.37
		Quartz	26	174.08
		Shale	1	133.12
		<b>Total</b>	<b>59</b>	<b>1955.70</b>
	Srikakulam	Garnet	1	95.08
		Lime kankar	2	10.98
		Limeshell	1	4.00
		Quartz	2	10.91
		Quartzite	5	99.84
		Sand (others)	1	720.00
		Silica sand	1	7.50
		<b>Total</b>	<b>13</b>	<b>948.31</b>

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Andhra Pradesh (Concl.)	Visakhapatnam	Apatite	1	16.12
		Calcite	6	66.75
		China clay	3	29.42
		Garnet	1	4.35
		Laterite	8	74.56
		Mica	3	6.32
		Quartz	7	111.53
		White clay	2	12.77
		<b>Total</b>	<b>31</b>	<b>321.82</b>
		Vizianagaram	Graphite	1
	Lime kankar		13	103.90
	Manganese ore		42	1063.78
	Quartz		10	82.29
	Quartzite		25	400.79
	Sand (others)		4	120.47
	<b>Total</b>		<b>95</b>	<b>1774.34</b>
	Warangal	Dolomite	3	19.58
		Laterite	25	213.88
		Quartz	1	11.07
	<b>Total</b>	<b>29</b>	<b>244.53</b>	
	Assam	Karbi Anglong	Limestone	1
<b>Total</b>			<b>1</b>	<b>171.00</b>
North Cachar Hills		Limestone	7	758.50
<b>Total</b>	<b>7</b>	<b>758.50</b>		
Bihar	Jamshedpur	Bauxite	1	44.56
		<b>Total</b>	<b>1</b>	<b>44.56</b>
	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>		

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Bihar (Concl.)	Supaul	Quartz	1	19.80
		<b>Total</b>	<b>1</b>	<b>19.80</b>
Chhattisgarh	Bastar	Bauxite	2	27.28
		Limestone	19	57.96
		<b>Total</b>	<b>21</b>	<b>85.24</b>
	Bilaspur	Dolomite	34	277.11
		Limestone	1	582.96
		<b>Total</b>	<b>35</b>	<b>860.07</b>
	Dantewara	Corundum	3	30.95
		Iron ore	6	2696.21
		Tin	14	300.17
		<b>Total</b>	<b>23</b>	<b>3027.33</b>
	Durg	Dolomite	28	127.62
		Iron ore	4	2562.69
		Limestone	46	1359.27
		Moulding sand	3	12.12
		Quartz	1	4.69
		Quartzite	3	24.08
		<b>Total</b>	<b>85</b>	<b>4090.47</b>
	Janjgir-Champa	Dolomite	11	619.72
		Limestone	5	1114.97
		<b>Total</b>	<b>16</b>	<b>1734.69</b>
	Jashpur	Bauxite	2	40.61
Quartz		2	4.36	
<b>Total</b>		<b>4</b>	<b>44.97</b>	
Kabirdham	Bauxite	3	669.64	
	Limestone	4	21.59	
	<b>Total</b>	<b>7</b>	<b>691.23</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Chhattisgarh (Contd.)	Kanker	Bauxite	3	13.22
		Iron ore	4	2178.33
		Moulding sand	1	13.84
		Steatite	4	10.42
		<b>Total</b>	<b>12</b>	<b>2215.81</b>
	Korba	Fireclay	2	2.05
		<b>Total</b>	<b>2</b>	<b>2.05</b>
	Mahasamund	Fireclay	1	0.77
		Quartz	6	13.40
		<b>Total</b>	<b>7</b>	<b>14.17</b>
	Narayanpur	Iron ore	1	192.25
		<b>Total</b>	<b>1</b>	<b>192.25</b>
	Raigarh	Dolomite	8	35.37
		Fireclay	1	4.95
		Limestone	6	19.79
		Quartz	1	2.92
		Quartzite	3	61.00
		<b>Total</b>	<b>19</b>	<b>124.03</b>
	Raipur	Dolomite	2	17.90
		Limestone	46	5396.92
		<b>Total</b>	<b>48</b>	<b>5414.82</b>
	Rajnandgaon	China clay	1	2.29
		Iron ore	2	190.71
Limestone		2	6.31	
Moulding sand		2	7.69	
Ochre		1	10.12	
Quartz		3	18.53	
Quartzite		8	40.80	
White shale		4	12.22	
<b>Total</b>	<b>23</b>	<b>288.67</b>		

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.	
Chhattisgarh (Concl.)	Surguja	Bauxite	16	4649.15	
		Graphite	1	67.11	
		<b>Total</b>	<b>17</b>	<b>4716.26</b>	
Goa	North Goa	Iron ore	86	6422.54	
		Manganese ore	13	701.95	
		<b>Total</b>	<b>99</b>	<b>7124.49</b>	
	South Goa	Bauxite	3	1304.58	
		Iron ore	200	13916.29	
		Manganese ore	34	2049.19	
		<b>Total</b>	<b>237</b>	<b>17270.06</b>	
	Gujarat	Amreli	Bauxite	2	147.98
			China clay	1	3.01
Clay (others)			1	88.54	
Limestone			5	1864.76	
<b>Total</b>			<b>9</b>	<b>2104.29</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>	
Bharuch		Agate	1	4.64	
		Ball clay	1	183.87	
		Silica sand	24	587.21	
		<b>Total</b>	<b>26</b>	<b>775.72</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>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Gujarat (Contd.)	Dahod	Quartz	6	43.52
		<b>Total</b>	<b>6</b>	<b>43.52</b>
	Jamnagar	Bauxite	112	3141.49
		Calcareous sand	14	151.54
		Chalk	12	41.55
		Clay (others)	3	28.78
		Limestone	64	2221.26
		Marl	2	9.15
		Ochre	1	20.23
		<b>Total</b>	<b>208</b>	<b>5614.00</b>
		Junagarh	Limestone	107
	<b>Total</b>		<b>107</b>	<b>3788.06</b>
	Kheda	Bauxite	16	84.76
		Limestone	1	10.93
		Quartz	5	19.27
		<b>Total</b>	<b>22</b>	<b>114.96</b>
	Kachchh	Ball clay	4	8.50
		Bauxite	11	2068.08
		China clay	97	658.00
		Clay (others)	75	595.30
		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>216</b>	<b>9879.77</b>	
Mehesana		China clay	10	184.79
	<b>Total</b>	<b>10</b>	<b>184.79</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Gujarat (Contd.)	Panchmahals	Limestone	1	0.49
		Manganese ore	1	2.95
		Quartz	29	194.76
		Silica Snd	1	5.00
		<b>Total</b>	<b>32</b>	<b>203.20</b>
	Patan	Ball clay	1	5.49
		China clay	1	36.22
		Clay (others)	5	103.82
		Ochre	3	23.06
		White clay	2	6.32
		<b>Total</b>	<b>12</b>	<b>174.91</b>
	Porbandar	Bauxite	6	112.39
		Chalk	125	511.63
		Laterite	1	90.53
		Limestone	128	2615.43
		<b>Total</b>	<b>260</b>	<b>3329.98</b>
	Rajkot	Chalk	25	86.59
		Fireclay	22	89.72
		Gypsum	2	3.24
		Limestone	3	12.00
		Perlite	1	144.88
Silica sand		3	12.50	
<b>Total</b>		<b>56</b>	<b>348.93</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Gujarat (Concl.)	Sabarkantha	Bauxite	6	37.55
		Calcite	3	6.57
		China clay	7	357.95
		Felspar	1	1.00
		Fireclay	5	10.07
		Limestone	2	2.53
		Silica sand	11	67.64
		Steatite	4	13.67
		<b>Total</b>	<b>39</b>	<b>496.98</b>
		Surat	Limestone	1
	Silica sand		1	6.52
	<b>Total</b>		<b>2</b>	<b>86.52</b>
	Surendranagar	Clay (others)	2	7.79
		Fireclay	36	170.83
		Moulding sand	2	3.02
		Silica sand	28	161.90
		<b>Total</b>	<b>68</b>	<b>343.54</b>
	Vadodara	Dolomite	75	884.87
		Fluorite	2	63.20
Vermiculite		1	23.20	
<b>Total</b>		<b>78</b>	<b>971.27</b>	
Haryana	Bhiwani	Limekankar	3	532.00
		<b>Total</b>	<b>3</b>	<b>532.00</b>
	Faridabad	China clay	3	363.60
		Silica sand	26	5154.96
		<b>Total</b>	<b>29</b>	<b>5518.56</b>
	Gurgaon	China clay	37	3171.12
		Quartz	4	97.94
		Quartzite	2	47.78
		<b>Total</b>	<b>58</b>	<b>4364.35</b>

Contd.



Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.	
Haryana (Concl.)	Mahendragarh	Barytes	1	79.32	
		Calcite	2	158.56	
		Dolomite	2	252.15	
		Felspar	1	128.95	
		Limestone	7	99.88	
		Mica	1	400.00	
		Quartz	10	577.20	
		Slate	1	81.35	
		<b>Total</b>	<b>25</b>	<b>1777.41</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	44	1398.59
			Shale	1	172.30
			<b>Total</b>	<b>48</b>	<b>1579.31</b>
		Solan	Limestone	3	1082.50
		<b>Total</b>	<b>3</b>	<b>1082.50</b>	
Jammu & Kashmir	Anantnag	Limestone	22	216.13	
		<b>Total</b>	<b>22</b>	<b>216.13</b>	
		Baramula	Gypsum	13	65.45
			<b>Total</b>	<b>13</b>	<b>65.45</b>
		Doda	Gypsum	5	105.13
			<b>Total</b>	<b>5</b>	<b>105.13</b>

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Jammu & Kashmir (Concl.)	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	2	200.89
		<b>Total</b>	<b>2</b>	<b>200.89</b>
	Pulwama	Limestone	7	240.52
		<b>Total</b>	<b>7</b>	<b>240.52</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>
Udhampur	China clay	2	59.70	
	<b>Total</b>	<b>2</b>	<b>59.70</b>	
Jharkhand	Bokaro	Limestone	1	17.57
		Sand (others)	2	152.83
		<b>Total</b>	<b>3</b>	<b>170.40</b>
	Deogarh	Felspar	2	2.93
		Quartz	1	4.22
		<b>Total</b>	<b>3</b>	<b>7.15</b>
	Dhanbad	Fireclay	6	294.51
		Limestone	1	17.40
		Quartz	1	5.18
		Sand (others)	13	1765.35
<b>Total</b>		<b>21</b>	<b>2082.44</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Jharkhand (Contd.)	Dumka	Quartz	1	0.88
		<b>Total</b>	<b>1</b>	<b>0.88</b>
	Garwah	Dolomite	1	118.74
		Limestone	3	1178.92
		<b>Total</b>	<b>4</b>	<b>1297.66</b>
	Giridih	Felspar	1	191.42
		Mica	3	190.72
		Steatite	1	3.64
		<b>Total</b>	<b>5</b>	<b>385.78</b>
	Godda	Limestone	1	18.82
		<b>Total</b>	<b>1</b>	<b>18.82</b>
	Gumla	Bauxite	25	2660.75
		<b>Total</b>	<b>25</b>	<b>2660.75</b>
	Hazaribagh	Felspar	1	3.13
		Fireclay	4	215.04
		Limestone	10	446.48
		Mica	1	197.00
		Pyrophyllite	1	22.50
		Quartz	1	8.20
		<b>Total</b>	<b>18</b>	<b>892.35</b>
	Kodarma	Felspar	4	19.43
		Mica	26	579.00
		Quartz	6	89.89
		Steatite	1	1.08
		<b>Total</b>	<b>37</b>	<b>689.40</b>
	Latehar	Bauxite	2	478.35
		China clay	1	8.25
Fireclay		15	405.56	
Graphite		1	17.81	
Iron ore		2	45.18	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Jharkhand (Contd.)	Latehar (Contd.)	Mica	1	4.45
		Quartz	11	142.32
		<b>Total</b>	<b>33</b>	<b>1101.92</b>
	Lohardaga	Bauxite	18	855.48
		<b>Total</b>	<b>18</b>	<b>855.48</b>
	Palamau	Dolomite	1	18.45
		Felspar	1	1.25
		Graphite	18	669.76
		Iron ore	4	58.06
		Limestone	2	1069.80
		Steatite	1	2.52
		<b>Total</b>	<b>27</b>	<b>1819.84</b>
	Ranchi	China clay	2	19.07
		Felspar	1	37.56
		Limestone	6	1335.35
		<b>Total</b>	<b>9</b>	<b>1391.98</b>
	Sahebganj	China clay	2	12.25
		<b>Total</b>	<b>2</b>	<b>12.25</b>
	Saraikela-Kharaswan	Kyanite	1	3.84
		Pyroxenite	3	25.78
		Quartz	4	49.04
		Steatite	1	31.36
		<b>Total</b>	<b>9</b>	<b>110.02</b>
Singhbhum (East)	Copper ore	4	6417.09	
	Gold	1	19.50	
	Kyanite	1	2.43	
	Limestone	23	373.83	
	<b>Total</b>	<b>29</b>	<b>6812.85</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Jharkhand (Concl.)	Singhbhum (West)	China clay	16	1496.70
		Iron ore	45	12413.57
		Kyanite	6	2585.09
		Limestone	6	54.72
		Ochre	1	5.62
		Pyroxenite	7	65.06
		Quartz	1	2.02
		Quartzite	3	27.83
		Steatite	2	27.06
		<b>Total</b>	<b>87</b>	<b>16677.67</b>
		Karnataka	Bagalkot	Dolomite
Iron ore	3			74.84
Limestone	95			5880.18
Manganese ore	1			59.60
Quartz	1			4.05
<b>Total</b>	<b>114</b>			<b>6309.73</b>
Bengaluru	China clay		1	48.56
	Corundum		2	12.14
	Felspar		4	131.91
	Fireclay		1	2.02
	Manganese ore		1	2.83
	Ruby		1	4.07
	Silica sand		1	41.83
	<b>Total</b>		<b>11</b>	<b>243.36</b>
Belgaum	Bauxite		5	370.02
	Calcite		1	17.00
	China clay		5	83.50
	Clay (others)		2	24.68
	Dolomite		5	80.62
	Fire clay		1	2.16
	Iron ore		1	20.23
	Laterite		3	100.06
	Limestone		19	1069.12
	Manganese ore	1	40.47	
	Moulding sand	4	61.92	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Karnataka (Contd.)	Belgaum (Concl.)	Quartz	2	12.81
		Quartzite	2	8.09
		Silica sand	4	13.40
		<b>Total</b>	<b>55</b>	<b>1904.08</b>
	Bellary	Iron ore	130	10696.80
		Limestone	1	4.04
		Manganese ore	11	665.59
		Moulding sand	6	39.64
		Ochre	1	69.61
		Quartz	16	108.78
		Steatite	3	6.19
		<b>Total</b>	<b>168</b>	<b>11590.65</b>
		Bidar	Ochre	1
	<b>Total</b>		<b>1</b>	<b>21.85</b>
	Chickballapura	China clay	4	352.91
		Felspar	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>
	Chikmagalur	Dolomite	1	4.45
		Iron ore	3	4679.10
		Quartz	1	7.41
		<b>Total</b>	<b>5</b>	<b>4690.96</b>
	Chitradurga	Barytes	1	17.00
		Copper ore	2	416.83
		Iron ore	19	721.47
		Kyanite	1	169.96
		Limestone	17	1883.93
		Manganese ore	34	1623.22
		Moulding sand	1	48.56
		Quartz	8	194.26
	<b>Total</b>	<b>83</b>	<b>5075.23</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Karnataka (Contd.)	Coorg	Corundum	1	0.80
		<b>Total</b>	<b>1</b>	<b>0.80</b>
	Dawangere	Iron ore	1	38.44
		Manganese ore	3	77.49
		Moulding sand	8	201.23
		Ochre	1	1.65
		Quartz	4	176.31
		<b>Total</b>	<b>17</b>	<b>495.12</b>
		Dharwar	China clay	1
	Iron ore		3	150.95
	Quartz		1	4.86
	<b>Total</b>		<b>5</b>	<b>176.04</b>
	Gadag	Iron ore	1	39.42
		Quartz	1	4.85
		<b>Total</b>	<b>2</b>	<b>44.27</b>
	Gulbarga	Gold	1	55.75
		Lime kankar	1	7.74
		Limestone	17	7054.74
		Moulding sand	2	97.50
		Quartz	2	32.29
		<b>Total</b>	<b>23</b>	<b>7248.02</b>
	Hassan	China clay	2	311.81
		Chromite	6	1306.39
Kyanite		1	2.93	
Quartz		4	70.76	
Steatite		2	170.93	
Vermiculite		1	26.30	
<b>Total</b>		<b>16</b>	<b>1889.12</b>	
Haveri	Moulding sand	24	672.57	
	<b>Total</b>	<b>24</b>	<b>672.57</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Karnataka (Contd.)	Kolar	China clay	1	20.23
		Gold	1	5213.21
		<b>Total</b>	<b>2</b>	<b>5233.44</b>
	Koppal	Quartz	9	84.96
		<b>Total</b>	<b>9</b>	<b>84.96</b>
	Mandya	Felsite	2	2.88
		Quartz	4	35.22
		Ruby	2	5.13
		<b>Total</b>	<b>8</b>	<b>43.23</b>
	Mysore	Corundum	2	82.56
		Felsite	4	99.41
		Graphite	4	235.03
		Kyanite	6	139.73
		Limestone	2	24.28
		Magnesite	10	223.39
		Quartz	3	9.03
		Steatite	1	12.14
		Vermiculite	2	8.31
		<b>Total</b>	<b>34</b>	<b>833.88</b>
		North Kannada (Uttar Kannada)	Iron ore	5
	Limeshell		16	1185.56
	Limestone		1	151.71
	Manganese ore		9	870.29
	Moulding sand		2	152.76
	Quartz		1	1.82
	Silica sand		15	265.61
	<b>Total</b>		<b>49</b>	<b>3091.23</b>
	Raichur	Gold	5	992.79
		Limestone	1	423.11
		Quartz	2	6.59
		<b>Total</b>	<b>8</b>	<b>1422.49</b>
	Shimoga	China clay	4	42.99
		Iron ore	2	745.84
Kyanite		1	2.43	
Limestone		1	40.12	

Contd.



Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Karnataka (Concl.)	Shimoga (Concl.)	Manganese ore	3	597.60
		Quartz	1	16.19
		<b>Total</b>	<b>12</b>	<b>1445.17</b>
	South Kannada (Dakshina Kannada)	Limeshell	2	152.97
		Quartz	1	1.95
		Silica sand	4	40.28
		<b>Total</b>	<b>7</b>	<b>195.20</b>
	Tumkur	China clay	2	45.73
		Fireclay	2	252.15
		Gold	1	38.04
		Iron ore	18	1158.97
		Limestone	9	905.36
		Manganese ore	19	1235.50
		Ochre	1	6.07
		Quartz	8	125.43
		Steatite	5	90.20
		<b>Total</b>	<b>65</b>	<b>3857.45</b>
	Udupi	Bauxite	1	23.80
		Limeshell	7	744.64
		Ochre	1	56.65
Silica sand		24	731.45	
<b>Total</b>		<b>33</b>	<b>1556.54</b>	
Kerala	Alapuzha (Alleppy)	Laterite	1	1.13
		Limeshell	3	759.90
		Silica sand	31	41.08
		<b>Total</b>	<b>35</b>	<b>802.11</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>

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Kerala (Concl.)	Kannur	Laterite	6	10.41
		<b>Total</b>	<b>6</b>	<b>10.41</b>
	Kasargod	Laterite	1	20.24
		<b>Total</b>	<b>1</b>	<b>20.24</b>
	Kollam	Bauxite	2	0.72
		China clay	2	7.85
		Sillimanite	5	558.37
		<b>Total</b>	<b>9</b>	<b>566.94</b>
	Kottayam	Limeshell	2	1445.00
		<b>Total</b>	<b>2</b>	<b>1445.00</b>
	Kozhikode	Iron ore	1	86.06
		Quartz	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	13.44
		Dolomite	31	184.55
		Limestone	1	2.15
		Steatite	1	3.59
		Vermiculite	2	27.49
		<b>Total</b>	<b>38</b>	<b>231.22</b>
	Anuppur	Bauxite	3	170.82
		Ochre	1	8.10
		<b>Total</b>	<b>4</b>	<b>178.92</b>
	Badwani	Calcite	25	55.61
		<b>Total</b>	<b>25</b>	<b>55.61</b>

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Madhya Pradesh (Contd.)	Balaghat	Bauxite	1	40.46
		Copper ore	2	479.90
		Dolomite	17	128.93
		Fireclay	1	2.41
		Iron ore	1	4.95
		Limestone	8	79.65
		Manganese ore	48	1518.21
		Ochre	1	16.18
		Sand (others)	2	18.08
		<b>Total</b>	<b>81</b>	<b>2288.77</b>
		Betul	Lead & Zinc ore	2
	White clay		1	39.84
	<b>Total</b>		<b>3</b>	<b>52.61</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	9
	Manganese ore		11	141.63
	<b>Total</b>		<b>20</b>	<b>202.26</b>
	Damoh	Laterite	1	21.25
		Limestone	10	1496.36
		Sand (others)	1	2.02
		<b>Total</b>	<b>12</b>	<b>1519.63</b>
	Datia	Quartz	2	14.09
		<b>Total</b>	<b>2</b>	<b>14.09</b>

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Madhya Pradesh (Contd.)	Dewas	Barytes	1	3.35
		<b>Total</b>	<b>1</b>	<b>3.35</b>
	Dhar	Limestone	38	1317.76
		Ochre	1	6.31
		<b>Total</b>	<b>39</b>	<b>1324.07</b>
	Gwalior	China clay	1	20.63
		Iron ore	3	19.90
		Laterite	1	4.84
		Quartz	1	1.30
		<b>Total</b>	<b>6</b>	<b>46.67</b>
	Jabalpur	Bauxite	5	30.15
		Dolomite	29	150.80
		Fireclay	17	116.16
		Iron ore	14	214.19
		Laterite	12	81.39
		Limestone	12	1080.91
		Manganese ore	5	27.32
		Ochre	5	23.64
		Quartz	2	13.98
		Silica sand	1	0.60
		Steatite	3	43.34
		White clay	1	18.66
		<b>Total</b>	<b>106</b>	<b>1801.14</b>
	Jhabua	Dolomite	5	24.02
		Manganese ore	3	39.67
		Phosphorite	3	49.11
		<b>Total</b>	<b>11</b>	<b>112.80</b>
Katni	Bauxite	11	105.26	
	Dolomite	23	137.76	
	Fireclay	16	160.83	
	Iron ore	1	12.59	
	Laterite	3	16.07	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Madhya Pradesh (Contd.)	Katni (Concl.)	Limestone	94	3175.34
		Ochre	5	14.13
		Steatite	3	27.45
		<b>Total</b>	<b>156</b>	<b>3649.43</b>
	Khargaon	China clay	1	0.61
		Dolomite	1	4.04
		Limestone	2	4.89
		Silica sand	3	2.72
		<b>Total</b>	<b>7</b>	<b>12.26</b>
	Mandla	Dolomite	39	119.59
		<b>Total</b>	<b>39</b>	<b>119.59</b>
	Mandsaur	Laterite	11	61.12
		Shale	27	226.92
		Slate	1	55.49
		<b>Total</b>	<b>39</b>	<b>343.53</b>
	Morena	Limestone	1	18.00
		<b>Total</b>	<b>1</b>	<b>18.00</b>
	Narasinhapur	Dolomite	5	14.10
		Fireclay	1	20.00
		Limestone	2	35.06
		Steatite	7	30.70
		<b>Total</b>	<b>15</b>	<b>99.86</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	District	Mineral	No. of Leases	Lease Area 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	2	20.36
		Phosphorite	1	52.80
		Pyrophyllite	2	3.21
		<b>Total</b>	<b>5</b>	<b>76.37</b>
	Satna	Bauxite	29	344.09
		China clay	11	100.57
		Clay (others)	5	119.25
		Laterite	17	176.75
		Limestone	212	12913.93
		Ochre	45	1064.78
		White clay	1	0.69
		<b>Total</b>	<b>320</b>	<b>14720.06</b>
	Seoni	Dolomite	12	22.31
		<b>Total</b>	<b>12</b>	<b>22.31</b>
	Shahdol	Bauxite	1	500.27
		China clay	3	20.84
		Fireclay	1	5.66
		Laterite	1	17.74
		Ochre	2	26.76
		<b>Total</b>	<b>8</b>	<b>571.27</b>
	Shivpuri	Diaspore	1	17.00
		Pyrophyllite	1	17.00
		<b>Total</b>	<b>2</b>	<b>34.00</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	District	Mineral	No. of Leases	Lease Area Hect.
Madhya Pradesh (Concl.)	Sidhi	Bauxite	1	3.40
		Limestone	4	497.77
		Ochre	3	119.31
		<b>Total</b>	<b>8</b>	<b>620.48</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>
	Umari	China clay	1	11.24
		Fireclay	4	26.71
		Ochre	3	23.01
<b>Total</b>		<b>8</b>	<b>60.96</b>	
Maharashtra	Amravati	Fireclay	3	29.97
		<b>Total</b>	<b>3</b>	<b>29.97</b>
	Bhandara	Chromite	1	16.22
		Corundum	1	3.96
		Kyanite	12	238.59
		Manganese ore	7	344.87
		Quartz	3	9.38
		Sand (others)	2	48.41
		<b>Total</b>	<b>26</b>	<b>661.43</b>
	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>		

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Maharashtra (Contd.)	Gadchiroli	Iron ore	3	355.03
		<b>Total</b>	<b>3</b>	<b>355.03</b>
	Gondia	Iron ore	4	35.75
		Quartz	1	14.32
		<b>Total</b>	<b>5</b>	<b>50.07</b>
	Jalna	Agate	2	54.98
		<b>Total</b>	<b>2</b>	<b>54.98</b>
	Kolhapur	Bauxite	15	3483.45
		Iron ore	1	144.00
		Silica Sand	1	4.95
		<b>Total</b>	<b>17</b>	<b>3632.40</b>
	Nagpur	Dolomite	16	175.19
		Manganese ore	31	642.22
		Quartz	1	1.07
		Sand (others)	4	191.88
		White clay	2	4.34
		<b>Total</b>	<b>54</b>	<b>1014.70</b>
	Raigad	Bauxite	8	484.21
		<b>Total</b>	<b>8</b>	<b>484.21</b>
	Ratnagiri	Bauxite	7	777.56
		Moulding sand	1	42.02
		Silica sand	7	411.66
		<b>Total</b>	<b>15</b>	<b>1231.24</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	
	Felspar	2	53.65	
	Fireclay	1	5.14	

Contd.



Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Maharashtra (Concl.)	Sindhudurg (Concl.)	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>
	Yeotmal	Dolomite	1	61.91
		Limestone	38	2201.06
		Sand (others)	1	44.00
		<b>Total</b>	<b>40</b>	<b>2306.97</b>
	Manipur	Chandel	Chromite	1
<b>Total</b>			<b>1</b>	<b>223.93</b>
Ukhrul		Chromite	1	386.24
		<b>Total</b>	<b>1</b>	<b>386.24</b>
Meghalaya	Jaintia Hills	Limestone	11	51.87
		<b>Total</b>	<b>11</b>	<b>51.87</b>
	Khasi Hills East	Limestone	4	484.78
		Shale	1	4.90
		<b>Total</b>	<b>5</b>	<b>489.68</b>
	Khasi Hills West	Limestone	1	60.00
Sillimanite		1	4.64	
<b>Total</b>	<b>2</b>	<b>64.64</b>		
Odisha	Angul	Fireclay	1	313.85
		Quartz	2	18.87
		Sand (others)	4	393.67
		<b>Total</b>	<b>7</b>	<b>726.39</b>
	Bargarh	China clay	1	74.27
		Graphite	9	183.17
		Limestone	3	903.56
		<b>Total</b>	<b>13</b>	<b>1161.00</b>

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area 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	41	989.19
		Lead & zinc ore	1	5.26
		Limestone	1	27.65
		Manganese ore	1	7.27
		Quartz	4	166.49
		<b>Total</b>	<b>49</b>	<b>1207.94</b>
		Cuttack	Fireclay	9
	<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
		Quartz	1	7.22
		Quartzite	2	6.15
		<b>Total</b>	<b>21</b>	<b>6171.08</b>
	Jharsuguda	Fireclay	2	72.02
		Quartz	1	83.66
		Quartzite	3	298.12
		Sand (others)	1	109.20
<b>Total</b>		<b>7</b>	<b>563.00</b>	
Kalahandi	Amethyst	2	63.34	
	Corundum	1	57.46	
	Graphite	9	106.36	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Odisha (Contd.)	Kalahandi (Concl.)	lolite	10	80.06
		Quartz	33	282.31
		<b>Total</b>	<b>55</b>	<b>589.53</b>
	Keonjhar	Asbestos	1	49.22
		Chromite	6	2194.28
		Iron ore	77	20411.87
		Manganese ore	23	6662.35
		Pyrophyllite	5	231.22
		Quartz	3	55.25
		<b>Total</b>	<b>115</b>	<b>29604.19</b>
		Khurda	Fireclay	1
	<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>
	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	1520.22
		Kyanite	1	55.49
		Quartz	2	20.11
		Quartzite	12	132.75
		Steatite	3	107.66
<b>Total</b>	<b>40</b>	<b>3077.22</b>		

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Odisha (Concl.)	Nawapara	Corundum	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	13	606.00
		Manganese ore	5	579.58
		Quartz	3	95.66
		<b>Total</b>	<b>22</b>	<b>2669.98</b>
	Sambalpur	China clay	1	40.47
		lolite	1	24.29
		Quartz	2	31.88
		Steatite	1	4.05
		<b>Total</b>	<b>5</b>	<b>100.69</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	43	7401.79
		Limestone	34	5100.63
		Manganese ore	20	3310.70
		Quartz	4	173.51
		Quartzite	1	24.17
		Sand (others)	2	9.92
		Silica sand	1	17.45
		Steatite	2	161.13
		<b>Total</b>	<b>119</b>	<b>17636.94</b>

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.	
Rajasthan	Ajmer	Asbestos	4	214.66	
		Calcite	1	19.50	
		Felspar	308	2971.86	
		Garnet	5	24.14	
		Lead & Zinc ore	1	480.45	
		Limestone	1	8.57	
		Magnesite	1	5.00	
		Mica	43	1176.25	
		Quartz	135	916.15	
		Steatite	2	131.00	
		Vermiculite	1	42.22	
		Wollastonite	2	9.92	
		<b>Total</b>	<b>504</b>	<b>5999.72</b>	
		Alwar	Barytes	2	13.07
			China clay	1	4.50
	Copper ore		1	914.07	
	Felspar		3	13.99	
	Fireclay		1	3.75	
	Ochre		1	60.70	
	Silica sand		2	8.73	
	Steatite		9	472.85	
	<b>Total</b>		<b>20</b>	<b>1491.66</b>	
	Banswara		Dolomite	1	71.32
		Graphite	1	123.75	
		Limestone	2	66.82	
		Manganese ore	1	18.90	
		Phosphorite	1	300.00	
		Steatite	2	316.76	
		<b>Total</b>	<b>8</b>	<b>897.55</b>	
	Barmer	China clay	4	19.90	
		Gypsum	6	1839.05	
		Silica sand	5	551.09	
		<b>Total</b>	<b>15</b>	<b>2410.04</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Rajasthan (Contd.)	Bharatpur	Fireclay	2	10.00
		Ochre	2	9.90
		Silica sand	16	447.20
		<b>Total</b>	<b>20</b>	<b>467.10</b>
	Bhilwara	Asbestos	9	45.00
		Calcite	4	19.00
		China clay	19	782.68
		Felspar	476	6619.39
		Garnet (Gem)	1	5.00
		Iron ore	1	1556.78
		Kyanite	3	154.00
		Lead & Zinc ore	1	1200.00
		Limestone	13	13.00
		Mica	101	1425.04
		Ochre	4	18.55
		Pyrophyllite	1	4.75
		Quartz	4	57.88
		Silica sand	1	5.00
		Steatite	37	3068.09
		<b>Total</b>	<b>675</b>	<b>14974.16</b>
		Bikaner	Ball clay	35
	China clay		53	3128.98
	Fireclay		17	1631.81
	Gypsum		22	6657.27
	Quartz		2	8.65
	<b>Total</b>		<b>129</b>	<b>12764.27</b>
	Bundi	China clay	2	109.00
		Ochre	2	99.37
		Quartz	1	4.50
		Silica sand	1	125.00
		<b>Total</b>	<b>6</b>	<b>337.87</b>

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Rajasthan (Contd.)	Chittorgarh	Ball clay	1	83.23
		China clay	37	1004.87
		Limestone	9	4840.45
		Ochre	28	1104.90
		Quartz	32	140.35
		Shale	1	5.00
		<b>Total</b>	<b>108</b>	<b>7178.80</b>
		Dausa	Iron ore	1
	Quartz		2	91.90
	Silica sand		4	237.38
	Steatite		3	309.62
	<b>Total</b>		<b>10</b>	<b>704.15</b>
	Dungarpur	Felspar	1	100.00
		Fluorite	8	332.19
		Steatite	55	2216.70
		<b>Total</b>	<b>64</b>	<b>2648.89</b>
	Ganganagar	Gypsum	24	6013.54
		<b>Total</b>	<b>24</b>	<b>6013.54</b>
	Hanumangarh	Gypsum	3	368.09
		<b>Total</b>	<b>3</b>	<b>368.09</b>
	Jaipur	Asbestos	1	66.50
		Calcite	1	296.41
		China clay	8	1136.89
		Dolomite	2	92.93
		Epidote	2	10.00
		Felspar	11	245.39
		Iron ore	6	308.56
		Limestone	3	1334.90
		Mica	2	38.18
		Ochre	2	183.00
		Quartz	80	837.44
		Silica sand	17	819.58
		Steatite	12	843.88
		<b>Total</b>	<b>147</b>	<b>6213.66</b>

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.	
Rajasthan (Contd.)	Jaipur (Concl.)	Quartz	80	837.44	
		Silica sand	17	819.58	
		Steatite	12	843.88	
		<b>Total</b>	<b>147</b>	<b>6213.66</b>	
	Jaisalmer	Ball clay	1	150.00	
		Dolomite	1	32.37	
		Gypsum	4	1067.89	
		Limestone	2	1998.00	
		Ochre	1	32.37	
		Silica sand	8	385.00	
		<b>Total</b>	<b>17</b>	<b>3665.63</b>	
	Jalore	Fluorite	4	1075.00	
		Gypsum	1	178.50	
		<b>Total</b>	<b>5</b>	<b>1253.50</b>	
	Jhunjhunu	Calcite	4	109.94	
		Copper Ore	4	803.88	
		Dolomite	1	33.68	
		Felspar	1	4.00	
		Fireclay	3	84.99	
		Iron ore	5	257.54	
		Ochre	1	33.00	
		Pyrophyllite	1	42.50	
		Quartz	2	170.00	
		Steatite	5	432.56	
		<b>Total</b>	<b>27</b>	<b>1972.09</b>	
		Jodhpur	Jasper	5	211.70
			Limestone	4	122.00
	<b>Total</b>		<b>9</b>	<b>333.70</b>	
	Karauli	China clay	6	81.34	
		Fireclay	1	5.00	
		Silica sand	36	825.77	
		Steatite	6	205.10	
<b>Total</b>		<b>49</b>	<b>1117.21</b>		

Contd.



Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Rajasthan (Contd.)	Kota	Limestone	7	5264.52
		<b>Total</b>	<b>7</b>	<b>5264.52</b>
	Nagaur	Ball clay	2	10.00
		China clay	42	194.60
		Gypsum	4	2271.15
		Limestone	12	6700.63
		<b>Total</b>	<b>60</b>	<b>9176.38</b>
		Pali	Ball clay	6
	China clay		10	184.09
	Felspar		2	69.87
	Gypsum		1	161.55
	Limestone		11	1774.25
	Magnesite		2	10.00
	Quartz		29	631.98
	Wollastonite		1	4.00
	<b>Total</b>		<b>62</b>	<b>3611.61</b>
	Rajsamand		Asbestos	10
		Calcite	5	23.10
		Felspar	16	69.53
		Lead & Zinc ore	3	1725.82
		Mica	2	10.00
		Quartz	624	2879.82
		Silica sand	1	4.20
		Steatite	25	1239.52
		<b>Total</b>	<b>686</b>	<b>6633.81</b>
	Sawai Madhopur	China clay	3	14.35
		Clay (others)	1	4.67
Ochre		1	38.43	
Quartz		9	280.78	
Silica sand		3	287.02	
Steatite		1	8.05	
<b>Total</b>		<b>18</b>	<b>633.30</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Rajasthan (Contd.)	Sikar	Barytes	1	47.51
		Calcite	8	227.62
		China clay	1	32.54
		Dolomite	1	96.56
		Felspar	9	271.46
		Iron ore	5	95.91
		Limestone	5	2363.12
		Ochre	1	5.00
		Quartz	62	773.75
		Quartzite	3	3.00
		Silica sand	4	19.29
		Steatite	2	9.47
		<b>Total</b>	<b>102</b>	<b>3945.23</b>
		Sirohi	Calcite	8
	Fluorite		1	167.62
	Lead & Zinc ore		2	115.00
	Limestone		8	1124.03
	Quartz		13	55.15
	Wollastonite		3	106.30
	<b>Total</b>		<b>35</b>	<b>2013.51</b>
	Tonk	Felspar	4	75.17
		Garnet	6	108.53
		Mica	7	166.90
		Quartz	44	370.62
		Silica sand	7	290.10
		Steatite	1	48.00
		<b>Total</b>	<b>69</b>	<b>1059.32</b>
	Udaipur	Asbestos	3	230.43
		Barytes	1	31.00
		Calcite	14	319.18
		China clay	2	128.20
		Felspar	10	47.57
		Lead & Zinc ore	1	3620.00
		Limestone	1	704.90

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area H ect.
<b>Rajasthan (Concl.)</b>	<b>Udaipur (Concl.)</b>	Ochre	3	54.00
		Phosphorite	8	2367.64
		Pyrophyllite	8	131.64
		Quartz	45	207.29
		Steatite	109	4916.97
		Wollastonite	1	101.80
		<b>Total</b>	<b>206</b>	<b>12860.62</b>
		<b>Sikkim</b>	<b>Sikkim East</b>	Copper ore
		<b>Total</b>	<b>3</b>	<b>96.32</b>
<b>Tamil Nadu</b>	<b>Ariyalur</b>	Fireclay	9	11.31
		Limestone	56	2202.61
		<b>Total</b>	<b>65</b>	<b>2213.92</b>
		<b>Coimbatore</b>	Gypsum	3
	Limestone		3	152.77
	Quartz		9	15.65
	Steatite		2	5.46
	<b>Total</b>		<b>17</b>	<b>187.71</b>
	<b>Cuddalore</b>		Fireclay	19
		Limeshell	1	4.61
		Silica sand	1	1.06
		<b>Total</b>	<b>21</b>	<b>79.65</b>
	<b>Dharmapuri</b>	Quartz	3	5.07
		<b>Total</b>	<b>3</b>	<b>5.07</b>
	<b>Dindigul</b>	Limestone	43	635.57
		Quartz	31	37.39
		<b>Total</b>	<b>74</b>	<b>672.96</b>
	<b>Erode</b>	Quartz	1	1.54
		<b>Total</b>	<b>1</b>	<b>1.54</b>

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Tamil Nadu (Contd.)	Kanchipuram	Limeshell	1	190.00
		Silica sand	11	34.46
		<b>Total</b>	<b>12</b>	<b>224.46</b>
	Kanyakumari	Garnet	11	273.45
		<b>Total</b>	<b>11</b>	<b>273.45</b>
	Karur	Limestone	43	574.77
		Magnesite	2	4.41
		Quartz	90	135.74
		<b>Total</b>	<b>135</b>	<b>714.92</b>
	Krishnagiri	Limestone	2	2.46
		Quartz	1	7.21
		<b>Total</b>	<b>3</b>	<b>9.67</b>
	Madurai	Garnet	2	6.62
		Graphite	2	5.68
		Limestone	12	51.15
		Quartz	5	19.17
		<b>Total</b>	<b>21</b>	<b>82.62</b>
	Nagapatti	Silica sand	1	0.90
		<b>Total</b>	<b>1</b>	<b>0.90</b>
	Nagapattinan	Silica sand	13	37.26
		<b>Total</b>	<b>13</b>	<b>37.26</b>
	Namakkal	Bauxite	3	226.15
		Limestone	39	108.90
		Magnesite	3	4.89
Quartz		29	59.80	
<b>Total</b>		<b>74</b>	<b>399.74</b>	
Perambalur	Fireclay	18	54.95	
	Gypsum	6	16.18	
	Limestone	35	123.61	
	<b>Total</b>	<b>59</b>	<b>194.74</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Tamil Nadu (Contd.)	Periyar	Quartz	1	0.40
		<b>Total</b>	<b>1</b>	<b>0.40</b>
	Pudukkottai	Quartz	1	1.08
		<b>Total</b>	<b>1</b>	<b>1.08</b>
	Ramnathapuram	Limeshell	1	539.05
		<b>Total</b>	<b>1</b>	<b>539.05</b>
	Salem	Apatite	1	4.05
		Bauxite	1	190.84
		Limestone	54	436.67
		Magnesite	15	1987.24
		Quartz	34	134.85
		Steatite	2	9.78
		<b>Total</b>	<b>107</b>	<b>2763.43</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	2	7.44
		<b>Total</b>	<b>2</b>	<b>7.44</b>
	Thiruvannamalai	Fireclay	1	4.87
		<b>Total</b>	<b>1</b>	<b>4.87</b>
	Tiruchirappalli	China clay	1	12.30
Dolomite		1	62.07	
Fire Clay		2	13.50	
Garnet		10	178.55	
Gypsum		4	5.94	
Limestone		30	189.66	
Quartz		7	14.70	
Steatite		3	9.90	
<b>Total</b>		<b>58</b>	<b>486.62</b>	

Contd.

Table-4 (Contd.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Tamil Nadu (Concl.)	Tirunelveli	Garnet	53	327.20
		Limestone	73	689.97
		<b>Total</b>	<b>126</b>	<b>1017.17</b>
	Tiruppur	Gypsum	2	5.28
		Magnesite	2	7.26
		Quartz	84	132.04
		<b>Total</b>	<b>88</b>	<b>144.58</b>
	Thoothukudi (Tuticorin)	Garnet	5	67.78
		Limestone	14	407.22
		Quartz	2	8.06
		<b>Total</b>	<b>21</b>	<b>483.06</b>
	Vellore	Quartz	1	1.39
		Vermiculite	1	23.71
<b>Total</b>		<b>2</b>	<b>25.10</b>	
Villupuram	Silica sand	10	21.68	
	<b>Total</b>	<b>10</b>	<b>21.68</b>	
Virudhunagar	Limestone	35	1685.80	
	<b>Total</b>	<b>35</b>	<b>1685.80</b>	
Uttar Pradesh	Allahabad	Silica sand	60	1769.84
		<b>Total</b>	<b>60</b>	<b>1769.84</b>
	Chitrakut	Silica sand	5	106.95
		<b>Total</b>	<b>5</b>	<b>106.95</b>
	Hamirpur	Pyrophyllite	4	31.65
		<b>Total</b>	<b>4</b>	<b>31.65</b>
Jhansi	Pyrophyllite	6	149.23	
	<b>Total</b>	<b>6</b>	<b>149.23</b>	
Lalitpur	Phosphorite	1	874.00	
	Pyrophyllite	12	914.74	
	<b>Total</b>	<b>13</b>	<b>1788.74</b>	

Contd.

Table-4 (Concl.)

State	District	Mineral	No. of Leases	Lease Area Hect.
Uttar Pradesh (Concl.)	Mahoba	Pyrophyllite	3	11.08
		<b>Total</b>	<b>3</b>	<b>11.08</b>
	Sonbhadra	Dolomite	1	156.32
Limestone		6	3637.47	
<b>Total</b>		<b>7</b>	<b>3793.79</b>	
Uttarakhand	Almoda	Steatite	2	6.24
		<b>Total</b>	<b>2</b>	<b>6.24</b>
	Bageshwar	Magnesite	1	165.09
		Steatite	55	775.87
		<b>Total</b>	<b>56</b>	<b>940.96</b>
	Chamoli	Steatite	2	9.09
		<b>Total</b>	<b>2</b>	<b>9.09</b>
	Dehradun	Limestone	2	97.15
		<b>Total</b>	<b>2</b>	<b>97.15</b>
	Pithoragarh	Magnesite	3	206.44
Steatite		23	114.37	
<b>Total</b>		<b>26</b>	<b>320.81</b>	
Tehri Garhwal	Limestone	6	37.31	
	<b>Total</b>	<b>6</b>	<b>37.31</b>	
West Bengal	Bankura	China clay	8	284.93
		Fireclay	4	15.52
		Quartz	4	10.84
		Quartzite	1	4.70
		Silica sand	1	2.62
		<b>Total</b>	<b>18</b>	<b>318.61</b>
	Birbhum	China clay	17	318.57
		Fireclay	1	4.86
		Quartz	1	1.94
		<b>Total</b>	<b>19</b>	<b>325.37</b>

Contd.

Table-4 (Concl.)

<b>State</b>	<b>District</b>	<b>Mineral</b>	<b>No. of Leases</b>	<b>Lease Area Hect.</b>
<b>West Bengal (Concl.)</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	2	20.63
		Moulding sand	1	5.14
		Phosphorite	1	13.47
		Quartz	5	13.26
		<b>Total</b>	<b>9</b>	<b>52.50</b>



### 3.2 DISTRICT WISE ANALYSIS

#### (i) High Mineral Potential Districts

District wise analysis indicates that the total number of mineral-bearing districts is around 285 and that they are spread across 23 states in the country. Out of these, 29 districts in 8 states are considered as high mineral potential districts wherein more than 100 mining leases each have been granted. A total of 6,408 mining leases have been granted in these districts covering an area of about 2,33,695 hectares. These constitute about 56% of total number of mining leases in the country and cover around 44% of the total area. Information on the number of mining leases granted in high mineral potential districts is furnished in Table-5.

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

Sl. No.	District	State	No. of Leases	No. of Minerals	Lease Area (Hect.)
1	Anantapur	Andhra Pradesh	177	14	3914.65
2	Cuddapah	Andhra Pradesh	262	17	8599.61
3	Kurnool	Andhra Pradesh	346	13	11928.62
4	Mahbubnagar	Andhra Pradesh	141	5	1073.25
5	Nellore	Andhra Pradesh	314	10	4937.02
6	Prakasam	Andhra Pradesh	117	6	2982.35
7	South Goa	Goa	237	3	17270.06
8	Jamnagar	Gujarat	208	7	5614.00
9	Junagarh	Gujarat	107	1	3788.06
10	Kachchh	Gujarat	216	11	9879.77
11	Porbandar	Gujarat	260	4	3329.98
12	Bagalkot	Karnataka	114	5	6309.73
13	Bellary	Karnataka	168	7	11590.65
14	Jabalpur	Madhya Pradesh	106	12	1801.14
15	Katni	Madhya Pradesh	156	8	3649.43
16	Satna	Madhya Pradesh	320	7	14720.06
17	Keonjhar	Odisha	115	6	29604.19
18	Sundargarh	Odisha	119	11	17636.94
19	Ajmer	Rajasthan	504	12	5999.72
20	Bhilwara	Rajasthan	675	15	14974.16
21	Bikaner	Rajasthan	129	5	12764.27
22	Chittorgarh	Rajasthan	108	6	7178.80

Contd.

Table-5 (Concl.)

<b>Sl. No.</b>	<b>District</b>	<b>State</b>	<b>No. of Leases</b>	<b>No. of Minerals</b>	<b>Lease Area (Hect.)</b>
23	Jaipur	Rajasthan	147	13	6213.66
24	Rajsamand	Rajasthan	686	8	6633.81
25	Sikar	Rajasthan	102	12	3945.23
26	Udaipur	Rajasthan	206	13	12860.62
27	Karur	Tamil Nadu	135	3	714.92
28	Salem	Tamil Nadu	107	6	2763.43
29	Tirunelveli	Tamil Nadu	126	2	1017.17
		<b>Total</b>	<b>6,408</b>		<b>233,695.30</b>

**(ii) Medium Mineral Potential Districts**

Districts wherein mining leases between 51 and 100 are granted are considered as Medium Potential districts. There are 2,156 such mining leases granted in 33 districts in 14 states covering an area of about 99,579 hectares. These constitute 19% of the total number of mining leases in the country and cover over 19% of the total area. Information on the number of mining leases granted in medium potential districts is furnished in Table-6.

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

<b>Sl. No.</b>	<b>District</b>	<b>State</b>	<b>No. of Leases</b>	<b>No. of Minerals</b>	<b>Lease Area (Hect.)</b>
1	Adilabad	Andhra Pradesh	55	7	10611.36
2	Godavari East	Andhra Pradesh	59	3	416.72
3	Guntur	Andhra Pradesh	54	6	6145.23
4	Khammam	Andhra Pradesh	53	10	1149.87
5	Nalgonda	Andhra Pradesh	68	5	5556.26
6	Rangareddi	Andhra Pradesh	59	8	1955.70
7	Vizianagaram	Andhra Pradesh	95	6	1774.34
8	Durg	Chhattisgarh	85	5	4090.47
9	North Goa	Goa	99	2	7124.49
10	Rajkot	Gujarat	56	6	348.93
11	Surendranagar	Gujarat	68	4	343.54
12	Vadodara	Gujarat	78	3	971.27
13	Gurgaon	Haryana	58	4	4364.35
14	Singhbhum (West)	Jharkhand	87	9	16677.67
15	Belgaum	Karnataka	55	14	1904.08
16	Chitradurga	Karnataka	83	8	5075.23
17	Tumkur	Karnataka	65	9	3857.45
18	Balaghat	Madhya Pradesh	81	9	2288.77
19	Nagpur	Maharashtra	54	5	1014.70
20	Kalahandi	Odisha	55	5	589.53
21	Dungarpur	Rajasthan	64	3	2648.89
22	Nagaur	Rajasthan	60	4	9176.38
23	Pali	Rajasthan	62	8	3611.61

Contd.

Table-6 (Concl.)

SI No.	District	State	No. of Leases	No. of Minerals	Lease Area (Hect.)
24	Tonk	Rajasthan	69	6	1059.32
25	Ariyalur	Tamil Nadu	65	2	2213.92
26	Dindigul	Tamil Nadu	74	2	672.96
27	Namakkal	Tamil Nadu	74	4	399.74
29	Perambalur	Tamil Nadu	59	3	194.74
30	Tiruchirappalli	Tamil Nadu	58	8	486.62
31	Tiruppur	Tamil Nadu	88	3	144.58
32	Allahabad	Uttar Pradesh	60	1	1769.84
33	Bageshwar	Uttarakhand	56	2	940.96
		<b>Total</b>	<b>2156</b>		<b>99579.52</b>

### (iii) Low Mineral Potential Districts

Districts wherein mining leases granted are between 1 and 50 are considered as Low Mineral Potential districts. There are 2,892 mining leases granted in 223 such districts in 22 states covering an area of about 1,97,008 hectares in the country. These account for 25% of the total leases in the country covering 37% of the total area. State wise distribution of low potential districts, no. of leases and total area covered are furnished in Table-7.

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

Sl. No.	State	No. of Districts	No. of Leases	Lease Area Hect.
1	Andhra Pradesh	9	231	8,562.09
2	Assam	2	8	929.50
3	Bihar	4	10	1,427.22
4	Chhattisgarh	15	237	19,647.72
5	Gujarat	11	169	5,154.49
6	Haryana	4	60	7,890.78
7	Himachal Pradesh	4	52	3,387.67
8	Jammu & Kashmir	11	59	2,680.89
9	Jharkhand	17	245	20,309.97
10	Karnataka	20	277	29,845.59
11	Kerala	10	87	3,274.35
12	Madhya Pradesh	28	442	10,526.43
13	Maharashtra	11	186	13,716.39
14	Manipur	2	2	610.17
15	Meghalaya	3	18	606.19
16	Odisha	17	186	20,989.24
17	Rajasthan	18	309	36,345.78
18	Sikkim	1	3	96.32
19	Tamil Nadu	21	186	3,950.53
20	Uttar Pradesh	5	38	5,881.44
21	Uttarakhand	5	38	470.60
22	West Bengal	5	49	704.52
	<b>Total</b>	<b>223</b>	<b>2892</b>	<b>197,007.88</b>

### 3.3 MINERALWISE 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 mineral. 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; and industrial mineral group includes asbestos. 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 31.3.2012. The number of leases granted are 1,600 i.e. 14% of the total mining leases accounting for an area of about 185,979 hectares which is 35% 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 798 followed by bauxite and manganese ore (343 each), chromite (35), asbestos (34), copper ore (17). These six minerals account for 1,570 mining leases, i.e., 98% of the mining leases under this category accounting for an area of about 171,092 hectares which is 92% of the lease area accounted under Scheduled Minerals. The distribution of mining leases for Scheduled Minerals are given in Table-8.

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

SI. No.	Mineral	No. of Leases	Area in Hect.
1	Asbestos	34	1632.75
2	Bauxite	343	30078.21
3	Chromite	35	9432.58
4	Copper ore	17	9960.09
5	Diamond *	2	275.96
6	Gold	12	6753.31
7	Iron ore	798	96946.26
8	Lead & Zinc ore	12	7175.19
9	Manganese ore	343	23041.90
10	Ruby *	3	9.20
11	Sapphire *	1	673.40
	<b>Total</b>	<b>1,600</b>	<b>185978.85</b>

\* Precious stone

**(ii) Non-Scheduled Minerals**

There are 53 Non-Scheduled or Industrial minerals, for which leases are granted in the country. In all, there are 9,856 (86% of the total mining leases) mining leases granted for these minerals that account for an area of about 344,304 hectares which is 65% of the total lease area. Distribution of mining leases for Non-Scheduled minerals are given in Table-9.

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

Sl. No.	Mineral	No. of Leases	Lease Area Hect.
1	Agate	3	59.62
2	Amethyst	8	80.85
3	Apatite	2	20.17
4	Ball clay	75	2744.56
5	Barytes	167	2614.26
6	Borax	1	159
7	Calcareous sand	14	151.54
8	Calcite	89	1810.92
9	Chalk	163	651.77
10	China clay	519	16904.36
11	Clay (others)	106	1270.34
12	Corundum	17	247.8
13	Diaspore	12	94.38
14	Dolomite	542	7669.75
15	Dunite	1	14.28
16	Epidote	2	10
17	Felsite	6	102.29
18	Felspar	890	11766.22
19	Fireclay	269	5520.78
20	Fluorite	16	1670.71
21	Garnet	102	1110.35
22	Garnet (Gem)	2	17.08
23	Graphite	112	3481.98
24	Gypsum	108	19108.88
25	Iolite	11	104.35
26	Jasper	5	211.7
27	Kyanite	33	3354.49

Contd.

Table-9 (Concl'd.)

Sl. No.	Mineral	No. of Leases	Lease Area Hect.
28	Laterite	189	2348.79
29	Lime kankar	19	654.62
30	Limeshell	37	5109.36
31	Limestone	2109	160875.26
32	Magnesite	40	3099.02
33	Marl	2	9.15
34	Mica	307	7358.07
35	Moulding sand	61	1376.27
36	Ochre	162	3563.16
37	Perlite	1	144.88
38	Phosphorite	16	3705.78
39	Pyrophyllite	104	2276.85
40	Pyroxenite	10	90.84
41	Quartz	2161	17348.98
42	Quartzite	86	1463.21
43	Sand (others)	54	13497.9
44	Shale	46	738.52
45	Silica sand	569	18121.58
46	Sillimanite	7	3027.06
47	Slate	18	683.31
48	Steatite	505	16739.88
49	Tin	15	321.02
50	Vermiculite	16	285.94
51	White clay	26	218.32
52	White shale	14	71.63
53	Wollastonite	7	222.02
	<b>Total</b>	<b>9856</b>	<b>344303.85</b>



### 3.4 FREQUENCY DISTRIBUTION OF MINING LEASES

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

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

Number of minerals, their mining leases and area of leases covered category wise are summarized 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 Leases		Lease Area	
		No. of Leases	Percentage	In Hect.	Percentage
I	2	4270	37.27	178224.24	33.61
II	6	3,823	33.37	168148.05	31.71
III	3	993	8.67	60,478.18	11.40
IV	1	269	2.35	5520.78	1.04
V	9	1213	10.59	36,426.38	6.87
VI	5	365	3.19	20,892.86	3.94
VII	38	523	4.57	60,592.21	11.43
<b>Total</b>	<b>64</b>	<b>11456</b>	<b>100.00</b>	<b>530282.7</b>	<b>100.00</b>

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

<b>Category</b>	<b>Frequency of Leases</b>	<b>Mineral</b>	<b>No. of Leases</b>	<b>Area in (Hect.)</b>
I	>1000	Limestone	2109	160875.26
		Quartz	2161	17348.98
		<b>Total</b>	<b>4270</b>	<b>178224.24</b>
II	Between 501 and 1000	China clay	519	16904.36
		Dolomite	542	7669.75
		Felspar	890	11766.22
		Silica sand	569	18121.58
		Steatite	505	16739.88
		Iron ore	798	96946.26
		<b>Total</b>	<b>3823</b>	<b>168148.05</b>
III	Between 301 and 500	Mica	307	7358.07
		Bauxite	343	30078.21
		Manganese ore	343	23041.9
		<b>Total</b>	<b>993</b>	<b>60478.18</b>
IV	Between 201 and 300	Fireclay	269	5520.78
		<b>Total</b>	<b>269</b>	<b>5520.78</b>
V	Between 101 and 200	Barytes	167	2614.26
		Chalk	163	651.77
		Clay (others)	106	1270.34
		Garnet	102	1110.35
		Graphite	112	3481.98
		Gypsum	108	19108.88
		Laterite	189	2348.79
		Ochre	162	3563.16
		Pyrophyllite	104	2276.85
		<b>Total</b>	<b>1213</b>	<b>36426.38</b>
VI	Between 51 and 100	Ball Clay	75	2744.56
		Calcite	89	1810.92
		Moulding sand	61	1376.27
		Quartzite	86	1463.21
		Sand (others)	54	13497.9
		<b>Total</b>	<b>365</b>	<b>20892.86</b>

Contd.

Table-11 (Concl.)

Category	Frequency of Leases	Mineral	No. of Leases	Area in (Hect.)
VIII	Between 1 and 50	Agate	3	59.62
		Amethyst	8	80.85
		Apatite	2	20.17
		Asbestos	34	1632.75
		Borax	1	159
		Calcareous sand	14	151.54
		Chromite	35	9432.58
		Copper Ore	17	9960.09
		Corundum	17	247.8
		Diamond	2	275.96
		Diaspore	12	94.38
		Dunite	1	14.28
		Epidote	2	10
		Felsite	6	102.29
		Fluorite	16	1670.71
		Garnet(Gem)	2	17.08
		Gold	12	6753.31
		Iolite	11	104.35
		Jasper	5	211.7
		Kyanite	33	3354.49
		Lead & Zinc ore	12	7175.19
		Lime kankar	19	654.62
		Limeshell	37	5109.36
		Magnesite	40	3099.02
		Marl	2	9.15
		Perlite	1	144.88
		Phosphorite	16	3705.78
		Pyroxenite	10	90.84
		Ruby	3	9.2
		Sapphire	1	673.4
		Shale	46	738.52
		Sillimanite	7	3027.06
		Slate	18	683.31
		Tin	15	321.02
Vermiculite	16	285.94		
White clay	26	218.32		
White shale	14	71.63		
Wollastonite	7	222.02		
		<b>Total</b>	<b>523</b>	<b>60592.21</b>

### **3.5 SECTORWISE DISTRIBUTION OF MINING LEASES**

Out of the total 11,456 mining leases in the country, 549 (5%) leases have been executed in the Public Sector, extending over an area of about 1,61,022 hectares (30%). The remaining 10,907 (95%) mining leases with an area of about 3,69,260 hectares (70%) 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, pyrite, apatite, barytes, fluorite, asbestos, kyanite, magnesite, etc. are being exploited by both Public and Private Sectors.

#### **Leases under Central Government Public Sector Undertakings**

There are 208 mining leases under Central Government Public Sector Undertakings executed in different minerals, covering an area of about 85,492 hectares. The States rich in minerals where maximum number of mining leases executed for Central Govt. Public Sector Undertakings are Jharkhand 32 (15%), followed by Andhra Pradesh 30 (14%), Maharashtra 28 and Madhya Pradesh 26 (13% each), Rajasthan 22 (11%), Odisha 18 (9%), Chhattisgarh 17 (8%) and Tamil Nadu 12 (6%). These eight States together account for over 89% of total leases executed and the remaining 7 States account for the rest of the 11 percent.

The prominent States where maximum mining lease areas are located are Jharkhand (21%), Odisha (20%), Andhra Pradesh (16%), Karnataka (14%), Chhattisgarh (11%), Madhya Pradesh (6%) and Rajasthan (6%). These seven States account for 94% of the total lease area executed and the remaining States account for the rest of the 6 percent.

#### **Leases under State Government Public Sector Undertakings**

There are 341 number of mining leases executed in 17 States for different minerals, covering an area of 75,530.98 hectares. The States rich in minerals where there are maximum number of mining leases executed are Rajasthan 68 (20%), Karnataka 65 (19%), Tamil Nadu 45 (13%), Odisha 42 (12%), Andhra Pradesh 22 and Chhattisgarh 21 (6% each), Gujarat 18 (5%) and Maharashtra 15 (4%). These eight States together account for over 85% of the total leases executed and the remaining 9 States account for the rest of the 15 percent.

The prominent States where maximum mining lease areas are located are Rajasthan (35%), Odisha (27%), Karnataka (14%), Uttar Pradesh (7%), Gujarat (5%) and Tamil Nadu (4%). These six States together account for around 92% of the total lease area executed while the remaining 11 States account for the rest of the 8 percent.

State wise and Sector wise distribution of mining leases and State wise, Sector wise, District wise and Mineral wise distribution of Mining Leases are given in Tables-12 to 14.

**Table – 12 : Sector wise Distribution of Mining Leases (As on 31.03.2012)  
(Public Sector and Private Sector)**

Sl. No.	State	Total		Public Sector		Private Sector	
		No. of Leases	Lease Area (Hects.)	No. of Leases	Lease Area (Hects.)	No. of Leases	Lease Area (Hects.)
1	Andhra Pradesh	2031	69607.07	52	14836.93	1979	54770.14
2	Assam	8	929.50	3	371.00	5	558.50
3	Bihar	10	1427.22	-	-	10	1427.22
4	Chhattisgarh	320	23502.06	38	9485.30	282	14016.76
5	Goa	336	24394.55	-	-	336	24394.55
6	Gujarat	1162	29430.04	18	3448.57	1144	25981.47
7	Haryana	118	12255.13	3	532.00	115	11723.13
8	Himachal Pradesh	54	3623.80	4	1370.53	50	2253.27
9	Jammu & Kashmir	59	2680.89	5	1568.80	54	1112.09
10	Jharkhand	332	36987.64	42	19868.30	290	17119.34
11	Karnataka	762	58582.73	73	21980.13	689	36602.60
12	Kerala	87	3274.35	6	563.03	81	2711.32
13	Madhya Pradesh	1105	32985.83	36	5858.73	1069	27127.10
14	Maharashtra	255	15962.33	43	2013.79	212	13948.54
15	Manipur	2	610.17	-	-	2	610.17
16	Meghalaya	18	606.19	-	-	18	606.19
17	Odisha	496	74990.98	60	37939.24	436	37051.74
18	Rajasthan	3085	116009.93	90	30974.33	2995	85035.60
19	Sikkim	3	96.32	3	96.32	-	-
20	Tamil Nadu	972	12558.61	57	4349.91	915	8208.70
21	Uttar Pradesh	98	7651.28	10	5461.53	88	2189.75
22	Uttarakhand	94	1411.56	3	267.46	91	1144.10
23	West Bengal	49	704.52	3	36.58	46	667.94
	<b>Total</b>	<b>11456</b>	<b>530282.70</b>	<b>549</b>	<b>161022.48</b>	<b>10907</b>	<b>369260.22</b>

**Table – 13 : Sector wise Distribution of Mining Leases (As on 31.03.2012)  
(Under Central Government and State Government)**

Sl. No.	State	Central Government		State Government		Total	
		No. of Leases	Lease Area Hects.	No. of Leases	Lease Area Hects.	No. of Leases	Lease Area Hects.
1	Andhra Pradesh	30	13616.51	22	1220.42	52	14836.93
2	Assam	1	171.00	2	200.00	3	371.00
3	Chhattisgarh	17	9015.71	21	469.59	38	9485.30
4	Gujarat	-	-	18	3448.57	18	3448.57
5	Haryana	3	532.00	-	-	3	532.00
6	Himachal Pradesh	4	1370.53	-	-	4	1370.53
7	Jammu & Kashmir	-	-	5	1568.80	5	1568.80
8	Jharkhand	32	18180.06	10	1688.24	42	19868.30
9	Karnataka	8	11556.89	65	10423.24	73	21980.13
10	Kerala	4	354.57	2	208.46	6	563.03
11	Madhya Pradesh	26	5526.46	10	332.27	36	5858.73
12	Maharashtra	28	1436.29	15	577.50	43	2013.79
13	Odisha	18	17225.27	42	20713.97	60	37939.24
14	Rajasthan	22	4808.00	68	26166.33	90	30974.33
15	Sikkim	-	-	3	96.32	3	96.32
16	Tamil Nadu	12	1494.17	45	2855.74	57	4349.91
17	Uttar Pradesh	1	33.58	9	5427.95	10	5461.53
18	Uttarakhand	2	170.46	1	97.00	3	267.46
19	West Bengal	-	-	3	36.58	3	36.58
	<b>Total</b>	<b>208</b>	<b>85491.50</b>	<b>341</b>	<b>75530.98</b>	<b>549</b>	<b>161022.48</b>

**Table-14: Summary of Lease Distribution in Public Sector (As on 31.3.2012)**  
**(By States/Districts/Minerals)**

(Area in Hects.)

State	District	Mineral	Central		State		Total	
			No.	Area	No.	Area	No.	Area
Andhra Pradesh	Adilabad	Limestone	1	839.38	2	220.51	3	1059.89
	Adilabad	Sand (others)	4	7297.93	-	-	4	7297.93
	Anantapur	Gold	1	168.43	-	-	1	168.43
	Cuddapah	Barytes	-	-	12	339.56	12	339.56
	Chittoor	Gold	2	265.59	-	-	2	265.59
	Godavari West	Ball clay	-	-	1	14.67	1	14.67
	Karimnagar	Sand (others)	6	2086.71	-	-	6	2086.71
	Khammam	Dolomite	1	384.46	-	-	1	384.46
	Khammam	Sand (others)	2	76.48	-	-	2	76.48
	Krishna	Limestone	1	1295.00	-	-	1	1295.00
	Mahbubnagar	Laterite	1	17.82	-	-	1	17.82
	Nellore	Moulding sand	-	-	1	13.19	1	13.19
	Prakasam	Iron ore	-	-	1	526.31	1	526.31
	Rangareddi	Laterite	1	41.60	-	-	1	41.60
	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	2	264.99	2	43.44	4	308.43
	Vizianagaram	Sand (others)	4	120.47	-	-	4	120.47
			<b>Total</b>	<b>30</b>	<b>13616.51</b>	<b>22</b>	<b>1220.42</b>	<b>52</b>
Assam	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</b>	<b>2</b>	<b>200.00</b>	<b>3</b>	<b>371.00</b>
Chhattisgarh	Bilaspur	Dolomite	1	128.88	-	-	1	128.88
	Dantewara	Corundum	-	-	3	30.95	3	30.95
	Dantewara	Iron ore	6	2696.21	-	-	6	2696.21
	Dantewara	Tin	-	-	2	103.22	2	103.22
	Durg	Dolomite	-	-	1	22.15	1	22.15
	Durg	Iron ore	4	2562.69	-	-	4	2562.69
	Durg	Limestone	1	526.34	-	-	1	526.34
	Jashpur	Bauxite	-	-	2	40.61	2	40.61

Contd.

Table-14 (Contd.)

State	District	Mineral	Central		State		Total	
			No.	Area	No.	Area	No.	Area
<b>Chhattisgarh (Concl.)</b>	Janjgir-Champa	Dolomite	1	523.35	-	-	1	523.35
	Janjgir-Champa	Limestone	2	401.65	-	-	2	401.65
	Kanker	Iron ore	1	2028.80	-	-	1	2028.80
	Kabirdham	Bauxite	-	-	1	5.31	1	5.31
	Raipur	Limestone	1	147.79	-	-	1	147.79
	Surguja	Bauxite	-	-	12	267.35	12	267.35
		<b>Total</b>		<b>17</b>	<b>9015.71</b>	<b>21</b>	<b>469.59</b>	<b>38</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
	Jamnagar	Bauxite	-	-	2	187.79	2	187.79
	Kachchh	Bauxite	-	-	10	1958.01	10	1958.01
	Surat	Limestone	-	-	1	80.00	1	80.00
	Vadodara	Fluorite	-	-	2	63.20	2	63.20
		<b>Total</b>			<b>18</b>	<b>3448.57</b>	<b>18</b>	<b>3448.57</b>
<b>Haryana</b>	Bhiwani	Lime kankar	3	532.00	-	-	3	532.00
		<b>Total</b>	<b>3</b>	<b>532.00</b>	-	-	<b>3</b>	<b>532.00</b>
<b>Himachal Pradesh</b>	Sirmur	Limestone	2	966.03	-	-	2	966.03
	Sirmur	Shale	1	172.30	-	-	1	172.30
	Solan	Limestone	1	232.20	-	-	1	232.20
		<b>Total</b>	<b>4</b>	<b>1370.53</b>	-	-	<b>4</b>	<b>1370.53</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	246.00	1	246.00
	Reasi	Magnesite	-	-	1	485.30	1	485.30
		<b>Total</b>			<b>5</b>	<b>1568.80</b>	<b>5</b>	<b>1568.80</b>
<b>Jharkhand</b>	Bokaro	Sand (others)	1	102.68	-	-	1	102.68
	Dhanbad	Sand (others)	9	1641.93	-	-	9	1641.93
	Garwah	Limestone	3	1178.92	-	-	3	1178.92
	Garwah	Dolomite	1	118.74	-	-	1	118.74
	Hazaribagh	Limestone	-	-	1	64.75	1	64.75

Contd.



Table-14 (Contd.)

State	District	Mineral	Central		State		Total		
			No.	Area	No.	Area	No.	Area	
<b>Jharkhand (Concl.)</b>	Palamau	Graphite	-	-	3	249.08	3	249.08	
	Palamau	Limestone	-	-	1	1043.83	1	1043.83	
	Ranchi	Limestone	-	-	2	239.63	2	239.63	
	Singhbhum (East)	Copper ore	4	6417.09	-	-	4	6417.09	
	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	88.52	3	1836.77	
		<b>Total</b>		<b>32</b>	<b>18180.06</b>	<b>10</b>	<b>1688.24</b>	<b>42</b>	<b>19868.30</b>
<b>Karnataka</b>	Bagalkot	Dolomite	-	-	2	239.86	2	239.86	
	Bagalkot	Limestone	-	-	12	3495.77	12	3495.77	
	Bengaluru	Felspar	-	-	3	130.30	3	130.30	
	Belgaum	Limestone	-	-	2	755.48	2	755.48	
	Bellary	Iron ore	2	1255.50	12	1560.98	14	2816.48	
	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	4	482.76	-	-	4	482.76	
	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	
	Hassan	Vermiculite	-	-	1	26.30	1	26.30	
	Kolar	Gold	1	5213.21	-	-	1	5213.21	
	Mandya	Quartz	-	-	1	15.17	1	15.17	
	Mysore	Magnesite	-	-	3	136.27	3	136.27	
	Uttara Kannada	Manganese ore	-	-	1	80.94	1	80.94	
	Raichur	Gold	-	-	5	992.79	5	992.79	
	Shimoga	China clay	-	-	4	42.99	4	42.99	
	Shimoga	Manganese ore	-	-	2	580.10	2	580.10	
	Tumkur	Gold	-	-	1	38.04	1	38.04	
	Udupi	Bauxite	-	-	1	23.80	1	23.80	
	Udupi	Limeshell	-	-	1	114.53	1	114.53	
		<b>Total</b>		<b>8</b>	<b>11556.89</b>	<b>65</b>	<b>10423.24</b>	<b>73</b>	<b>21980.13</b>
	<b>Kerala</b>	Kollam	China clay	-	-	1	4.66	1	4.66
Kollam		Sillimanite	4	354.57	1	203.80	5	558.37	
		<b>Total</b>	<b>4</b>	<b>354.57</b>	<b>2</b>	<b>208.46</b>	<b>6</b>	<b>563.03</b>	

Contd.

Table-14 (Contd.)

State	District	Mineral	Central		State		Total		
			No.	Area	No.	Area	No.	Area	
Madhya Pradesh	Anuppur	Bauxite	-	-	1	148.18	1	148.18	
	Balaghat	Copper ore	2	479.90	-	-	2	479.90	
	Balaghat	Manganese ore	10	1102.86	-	-	10	1102.86	
	Balaghat	Sand (others)	2	18.08	-	-	2	18.08	
	Chhatarpur	Phosphorite	-	-	1	48.76	1	48.76	
	Jhabua	Phosphorite	-	-	3	49.11	3	49.11	
	Katni	Fireclay	2	38.27	-	-	2	38.27	
	Katni	Limestone	3	1109.09	-	-	3	1109.09	
	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	3	2001.85	-	-	3	2001.85	
	Satna	Bauxite	-	-	1	21.00	1	21.00	
	Tikamgarh	Pyrophyllite	-	-	1	5.00	1	5.00	
			<b>Total</b>	<b>26</b>	<b>5526.46</b>	<b>10</b>	<b>332.27</b>	<b>36</b>	<b>5858.73</b>
	Maharashtra	Bhandara	Kyanite	-	-	6	179.11	6	179.11
Bhandara		Manganese ore	5	324.44	-	-	5	324.44	
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	-	-	2	68.74	2	68.74	
Nagpur		Manganese ore	12	374.61	-	-	12	374.61	
Nagpur		Sand (others)	4	191.88	-	-	4	191.88	
Sindhudurg		Felspar	-	-	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>28</b>	<b>1436.29</b>	<b>15</b>	<b>577.50</b>	<b>43</b>	<b>2013.79</b>
Odisha	Bargarh	Limestone	-	-	1	304.32	1	304.32	
	Dhenkanal	Chromite	-	-	2	847.49	2	847.49	
	Ganjam	Sand others	1	2464.05	-	-	1	2464.05	
	Jajpur	Chromite	-	-	7	3117.36	7	3117.36	
	Jajpur	Iron ore	-	-	1	1812.99	1	1812.99	
	Kalahandi	Amethyst	-	-	2	63.34	2	63.34	
	Kalahandi	Corundum	-	-	1	57.46	1	57.46	

Contd.

Table-14 (Contd.)

State	District	Mineral	Central		State		Total		
			No.	Area	No.	Area	No.	Area	
<b>Odisha (Concl.)</b>	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	Corundum	-	-	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>
	<b>Rajasthan</b>	Alwar	Copper ore	1	914.07	-	-	1	914.07
Banswara		Graphite	-	-	1	123.75	1	123.75	
Banswara		Phosphorite	-	-	1	300.00	1	300.00	
Barmer		Gypsum	2	1100.66	3	726.03	5	1826.69	
Bikaner		Gypsum	3	562.02	15	6076.30	18	6638.32	
Dungarpur		Fluorite	-	-	4	292.30	4	292.30	
Dungurpur		Steatite	-	-	1	4.88	1	4.88	
Ganganagar		Gypsum	11	925.69	13	5087.85	24	6013.54	
Hanumangarh		Gypsum	-	-	3	368.09	3	368.09	
Jaisalmer		Gypsum	1	501.68	2	366.21	3	867.89	
Jaisalmer		Limestone	-	-	2	1998.00	2	1998.00	
Jalore		Fluorite	-	-	4	1075.00	4	1075.00	
Jalore		Gypsum	-	-	1	178.50	1	178.50	
Jhunjhunu		Copper ore	4	803.88	-	-	4	803.88	
Nagaur		Gypsum	-	-	4	2271.15	4	2271.15	
Nagaur		Limestone	-	-	3	4915.44	3	4915.44	
Pali		Gypsum	-	-	1	161.55	1	161.55	
Sirohi		Lead & Zinc ore	-	-	1	63.00	1	63.00	
Udaipur		Barytes	-	-	1	31.00	1	31.00	
Udaipur		Calcite	-	-	1	21.60	1	21.60	
Udaipur	Phosphorite	-	-	7	2105.68	7	2105.68		
	<b>Total</b>		<b>22</b>	<b>4808.00</b>	<b>68</b>	<b>26166.33</b>	<b>90</b>	<b>30974.33</b>	
<b>Sikkim</b>	Sikkim East	Copper ore	-	-	3	96.32	3	96.32	
		<b>Total</b>	-	-	<b>3</b>	<b>96.32</b>	<b>3</b>	<b>96.32</b>	

Contd.

Table-14 (Concl.)

State	District	Mineral	Central		State		Total	
			No.	Area	No.	Area	No.	Area
Tamil Nadu	Ariyalur	Limestone	-	-	6	624.53	6	624.53
	Cuddalore	Fireclay	-	-	2	42.02	2	42.02
	Kanchipuram	Limeshell	-	-	1	190.00	1	190.00
	Kanchipuram	Silica sand	-	-	4	21.51	4	21.51
	Kanyakumari	Garnet	5	258.31	-	-	5	258.31
	Karur	Quartz	-	-	2	11.18	2	11.18
	Namakkal	Quartz	-	-	4	14.94	4	14.94
	Periyar	Quartz	-	-	1	0.40	1	0.40
	Ramnathapuram	Limeshell	-	-	1	539.05	1	539.05
	Salem	Magnesite	7	1235.86	1	96.34	8	1332.20
	Salem	Quartz	-	-	2	1.09	2	1.09
	Sivaganga	Graphite	-	-	2	242.46	2	242.46
	Tiruchirappalli	China clay	-	-	1	12.30	1	12.30
	Tiruchirappalli	Dolomite	-	-	1	62.07	1	62.07
	Tiruchirappalli	Fire Clay	-	-	1	12.30	1	12.30
	Tirunelveli	Garnet	-	-	1	4.36	1	4.36
	Thiruppur	Quartz	-	-	7	31.93	7	31.93
	Tirunelveli	Limestone	-	-	3	51.92	3	51.92
	Vellore	Vermiculite	-	-	1	23.71	1	23.71
	Villupuram	Silica sand	-	-	1	3.73	1	3.73
Virudhunagar	Limestone	-	-	3	869.90	3	869.90	
		<b>Total</b>	<b>12</b>	<b>1494.17</b>	<b>45</b>	<b>2855.74</b>	<b>57</b>	<b>4349.91</b>
Uttar Pradesh	Allahabad	Silica sand	1	33.58	-	-	1	33.58
	Lalitpur	Phosphorite	-	-	1	874.00	1	874.00
	Lalitpur	Pyrophyllite	-	-	3	774.20	3	774.20
	Sonbhadra	Dolomite	-	-	1	156.32	1	156.32
	Sonbhadra	Limestone	-	-	4	3623.43	4	3623.43
			<b>Total</b>	<b>1</b>	<b>33.58</b>	<b>9</b>	<b>5427.95</b>	<b>10</b>
Uttarakhand	Bageshwar	Magnesite	1	165.09	-	-	1	165.09
	Bageshwar	Steatite	1	5.37	-	-	1	5.37
	Dehradun	Limestone	-	-	1	97.00	1	97.00
			<b>Total</b>	<b>2</b>	<b>170.46</b>	<b>1</b>	<b>97.00</b>	<b>3</b>
West Bengal	Purulia	Fireclay	-	-	1	19.43	1	19.43
	Purulia	Phosphorite	-	-	1	13.47	1	13.47
	Purulia	Quartz	-	-	1	3.68	1	3.68
			<b>Total</b>	<b>-</b>	<b>-</b>	<b>3</b>	<b>36.58</b>	<b>3</b>

### 3.6 YEARWISE STATUS OF EXPIRY OF MINING 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 (11,456), more than 2,157 leases will expire between 2013 and 2019. 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 31/03/2012**

<b>Year of Expiry</b>	<b>No. of Leases</b>	<b>Percentage</b>	<b>Lease Area Hect.</b>	<b>Percentage</b>
2013	177	8.21	21627.63	20.82
2014	222	10.29	16066.22	15.46
2015	297	13.77	10892.75	10.48
2016	351	16.27	16072.84	15.47
2017	343	15.90	8562.08	8.24
2018	407	18.87	18728.99	18.03
2019	360	16.69	11944.24	11.50
<b>Total</b>	<b>2157</b>	<b>100.00</b>	<b>103894.8</b>	<b>100.00</b>

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

Sl. No.	State	2013		2014		2015		2016		2017		2018		2019	
		No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area
1	Andhra Pradesh	12	487.85	37	8000.02	36	1573.63	58	1461.73	80	1912.36	81	1914.67	120	1585.32
2	Assam	-	-	1	31	-	-	-	-	-	-	-	-	-	-
3	Chhattisgarh	9	1782.68	12	296.06	22	96.5	20	435	18	1249.48	12	3856.34	18	772.9
4	Goa	-	-	-	-	1	90.14	7	466.99	-	-	13	1041.73	-	-
5	Gujarat	33	197.3	26	406.71	25	171.48	23	1891.65	19	303.7	40	355.78	29	431.09
6	Haryana	-	-	2	557.08	11	1205.9	47	3733.95	-	-	2	58.35	8	357.46
7	Himachal Pradesh	2	344.33	-	-	1	3.72	-	-	2	68.77	-	-	2	236.13
8	Jammu & Kashmir	-	-	1	14.7	1	15.89	-	-	1	2.76	-	-	-	-
9	Jharkhand	4	1212.87	11	618.1	15	227.37	5	43.4	-	-	2	8.04	-	-
10	Karnataka	14	7823.2	11	440	17	570.29	20	1125.62	15	530.98	21	2295.18	21	811.03
11	Kerala	6	5.99	4	259.49	9	510.68	7	22.71	7	11.91	3	504.68	2	68.76
12	Madhya Pradesh	27	619.67	35	1296.36	58	771.29	46	519.9	39	227.46	49	480.14	39	379.69
13	Maharashtra	6	121.9	9	191.75	7	1052.11	8	713.88	4	103.09	10	1430.42	2	93.84
14	Meghalaya	1	240.55	-	-	-	-	-	-	1	60	-	-	-	-
15	Odisha	3	685.24	6	401.5	11	870.82	13	419.96	13	1230.87	15	957.17	14	4178.09
16	Rajasthan	48	8028.82	29	3182.21	25	3206.33	40	4937.2	57	2629.18	72	5585.14	53	2798.89
17	Sikkim	-	-	-	-	-	-	-	-	1	18.32	-	-	-	-
18	Tamil Nadu	9	62.11	32	201.7	56	511.62	47	117.83	82	196.25	84	226.98	47	220.21
19	Uttar Pradesh	-	-	2	10.45	-	-	1	2.53	1	2.39	1	6.07	-	-
20	Uttarakhand	1	12.94	3	151.3	-	-	7	171.46	3	14.56	1	4.97	3	5.76
21	West Bengal	2	2.18	1	7.79	2	14.98	2	9.03	-	-	1	3.33	2	5.07
	<b>Total</b>	<b>177</b>	<b>21627.63</b>	<b>222</b>	<b>16066.22</b>	<b>297</b>	<b>10892.75</b>	<b>351</b>	<b>16072.84</b>	<b>343</b>	<b>8562.08</b>	<b>407</b>	<b>18728.99</b>	<b>360</b>	<b>11944.24</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 Government 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 STATEWISE DISTRIBUTION OF PROSPECTING LICENCES**

As per information received from the State Governments/Union Territories, 115 prospecting licences were granted covering an area of 19747.00 hectares during 2011-12 as compared to 131 prospecting licences covering 35682 hectares area during 2010-11. The state wise distribution of prospecting licences granted during 2009-10 to 2011-12 is given in Table-17.

**Table-17: Prospecting Licences Granted from 2009-10 to 2011-12  
(By States)**

State	2009-10		2010-11		2011-12	
	No.	Area (Hect.)	No.	Area (Hect.)	No.	Area (Hect.)
Andhra Pradesh	9	4854	9	3364	7	2040
Arunachal Pradesh	2	42	-	-	-	-
Chhattisgarh	1	5	5	71	4	1541
Gujarat	-	-	2	25	-	-
Jharkhand	-	-	10	2587	2	45
Madhya Pradesh	50	11182	66	25637	67	4810
Maharashtra	5	2802	14	3282	2	1032
Manipur	-	-	-	-	4	6000
Rajasthan	12	2499	11	652	13	4190
Tamil Nadu	2	2	1	2	-	-
Uttarakhand	-	-	13	62	16	89
<b>Total</b>	<b>81</b>	<b>21386</b>	<b>131</b>	<b>35682</b>	<b>115</b>	<b>19747</b>

The States where prospecting licences were granted during 2011-12 include Madhya Pradesh (67), Uttarakhand (16), Rajasthan (13), Andhra Pradesh (7), Chhattisgarh & Manipur (4 each) Maharashtra & Jharkhand (2 each). Area wise Manipur covered 6,000 hectares, Madhya Pradesh 4,810 hectares, Rajasthan 4190 hectares and Andhra Pradesh 2040 hectares. The remaining area of 2707 hectares was accounted for by rest of the States.

## 4.2 MINERAL WISE DISTRIBUTION OF PROSPECTING LICENCES

Mineral wise, in 2011-12, prospecting licences granted were for limestone (14), manganese ore (20), iron ore (10), soapstone (16), dolomite (7), group of minerals (22) and various minerals (26). The mineral wise distribution of prospecting licences granted during 2009-10 to 2011-12 is given in Table -18.

**Table-18: Prospecting Licences Granted from 2009-10 to 2011-12**

Mineral	2009-10		2010-11		2011-12	
	No.	Area (Hect.)	No.	Area (Hect.)	No.	Area (Hect.)
Barytes	-	-	1	4	2	8
China clay	-	-	-	-	1	166
Chromite	-	-	-	-	4	6000
Chetry Dolomite	-	-	-	-	1	148
Diamond	-	-	-	-	1	903
Dolomite	3	10	5	23	7	108
Fire Clay	-	-	-	-	1	5
Galena	-	-	-	-	1	4
Graphite	-	-	-	-	1	13
Garnet (abrasive)	1	26	-	-	-	-
Iron ore	6	460	14	3803	10	2747
Jaspar	1	185	-	-	-	-
Laterite	11	2392	4	75	4	162
Limestone	17	11159	27	17778	14	6222
Magnesite	-	-	2	9	-	-
Manganese ore	16	3156	18	3308	20	755
Mica	1	30	1	4	-	-
Moon Stone	1	1	-	-	-	-
Pyrophyllite	1	5	-	-	-	-
Quartz	-	-	-	-	1	27
Quartzite	-	-	1	4	-	-
Red ochre	1	5	2	14	3	86
Red Oxide	-	-	-	-	1	5
Rock Phosphate	-	-	-	-	1	26
Soapstone/steatite	-	-	10	49	16	89
Shale	1	18	-	-	-	-
Silica sand	-	-	6	225	1	3
White Clay	-	-	1	5	-	-
Wollostonite	-	-	-	-	2	89
Yellow Ochre	-	-	-	-	1	4
Group of minerals	21	3939	39	10381	22	2177
<b>Total</b>	<b>81</b>	<b>21386</b>	<b>131</b>	<b>35682</b>	<b>115</b>	<b>19747</b>

*Area figures rounded off*



## 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 2011-12, the Govt. has approved/granted 15 Reconnaissance Permits covering a total area of 15341.66 sq.km. Out of these, the maximum numbers of RPs were in Madhya Pradesh & Chhattisgarh (4 each), Karnataka (6) & Rajasthan (1).

The details of Reconnaissance Permits approved/granted during 2011-12 are given in Table-19.

**Table-19: Approval / Grant of Reconnaissance Permits during 2011-12**

Sl. No.	State	Mineral	No of RPs	Area in sq.km.
1.	Chhattisgarh	Diamond, Gold & Associated minerals	2	1426.15
		Diamond, Gold	1	622.00
		Diamond, Gold, Copper ore, Lead	1	2200.00
2	Karnataka	Gold & Associated minerals	4	5272.01
		Diamond & Associated minerals	2	2500.00
3.	Madhya Pradesh	Diamond & Associated minerals, Gold & Copper ore	2	1250.00
		Diamond, Gold, Copper ore, Lead	2	1994.00
4	Rajasthan	Lanthanum, Cerium	1	77.50
		<b>Total</b>	<b>15</b>	<b>15341.66</b>