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Ministry of Mines
INDIAN BUREAU OF MINES

Bulletin of
MINING LEASES & PROSPECTING LICENCES, 2010
(Excluding Atomic Minerals, Coal, Lignite, Petroleum, Natural Gas and Minor Minerals)



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Indian Bureau of Mines

INDIAN BUREAU OF MINES

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Preface

Indian Bureau of Mines is the custodian for all Mineral & Mining information in the country. As part of its regular activity, it undertakes the function of updating and preparing the Directory of Mining Leases as a continuous exercise wherein compilation of country-wide information on mining leases and prospecting licences granted/executed/renewed/revoked/surrendered are carried out, assorted, analysed and disseminated by way of published documents, namely, Bulletin of Mineral Information and Bulletin of Mining Leases and Prospecting Licences etc.

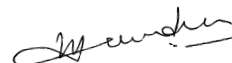
Presently in its thirteenth edition, this publication – The Bulletin of Mining Leases and Prospecting Licences 2010 – contains information on mining leases, prospecting licences as well as reconnaissance permits as on 31.3.2010. Information contained in the Directory of Mining Leases after assortment and analysis with different parameters have been segregated into statewise, districtwise, mineralwise and sectorwise for easy comprehension of the data on distribution of Mining Leases/Prospecting Licences/Reconnaissances Permits executed across the country with clearer demarcation of high, medium and low mineral potential bearing districts. Exhaustive information on mining leases abridged concisely for easy assimilation will suit the convenience of readers be they be entrepreneurs or policy makers. This type of information exclusive in coverage in the subject relating to Mining leases & Prospecting Licences is largely aimed at providing the much-needed and latest information to all the stakeholders of the Mineral Industry.

Predominant portions of this publication owes their basis to the updated Directory of Mining Leases as on 31.3.2010, 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.

I hope that the analysis and information presented in this publication will be useful and handy in the process of planning & programming new ventures, commissioning new projects for mineral-based industries and in judicious utilisation of mineral resources of the country.

In the end, I would like to express IBM's sincere thanks to all the State Government Departments for furnishing information on mining leases, prospecting licences and reconnaissance permits and would solicit their cooperation in the future as well.

Nagpur
Dated : 17/08/2011



(C.S. GUNDEWAR)
Controller General
Indian Bureau of Mines

Chapter I

INTRODUCTION

India has a total geographical area of about 328 million hectares. Of this, the mining lease area, except for fuel and atomic minerals, constitutes around 0.15% (507404 hectares). The position of mining leases as on 31.3.2010 reveals that there are as many as 10,488 mining leases (compared to 9,415 in the previous year) granted in the country by the State Governments covering 65 minerals (excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) with a total area of 507404 hectares and spread over 23 States. These 65 minerals are broadly classified into metallic and non-metallic minerals. This bulletin highlights statewise, sectorwise and districtwise distribution of mining leases, prospecting licences and reconnaissance permits, frequency distribution of mining leases, 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 65 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) Act 2010, 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 329 million hectares. The entire geographical area is broadly classified into 8 segments which are as follows.

Sl. No.	Area/Segment	Total Area in Million Hectares	Percentage of Area
1.	Crope Area	142.50	43.34
2.	Permanent pastures & other grazing land	12.00	3.65
3.	Forest	67.00	20.38
4.	Barren & Un-culturable land	19.40	5.90
5.	Non-agricultural land	21.80	6.63
6.	Mining lease area	0.50	0.15
7.	Fallow lands	24.00	7.30
8.	Other area (no information available)	41.57	12.65
	Total	328.77	100.00

Source: <http://envfor.nic.in>

Out of the entire geographical area, about 70% are under crope area. permanent pastures & other grazing lands and forest. The mining lease area, constitutes around 507403.84 hectares which is approximately 0.15% of the total geological area. However, mining lease area, though a miniscule 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 31.3.2010, there were 10,488 mining leases granted by State Governments for 65 different minerals, covering an area of 5,07,404 hectares in the country. States rich in minerals where maximum number of mining leases were granted are Rajasthan (25%) followed by Andhra Pradesh (18%), Gujarat (11%), Madhya Pradesh & Tamil Nadu (9% each), Karnataka (6%), Orissa (5%) and Chhattisgarh, Goa & Jharkhand (3% each). These ten States together account for about 92% of the total leases executed and the remaining thirteen States where such leases were executed accounted for about 8 percent of the total mining leases.

The maximum area in percentage covered under mining leases in different States are Rajasthan 21% followed by Orissa (15%), Andhra Pradesh (14%), Karnataka (9%), Jharkhand (7%), Madhya Pradesh & Gujarat (6% each), Goa (5%), Chhattisgarh (4%) and Maharashtra (3%). These ten States account for about 90% of the total mining lease area granted and the remaining 10 percent was accounted for by the rest of the thirteen States.

The Statewise mining lease distribution together with lease areas as well as statewise/districtwise distribution of mining leases as on 31.03.2010 are furnished in Tables - 1 to 4.

**Table-1: Statewise Summary of Lease Distribution
(As on 31.03.2010)**

State	No. of Leases	Percentage	Leases Area (Hect.)	Percentage
Andhra Pradesh	1948	18.57	71072.74	14.01
Assam	8	0.08	929.50	0.18
Bihar	11	0.10	2074.72	0.41
Chhattisgarh	314	2.99	20143.54	3.97
Goa	337	3.21	24445.88	4.82
Gujarat	1125	10.73	30817.62	6.07
Haryana	110	1.05	11638.53	2.29
Himachal Pradesh	54	0.51	2665.09	0.53
Jammu & Kashmir	57	0.54	2671.84	0.53
Jharkhand	330	3.15	37059.58	7.30
Karnataka	615	5.86	46784.85	9.22
Kerala	85	0.81	2943.33	0.58
Madhya Pradesh	963	9.18	28524.20	5.62
Maharashtra	254	2.42	16312.35	3.21
Manipur	2	0.02	610.17	0.12
Meghalaya	22	0.21	1448.53	0.29
Orissa	528	5.04	76356.67	15.05
Rajasthan	2587	24.67	106479.18	20.99
Sikkim	3	0.03	96.32	0.02
Tamil Nadu	925	8.82	11180.67	2.20
Uttar Pradesh	88	0.84	9290.11	1.83
Uttarakhand	69	0.66	3077.78	0.61
West Bengal	53	0.51	780.64	0.15
All India	10488	100.00	507403.84	100.00

**Table-2: Mineralwise Summary of Lease Distribution
As on 31/03/2010 (All India)**

Sl. No.	Mineral	No. of Leases	Lease Area (Hect.)
1.	Agate	3	59.62
2.	Amethyst	7	75.91
3.	Apatite	2	20.17
4.	Asbestos	35	1680.75
5.	Ball clay	48	2366.97
6.	Barytes	159	2432.58
7.	Bauxite	345	30059.10
8.	Borax	1	159.00
9.	Calcareous sand	14	151.54
10.	Calcite	80	1626.19
11.	Chalk	156	635.01
12.	China clay	511	17292.39
13.	Chromite	35	9469.28
14.	Clay (others)	106	1384.52
15.	Copper ore	17	12389.24
16.	Corundum	13	155.24
17.	Diamond	2	576.51
18.	Diaspore	12	86.28
19.	Dolomite	489	8863.22
20.	Dunite	1	14.28
21.	Epidote	1	5.00
22.	Felsite	6	102.29
23.	Felspar	774	11241.64
24.	Fireclay	267	7226.78
25.	Fluorite	17	1675.71
26.	Garnet	96	1005.89
27.	Garnet (Gem)	1	12.08
28.	Gold	12	6599.54
29.	Graphite	122	3821.11
30.	Gypsum	89	15418.96
31.	Iolite	11	104.04
32.	Iron ore	769	88064.89

contd...

Table-2 (concl'd)

Sl. No.	Mineral	No. of Leases	Lease Area (Hect.)
33.	Jasper	5	211.70
34.	Kyanite	29	2947.08
35.	Laterite	179	2425.49
36.	Lead & Zinc ore	13	7135.95
37.	Lime kankar	17	432.44
38.	Limeshell	27	4248.42
39.	Limestone	1958	144979.05
40.	Magnesite	41	3056.68
41.	Manganese ore	321	22792.59
42.	Marl	7	2673.26
43.	Mica	322	7635.69
44.	Moulding sand	54	1097.15
45.	Ochre	139	3110.69
46.	Perlite	1	144.88
47.	Phosphorite	15	3352.30
48.	Pyrites	1	647.50
49.	Pyrophyllite	8	2900.51
50.	Pyroxenite	10	90.84
51.	Quartz	1814	16242.63
52.	Quartzite	85	1994.86
53.	Ruby	1	4.07
54.	Sand (others)	58	15789.74
55.	Sapphire	1	673.40
56.	Shale	34	517.96
57.	Silica sand	524	16952.67
58.	Sillimanite	6	434.97
59.	Slate	18	683.31
60.	Steatite	457	18462.68
61.	Tin	14	313.47
62.	Vermiculite	16	261.05
63.	White clay	11	135.66
64.	White shale	15	68.01
65.	Wollastonite	6	211.41
	Total	10488	507403.84

**Table-3: Statewise/Mineralwise Distribution of Leases and Lease Area
(As on 31.3.2010)**

State	Mineral	No. of Leases	Lease Area (Hect.)
Andhra Pradesh	Amethyst	5	12.57
	Apatite	1	16.12
	Asbestos	5	227.77
	Ball clay	20	165.17
	Barytes	149	2247.78
	Calcite	9	95.83
	China clay	40	583.28
	Clay (others)	14	456.57
	Copper ore	1	2197.70
	Corundum	5	17.37
	Dolomite	139	2397.22
	Felspar	31	727.48
	Fireclay	27	102.70
	Garnet	10	124.07
	Gold	3	441.01
	Graphite	1	3.11
	Iron ore	62	2171.75
	Laterite	108	1165.15
	Lead & Zinc ore	1	15.89
	Lime kankar	14	99.18
	Limeshell	4	87.63
	Limestone	240	32493.00
	Manganese ore	56	1779.16
	Mica	128	1989.80
	Moulding sand	1	13.19
	Ochre	26	292.19
	Pyrophyllite	11	460.11
	Quartz	508	5769.18
	Quartzite	36	724.55
	Sand (others)	18	10341.95
	Shale	15	296.86
	Silica sand	114	1910.13
	Slate	15	504.12
Steatite	96	803.36	
Vermiculite	9	136.12	
White clay	11	135.66	
White shale	15	68.01	
Total		1948	71072.74
Assam	Limestone	8	929.50
	Total	8	929.50

contd...

State	Mineral	No. of Leases	Lease Area (Hect.)
Bihar	Bauxite	1	44.56
	Limestone	6	166.06
	Mica	2	1196.80
	Pyrites	1	647.50
	Quartz	1	19.80
	Total	11	2074.72
Chhattisgarh	Bauxite	29	5406.45
	China clay	7	32.84
	Corundum	2	27.25
	Dolomite	81	564.09
	Fireclay	5	21.20
	Graphite	1	67.11
	Iron ore	17	6674.61
	Limestone	121	6818.09
	Moulding sand	7	48.61
	Ochre	1	10.12
	Quartz	12	36.34
	Quartzite	15	137.59
	Steatite	3	6.62
	Tin	13	292.62
	Total	314	20143.54
	Goa	Bauxite	3
Iron ore		285	20268.33
Manganese ore		49	2872.97
Total		337	24445.88
Gujarat	Agate	1	4.64
	Ball clay	4	206.36
	Bauxite	158	5811.84
	Calcareous sand	14	151.54
	Calcite	4	10.33
	Chalk	156	635.01
	China clay	103	1185.64
	Clay (others)	86	804.03
	Copper ore	1	832.00
	Dolomite	79	952.93
	Felspar	1	1.00
	Fireclay	65	294.21
	Fluorite	2	63.20
	Gypsum	7	86.85
	Laterite	5	617.50
	Limestone	309	15001.14
	Manganese ore	1	2.95

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State	Mineral	No. of Leases	Lease Area (Hect.)
Gujarat (concl'd)	Marl	7	2673.26
	Moulding sand	3	5.82
	Ochre	5	57.29
	Perlite	1	144.88
	Quartz	33	229.18
	Silica sand	75	1009.15
	Steatite	4	13.67
	Vermiculite	1	23.20
	Total	1125	30817.62
Haryana	Barytes	1	79.32
	Calcite	2	158.56
	China clay	38	3296.12
	Dolomite	2	252.15
	Felspar	1	128.95
	Lime Kankar	2	325.52
	Limestone	7	99.88
	Mica	1	400.00
	Quartz	15	903.74
	Quartzite	4	68.24
	Silica sand	35	5802.35
	Slate	2	123.70
	Total	110	11638.53
	Himachal Pradesh	Barytes	3
Limestone		51	2656.56
Total		54	2665.09
Jammu & Kashmir	Borax	1	159.00
	China clay	2	59.70
	Gypsum	20	419.28
	Limestone	32	874.76
	Magnesite	1	485.70
	Sapphire	1	673.40
	Total	57	2671.84
Jharkhand	Bauxite	45	3994.58
	China clay	21	1536.27
	Copper ore	4	6806.37
	Dolomite	1	18.45
	Felspar	10	255.72
	Fireclay	25	915.11
	Gold	1	19.50
	Graphite	17	453.67
	Iron ore	50	12478.12
	Kyanite	8	2591.35

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State	Mineral	No. of Leases	Lease Area (Hect.)
Jharkhand (concl'd)	Limestone	55	4586.89
	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
	Total	330	37059.58
Karnataka	Bauxite	5	275.12
	China clay	16	878.82
	Chromite	6	1306.38
	Copper ore	1	259.00
	Corundum	3	15.25
	Dolomite	18	306.52
	Felsite	6	102.29
	Felspar	5	134.47
	Fireclay	3	138.84
	Gold	8	6139.03
	Graphite	4	235.03
	Iron ore	161	13338.78
	Kyanite	6	45.04
	Laterite	4	102.08
	Lime kankar	1	7.74
	Limeshell	14	1467.83
	Limestone	137	15161.91
	Magnesite	10	223.39
	Manganese ore	63	4409.24
	Moulding sand	38	970.61
	Quartz	60	642.40
	Quartzite	2	8.09
	Ruby	1	4.07
	Silica sand	33	372.89
	Steatite	8	231.72
	Vermiculite	2	8.31
	Total	615	46784.85
Kerala	Bauxite	3	1.37
	China clay	34	101.64
	Graphite	1	1.25
	Iron ore	1	86.06
	Laterite	9	33.86

contd...

State	Mineral	No. of Leases	Lease Area (Hect.)
Kerala (concl'd)	Limeshell	6	1959.30
	Limestone	1	245.69
	Quartz	1	2.02
	Silica sand	23	77.17
	Sillimanite	6	434.97
	Total	85	2943.33
Madhya Pradesh	Barytes	2	5.37
	Bauxite	58	1273.09
	Calcite	28	69.40
	China clay	19	174.01
	Clay (others)	5	119.25
	Copper ore	2	479.90
	Diamond	2	576.51
	Diaspore	12	86.28
	Dolomite	137	1512.94
	Fireclay	35	308.41
	Iron ore	16	200.76
	Laterite	48	405.73
	Lead & Zinc ore	4	25.53
	Limestone	379	19480.64
	Manganese ore	60	1734.76
	Ochre	63	1258.34
	Phosphorite	5	150.67
	Pyrophyllite	37	212.69
	Quartz	7	45.36
	Quartzite	1	6.10
	Sand (others)	3	17.52
	Shale	16	178.71
	Silica sand	4	3.32
	Slate	1	55.49
	Steatite	17	115.93
	Vermiculite	2	27.49
Total	963	28524.20	
Maharashtra	Agate	2	54.98
	Bauxite	31	4857.05
	China clay	6	52.23
	Chromite	1	52.93
	Corundum	1	3.96
	Dolomite	18	287.13
	Felspar	2	34.25
	Fireclay	2	18.40
	Fluorite	1	32.70

contd...

State	Mineral	No. of Leases	Lease Area (Hect.)
Maharashtra (concl'd)	Iron ore	27	1245.91
	Kyanite	13	250.20
	Laterite	5	101.17
	Limestone	51	5826.29
	Manganese ore	41	1157.77
	Mica	1	42.06
	Moulding sand	2	51.51
	Quartz	8	125.66
	Sand (others)	12	740.60
	Shale	1	32.49
	Silica sand	29	1345.06
	Total	254	16312.35
Manipur	Chromite	2	610.17
	Total	2	610.17
Meghalaya	China clay	2	9.77
	Fireclay	1	221.44
	Limestone	18	1212.42
	Shale	1	4.90
	Total	22	1448.53
Orissa	Amethyst	2	63.34
	Asbestos	2	166.57
	Bauxite	8	6673.47
	China clay	17	1531.06
	Chromite	26	7499.80
	Corundum	2	91.41
	Dolomite	5	523.63
	Dunite	1	14.28
	Fireclay	24	2668.97
	Garnet (Gem)	1	12.08
	Graphite	89	2399.87
	Iolite	11	104.04
	Iron ore	134	30179.41
	Kyanite	1	55.49
	Lead & Zinc ore	1	5.26
	Limestone	44	8023.88
	Manganese ore	50	10816.84
	Pyrophyllite	9	498.28
	Quartz	64	1193.60
	Quartzite	19	496.76
	Sand (others)	7	2718.19
	Silica sand	1	17.45
	Steatite	9	582.14
Tin	1	20.85	
Total	528	76356.67	

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State	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan	Asbestos	28	1286.41
	Ball clay	24	1995.44
	Barytes	4	91.58
	Calcite	36	1264.15
	China clay	178	7227.26
	Clay (others)	1	4.67
	Copper ore	5	1717.95
	Dolomite	7	329.77
	Epidote	1	5.00
	Felspar	724	9959.77
	Fireclay	26	2331.80
	Fluorite	14	1579.81
	Garnet	16	228.64
	Graphite	2	383.55
	Gypsum	49	14879.21
	Iron ore	16	1421.16
	Jasper	5	211.70
	Kyanite	1	5.00
	Lead & Zinc ore	7	7089.27
	Limestone	68	21109.72
	Magnesite	3	15.00
	Manganese ore	1	18.90
	Mica	159	3035.86
	Ochre	42	1481.36
	Phosphorite	6	2092.11
	Pyrophyllite	6	212.91
	Quartz	782	6397.25
	Quartzite	4	521.00
	Shale	1	5.00
	Silica sand	114	4695.55
	Steatite	250	14628.75
	Vermiculite	1	42.22
	Wollastonite	6	211.41
Total	2587	106479.18	
Sikkim	Copper ore	3	96.32
	Total	3	96.32
Tamil Nadu	Apatite	1	4.05
	Bauxite	4	416.99
	China clay	1	12.30
	Dolomite	1	62.07
	Fire clay	46	140.31

contd...

Table-3 (concl'd)

State	Mineral	No. of Leases	Lease Area (Hect.)
Tamil Nadu (concl'd)	Garnet	70	653.18
	Graphite	7	277.52
	Gypsum	13	33.62
	Limeshell	3	733.66
	Limestone	421	6544.27
	Magnesite	23	1591.47
	Quartz	288	552.79
	Sand (others)	2	9.18
	Silica sand	37	100.41
	Steatite	7	25.14
	Vermiculite	1	23.71
	Total	925	11180.67
Uttar Pradesh	Calcite	1	27.92
	Dolomite	1	1656.32
	Limestone	4	3623.43
	Phosphorite	1	874.00
	Pyrophyllite	23	1491.87
	Silica sand	58	1616.57
	Total	88	9290.11
Uttarakhand	Limestone	6	124.92
	Magnesite	4	741.12
	Phosphorite	2	222.05
	Steatite	57	1989.69
	Total	69	3077.78
West Bengal	China clay	27	611.45
	Fireclay	8	65.39
	Moulding sand	3	7.41
	Ochre	1	5.77
	Phosphorite	1	13.47
	Pyrophyllite	1	2.15
	Quartz	9	23.56
	Quartzite	1	4.70
	Sand (others)	1	44.12
	Silica sand	1	2.62
	Total	53	780.64

**Table-4: Statewise/Districtwise/Mineralwise Distribution of Leases and Lease Area
(As on 31.3.2010)**

State	District	Mineral	No. of Leases	Lease Area (Hect.)	
Andhra Pradesh	Adilabad	China clay	9	61.66	
		Clay (others)	1	4.69	
		Laterite	3	13.24	
		Limestone	16	2429.93	
		Manganese ore	15	680.03	
		Quartz	2	9.40	
		Sand (others)	6	7345.93	
		White clay	8	119.28	
		Total	60	10664.16	
		Anantapur	Barytes	3	12.96
	Calcite		1	4.68	
	China clay		2	12.17	
	Corundum		2	13.41	
	Dolomite		56	834.17	
	Felspar		4	74.54	
	Gold		1	168.43	
	Iron ore		8	196.57	
	Limestone		23	276.58	
	Ochre		2	17.98	
	Pyrophyllite		3	217.17	
	Quartz		27	439.03	
	Shale		1	3.16	
	Steatite		28	327.74	
	Total		161	2598.59	
	Chittoor		China clay	3	29.33
			Copper ore	1	2197.70
			Felspar	1	3.78
		Gold	2	272.58	
		Pyrophyllite	3	20.73	
		Quartz	13	125.76	
		Quartzite	1	15.34	
		Steatite	1	1.53	
		Total	25	2666.75	
	Cuddapah	Asbestos	5	227.77	
		Barytes	123	1676.22	
		China clay	5	390.04	
		Clay (others)	11	336.82	
		Dolomite	17	527.48	
		Felspar	15	413.23	
		Iron ore	7	574.97	
		Laterite	4	261.78	
		Lead & Zinc ore	1	15.89	
		Limestone	23	3017.69	
		Ochre	11	93.36	
		Pyrophyllite	5	222.21	
		Quartz	13	264.85	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Andhra Pradesh (contd)	Cuddapah (concl'd)	Quartzite	5	209.06
		Shale	7	83.60
		Silica sand	1	18.70
		Steatite	2	40.13
		Total	255	8373.80
	Godavari East	China clay	13	24.46
		Fireclay	22	56.53
		Laterite	18	237.89
		Total	53	318.88
	Godavari West	Ball clay	20	165.17
		China clay	4	23.37
		Fireclay	3	34.03
		Quartz	6	80.64
		Total	33	303.21
	Guntur	Laterite	1	1.97
		Limestone	34	11653.19
		Quartz	9	138.36
		Slate	1	19.61
		White clay	1	3.61
		White shale	1	33.01
		Total	47	11849.75
	Karimnagar	Iron ore	2	4.00
		Limestone	2	482.52
		Quartz	2	27.51
		Sand (others)	6	2086.71
		Silica sand	1	10.00
		Total	13	2610.74
	Khammam	Barytes	5	304.13
		Corundum	3	3.96
		Dolomite	10	536.32
		Felspar	4	98.55
		Garnet	4	19.94
		Iron ore	6	53.26
		Laterite	1	4.61
		Mica	1	21.85
		Quartz	17	45.45
		Sand (others)	2	76.36
		Total	53	1164.43
	Krishna	Iron ore	7	58.26
		Limestone	15	2595.88
		Quartz	10	22.92
		Total	32	2677.06
	Kurnool	Barytes	6	45.13
		Calcite	2	24.39
		China clay	1	12.14

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Andhra Pradesh (contd)	Kurnool (concl'd)	Dolomite	53	479.67
		Iron ore	27	405.50
		Limestone	103	8660.13
		Ochre	13	180.85
		Quartz	13	141.07
		Quartzite	1	9.60
		Shale	4	16.99
		Silica sand	29	642.81
		Steatite	64	431.46
		White shale	14	35.00
		Total	330	11084.74
		Mahbubnagar	Felspar	3
	Quartz		134	790.55
	Steatite		1	2.50
	Total		138	837.69
	Medak	Amethyst	1	1.49
		Laterite	10	52.33
		Quartz	24	183.18
		Total	35	237.00
	Nalgonda	Laterite	7	20.59
		Limestone	17	1572.44
		Quartz	23	146.78
		Shale	2	60.04
		Total	49	1799.85
	Nellore	Barytes	4	49.56
		Felspar	4	92.74
		Iron ore	2	222.21
		Laterite	12	80.20
		Limeshell	3	83.63
		Mica	122	1915.02
		Moulding sand	1	13.19
		Quartz	91	1204.58
		Silica sand	69	1216.36
		Vermiculite	9	136.12
		Total	317	5013.61
	Nizamabad	Amethyst	1	4.00
		Iron ore	1	6.68
		Laterite	4	47.71
		Quartz	6	20.58
		Total	12	78.97
	Prakasam	Barytes	8	159.78
		Garnet	4	4.70
		Iron ore	1	526.11
		Quartz	73	1751.56
		Silica sand	13	14.76
		Slate	14	484.51
		Total	113	2941.42

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)	
Andhra Pradesh (concl'd)	Rangareddi	Amethyst	3	7.08	
		China clay	1	2.02	
		Clay (others)	2	115.06	
		Fireclay	2	12.14	
		Laterite	19	182.68	
		Limestone	7	1804.64	
		Quartz	26	174.06	
		Shale	1	133.07	
		Total	61	2430.75	
		Srikakulam	Garnet	1	95.08
	Lime kankar		2	10.98	
	Limeshell		1	4.00	
	Quartz		2	10.91	
	Quartzite		5	99.88	
	Sand (others)		1	720.00	
	Silica sand		1	7.50	
	Total		13	948.35	
	Visakhapatnam	Apatite	1	16.12	
		Calcite	6	66.76	
		China clay	2	28.09	
		Garnet	1	4.35	
		Laterite	8	74.56	
		Mica	5	52.93	
		Quartz	7	111.53	
		White clay	2	12.77	
		Total	32	367.11	
	Vizianagaram	Graphite	1	3.11	
		Lime kankar	12	88.20	
		Manganese ore	41	1099.13	
		Quartz	9	69.39	
		Quartzite	24	390.67	
		Sand (others)	3	112.95	
		Total	90	1763.45	
	Warangal	Dolomite	3	19.58	
		Iron ore	1	124.19	
		Laterite	21	187.59	
		Quartz	1	11.07	
		Total	26	342.43	
	Assam	Karbi Anglong	Limestone	1	171.00
			Total	1	171.00
		North Cachar Hills	Limestone	7	758.50
		Total	7	758.50	
Bihar	Jamshedpur	Bauxite	1	44.56	
		Total	1	44.56	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)	
Bihar (concl'd)	Nawada	Mica	2	1196.80	
		Total	2	1196.80	
	Rohtas	Limestone	6	166.06	
		Pyrites	1	647.50	
		Total	7	813.56	
	Supaul	Quartz	1	19.80	
		Total	1	19.80	
	Chhattisgarh	Bastar	Bauxite	2	27.28
			Iron ore	1	192.25
Limestone			19	57.98	
Total			22	277.51	
Bilaspur		Dolomite	35	282.09	
		Limestone	1	582.96	
		Total	36	865.05	
Dantewara		Corundum	2	27.25	
		Iron ore	6	2696.21	
		Tin	13	292.62	
		Total	21	3016.08	
Durg		Dolomite	31	146.61	
		Iron ore	4	2562.69	
		Limestone	44	1339.81	
		Moulding sand	3	12.15	
		Quartzite	4	36.22	
		Total	86	4097.48	
Janjgir-Champa		Dolomite	8	86.79	
		Limestone	3	713.32	
		Total	11	800.11	
Jashpur		Bauxite	5	60.37	
	Quartz	2	4.36		
	Total	7	64.73		
Kabirdham	Bauxite	3	669.64		
	Dolomite	1	12.14		
	Limestone	3	9.45		
	Total	7	691.23		
Kanker	Bauxite	3	13.22		
	Iron ore	4	1032.75		
	Moulding sand	1	13.84		
	Steatite	3	6.62		
	Total	11	1066.43		
Korba	Fireclay	1	0.46		
	Total	1	0.46		

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Chhattisgarh (concl'd)	Mahasamund	Fireclay	3	15.79
		Quartz	5	9.20
		Total	8	24.99
	Raigarh	Dolomite	4	18.56
		Fireclay	1	4.95
		Limestone	6	18.84
		Quartz	2	4.25
		Quartzite	3	60.57
		Total	16	107.17
		Raipur	Dolomite	2
	Limestone		43	4089.42
	Total		45	4107.32
	Rajnandgaon	China clay	7	32.84
		Iron ore	2	190.71
		Limestone	2	6.31
		Moulding sand	3	22.62
		Ochre	1	10.12
		Quartz	3	18.53
		Quartzite	8	40.80
		Total	26	321.93
Surguja	Bauxite	16	4635.94	
	Graphite	1	67.11	
	Total	17	4703.05	
Goa	North Goa	Iron ore	86	6422.81
		Manganese ore	13	701.25
		Total	99	7124.06
	South Goa	Bauxite	3	1304.58
		Iron ore	199	13845.52
		Manganese ore	36	2171.72
Total	238	17321.82		
Gujarat	Amreli	Bauxite	2	147.98
		China clay	1	3.01
		Clay (others)	1	88.54
		Limestone	5	1864.76
		Marl	1	953.33
		Total	10	3057.62
	Banaskantha	Calcite	1	3.76
		Copper ore	1	832.00
		Limestone	1	21.24
		Total	3	857.00
	Bharuch	Agate	1	4.64
		Ball clay	1	183.87
		Silica sand	23	577.21
Total		25	765.72	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Gujarat (contd)	Bhavnagar	Chalk	1	12.00
		Clay (others)	1	9.71
		Dolomite	4	68.09
		Limestone	1	20.00
		Moulding sand	1	2.80
		Total	8	112.60
		Dahod	Quartz	6
	Total		6	43.51
	Jamnagar	Bauxite	116	3099.27
		Calcareous sand	14	151.54
		Chalk	8	33.52
		Clay (others)	3	28.78
		Limestone	61	2203.89
		Ochre	1	20.23
		Total	203	5537.23
	Junagarh	Limestone	104	3044.27
		Marl	5	1153.99
		Total	109	4198.26
	Kheda	Bauxite	16	84.78
		Limestone	1	10.93
		Total	17	95.71
	Kachchh	Ball clay	2	17.00
		Bauxite	12	2329.90
		China clay	84	603.57
		Clay (others)	75	584.41
		Fireclay	1	3.00
		Gypsum	5	83.63
		Laterite	4	526.97
		Limestone	8	5405.70
		Ochre	1	4.00
		Silica sand	8	185.40
		Total	200	9743.58
	Mehesana	China clay	10	184.79
		Total	10	184.79
	Panchmahals	Manganese ore	1	2.95
		Quartz	27	185.67
		Total	28	188.62
	Patan	Ball clay	1	5.49
		China clay	1	36.22
		Clay (others)	4	84.80
		Ochre	3	33.06
		Total	9	159.57

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Gujarat (concl'd)	Porbandar	Bauxite	6	112.36
		Chalk	122	502.93
		Laterite	1	90.53
		Limestone	122	2335.82
		Total	251	3041.64
	Rajkot	Chalk	25	86.56
		Fireclay	22	89.70
		Gypsum	2	3.22
		Limestone	3	12.00
		Perlite	1	144.88
		Silica sand	3	12.50
		Total	56	348.86
	Sabarkantha	Bauxite	6	37.55
		Calcite	3	6.57
		China clay	7	358.05
		Felspar	1	1.00
		Fireclay	6	30.70
		Limestone	2	2.53
		Marl	1	565.94
		Silica sand	14	74.62
		Steatite	4	13.67
		Total	44	1090.63
	Surat	Limestone	1	80.00
		Silica sand	1	6.52
Total		2	86.52	
Surendranagar	Clay (others)	2	7.79	
	Fireclay	36	170.81	
	Moulding sand	2	3.02	
	Silica sand	26	152.90	
	Total	66	334.52	
Vadodara	Dolomite	75	884.84	
	Fluorite	2	63.20	
	Vermiculite	1	23.20	
	Total	78	971.24	
Haryana	Bhiwani	Limekankar	2	325.52
		Total	2	325.52
	Faridabad	China clay	1	125.00
		Quartz	1	228.60
		Silica sand	19	4440.55
		Total	21	4794.15
	Gurgaon	China clay	37	3171.12
		Quartz	4	97.94
		Quartzite	2	47.78
Silica sand		16	1361.80	
Total		59	4678.64	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Haryana (concl'd)	Mahendragarh	Barytes	1	79.32
		Calcite	1	118.00
		Dolomite	2	252.15
		Felspar	1	128.95
		Limestone	7	99.88
		Mica	1	400.00
		Quartz	10	577.20
		Slate	1	81.35
		Total	24	1736.85
		Rewari	Calcite	1
Quartzite	2		20.46	
Slate	1		42.35	
Total	4		103.37	
Himachal Pradesh	Bilaspur	Limestone	2	236.05
		Total	2	236.05
	Mandi	Limestone	1	725.86
		Total	1	725.86
	Sirmur	Barytes	3	8.53
		Limestone	45	636.97
		Total	48	645.50
	Solan	Limestone	3	1057.68
		Total	3	1057.68
	Jammu & Kashmir	Anantnag	Limestone	22
Total			22	216.13
Baramula		Gypsum	13	65.45
		Total	13	65.45
Doda		Gypsum	7	353.83
		Sapphire	1	673.40
		Total	8	1027.23
Leh		Borax	1	159.00
		Total	1	159.00
Poonch		Limestone	2	200.89
	Total	2	200.89	
Pulwama	Limestone	6	235.53	
	Total	6	235.53	
Srinagar	Limestone	2	222.21	
	Total	2	222.21	
Udhampur	China clay	2	59.70	
	Magnesite	1	485.70	
	Total	3	545.40	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Jharkhand	Bokaro	Limestone	1	17.57
		Sand (others)	2	152.83
		Total	3	170.40
	Deogarh	Felspar	2	2.93
		Quartz	1	4.22
		Total	3	7.15
	Dhanbad	Fireclay	6	294.51
		Limestone	1	17.40
		Quartz	1	5.18
		Sand (others)	13	1765.35
		Total	21	2082.44
	Dumka	Quartz	1	0.88
		Total	1	0.88
	Garwah	Limestone	3	1178.92
		Total	3	1178.92
	Giridih	Felspar	1	191.42
		Mica	3	190.72
		Steatite	1	3.64
		Total	5	385.78
	Godda	Limestone	1	18.82
		Total	1	18.82
	Gumla	Bauxite	25	2660.75
		Total	25	2660.75
	Hazaribagh	Felspar	1	3.13
		Fireclay	4	215.04
		Limestone	11	511.23
		Mica	1	197.00
		Pyrophyllite	1	22.50
		Quartz	1	8.20
		Total	19	957.10
	Kodarma	Felspar	4	19.43
		Mica	26	579.00
		Quartz	6	89.89
Steatite		1	1.08	
Total		37	689.40	
Latehar	Bauxite	2	478.35	
	China clay	1	8.25	
	Fireclay	15	405.56	
	Graphite	1	17.81	
	Iron ore	2	45.18	
	Mica	1	4.45	
	Quartz	11	142.32	
	Total	33	1101.92	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Jharkhand (concl'd)	Lohardaga	Bauxite	18	855.48
		Total	18	855.48
	Palamau	Dolomite	1	18.45
		Felspar	1	1.25
		Graphite	16	435.86
		Iron ore	4	58.06
		Limestone	2	1069.80
		Steatite	1	2.52
		Total	25	1585.94
		Ranchi	China clay	2
	Felspar		1	37.56
	Limestone		6	1335.35
	Total		9	1391.98
	Sahebganj	China clay	2	12.25
		Total	2	12.25
	Saraikela-Kharaswan	Kyanite	1	3.84
		Pyroxenite	3	25.78
		Quartz	4	49.04
		Steatite	1	31.36
		Total	9	110.02
	Singhbhum (East)	Copper ore	4	6806.37
		Gold	1	19.50
		Kyanite	1	2.43
		Limestone	24	383.08
		Total	30	7211.38
	Singhbhum (West)	China clay	16	1496.70
		Iron ore	44	12374.88
Kyanite		6	2585.08	
Limestone		6	54.72	
Ochre		1	5.62	
Pyroxenite		7	65.06	
Quartz		1	2.02	
Quartzite		3	27.83	
Steatite		2	27.06	
Total		86	16638.97	
Karnataka	Bagalkot	Dolomite	13	286.20
		Iron ore	2	69.99
		Limestone	84	5244.00
		Quartz	1	4.05
		Total	100	5604.24
	Bengaluru	China clay	1	48.56
		Corundum	1	10.12
		Felspar	4	131.91
		Fireclay	1	2.02
		Ruby	1	4.07
		Total	8	196.68

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Karnataka (contd)	Belgaum	Bauxite	4	251.32
		China clay	3	74.22
		Dolomite	4	15.87
		Iron ore	1	20.23
		Laterite	3	100.06
		Limestone	15	923.10
		Manganese ore	1	40.47
		Moulding sand	3	31.57
		Quartz	1	0.81
		Quartzite	2	8.09
		Silica sand	4	13.40
		Total	41	1479.14
		Bellary	Iron ore	118
	Manganese ore		9	550.65
	Moulding sand		6	65.84
	Quartz		13	58.72
	Steatite		3	6.19
	Total		149	11437.04
	Chickballapura	China clay	4	352.91
		Felspar	1	2.56
		Fireclay	1	14.16
		Laterite	1	2.02
		Quartz	1	64.75
		Total	8	436.40
	Chikmagalur	Dolomite	1	4.45
		Iron ore	1	4.89
		Quartz	1	7.41
		Total	3	16.75
	Chitradurga	Copper ore	1	259.00
		Gold	1	157.83
		Iron ore	14	481.36
		Limestone	15	1632.13
		Manganese ore	25	1383.72
		Quartz	8	194.27
		Total	64	4108.31
	Dawangere	Iron ore	1	38.44
		Manganese ore	3	77.49
		Moulding sand	7	196.27
		Quartz	3	26.31
		Total	14	338.51
	Dharwar	Iron ore	4	190.37
Quartz		1	4.86	
Total		5	195.23	
Gadag	Quartz	1	4.85	
	Total	1	4.85	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Karnataka (contd)	Gulbarga	Gold	1	55.75
		Lime kankar	1	7.74
		Limestone	14	6445.30
		Moulding sand	1	91.00
		Quartz	1	4.98
		Total	18	6604.77
	Hassan	China clay	2	314.41
		Chromite	6	1306.38
		Quartz	3	20.26
		Steatite	2	170.93
		Total	13	1811.98
	Haveri	Moulding sand	21	585.93
		Total	21	585.93
	Kolar	Gold	1	4900.51
		Total	1	4900.51
	Koppal	Quartz	9	84.96
		Total	9	84.96
	Mandya	Corundum	1	1.64
		Felsite	2	2.88
		Quartz	3	23.08
		Total	6	27.60
	Mysore	Corundum	1	3.49
		Felsite	4	99.41
		Graphite	4	235.03
		Kyanite	5	42.61
		Limestone	1	20.23
		Magnesite	10	223.39
		Quartz	3	9.03
		Vermiculite	2	8.31
		Total	30	641.50
	Uttara Kannada	Iron ore	5	463.48
		Limeshell	11	1159.86
		Manganese ore	9	870.29
		Quartz	1	1.82
		Silica sand	11	87.47
		Total	37	2582.92
	Raichur	Gold	4	986.90
		Quartz	1	4.86
		Total	5	991.76
Shimoga	China clay	4	42.99	
	Iron ore	2	745.84	
	Kyanite	1	2.43	
	Manganese ore	3	568.15	
	Total	10	1359.41	

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Karnataka (concl'd)	Dakshina Kannada	Limeshell	1	51.80
		Quartz	1	1.95
		Silica sand	4	40.28
		Total	6	94.03
	Tumkur	China clay	2	45.73
		Fireclay	1	122.66
		Gold	1	38.04
		Iron ore	13	568.54
		Limestone	8	897.15
		Manganese ore	13	918.47
		Quartz	8	125.43
		Steatite	3	54.60
		Total	49	2770.62
		Udupi	Bauxite	1
	Limeshell		2	256.17
	Silica sand		14	231.74
	Total		17	511.71
Kerala	Alapuzha (Alleppy)	Laterite	1	2.09
		Limeshell	4	514.30
		Silica sand	22	29.17
		Total	27	545.56
	Ernakulam	Graphite	1	1.25
		Total	1	1.25
	Idukki (Iddiki)	Silica sand	1	48.00
		Total	1	48.00
	Kannur	Laterite	7	30.64
		Total	7	30.64
	Kasargod	China clay	1	2.93
		Total	1	2.93
	Kollam	Bauxite	3	1.37
		China clay	3	7.84
		Laterite	1	1.13
		Sillimanite	6	434.97
Total		13	445.31	
Kottayam	Limeshell	2	1445.00	
	Total	2	1445.00	
Kozhikode	Iron ore	1	86.06	
	Quartz	1	2.02	
	Total	2	88.08	
Palakkad	Limestone	1	245.69	
	Total	1	245.69	
Thiruvananthapuram	China clay	30	90.87	
	Total	30	90.87	

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Madhya Pradesh	Badwani	Calcite	25	55.61
		Total	25	55.61
	Balaghat	Bauxite	1	40.46
		Copper ore	2	479.90
		Dolomite	18	134.93
		Fireclay	1	2.41
		Limestone	8	79.65
		Manganese ore	46	1555.94
		Ochre	1	16.18
		Sand (others)	2	15.50
		Total	79	2324.97
		Betul	Lead & Zinc ore	4
	Total		4	25.53
	Chhatarpur	China clay	2	20.12
		Diaspore	7	32.00
		Limestone	2	4.91
		Phosphorite	1	48.76
		Pyrophyllite	13	54.27
		Quartzite	1	6.10
		Steatite	2	10.36
		Total	28	176.52
	Chhindwara	Dolomite	11	78.07
		Manganese ore	8	124.83
		Total	19	202.90
	Damoh	Laterite	1	21.25
		Limestone	9	1491.37
		Sand (others)	1	2.02
		Total	11	1514.64
	Datia	Quartz	2	14.09
		Total	2	14.09
	Dewas	Barytes	1	3.35
		Total	1	3.35
	Dhar	Limestone	20	129.66
Ochre		1	6.31	
Total		21	135.97	
Gwalior	China clay	1	20.63	
	Iron ore	3	27.06	
	Laterite	1	4.84	
	Quartz	1	1.29	
	Total	6	53.82	

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Madhya Pradesh (contd)	Jabalpur	Bauxite	4	13.96
		Dolomite	7	64.67
		Fireclay	13	96.89
		Iron ore	12	161.11
		Laterite	9	64.28
		Limestone	11	1069.64
		Manganese ore	3	14.32
		Ochre	2	8.93
		Quartz	2	13.98
		Steatite	3	43.34
		Total	66	1551.12
		Jhabua	Calcite	3
	Dolomite		24	931.05
	Limestone		1	2.15
	Manganese ore		3	39.67
	Phosphorite		3	49.11
	Steatite		1	3.59
	Vermiculite		2	27.49
	Total		37	1066.85
	Katni	Bauxite	10	79.46
		Dolomite	23	137.76
		Fireclay	16	160.83
		Iron ore	1	12.59
		Laterite	3	16.07
		Limestone	92	1545.23
		Ochre	4	10.11
		Silica sand	1	0.60
		Steatite	3	27.45
		Total	153	1990.10
	Khargaon (W Nimar)	China clay	1	0.61
		Dolomite	1	4.04
		Limestone	2	4.89
		Silica sand	3	2.72
		Total	7	12.26
	Mandla	Dolomite	37	110.41
		Total	37	110.41
	Mandsaur	Laterite	11	51.52
		Shale	16	178.71
		Slate	1	55.49
		Total	28	285.72
	Morena	Limestone	1	18.00
		Total	1	18.00
	Narasinhapur	Dolomite	5	14.10
		Fireclay	1	20.00
		Limestone	2	35.06
		Steatite	8	31.19
		Total	16	100.35

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Madhya Pradesh (contd)	Nimach	Laterite	5	53.28
		Limestone	7	1339.94
		Total	12	1393.22
	Panna	Diamond	2	576.51
		Limestone	1	48.39
		Total	3	624.90
	Rewa	Bauxite	12	147.61
		Limestone	18	1719.25
		Ochre	3	47.37
		Total	33	1914.23
	Sagar	Dolomite	2	20.36
		Phosphorite	1	52.80
		Pyrophyllite	2	3.21
		Total	5	76.37
	Satna	Bauxite	27	334.85
		China clay	11	100.57
		Clay (others)	5	119.25
		Laterite	17	176.75
		Limestone	194	10986.48
		Ochre	42	977.77
		Total	296	12695.67
	Seoni	Dolomite	9	17.55
		Total	9	17.55
	Shahdol	Bauxite	1	500.27
		China clay	3	20.84
		Fireclay	1	5.66
		Laterite	1	17.74
		Ochre	2	26.76
		Total	8	571.27
	Shivpuri	Diaspore	1	17.00
		Total	1	17.00
	Shyampur	Limestone	7	508.25
		Ochre	2	22.59
		Total	9	530.84
	Sidhi	Bauxite	1	3.40
		Limestone	4	497.77
		Ochre	3	119.31
		Total	8	620.48
	Tikamgarh	Barytes	1	2.02
		Diaspore	4	37.28
		Pyrophyllite	22	155.21
		Quartz	2	16.00
Total		29	210.51	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Madhya Pradesh (concl'd)	Umaria	China clay	1	11.24
		Fireclay	3	22.62
		Ochre	3	23.01
		Total	7	56.87
Unidentified	Bauxite	2	153.08	
	Total	2	153.08	
Maharashtra	Amravati	China clay	2	16.71
		Fireclay	1	13.26
		Total	3	29.97
	Bhandara	Chromite	1	52.93
		Corundum	1	3.96
		Kyanite	13	250.20
		Manganese ore	8	468.69
		Quartz	3	9.38
		Sand (others)	2	43.64
		Total	28	828.80
		Chandrapur	China clay	1
	Dolomite		1	60.10
	Fluorite		1	32.70
	Iron ore		4	37.91
	Laterite		5	101.17
	Limestone		16	3681.62
	Quartz		1	9.74
	Sand (others)		5	461.08
	Shale		1	32.49
	Total		35	4434.81
	Gadchiroli	Iron ore	3	359.67
		Total	3	359.67
	Gondia	Iron ore	4	30.80
		Quartz	1	14.32
		Total	5	45.12
	Jalna	Agate	2	54.98
		Total	2	54.98
Kolhapur	Bauxite	15	3483.45	
	Iron ore	1	143.95	
	Silica Sand	1	4.95	
	Total	17	3632.35	
Nagpur	China clay	2	4.34	
	Dolomite	16	165.12	
	Manganese ore	33	689.08	
	Quartz	1	1.07	
	Sand (others)	4	191.88	
	Total	56	1051.49	
Raigad	Bauxite	8	517.56	
	Total	8	517.56	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Maharashtra (concl'd)	Ratnagiri	Bauxite	6	685.98
		Moulding sand	1	47.02
		Silica sand	7	396.54
		Total	14	1129.54
	Satara	Bauxite	1	125.06
		Total	1	125.06
	Sindhudurg	Bauxite	1	45.00
		China clay	1	13.18
		Felspar	2	34.25
		Fireclay	1	5.14
		Iron ore	15	673.58
		Mica	1	42.06
		Moulding sand	1	4.49
		Quartz	2	91.15
		Silica sand	21	943.57
		Total	45	1852.42
		Yeotmal	Dolomite	1
	Limestone		35	2144.67
	Sand (others)		1	44.00
	Total		37	2250.58
	Manipur	Chandel	Chromite	1
Total			1	223.93
	Ukhrul	Chromite	1	386.24
		Total	1	386.24
Meghalaya	Garo Hills West	Fireclay	1	221.44
		Limestone	3	530.00
		Total	4	751.44
	Jaintia Hills	Limestone	10	54.05
		Total	10	54.05
	Khasi Hills East	China clay	2	9.77
Limestone		5	628.37	
Shale		1	4.90	
Total		8	643.04	
Orissa	Angul	Fireclay	1	313.85
		Quartz	1	10.74
		Sand (others)	3	135.02
		Total	5	459.61
	Bargarh	China clay	2	93.16
Graphite		13	383.35	
Lead & Zinc ore		1	5.26	
Limestone		3	903.56	
Quartz		1	15.31	
Total		20	1400.64	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Orissa (contd)	Baudh	Quartz	3	55.19
		Total	3	55.19
	Bolangir	Garnet (Gem)	1	12.08
		Graphite	46	1003.81
		Limestone	1	27.65
		Manganese ore	1	7.27
		Quartz	4	100.39
		Total	53	1151.20
		Cuttack	Fireclay	11
	Total		11	1068.11
	Dhenkanal	Chromite	3	960.80
		Fireclay	1	10.11
		Quartz	1	4.65
		Total	5	975.56
	Ganjam	Sand (others)	1	2464.05
		Steatite	1	3.64
		Total	2	2467.69
	Jajpur	Chromite	17	4344.72
		Iron ore	1	190.20
		Quartz	1	7.22
		Quartzite	2	6.15
		Total	21	4548.29
	Jharsuguda	Fireclay	2	72.02
		Quartz	1	83.66
		Quartzite	3	298.12
		Sand (others)	1	109.20
		Total	7	563.00
	Kalahandi	Amethyst	2	63.34
		Corundum	1	57.46
		Graphite	10	179.33
		lolite	10	79.75
		Quartz	31	264.85
		Total	54	644.73
Kandhamal	Graphite	2	38.84	
	Total	2	38.84	
Keonjhar	Asbestos	1	49.22	
	Chromite	6	2194.28	
	Iron ore	79	20864.10	
	Manganese ore	23	6758.39	
	Pyrophyllite	9	498.28	
	Quartz	3	55.25	
	Total	121	30419.52	
Khurda	Fireclay	1	117.74	
	Total	1	117.74	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Orissa (concl'd)	Koraput	Bauxite	3	4915.38
		China clay	2	115.07
		Dunite	1	14.28
		Limestone	2	1586.22
		Quartz	1	26.78
		Total	9	6657.73
	Malkangiri	Quartz	1	2.48
		Tin	1	20.85
		Total	2	23.33
	Mayurbhanj	Asbestos	1	117.35
		China clay	11	1117.40
		Fireclay	1	22.49
		Iron ore	11	1723.32
		Kyanite	1	55.49
		Quartz	2	20.11
		Quartzite	12	132.75
		Steatite	4	257.39
		Total	43	3446.30
		Nawapara	Corundum	1
	Graphite		5	188.54
	Limestone		3	332.96
	Total		9	555.45
	Raygada	Bauxite	1	1388.74
		Graphite	13	606.00
		Manganese ore	5	579.58
		Quartz	2	40.27
		Total	21	2614.59
	Sambalpur	China clay	2	205.43
		Iolite	1	24.29
		Quartz	3	65.47
		Steatite	1	4.05
		Total	7	299.24
	Sonepur	Quartz	3	119.22
		Total	3	119.22
	Sundargarh	Bauxite	4	369.35
		Dolomite	5	523.63
		Fireclay	6	1031.68
		Iron ore	43	7401.79
		Limestone	35	5173.49
		Manganese ore	21	3471.60
		Quartz	6	322.01
		Quartzite	2	59.74
		Sand (others)	2	9.92
Silica sand		1	17.45	
Steatite		3	317.06	
Total	128	18697.72		

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)	
Rajasthan	Ajmer	Asbestos	4	214.66	
		Calcite	1	19.50	
		Felspar	286	2922.65	
		Garnet	5	24.14	
		Lead & Zinc ore	1	480.45	
		Limestone	1	8.57	
		Magnesite	1	5.00	
		Mica	44	1301.76	
		Quartz	102	773.51	
		Steatite	2	131.00	
		Vermiculite	1	42.22	
		Wollastonite	2	9.92	
		Total	450	5933.38	
		Alwar	Barytes	2	13.07
			China clay	1	4.73
	Copper ore		1	914.07	
	Felspar		3	14.72	
	Fireclay		1	3.75	
	Ochre		1	60.70	
	Silica sand		2	8.73	
	Steatite		9	472.85	
	Total		20	1492.62	
	Banswara		Dolomite	1	41.86
		Graphite	2	383.55	
		Limestone	2	66.82	
		Manganese ore	1	18.90	
		Steatite	2	316.76	
		Total	8	827.89	
	Barmer	China clay	4	19.90	
		Gypsum	6	1839.05	
		Silica sand	5	551.09	
		Total	15	2410.04	
	Bharatpur	Fireclay	3	47.75	
		Ochre	2	9.90	
		Silica sand	23	879.98	
		Total	28	937.63	
	Bhilwara	Asbestos	9	45.00	
		Calcite	3	15.00	
		China clay	17	773.16	
		Felspar	393	6191.43	
		Garnet	1	5.00	
		Kyanite	1	5.00	
		Lead & Zinc ore	1	1200.00	
		Limestone	10	10.00	
		Mica	104	1519.02	
		Ochre	4	18.55	
		Pyrophyllite	1	4.75	
		Quartz	5	62.88	
		Silica sand	1	5.00	
		Steatite	36	3063.97	
		Total	586	12918.76	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan (contd)	Bikaner	Ball clay	14	976.34
		China clay	53	3516.21
		Fireclay	18	2190.31
		Gypsum	16	4554.24
		Quartz	2	8.65
		Total	103	11245.75
		Bundi	China clay	2
	Ochre		2	99.37
	Quartz		1	4.50
	Silica sand		1	259.00
	Total		6	471.87
	Chittorgarh	Ball clay	1	83.23
		China clay	33	1102.02
		Limestone	8	3708.98
		Ochre	26	996.04
		Quartz	28	122.18
		Shale	1	5.00
		Total	97	6017.45
	Dausa	China clay	1	32.37
		Iron ore	1	65.25
		Quartz	3	191.29
		Silica sand	9	349.66
		Steatite	6	349.62
		Total	20	988.19
	Dungarpur	Felspar	1	100.00
		Fluorite	9	337.19
		Steatite	57	2586.04
		Total	67	3023.23
	Ganganagar	Gypsum	12	2020.74
		Total	12	2020.74
	Hanumangarh	Gypsum	5	2786.09
		Total	5	2786.09
	Jaipur	Asbestos	1	66.50
		Calcite	1	296.41
		China clay	7	1171.14
		Dolomite	2	92.93
		Epidote	1	5.00
		Felspar	10	241.39
		Iron ore	5	1002.46
		Limestone	3	1334.90
		Mica	2	38.18
		Ochre	2	183.00
		Quartz	45	651.04
		Silica sand	16	839.20
		Steatite	11	915.87
		Total	106	6838.02

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan (contd)	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
		Total	17	3665.63
		Jalore	Fluorite	4
	Gypsum		1	178.50
	Total		5	1253.50
	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
		Total	27	1972.09
	Jodhpur	Jasper	5	211.70
		Total	5	211.70
	Karauli	China clay	6	81.34
		Fireclay	1	5.00
		Silica sand	36	825.77
		Steatite	6	205.10
		Total	49	1117.21
	Kota	Limestone	6	1319.52
		Total	6	1319.52
	Nagaur	Ball clay	2	10.00
		China clay	39	181.41
		Gypsum	4	2271.15
		Limestone	12	6700.63
		Total	57	9163.19
	Pali	Ball clay	6	775.87
		China clay	10	184.09
		Felspar	2	69.87
		Gypsum	1	161.55
		Limestone	11	1774.25
		Magnesite	2	10.00
		Quartz	30	729.78
		Wollastonite	1	4.00
	Total	63	3709.41	

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan (contd)	Rajsamand	Asbestos	11	729.82
		Calcite	5	23.10
		Felspar	2	10.00
		Lead & Zinc ore	3	1725.82
		Mica	2	10.00
		Pyrophyllite	1	5.00
		Quartz	425	2125.96
		Steatite	29	2277.28
		Total	478	6906.98
		Sawai Madhopur	China clay	3
	Clay (others)		1	4.67
	Ochre		1	38.43
	Quartz		8	276.78
	Quartzite		1	518.00
	Silica sand		3	287.02
	Steatite		1	8.05
	Total		18	1147.30
	Sikar	Barytes	1	47.51
		Calcite	8	227.62
		China clay	1	32.54
		Dolomite	2	128.93
		Felspar	9	271.46
		Iron ore	5	95.91
		Limestone	5	2363.12
		Ochre	1	5.00
		Quartz	58	757.54
		Quartzite	3	3.00
		Silica sand	3	15.00
		Steatite	1	5.00
		Total	97	3952.63
		Sirohi	Calcite	5
	Fluorite		1	167.62
	Lead & Zinc ore		1	63.00
	Limestone		7	1120.03
	Quartz		3	12.75
	Wollastonite		2	95.69
	Total		19	1825.75
	Tonk	Felspar	4	75.17
		Garnet	10	199.50
		Mica	7	166.90
		Quartz	46	399.18
		Silica sand	7	290.10
		Steatite	1	48.00
		Total	75	1178.85

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan (concl'd)	Udaipur	Asbestos	3	230.43
		Barytes	1	31.00
		Calcite	9	205.92
		China clay	1	5.00
		Felspar	10	46.97
		Lead & Zinc ore	1	3620.00
		Limestone	1	704.90
		Ochre	1	5.00
		Phosphorite	6	2092.11
		Pyrophyllite	3	160.66
		Quartz	24	111.21
		Steatite	84	3816.65
		Wollastonite	1	101.80
		Total	145	11131.65
		Sikkim	Sikkim East	Copper ore
Total	3			96.32
Tamil Nadu	Ariyalur	Fireclay	9	11.30
		Limestone	50	2146.35
		Total	59	2157.65
	Chennai	Silica sand	1	17.08
		Total	1	17.08
	Coimbatore	Gypsum	4	9.07
		Limestone	3	152.77
		Quartz	22	27.43
		Steatite	2	5.46
		Total	31	194.73
	Cuddalore	Fireclay	18	69.96
		Limeshell	1	4.61
		Silica sand	1	1.06
		Total	20	75.63
	Dharmapuri	Quartz	3	5.07
Total		3	5.07	
Dindigul	Limestone	43	605.57	
	Quartz	31	37.39	
	Total	74	642.96	
Erode	Magnesite	2	7.26	
	Quartz	70	117.95	
	Total	72	125.21	
Kanchipuram	Limeshell	1	190.00	
	Silica sand	11	34.46	
	Total	12	224.46	

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Tamil Nadu (contd)	Kanyakumari	Garnet	10	271.23
		Total	10	271.23
	Karur	Limestone	40	156.28
		Magnesite	2	4.41
		Quartz	83	123.96
		Total	125	284.65
	Krishnagiri	Limestone	2	2.46
		Quartz	1	7.21
		Total	3	9.67
	Madurai	Garnet	2	6.62
		Graphite	2	5.68
		Limestone	11	43.09
		Quartz	5	19.17
		Total	20	74.56
	Nagapattinam	Silica sand	12	18.69
		Total	12	18.69
	Namakkal	Bauxite	3	226.15
		Limestone	39	108.90
		Magnesite	3	4.89
		Quartz	28	55.43
		Total	73	395.37
	Perambalur	Fireclay	17	52.98
		Gypsum	5	18.61
Limestone		34	118.36	
Total		56	189.95	
Periyar	Quartz	1	0.40	
	Total	1	0.40	
Ramnathapuram	Limeshell	1	539.05	
	Total	1	539.05	
Salem	Apatite	1	4.05	
	Bauxite	1	190.84	
	Limestone	54	436.67	
	Magnesite	16	1574.91	
	Quartz	33	133.53	
	Steatite	2	9.78	
	Total	107	2349.78	
Sivaganga	Graphite	5	271.84	
	Quartz	1	1.10	
	Total	6	272.94	

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Tamil Nadu (concl'd)	Theni (Madurai)	Limestone	3	6.77
		Total	3	6.77
	Thiruvallur (Chengalpattu)	Silica sand	1	3.28
		Total	1	3.28
	Thiruvannamalai	Fireclay	1	4.87
		Total	1	4.87
	Thiruvarur (Nagapattinam)	Silica sand	1	4.16
		Total	1	4.16
	Tiruchirappalli	China clay	1	12.30
		Dolomite	1	62.07
		Fire Clay	1	1.20
		Garnet	7	169.70
		Gypum	4	5.94
		Limestone	21	182.57
		Quartz	7	14.70
		Steatite	3	9.90
		Total	45	458.38
		Tirunelveli	Garnet	51
	Limestone		73	689.97
	Total		124	895.60
Thoothukudi (Tuticorin)	Limestone	14	407.22	
	Quartz	2	8.06	
	Sand (others)	2	9.18	
	Total	18	424.46	
Vellore	Quartz	1	1.39	
	Vermiculite	1	23.71	
	Total	2	25.10	
Villupuram	Silica sand	10	21.68	
	Total	10	21.68	
Virudhunagar	Limestone	34	1487.29	
	Total	34	1487.29	
Uttar Pradesh	Allahabad	Silica sand	52	1419.23
		Total	52	1419.23
	Chitrakut	Silica sand	6	197.34
		Total	6	197.34
	Hamirpur	Pyrophyllite	4	31.42
		Total	4	31.42
	Jhansi	Pyrophyllite	6	141.12
		Total	6	141.12

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Uttar Pradesh (concl'd)	Lalitpur	Phosphorite	1	874.00
		Pyrophyllite	10	1308.25
		Total	11	2182.25
	Mahoba	Pyrophyllite	3	11.08
		Total	3	11.08
	Sonbhadra	Calcite	1	27.92
		Dolomite	1	1656.32
		Limestone	4	3623.43
		Total	6	5307.67
	Uttarakhand	Almoda	Steatite	2
Total			2	6.24
Bageshwar		Magnesite	1	53.20
		Steatite	41	1696.67
		Total	42	1749.87
Dehradun		Limestone	2	97.15
		Phosphorite	2	222.05
		Total	4	319.20
Pithoragarh		Magnesite	3	687.92
		Steatite	14	286.78
	Total	17	974.70	
Tehri Garhwal	Limestone	4	27.77	
	Total	4	27.77	
West Bengal	Bankura	China clay	9	275.61
		Fireclay	5	39.91
		Quartz	4	11.57
		Quartzite	1	4.70
		Silica sand	1	2.62
		Total	20	334.41
	Birbhum	China clay	18	335.84
		Fireclay	1	4.86
		Quartz	1	1.94
		Total	20	342.64
	Burdwan	Moulding sand	2	2.27
		Total	2	2.27
	Durgapur	Ochre	1	5.77
		Total	1	5.77
	Purulia	Fireclay	2	20.62
		Moulding sand	1	5.14
Phosphorite		1	13.47	
Pyrophyllite		1	2.15	
Quartz		4	10.05	
Sand (others)		1	44.12	
Total		10	95.55	

3.2 DISTRICTWISE ANALYSIS

(i) High Mineral Potential Districts

Districtwise analysis indicates that the total number of mineral-bearing districts is around 277 and that they are spread across 23 states in the country. Out of these, 25 districts in 8 states are considered as high mineral potential districts wherein more than 100 mining leases each have been granted. A total of 5,386 mining leases have been granted in these districts covering an area of 204,437 hectares. These constitute about 51% of total number of mining leases in the country and cover around 40% 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

S.No.	District	State	No. of Leases	No. of Minerals	Lease Area (Hect.)
1.	Anantapur	Andhra Pradesh	161	14	2,598.59
2.	Cuddapah	Andhra Pradesh	255	17	8,373.80
3.	Kurnool	Andhra Pradesh	330	13	11,084.74
4.	Mahbubnagar	Andhra Pradesh	138	3	837.69
5.	Nellore	Andhra Pradesh	317	10	5,013.61
6.	Prakasam	Andhra Pradesh	113	6	2,941.42
7.	South Goa	Goa	238	3	17,321.82
8.	Jamnagar	Gujarat	203	6	5,537.23
9.	Junagarh	Gujarat	109	2	4,198.26
10.	Kachchh	Gujarat	200	10	9,743.58
11.	Porbandar	Gujarat	251	4	3,041.64
12.	Bellary	Karnataka	149	5	11,437.04
13.	Katni	Madhya Pradesh	153	9	1,990.10
14.	Satna	Madhya Pradesh	296	6	12,695.67
15.	Keonjhar	Orissa	121	6	30,419.52
16.	Sundargarh	Orissa	128	11	18,697.72
17.	Ajmer	Rajasthan	450	12	5,933.38
18.	Bhilwara	Rajasthan	586	14	12,,918.76
19.	Bikaner	Rajasthan	103	5	11,245.75
20.	Jaipur	Rajasthan	106	13	6,838.02
21.	Rajsamand	Rajasthan	478	8	6,906.98
22.	Udaipur	Rajasthan	145	13	11,131.65
23.	Karur	Tamil Nadu	125	3	284.65
24.	Salem	Tamil Nadu	107	6	2,349.78
25.	Tirunelveli	Tamil Nadu	124	2	895.60
		Total	5,386		2,04,437.00

(ii) Medium Mineral Potential Districts

Districts wherein mining leases between 51 and 100 are granted are considered as Medium Potential districts. There are 2,161 such mining leases granted in 31 districts in 13 states covering an area of 98,947 hectares. These constitute 21% of the total number of mining leases in the country and cover over 20% 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

S.No.	District	State	No. of Leases	No. of Minerals	Lease Area (Hect.)
1.	Adilabad	Andhra Pradesh	60	8	10,664.16
2.	Godavari East	Andhra Pradesh	53	3	318.88
3.	Khammam	Andhra Pradesh	53	10	1,164.43
4.	Rangareddi	Andhra Pradesh	61	8	2,430.75
5.	Vizianagaram	Andhra Pradesh	90	6	1,763.45
6.	Durg	Chhattisgarh	86	5	4,097.48
7.	Goa	North Goa	99	2	7,124.06
8.	Rajkot	Gujarat	56	6	348.86
9.	Surendranagar	Gujarat	66	4	334.52
10.	Vadodara	Gujarat	78	3	971.24
11.	Gurgaon	Haryana	59	4	4,678.64
12.	Singhbhum (West)	Jharkhand	86	9	16,638.97
13.	Bagalkot	Karnataka	100	4	5,604.24
14.	Chitradurga	Karnataka	64	6	4,108.31
15.	Balaghat	Madhya Pradesh	79	8	2,324.97
16.	Jabalpur	Madhya Pradesh	66	10	1,551.12
17.	Nagpur	Maharashtra	56	5	1,051.49
18.	Bolangir	Orissa	53	5	1,151.20
19.	Kalahandi	Orissa	54	5	644.73
20.	Chittorgarh	Rajasthan	97	6	6,017.45
21.	Dungarpur	Rajasthan	67	3	3,023.23
22.	Nagaur	Rajasthan	57	4	9,163.19
23.	Pali	Rajasthan	63	8	3,709.41
24.	Sikar	Rajasthan	97	12	3,952.63
25.	Tonk	Rajasthan	75	6	1,178.85
26.	Ariyalur	Tamil Nadu	59	2	2,157.65
27.	Dindigul	Tamil Nadu	74	2	642.96
28.	Erode	Tamil Nadu	72	2	125.21
29.	Namakkal	Tamil Nadu	73	4	395.37
30.	Perambalur	Tamil Nadu	56	3	189.95
31.	Allahabad	Uttar Pradesh	52	1	1,419.23
		Total	2,161		98,946.63

(iii) Low Mineral Potential Districts

Districts wherein mining leases granted are between 1 and 50 are considered as Low Mineral Potential districts. There are 2,941 mining leases granted in 218 such districts in 22 states covering an area of 2,04,020 hectares in the country. These account for 28% of the total leases in the country covering 40% of the total area. Statewise distribution of low potential districts, no. of leases and total area covered are furnished in Table-7.

Table-7: Low Mineral Potential Districts

S.No.	State	No. of Districts	No. of Leases	Lease Area (Hect.)
1.	Andhra Pradesh	11	317	23,881.22
2.	Assam	2	8	929.50
3.	Bihar	4	11	2,074.72
4.	Chhattisgarh	13	228	16,046.06
5.	Gujarat	11	162	6,642.29
6.	Haryana	4	51	6,959.89
7.	Himachal Pradesh	4	54	2,665.09
8.	Jammu & Kashmir	8	57	2,671.84
9.	Jharkhand	17	244	20,420.61
10.	Karnataka	20	302	25,635.26
11.	Kerala	10	85	2,943.33
12.	Madhya Pradesh	26	369	9,962.34
13.	Maharashtra	12	198	15,260.86
14.	Manipur	2	2	610.17
15.	Meghalaya	3	22	1,448.53
16.	Orissa	17	172	25,443.50
17.	Rajasthan	16	263	24,459.88
18.	Sikkim	1	3	96.32
19.	Tamil Nadu	21	235	4,139.50
20.	Uttar Pradesh	6	36	7,870.88
21.	Uttarakhand	5	69	3,077.78
22.	West Bengal	5	53	780.64
	Total	218	2,941	204,020.21

3.3 MINERALWISE ANALYSIS

There are 65 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 10 minerals under Scheduled Minerals for which mining leases are granted as on 31.3.2010. The number of leases granted are 1,551, i.e., 15% of the total mining leases accounting for an area of 1,79,445.32 hectares which is 35% of the total mining area in the country. Out of the ten scheduled minerals, the total number of mining leases granted for iron ore is placed at 769 followed by bauxite (345), manganese ore (321), asbestos (35), chromite (35) and copper ore (17). These six minerals account for 1522 mining leases, i.e., 98% of the mining leases under this category accounting for an area of 1,64,455.85 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

S. No.	Mineral	No. of Leases Executed	Area in Hectares
1.	Asbestos	35	1680.75
2.	Bauxite	345	30059.10
3.	Chromite	35	9469.28
4.	Copper ore	17	12389.24
5.	Diamond *	2	576.51
6.	Gold	12	6599.54
7.	Iron ore	769	88064.89
8.	Lead & Zinc ore	13	7135.95
9.	Manganese ore	321	22792.59
10.	Ruby *	1	4.07
11.	Sapphire *	1	673.40
	Total	1,551	1,79,445.32

* : Precious Stones

(ii) Non-Scheduled Minerals

There are 54 Non-Scheduled or Industrial minerals, for which leases are granted in the country. In all, there are 8,937 (85% of the total mining leases) mining leases granted for these minerals that account for an area of 3,27,958.52 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

S. No.	Mineral	No. of Leases	Lease Area (Hect.)
1.	Agate	3	59.62
2.	Amethyst	7	75.91
3.	Apatite	2	20.17
4.	Ball clay	48	2366.97
5.	Barytes	159	2432.58
6.	Borax	1	159.00
7.	Calcareous sand	14	151.54
8.	Calcite	80	1626.19
9.	Chalk	156	635.01
10.	China clay	511	17292.39
11.	Clay (others)	106	1384.52
12.	Corundum	13	155.24
13.	Diaspore	12	86.28
14.	Dolomite	489	8863.22
15.	Dunite	1	14.28
16.	Epidote	1	5.00
17.	Felsite	6	102.29
18.	Felspar	774	11241.64
19.	Fireclay	267	7226.78
20.	Fluorite	17	1675.71
21.	Garnet	96	1005.89
22.	Garnet (Gem)	1	12.08
23.	Graphite	122	3821.11
24.	Gypsum	89	15418.96
25.	Iolite	11	104.04
26.	Jasper	5	211.70
27.	Kyanite	29	2947.08
28.	Laterite	179	2425.49

Table-9 (concl'd)

S. No.	Mineral	No. of Leases	Lease Area (Hect.)
29.	Lime kankar	17	432.44
30.	Limeshell	27	4248.42
31.	Limestone	1958	144979.05
32.	Magnesite	41	3056.68
33.	Marl	7	2673.26
34.	Mica	322	7635.69
35.	Moulding sand	54	1097.15
36.	Ochre	139	3110.69
37.	Perlite	1	144.88
38.	Phosphorite	15	3352.30
39.	Pyrites	1	647.50
40.	Pyrophyllite	88	2900.51
41.	Pyroxenite	10	90.84
42.	Quartz	1814	16242.63
43.	Quartzite	85	1994.86
44.	Sand (others)	58	15789.74
45.	Shale	34	517.96
46.	Silica sand	524	16952.67
47.	Sillimanite	6	434.97
48.	Slate	18	683.31
49.	Steatite	457	18462.68
50.	Tin	14	313.47
51.	Vermiculite	16	261.05
52.	White clay	11	135.66
53.	White shale	15	68.01
54.	Wollastonite	6	211.41
	Total	8937	327958.52

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 between 1,001 and 2000;
- 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 401 and 500;
- Category –IV** : Includes minerals for which number of mining leases executed are between 301 and 400;
- Category –V** : Includes minerals for which number of mining leases executed are between 201 and 300;
- Category –VI** : Includes minerals for which number of mining leases executed are between 101 and 200;
- Category –VII** : Includes minerals for which number of mining leases executed are between 51 and 100; and
- Category –VIII** : Includes minerals for which number of mining leases executed are between 1 and 50.

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

Table –10: Categorywise Number of Minerals, their Mining Leases and Area of Leases

Category	No. of Minerals	No. of Mining Leases		Lease Area	
		No. of Leases	Percentage	In Hect.	Percentage
I	2	3,772	36	1,61,221.68	32
II	4	2,578	25	1,33,551.59	26
III	2	946	9	27,325.90	5
IV	3	988	9	60,487.38	12
V	1	267	3	7,226.78	1
VI	6	861	8	13,809.40	3
VII	7	550	5	39,833.30	8
VIII	40	526	5	63,947.81	13
Total	65	10,488	100	5,07,403.84	100

Table-11 : Frequency Distribution of Mining Leases

Category	Frequency of Leases	Mineral	No. of Mining Leases Granted	Lease Area in Hect.
I	>1000	Limestone	1958	144979.05
		Quartz	1814	16242.63
		Total	3772	161221.68
II	Between 501 and 1000	China clay	511	17292.39
		Felspar	774	11241.64
		Iron ore	769	88064.89
		Silica sand	524	16952.67
		Total	2578	133551.59
III	Between 401 and 500	Dolomite	489	8863.22
		Steatite	457	18462.68
		Total	946	27325.90
IV	Between 301 and 400	Bauxite	345	30059.10
		Manganese ore	321	22792.59
		Mica	322	7635.69
		Total	988	60487.38
V	Between 201 and 300	Fireclay	267	7226.78
		Total	267	7226.78
VI	Between 101 and 200	Barytes	159	2432.58
		Chalk	156	635.01
		Clay (others)	106	1384.52
		Graphite	122	3821.11
		Laterite	179	2425.49
		Ochre	139	3110.69
		Total	861	13809.40
VII	Between 51 and 100	Calcite	80	1626.19
		Garnet	96	1005.89
		Gypsum	89	15418.96
		Moulding sand	54	1097.15
		Pyrophyllite	88	2900.51
		Quartzite	85	1994.86
		Sand (others)	58	15789.74
		Total	550	39833.30

contd...

Table-11 (concl'd)

Category	Frequency of Leases	Mineral	No. of Mining Leases Granted	Lease Area in Hect.
VIII	Between 1 and 50	Agate	3	59.62
		Amethyst	7	75.91
		Apatite	2	20.17
		Asbestos	35	1680.75
		Ball clay	48	2366.97
		Borax	1	159.00
		Calcareous sand	14	151.54
		Chromite	35	9469.28
		Copper ore	17	12389.24
		Corundum	13	155.24
		Diamond	2	576.51
		Diaspore	12	86.28
		Dunite	1	14.28
		Epidote	1	5.00
		Felsite	6	102.29
		Fluorite	17	1675.71
		Garnet (Gem)	1	12.08
		Gold	12	6599.54
		Iolite	11	104.04
		Jasper	5	211.70
		Kyanite	29	2947.08
		Lead & Zinc ore	13	7135.95
		Lime kankar	17	432.44
		Limeshell	27	4248.42
		Magnesite	41	3056.68
		Marl	7	2673.26
		Perlite	1	144.88
		Phosphorite	15	3352.30
		Pyrites	1	647.50
		Pyroxenite	10	90.84
		Ruby	1	4.07
		Sapphire	1	673.40
		Shale	34	517.96
Sillimanite	6	434.97		
Slate	18	683.31		
Tin	14	313.47		
Vermiculite	16	261.05		
White clay	11	135.66		
White Shale	15	68.01		
Wollastonite	6	211.41		
		Total	526	63947.81

3.5 MUSEUM DISTRICTS OF MINERALS

Districts wherein there are concentration of both number and wide variety of minerals are considered as Museum Districts of minerals. There are as many as 83 districts covering 13 states which have more than 4 varieties of minerals. The districts and occurrences of wide variety of minerals have been listed in Table-4. Cuddapah, Anantapur and Kurnool districts of Andhra Pradesh; Belgaum district of Karnataka; and Jaipur, Bhilwara & Udaipur districts of Rajasthan are considered as Museum Districts of Minerals. These seven districts are endowed with as many as 12 varieties of minerals respectively.

3.6 SECTORWISE DISTRIBUTION OF MINING LEASES

Out of the total 10,488 mining leases in the country, 521 (5%) leases have been executed in the Public Sector, extending over an area of 1,48,932.76 hectares (29%). The remaining 9,967 (95%) mining leases with an area of 3,58,471.08 hectares (71%) 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 190 mining leases under Central Government Public Sector Undertakings executed in 16 States for different minerals, covering an area of 76,049.43 hectares. The States rich in minerals where maximum number of mining leases executed for Central Govt. Public Sector Undertakings are Andhra Pradesh & Maharashtra 31 (16% each), followed by Madhya Pradesh 28 (15%), Jharkhand 20 (11%), Rajasthan 17 (9%), Orissa 15 (8%), Chhattisgarh 13 (7%) and Tamil Nadu 12 (6%). These eight States together account for over 88% of total leases executed and the remaining 8 States account for the rest of the 12 percent.

The prominent States where maximum mining lease areas are located are Jharkhand (22%) followed by Orissa (21%), Andhra Pradesh (18%), Chhattisgarh, Madhya Pradesh and Karnataka (9% each) and Rajasthan (5%). These seven States account for 93% of the total lease area executed and the remaining States account for the rest of the 7 percent.

Leases Under State Government Public Sector Undertakings

There are 331 number of mining leases executed in 18 States for different minerals, covering an area of 72,883.33 hectares. The States rich in minerals where there are maximum number of mining leases executed are Karnataka 61 (18%), Rajasthan 57 (17%), Tamil Nadu 45 and Orissa 44 (14% each), Andhra Pradesh and Chhattisgarh 23 each (7% each), Gujarat 19 (6%) and Maharashtra 16 (5%). These eight States together account for over 88% of the total leases executed and the remaining 10 States account for the rest of the 12 percent.

The prominent States where maximum mining lease areas are located are Rajasthan (31%), Orissa (27%), Karnataka (14%), Uttar Pradesh (9%), Gujarat (5%) and Tamil Nadu (4%). These six States together account for around 90% of the total lease area executed while the remaining 12 States account for the rest of the 10 percent.

Statewise and Sectorwise distribution of mining leases are given in Tables-12 to 14.

Table-12: Sectorwise Distribution of Mining Leases (As on 31.03.2010)
(Public Sector and Private Sector)

S.No.	State	Total		Public Sector		Private Sector	
		No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)
1.	Andhra Pradesh	1948	71072.74	54	15055.01	1894	56017.73
2.	Assam	8	929.50	2	338.00	6	591.50
3.	Bihar	11	2074.72	1	647.50	10	1427.22
4.	Chhattisgarh	314	20143.54	36	7269.67	278	12873.87
5.	Goa	337	24445.88	-	-	337	24445.88
6.	Gujarat	1125	30817.62	19	3712.39	1106	27105.23
7.	Haryana	110	11638.53	2	325.52	108	11313.01
8.	Himachal Pradesh	54	2665.09	2	410.23	52	2254.86
9.	Jammu & Kashmir	57	2671.84	5	1569.20	52	1102.64
10.	Jharkhand	330	37059.58	29	18186.38	301	18873.20
11.	Karnataka	615	46784.85	68	17167.02	547	29617.83
12.	Kerala	85	2943.33	7	439.62	78	2503.71
13.	Madhya Pradesh	963	28524.20	38	7121.43	925	21402.77
14.	Maharashtra	254	16312.35	47	2147.20	207	14165.15
15.	Manipur	2	610.17	-	-	2	610.17
16.	Meghalaya	22	1448.53	2	605.44	20	843.09
17.	Orissa	528	76356.67	59	35351.48	469	41005.19
18.	Rajasthan	2587	106479.18	74	27136.70	2513	79342.48
19.	Sikkim	3	96.32	3	96.32	-	-
20.	Tamil Nadu	925	11180.67	57	3871.49	868	7309.18
21.	Uttar Pradesh	88	9290.11	8	6634.33	80	2655.78
22.	Uttarakhand	69	3077.78	5	811.25	64	2266.53
23.	West Bengal	53	780.64	3	36.58	50	744.06
	All India	10488	507403.84	521	148932.76	9967	358471.08

Table-13: Distribution of Mining Leases in Public Sector (As on 31/03/2010)
(Under Central Government and State Government)

S.No.	State	Central Government		State Government		Total	
		No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)
1.	Andhra Pradesh	31	13900.91	23	1154.10	54	15055.01
2.	Assam	1	171.00	1	167.00	2	338.00
3.	Bihar	1	647.50	0	0	1	647.50
4.	Chhattisgarh	13	6797.23	23	472.44	36	7269.67
5.	Gujarat	0	0	19	3712.39	19	3712.39
6.	Haryana	2	325.52	0	0	2	325.52
7.	Himachal Pradesh	2	410.23	0	0	2	410.23
8.	Jammu & Kashmir	0	0	5	1569.20	5	1569.20
9.	Jharkhand	20	16667.30	9	1519.08	29	18186.38
10.	Karnataka	7	6638.77	61	10528.25	68	17167.02
11.	Kerala	5	277.33	2	162.29	7	439.62
12.	Madhya Pradesh	28	6789.16	10	332.27	38	7121.43
13.	Maharashtra	31	1573.15	16	574.05	47	2147.2
14.	Meghalaya	0	0	2	605.44	2	605.44
15.	Orissa	15	15924.79	44	19426.69	59	35351.48
16.	Rajasthan	17	4158.56	57	22978.14	74	27136.70
17.	Sikkim	0	0	3	96.32	3	96.32
18.	Tamil Nadu	12	1020.15	45	2851.34	57	3871.49
19.	Uttar Pradesh	1	33.58	7	6600.75	8	6634.33
20.	Uttarakhand	4	714.25	1	97.00	5	811.25
21.	West Bengal	0	0	3	36.58	3	36.58
	Total	190	76049.43	331	72883.33	521	148932.76

Table-14: Summary of Lease Distribution in Public Sector (As on 31.3.2010)
(By States/Districts/Minerals)

State	District	Mineral	Central Government		State Government		Total		
			No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	
Andhra Pradesh	Adilabad	Limestone	1	839.35	2	220.51	3	1059.86	
	Adilabad	Sand (others)	6	7345.93	0	0	6	7345.93	
	Anantapur	Gold	1	168.43	0	0	1	168.43	
	Cuddapah	Barytes	0	0	11	226.82	11	226.82	
	Chittoor	Gold	2	272.58	0	0	2	272.58	
	Godavari West	China clay	0	0	1	14.67	1	14.67	
	Karimnagar	Sand (others)	6	2086.71	0	0	6	2086.71	
	Khammam	Dolomite	1	384.46	0	0	1	384.46	
	Khammam	Sand (others)	2	76.36	0	0	2	76.36	
	Krishna	Limestone	1	1295.00	0	0	1	1295.00	
	Nellore	Moulding sand	0	0	1	13.19	1	13.19	
	Prakasam	Iron ore	0	0	1	526.11	1	526.11	
	Rangareddi	Laterite	1	41.38	0	0	1	41.38	
	Rangareddi	Limestone	2	868.96	0	0	2	868.96	
	Rangareddi	Shale	1	133.07	0	0	1	133.07	
	Srikakulam	Silica sand	1	7.50	0	0	1	7.50	
	Visakhapatnam	Apatite	0	0	1	16.12	1	16.12	
	Visakhapatnam	Calcite	0	0	2	46.63	2	46.63	
	Visakhapatnam	Mica	0	0	2	46.61	2	46.61	
	Visakhapatnam	Quartz	1	3.24	0	0	1	3.24	
	Vizianagaram	Manganese ore	2	264.99	2	43.44	4	308.43	
	Vizianagaram	Sand (others)	3	112.95	0	0	3	112.95	
		Total		31	13900.91	23	1154.10	54	15055.01
	Assam	Karbi Anglong	Limestone	1	171.00	0	0	1	171.00
		North Cachar Hills	Limestone	0	0	1	167.00	1	167.00
		Total		1	171.00	1	167.00	2	338.00
Bihar	Rohtas	Pyrites	1	647.50	0	0	1	647.50	
	Total		1	647.50	0	0	1	647.50	
Chhattisgarh	Bilaspur	Dolomite	1	128.77	0	0	1	128.77	
	Dantewara	Corundum	0	0	2	27.25	2	27.25	
	Dantewara	Iron ore	6	2696.21	0	0	6	2696.21	
	Dantewara	Tin	0	0	2	103.22	2	103.22	
	Durg	Dolomite	0	0	1	22.15	1	22.15	
	Durg	Iron ore	4	2562.69	0	0	4	2562.69	
	Durg	Limestone	1	526.34	0	0	1	526.34	
	Jashpur	Bauxite	0	0	5	60.37	5	60.37	
	Kanker	Iron ore	1	883.22	0	0	1	883.22	
	Kabirdham	Bauxite	0	0	1	5.31	1	5.31	
	Surguja	Bauxite	0	0	12	254.14	12	254.14	
	Total		13	6797.23	23	472.44	36	7269.67	
	Gujarat	Banaskantha	Copper ore	0	0	1	832.00	1	832.00
Bharuch		Ball clay	0	0	1	183.87	1	183.87	
Bharuch		Silica sand	0	0	1	143.70	1	143.70	
Jamnagar		Bauxite	0	0	2	189.79	2	189.79	
Kachchh		Bauxite	0	0	11	2219.83	11	2219.83	
Surat		Limestone	0	0	1	80.00	1	80.00	
Vadodara		Fluorite	0	0	2	63.20	2	63.20	
Total			0	0	19	3712.39	19	3712.39	

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State	District	Mineral	Central Government		State Government		Total	
			No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)
Haryana	Bhiwani	Lime kankar	2	325.52	0	0	2	325.52
		Total	2	325.52	0	0	2	325.52
Himachal Pradesh	Sirmur	Limestone	1	172.03	0	0	1	172.03
		Solan	1	238.20	0	0	1	238.20
		Total	2	410.23	0	0	2	410.23
Jammu & Kashmir	Doda	Gypsum	0	0	2	322.00	2	322.00
		Sapphire	0	0	1	673.40	1	673.40
		Pulwama	0	0	1	88.10	1	88.10
		Udhampur	0	0	1	485.70	1	485.70
		Total	0	0	5	1569.20	5	1569.20
Jharkhand	Garwah	Limestone	3	1178.92	0	0	3	1178.92
		Hazaribagh	0	0	2	129.50	2	129.50
		Palamau	0	0	1	15.18	1	15.18
		Palamau	0	0	1	1043.83	1	1043.83
		Ranchi	0	0	2	239.63	2	239.63
		Singhbhum (East)	4	6806.37	0	0	4	6806.37
		Singhbhum (East)	0	0	1	2.43	1	2.43
		Singhbhum (West)	12	6933.76	0	0	12	6933.76
		Singhbhum (West)	1	1748.25	2	88.51	3	1836.76
		Total	20	16667.30	9	1519.08	29	18186.38
Karnataka	Bagalkot	Dolomite	0	0	2	239.86	2	239.86
		Limestone	0	0	11	3228.68	11	3228.68
		Bengaluru	0	0	3	130.30	3	130.30
		Belgaum	0	0	1	701.32	1	701.32
		Bellary	2	1255.50	12	2046.30	14	3301.80
		Chitradurga	0	0	1	259.00	1	259.00
		Chitradurga	0	0	1	157.83	1	157.83
		Gulbarga	0	0	1	55.75	1	55.75
		Gulbarga	4	482.76	0	0	4	482.76
		Hassan	0	0	2	314.41	2	314.41
		Hassan	0	0	6	1306.38	6	1306.38
		Hassan	0	0	2	18.20	2	18.20
		Hassan	0	0	1	80.93	1	80.93
		Kolar	1	4900.51	0	0	1	4900.51
		Mandya	0	0	1	15.17	1	15.17
		Mysore	0	0	3	136.27	3	136.27
		Uttara Kannada	0	0	1	80.94	1	80.94
		Raichur	0	0	4	986.90	4	986.90
		Shimoga	0	0	4	42.99	4	42.99
		Shimoga	0	0	2	550.65	2	550.65
		Tumkur	0	0	1	38.04	1	38.04
		Udupi	0	0	1	23.80	1	23.80
		Udupi	0	0	1	114.53	1	114.53
		Total	7	6638.77	61	10528.25	68	17167.02
Kerala	Kollam	China clay	0	0	1	4.65	1	4.65
		Sillimanite	5	277.33	1	157.64	6	434.97
		Total	5	277.33	2	162.29	7	439.62
Madhya Pradesh	Balaghat	Copper ore	2	479.90	0	0	2	479.90
		Manganese ore	11	1172.27	0	0	11	1172.27
		Sand (others)	2	15.50	0	0	2	15.50
		Chhatarpur	0	0	1	48.76	1	48.76
		Jhabua	0	0	3	49.11	3	49.11
		Katni	2	38.27	0	0	2	38.27
		Katni	3	1109.09	0	0	3	1109.09
		Mandla	0	0	1	2.52	1	2.52

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State	District	Mineral	Central Government		State Government		Total	
			No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)
Madhya Pradesh (concl'd)	Nimach	Limestone	2	500.45	0	0	2	500.45
	Panna	Diamond	2	576.51	0	0	2	576.51
	Rewa	Bauxite	0	0	1	4.90	1	4.90
	Sagar	Phosphorite	0	0	1	52.80	1	52.80
	Satna	Limestone	4	2897.17	0	0	4	2897.17
	Satna	Bauxite	0	0	1	21.00	1	21.00
	Tikamgarh	Pyrophyllite	0	0	1	5.00	1	5.00
	Unidentified	Bauxite	0	0	1	148.18	1	148.18
		Total	28	6789.16	10	332.27	38	7121.43
Maharashtra	Bhandara	Kyanite	0	0	7	190.72	7	190.72
	Bhandara	Manganese ore	6	448.26	0	0	6	448.26
	Bhandara	Sand (others)	1	40.41	0	0	1	40.41
	Chandrapur	Fluorite	0	0	1	32.70	1	32.70
	Chandrapur	Sand (others)	5	461.08	0	0	5	461.08
	Gondia	Iron ore	0	0	1	4.37	1	4.37
	Nagpur	Dolomite	0	0	2	55.63	2	55.63
	Nagpur	Manganese ore	14	387.52	0	0	14	387.52
	Nagpur	Sand (others)	4	191.88	0	0	4	191.88
	Sindhudurg	Felspar	0	0	1	29.27	1	29.27
	Sindhudurg	Silica sand	0	0	2	141.61	2	141.61
	Yeotmal	Limestone	0	0	2	119.75	2	119.75
	Yeotmal	Sand (others)	1	44.00	0	0	1	44.00
		Total	31	1573.15	16	574.05	47	2147.20
Meghalaya	Garo Hills West	Fireclay	0	0	1	221.44	1	221.44
	Garo Hills West	Limestone	0	0	1	384.00	1	384.00
		Total	0	0	2	605.44	2	605.44
Orissa	Bargarh	Limestone	0	0	1	304.32	1	304.32
	Dhenkanal	Chromite	0	0	2	847.49	2	847.49
	Ganjam	Sand others	1	2464.05	0	0	1	2464.05
	Jajpur	Chromite	0	0	7	3117.36	7	3117.36
	Jajpur	Iron ore	0	0	1	190.20	1	190.20
	Kalahandi	Amethyst	0	0	2	63.34	2	63.34
	Kalahandi	Corundum	0	0	1	57.46	1	57.46
	Keonjhar	Chromite	0	0	3	1930.17	3	1930.17
	Keonjhar	Iron ore	5	4309.72	9	4626.29	14	8936.01
	Keonjhar	Manganese ore	1	998.70	6	3511.66	7	4510.36
	Koraput	Bauxite	2	4647.27	0	0	2	4647.27
	Koraput	Limestone	0	0	2	1586.22	2	1586.22
	Mayurbhanj	China clay	0	0	1	142.70	1	142.70
	Nawapara	Corundum	0	0	1	33.95	1	33.95
	Nawapara	Limestone	0	0	3	332.96	3	332.96
	Raygada	Manganese ore	0	0	1	501.67	1	501.67
	Sundargarh	Bauxite	1	117.44	0	0	1	117.44
	Sundargarh	Iron ore	4	2593.64	4	2180.90	8	4774.54
	Sundargarh	Limestone	1	793.97	0	0	1	793.97
		Total	15	15924.79	44	19426.69	59	35351.48

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State	District	Mineral	Central Government		State Government		Total		
			No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	
Rajasthan	Alwar	Copper ore	1	914.07	0	0	1	914.07	
	Banswara	Graphite	0	0	2	383.55	2	383.55	
	Barmer	Gypsum	2	1100.66	3	726.03	5	1826.69	
	Bikaner	Gypsum	3	367.02	11	4177.47	14	4544.49	
	Dungarpur	Fluorite	0	0	4	292.30	4	292.30	
	Dungurpur	Steatite	0	0	1	4.88	1	4.88	
	Ganganagar	Gypsum	6	471.25	6	1549.49	12	2020.74	
	Hanumangarh	Gypsum	0	0	5	2786.09	5	2786.09	
	Jaisalmer	Gypsum	1	501.68	2	366.21	3	867.89	
	Jaisalmer	Limestone	0	0	2	1998.00	2	1998.00	
	Jalore	Fluorite	0	0	4	1075.00	4	1075.00	
	Jalore	Gypsum	0	0	1	178.50	1	178.50	
	Jhunjhunu	Copper ore	4	803.88	0	0	4	803.88	
	Nagaur	Gypsum	0	0	4	2271.15	4	2271.15	
	Nagaur	Limestone	0	0	3	4915.44	3	4915.44	
	Pali	Gypsum	0	0	1	161.55	1	161.55	
	Sirohi	Lead & Zinc ore	0	0	1	63.00	1	63.00	
	Udaipur	Barytes	0	0	1	31.00	1	31.00	
	Udaipur	Calcite	0	0	1	49.50	1	49.50	
	Udaipur	Phosphorite	0	0	5	1948.98	5	1948.98	
			Total	17	4158.56	57	22978.14	74	27136.70
	Sikkim	Sikkim East	Copper ore	0	0	3	96.32	3	96.32
			Total	0	0	3	96.32	3	96.32
	Tamil Nadu	Ariyalur	Limestone	0	0	6	626.52	6	626.52
Cuddalore		Fireclay	0	0	2	42.05	2	42.05	
Erode		Quartz	0	0	7	31.92	7	31.92	
Kanchipuram		Limeshell	0	0	1	190.00	1	190.00	
Kanchipuram		Silica sand	0	0	4	21.51	4	21.51	
Kanyakumari		Garnet	5	258.31	0	0	5	258.31	
Karur		Quartz	0	0	3	12.49	3	12.49	
Namakkal		Quartz	0	0	4	14.92	4	14.92	
Periyar		Quartz	0	0	1	0.40	1	0.40	
Ramnathapuram		Limeshell	0	0	1	539.05	1	539.05	
Salem		Magnesite	7	761.84	1	96.34	8	858.18	
Salem		Quartz	0	0	2	1.09	2	1.09	
Sivaganga		Graphite	0	0	2	242.46	2	242.46	
Tiruchirappalli		China clay	0	0	1	12.30	1	12.30	
Tiruchirappalli		Dolomite	0	0	1	62.07	1	62.07	
Tirunelveli		Garnet	0	0	1	8.96	1	8.96	
Tirunelveli		Limestone	0	0	3	51.92	3	51.92	
Vellore		Vermiculite	0	0	1	23.71	1	23.71	
Villupuram		Silica sand	0	0	1	3.73	1	3.73	
Virudhunagar		Limestone	0	0	3	869.90	3	869.90	
			Total	12	1020.15	45	2851.34	57	3871.49

Table-14 (concl'd)

State	District	Mineral	Central Government		State Government		Total	
			No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)
Uttar Pradesh	Allahabad	Silica sand	1	33.58	0	0	1	33.58
	Lalitpur	Phosphorite	0	0	1	874.00	1	874.00
	Lalitpur	Pyrophyllite	0	0	1	447.00	1	447.00
	Sonbhadra	Dolomite	0	0	1	1656.32	1	1656.32
	Sonbhadra	Limestone	0	0	4	3623.43	4	3623.43
		Total		1	33.58	7	6600.75	8
Uttarakhand	Bageshwar	Magnesite	1	53.20	0	0	1	53.20
	Dehradun	Limestone	0	0	1	97.00	1	97.00
	Dehradun	Phosphorite	2	222.05	0	0	2	222.05
	Pithoragarh	Magnesite	1	439.00	0	0	1	439.00
		Total		4	714.25	1	97.00	5
West Bengal	Purulia	Fireclay	0	0	1	19.43	1	19.43
	Purulia	Phosphorite	0	0	1	13.47	1	13.47
	Purulia	Quartz	0	0	1	3.68	1	3.68
		Total		0	0	3	36.58	3

3.7 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 (10,488), more than 1,682 leases will expire between 2011 and 2017. The yearwise breakup of expiry of leases and statewise and yearwise breakup of expiry of leases are given in Tables-15 and 16.

Table-15: Yearwise Status of Expiry of Mining Leases as on 31/03/2009

Year of Expiry	No. of Leases	Percentage (%)	Lease Area (Hect.)	Percentage (%)
2011	140	1.33	8497.63	1.67
2012	180	1.72	17292.25	3.41
2013	177	1.69	16924.61	3.33
2014	207	1.97	15838.14	3.12
2015	285	2.72	10933.00	2.15
2016	349	3.33	16821.55	3.31
2017	344	3.28	9640.62	1.90

Table- 16 : Statewise and Yearwise Status of Expiry of Mining Leases

S.No.	State	2011		2012		2013		2014		2015		2016		2017	
		No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area
1.	Andhra Pradesh	12	162.87	14	3802.44	12	341.74	36	7599.41	38	1666.77	59	1323.79	79	1800.23
2.	Assam	-	-	2	584.50	-	-	1	31.00	-	-	-	-	-	-
3.	Bihar	-	-	2	65.54	-	-	-	-	-	-	-	-	-	-
4.	Chhattisgarh	-	-	4	647.38	12	1805.17	13	300.22	20	84.86	21	436.97	19	1260.46
5.	Goa	-	-	-	-	-	-	-	-	1	90.14	6	408.98	-	-
6.	Gujarat	23	83.60	31	463.23	33	197.28	25	393.82	24	121.01	25	2915.69	20	447.22
7.	Haryana	-	-	-	-	-	-	2	557.07	11	1205.90	47	3733.95	-	-
8.	Himachal Pradesh	1	238.20	7	512.74	1	172.03	-	-	-	-	-	-	3	73.66
9.	Jammu & Kashmir	-	-	-	-	-	-	-	-	1	15.89	-	-	1	2.76
10.	Jharkhand	3	2542.24	1	1160.10	4	1213.47	11	618.10	16	236.62	5	43.40	-	-
11.	Karnataka	11	461.18	22	1698.48	14	7321.48	11	547.88	16	543.52	18	850.41	18	575.86
12.	Kerala	4	5.08	6	7.65	5	5.17	2	3.34	8	509.53	6	518.22	7	11.90
13.	Madhya Pradesh	15	146.30	33	1397.07	25	580.28	30	1290.58	53	754.00	43	507.60	31	224.88
14.	Maharashtra	6	122.15	5	85.48	6	121.89	9	307.26	7	1023.16	8	716.88	6	185.10
15.	Manipur	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16.	Meghalaya	-	-	-	-	1	240.55	-	-	-	-	-	-	1	60.00
17.	Orissa	19	862.68	11	3937.65	3	376.75	4	180.37	9	858.30	14	466.81	14	2168.88
18.	Rajasthan	30	3446.23	33	2283.94	50	4483.88	29	3613.12	26	3300.16	38	4654.22	64	2615.60
19.	Sikkim	-	-	-	-	-	-	-	-	-	-	-	-	1	18.32
20.	Tamil Nadu	13	367.76	6	598.10	9	62.11	31	183.55	54	509.59	50	200.84	79	193.36
21.	Uttar Pradesh	1	49.06	2	47.80	-	-	1	2.70	-	-	1	2.53	1	2.39
22.	Uttarakhand	1	8.13	1	0.15	-	-	1	202.02	-	-	6	32.09	-	-
23.	West Bengal	1	2.15	-	-	2	2.81	1	7.70	1	13.55	2	9.17	-	-
	Total	140	8497.63	180	17292.25	177	16924.61	207	15838.14	285	10933.00	349	16821.55	344	9640.62

(Area in Hect.)

Chapter 4

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 statewide instead of the country as a whole.

4.1 STATEWISE DISTRIBUTION OF PROSPECTING LICENCES

As per information received from the State Governments/Union Territories, 81prospecting licences were granted covering an area of 21386 hectares during 2009-10 as compared to 21 prospecting licences covering 1,623 hectares area during 2008-09. The statewide distribution of prospecting licences granted during 2007-08 to 2009-10 is given in Table-17.

**Table-17: Prospecting Licences Granted from 2007-08 to 2009-10
(By States)**

State	2007-08		2008-09		2009-10	
	No.	Area (Hect.)	No.	Area (Hect.)	No.	Area (Hect.)
Andhra Pradesh	22	22435	6	140	9	4854
Arunachal Pradesh	1	2400	-	-	2	42
Chhattisgarh	-	-	-	-	1	5
Gujarat	14	610	-	-	-	-
Himachal Pradesh	3	2605	-	-	-	-
Jharkhand	1	1389	-	-	-	-
Karnataka	1	1500	2	728	-	-
Madhya Pradesh	14	2976	11	710	50	11182
Maharashtra	-	-	-	-	5	2802
Rajasthan	16	1798	2	45	12	2499
Tamil Nadu	2	5	-	-	2	2
Uttarakhand	1	8	-	-	-	-
Total	75	35726	21	1623	81	21386

Area figures rounded off

The States where prospecting licences were granted during 2009-10 include Madhya Pradesh (50), Rajasthan (12), Andhra Pradesh (9), Maharashtra (5), Arunachal Pradesh and Tamil Nadu (2 each) and Chhattisgarh (1). Areawise, Madhya Pradesh covered 11,182 hectares and Andhra Pradesh 4,854 hectares. The remaining area of 5,351 hectares was accounted for by rest of the States.

4.2 MINERALWISE DISTRIBUTION OF PROSPECTING LICENCES

Mineralwise, in 2009-10, prospecting licences granted were for limestone (17), manganese ore (16), laterite (11) iron ore (6), dolomite (3), group of minerals (21). The mineralwise distribution of prospecting licences granted during 2007-08 to 2009-10 is given in Table -18.

**Table-18: Prospecting Licences Granted from 2007-08 to 2009-10
(By Minerals)**

Mineral	2007-08		2008-09		2009-10	
	No.	Area (Hect.)	No.	Area (Hect.)	No.	Area (Hect.)
Barytes	-	-	1	3	-	-
Bauxite	1	74	-	-	-	-
Calcite	-	-	1	25	-	-
China clay	4	763	-	-	-	-
Corundum	1	4	-	-	-	-
Dolomite	-	-	1	9	3	10
Diamond	7	11725	-	-	-	-
Garnet (abrasive)	1	180	-	-	1	26
Gold	-	-	2	728	-	-
Gypsum	1	175	-	-	-	-
Iron ore	2	1395	1	22	6	460
Jaspar	-	-	-	-	1	185
Laterite	-	-	-	-	11	2392
Limestone	15	4166	2	482	17	11159
Manganese ore	2	12	7	210	16	3156
Mica	-	-	-	-	1	30
Moon Stone	-	-	-	-	1	1
Pyrophyllite	-	-	-	-	1	5
Quartz	1	10	1	9	-	-
Red ochre	1	9	-	-	1	5
Soapstone/steatite	2	28	-	-	-	-
Shale	-	-	-	-	1	18
Silica sand	-	-	2	40	-	-
White Clay	4	64	-	-	-	-
Group of minerals	33	17121	3	95	21	3939
Total	75	35726	21	1623	81	21386

Area figures rounded off

Chapter 5

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) (aa) 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 2009-10, the Govt. has approved/granted 55 Reconnaissance Permits covering a total area of 58382.71 sq.km. Out of these, the maximum number of RPs were in Madhya Pradesh (28), Rajasthan (14), Andhra Pradesh (4) Chhattisgarh & Uttar Pradesh (3 each), Orissa (2) and Karnataka (1).

The details of Reconnaissance Permits approved/granted during 2009-10 are given in Table-19.

Table-19: Approval / Grant of Reconnaissance Permits during 2009-10

S.No.	State	Mineral	No. of RPs	Area in sq.km
1.	Andhra Pradesh	Diamond, Gold, Copper, Lead, Zinc Silver, Bismuth, Cadmium, etc.	4	6153.30
2.	Chhattisgarh	Diamond, Gemstone, Precious stones	3	2161.50
3.	Karnataka	Diamond, Gold & Associated minerals	1	243.34
4.	Madhya Pradesh	Diamond, Bauxite, Iron ore, Manganese ore, Copper, Lead, Zinc, Gold, Diamond & Associated minerals	28	27704.42
5.	Orissa	Gold, Silver, Copper, Lead, Zinc, & Associated minerals	2	878.34
6.	Rajasthan	Diamond, Gold, Copper Lead, Zinc, & Associated minerals	14	19001.81
7.	Uttar Pradesh	Diamond, Gold, Precious Stones & Associated minerals	3	2240.00
		Total	55	58382.71