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Ministry of Mines
INDIAN BUREAU OF MINES

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MINING LEASES & PROSPECTING LICENCES, 2008

(Excluding Atomic Minerals, Coal, Lignite, Petroleum, Natural Gas and Minor Minerals)

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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 eleventh edition, this publication – The *Bulletin of Mining Leases and Prospecting Licences 2008* – contains information on mining leases, prospecting licences as well as reconnaissance permits as on 31.3.2008. 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 enterpreneurs 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. Additionally, emphasis to conjure 'district', as the basic unit in the process of planning and development of land areas has been earnestly attempted.

Predominant portions of this publication owes their basis to the updated Directory of Mining Leases as on 31.3.2008, 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 have been utilised for the same period. Besides the above, the approval orders in case of reconnaissance permits were also used as sources of information.

Indian Bureau of Mines while thanking the State Government Departments for furnishing timely information on mining leases, prospecting licences and reconnaissance permits would solicit their spontaneous and continuous cooperation in the future as well.

It is believed that the analysis and information presented in this publication will come handy as useful reference guide in the process of planning and programming of new ventures in judicious utilisation of mineral resources and also will render useful insights for initiation of new projects for all mineral-based industries in the country.

Nagpur
Dated : 25.03.2010

(C. S. GUNDEWAR)
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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 0.14% (480003 hectares). The position of mining leases as on 31.3.2008 reveals that there are as many as 8,784 mining leases (compared to 7,734 in the previous year) granted in the country by the State Governments covering 61 minerals (excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) with a total area of 480003 hectares and spread over 23 States. These 61 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 lands under lease get 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 61 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 which are seen as impediments to investment and technology flow in mining sector in India. These policy initiatives would provide suitable environment for exploration and utilisation of the mineral potential of the country. In order to give effect to the direction envisioned in the new Mineral Policy, the Ministry of Mines has initiated formulation of a new Act – with tentative appellation as Mines & Minerals (Scientific Development and Regulation) Act 2009 – which is aimed at developing the mineral sector of the country in a holistic manner. As per existing MMDR Act, 1957, the limit of maximum areas of 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 the State Government. From such information received from all the State Governments under statutory provisions, the information pertaining to mining leases and prospecting licences is complied, 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 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.	Agricultural, Cultivable & culturable land (Net Sown Area)	141.89	43.16
2.	Permanent pastures & other grazing land	10.42	3.17
3.	Culturable waste land	13.12	3.99
4.	Forest	69.79	21.23
5.	Barren & Un-culturable land	17.48	5.32
6.	Non-agricultural land	25.03	7.61
7.	Mining Lease Area	0.48	0.14
8.	Land Under Miscellaneous (Tree Crops & Groves)	3.38	1.03
9.	Other area (no information available)	47.174	14.35
	Total	**328.76**	**100.00**

Source: Website www/dacnet.nic.in/eands/At_Glance_2008/Ch-14/tb14.1.xls.

Out of the entire geographical area, almost two-third are under agricultural, cultivable, permanent pasture, forest and grazing lands. The mining lease area constitutes around 480003.09 hectares which is approximately 0.14% 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. Environment aspects, which attract concerns from all quarters, needs special attention 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 31.3.2008, there were 8,784 mining leases granted by State Governments for 61 different minerals, covering an area of 4,80,003 hectares in the country. States rich in minerals where maximum number of mining leases were granted are Rajasthan (20.41%) followed by Andhra Pradesh (17.96%), Gujarat (13.97%), Madhya Pradesh (10.56%), Karnataka (7.62%), Tamil Nadu (5.48%), Orissa (4.37%), Jharkhand (3.67%), Chhattisgarh (3.52%), Maharashtra (3.07%) and Goa (2.86%). These eleven States together account for about 93% of the total leases executed and the remaining twelve States where such leases were executed account for about 7 percent of the total mining leases.

The maximum mining lease area covered by different States are Rajasthan (21.55%) followed by Orissa (14%), Karnataka (11.57%), Andhra Pradesh (11.34%), Jharkhand (7.70%), Madhya Pradesh (5.83%), Gujarat (5.82%), Goa (3.80%), Maharashtra (3.70%) and Chhattisgarh (3.52%). These ten States account for about 89% of the total mining lease area granted and the remaining 11 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 31.03.2008 are furnished in Tables - 1 to 4.

Table-1 : Statewise Summary of Lease Distribution (As on 31.03.2008)

State	No of Leases	Percentage	Lease Area(Hect.)	Percentage
Andhra Pradesh	1578	17.96	54470.79	11.34
Assam	8	0.09	929.50	0.19
Bihar	10	0.11	2030.16	0.42
Chhattisgarh	310	3.52	16927.08	3.52
Goa	252	2.86	18219.56	3.80
Gujarat	1228	13.97	27962.54	5.82
Haryana	107	1.21	11151.04	2.32
Himachal Pradesh	61	0.80	2234.28	0.46
Jammu & Kashmir	49	0.55	1723.94	0.35
Jharkhand	323	3.67	36974.67	7.70
Karnataka	670	7.62	55566.24	11.57
Kerala	102	1.16	2930.82	0.61
Madhya Pradesh	928	10.56	28003.98	5.83
Maharashtra	270	3.07	17740.66	3.70
Manipur	2	0.02	610.17	0.13
Meghalaya	17	0.19	1424.45	0.29
Orissa	384	4.37	67023.87	14.00
Rajasthan	1793	20.41	103469.96	21.55
Sikkim	3	0.03	96.30	0.03
Tamil Nadu	482	5.48	6652.01	1.39
Uttar Pradesh	88	1.00	9290.11	1.94
Uttarakhand	68	0.77	3073.34	0.65
West Bengal	51	0.58	11497.62	2.39
All India	**8784**	**100.00**	**480003.09**	100.00

Table-2 : Mineralwise Mining Lease Distribution
(As on 31.3.2008)

Sl.No.	Mineral	No. of Leases	Lease area (Hect.)
01.	Agate	4	241.13
02.	Amethyst	5	40.64
03.	Apatite	1	13.29
04.	Asbestos	36	1687.71
05.	Ball Clay	53	2389.20
06.	Barytes	128	2436.38
07.	Bauxite	349	30069.80
08.	Borax	1	159.00
09.	Calcareous Sand	14	151.54
10.	Calcite	69	1682.11
11.	Chalk	166	669.83
12.	China Clay	458	16275.53
13.	Chromite	29	8867.41
14.	Clay (Others)	115	1493.57
15.	Copper Ore	16	9530.95
16.	Corundum	21	266.24
17.	Diamond	2	576.51
18.	Diaspore	11	80.11
19.	Dolomite	466	9331.80
20.	Dunite	1	4.45
21.	Epidote	1	5.00
22.	Felsite	6	132.06
23.	Felspar	438	10013.10
24.	Fireclay	256	16519.66
25.	Fluorite	17	1731.51
26.	Garnet	88	1818.62
27.	Gold	9	6483.98
28.	Graphite	118	3755.39
29.	Gypsum	72	14711.61
30.	Iolite	8	76.97
31.	Iron Ore	577	80962.00

contd...

Table-2 (concld)

Sl.No.	Mineral	No. of Leases	Lease area (Hect.)
32.	Jasper	5	211.70
33.	Kyanite	32	3215.81
34.	Laterite	151	1937.04
35.	Lead & Zinc Ore	9	7592.70
36.	Lime Kankar	16	426.15
37.	Limeshell	33	4375.96
38.	Limestone	1714	126894.59
39.	Magnesite	35	2616.73
40.	Manganese Ore	294	21101.70
41.	Mica	278	8013.29
42.	Moulding Sand	61	1373.35
43.	Ochre	130	3581.97
44.	Opal	1	200.00
45.	Perlite	1	144.65
46.	Phosphorite	15	3333.09
47.	Pyrites	1	647.50
48.	Pyrophyllite	81	2700.59
49.	Pyroxenite	8	78.70
50.	Quartz	1311	14950.83
51.	Quartzite	58	769.54
52.	Rock Salt	3	53.86
52.	Sand (Others)	53	5351.52
54.	Shale	30	402.95
55.	Silica Sand	470	17544.65
56.	Sillimanite	6	9810.42
57.	Slate	13	557.62
58.	Steatite	412	19318.54
59.	Tin	9	167.45
60.	Vermiculite	14	245.68
61.	Wollastonite	5	207.41
	Total	**8784**	**480003.09**

Table - 3 : Statewise/Mineralwise Distribution of Leases and Lease Area (As on 31.03.2008)

State	Mineral	No. of Leases	Lease Area (Hect.)
Andhra Pradesh	Amethyst	4	12.99
	Apatite	1	13.29
	Asbestos	7	352.08
	Ball Clay	22	265.52
	Barytes	118	2132.94
	Calcite	5	139.20
	China Clay	60	895.81
	Clay (Others)	8	281.37
	Corundum	8	38.93
	Dolomite	99	1683.48
	Felspar	31	516.50
	Fireclay	24	82.31
	Garnet	15	944.35
	Gold	1	168.42
	Graphite	3	59.26
	Iron Ore	31	1389.68
	Laterite	87	916.56
	Lime Kankar	14	100.63
	Limeshell	4	88.19
	Limestone	205	22805.35
	Magnesite	1	6.57
	Manganese Ore	39	1113.20
	Mica	110	2087.99
	Moulding Sand	1	31.16
	Ochre	19	193.93
	Phosphorite	1	2.83
	Pyrophyllite	6	147.55
	Quartz	421	5861.07
	Quartzite	19	354.64
	Sand (Others)	14	2024.23
	Shale	11	181.85
	Silica Sand	72	1116.80
	Sillimanite	1	7000.00
	Slate	11	420.78
	Steatite	100	948.72
	Vermiculite	5	92.61
	Total	**1578**	**54470.79**
Assam	Limestone	8	929.50
	Total	**8**	**929.50**
Bihar	Limestone	6	166.06
	Mica	2	1196.80
	Pyrites	1	647.50
	Quartz	1	19.80
	Total	**10**	**2030.16**

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State	Mineral	No. of Leases	Lease Area (Hect.)
Chhattisgarh	Bauxite	27	5353.33
	China Clay	7	32.83
	Corundum	2	27.24
	Dolomite	86	581.19
	Fireclay	5	21.20
	Graphite	3	98.79
	Iron Ore	13	5432.00
	Limestone	121	5003.66
	Moulding Sand	7	48.57
	Ochre	1	10.12
	Quartz	11	34.66
	Quartzite	16	145.68
	Steatite	3	6.62
	Tin	8	131.19
	Total	**310**	**16927.08**
Goa	Bauxite	1	40.92
	Iron Ore	187	14002.79
	Manganese Ore	64	4175.85
	Total	**252**	**18219.56**
Gujarat	Agate	2	186.15
	Ball Clay	6	26.63
	Bauxite	167	6037.77
	Calcareous Sand	14	151.54
	Calcite	5	63.31
	Chalk	166	669.83
	China Clay	68	1180.93
	Clay (Others)	99	1063.27
	Copper Ore	1	171.43
	Dolomite	94	1043.87
	Felspar	1	1.00
	Fireclay	83	429.11
	Fluorite	2	31.69
	Gypsum	7	86.85
	Laterite	3	409.78
	Limestone	386	15218.16
	Manganese Ore	1	2.95
	Moulding Sand	4	6.83
	Ochre	5	45.55
	Perlite	1	144.65
	Quartz	30	204.80
	Quartzite	1	19.30
	Silica Sand	74	720.06
	Steatite	6	22.04
	Vermiculite	2	25.04
	Total	**1228**	**27962.54**

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State	Mineral	No. of Leases	Lease Area (Hect.)
Haryana	Barytes	1	79.32
	Calcite	2	158.56
	China Clay	38	3296.11
	Dolomite	2	252.15
	Felspar	2	261.45
	Lime Kankar	2	325.52
	Limestone	6	71.17
	Mica	1	400.00
	Quartz	14	675.12
	Quartzite	4	68.23
	Silica Sand	34	5482.06
	Slate	1	81.35
	Total	**107**	**11151.04**
Himachal Pradesh	Barytes	2	81.39
	Gypsum	1	116.68
	Limestone	55	1982.35
	Rock Salt	3	53.86
	Total	**61**	**2234.28**
Jammu & Kashmir	Borax	1	159.00
	China clay	2	59.70
	Gypsum	14	99.85
	Limestone	29	720.09
	Magnesite	2	485.30
	Opal	1	200.00
	Total	**49**	**1723.94**
Jharkhand	Bauxite	46	4039.14
	China Clay	21	1536.27
	Copper Ore	4	6806.37
	Dolomite	1	18.45
	Felspar	9	253.70
	Fireclay	25	915.11
	Gold	1	19.50
	Graphite	15	443.67
	Iron Ore	48	12379.23
	Kyanite	8	2591.35
	Limestone	54	4580.47
	Mica	31	971.17
	Ochre	1	5.62
	Pyrophyllite	1	22.50
	Pyroxenite	8	78.70
	Quartz	26	301.75
	Quartzite	3	27.83
	Sand (Others)	15	1918.18
	Steatite	6	65.66
	Total	**323**	**36974.67**

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State	Mineral	No. of Leases	Lease Area (Hect.)
Karnataka	Barytes	1	17.00
	Bauxite	6	607.12
	Calcite	1	17.00
	China Clay	17	841.55
	Chromite	6	1306.40
	Clay (Others)	2	24.68
	Copper ore	1	259.00
	Corundum	8	104.70
	Dolomite	17	423.84
	Dunite	1	4.45
	Felsite	6	132.06
	Felspar	5	134.47
	Fireclay	5	270.49
	Gold	7	6296.06
	Graphite	4	235.04
	Iron Ore	158	17477.12
	Kyanite	8	312.11
	Laterite	3	97.23
	Limeshell	20	1595.22
	Limestone	135	16248.32
	Magnesite	9	163.83
	Manganese Ore	70	4110.63
	Moulding Sand	45	1229.41
	Ochre	6	615.57
	Quartz	68	807.76
	Quartzite	2	8.09
	Silica Sand	48	2100.91
	Steatite	8	91.57
	Vermiculite	3	34.61
	Total	**670**	**55566.24**
Kerala	Bauxite	3	1.37
	China Clay	41	105.86
	Graphite	1	1.25
	Laterite	7	27.30
	Limeshell	7	1963.50
	Limestone	1	245.69
	Quartz	2	2.51
	Sand (Others)	2	169.77
	Silica Sand	34	86.17
	Sillimanite	4	327.40
	Total	**102**	**2930.82**

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State	Mineral	No. of Leases	Lease Area (Hect.)
Madhya Pradesh	Barytes	2	5.37
	Bauxite	56	1264.79
	Calcite	28	69.40
	China Clay	19	174.01
	Clay (Others)	5	119.25
	Copper Ore	2	479.90
	Diamond	2	576.51
	Diaspore	11	80.11
	Dolomite	134	1507.06
	Fireclay	35	308.41
	Iron Ore	11	184.35
	Laterite	47	401.73
	Lead & Zinc Ore	1	3.83
	Limestone	373	19219.22
	Manganese Ore	51	1676.64
	Ochre	60	1139.03
	Phosphorite	4	112.97
	Pyrophyllite	37	243.22
	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	16	104.19
	Vermiculite	2	27.49
	Total	**928**	**28003.98**
Maharashtra	Agate	2	54.98
	Bauxite	34	5893.62
	China Clay	8	88.64
	Chromite	1	16.22
	Corundum	1	3.96
	Dolomite	17	228.43
	Felspar	2	53.65
	Fireclay	2	18.40
	Fluorite	1	31.22
	Iron Ore	24	873.13
	Kyanite	15	307.35
	Laterite	4	84.44
	Limestone	59	6151.16
	Manganese Ore	41	1403.17
	Mica	1	42.06
	Moulding Sand	2	51.87
	Ochre	1	12.36

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State	Mineral	No. of Leases	Lease Area (Hect.)
Maharashtra	Quartz	11	172.67
	Sand (Others)	12	740.30
	Shale	1	32.49
	Silica Sand	31	1480.54
	Total	**270**	**17740.66**
Manipur	Chromite	2	610.17
	Total	**2**	**610.17**
Meghalaya	China Clay	2	9.77
	Fireclay	1	221.44
	Limestone	13	1188.34
	Shale	1	4.90
	Total	**17**	**1424.45**
Orissa	Amethyst	1	27.65
	Asbestos	1	49.22
	Bauxite	7	6673.28
	China Clay	8	693.94
	Chromite	20	6934.62
	Corundum	2	91.41
	Dolomite	7	740.03
	Fireclay	16	1877.14
	Graphite	85	2242.21
	Iolite	8	76.97
	Iron Ore	90	27702.40
	Lead & Zinc Ore	1	499.60
	Limestone	29	6050.14
	Manganese Ore	27	8539.26
	Mica	1	2.67
	Ochre	1	102.27
	Pyrophyllite	8	487.29
	Quartz	51	854.96
	Quartzite	10	129.97
	Sand (Others)	6	437.43
	Sillimanite	1	2483.02
	Steatite	3	292.13
	Tin	1	36.26
	Total	**384**	**67023.87**

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State	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan	Asbestos	28	1286.41
	Ball Clay	25	2097.05
	Barytes	4	120.36
	Calcite	27	1206.72
	China Clay	138	6738.89
	Clay (Others)	1	5.00
	Copper Ore	5	1717.95
	Dolomite	6	287.91
	Epidote	1	5.00
	Felspar	386	8750.63
	Fireclay	25	2326.80
	Fluorite	14	1668.60
	Garnet	16	350.13
	Graphite	2	383.55
	Gypsum	42	14197.64
	Iron Ore	15	1521.30
	Jasper	5	211.70
	Kyanite	1	5.00
	Lead & Zinc Ore	7	7089.27
	Limestone	56	19697.89
	Magnesite	3	15.00
	Manganese Ore	1	80.00
	Mica	132	3312.60
	Ochre	35	1451.76
	Phosphorite	6	2092.11
	Pyrophyllite	6	308.16
	Quartz	490	5629.38
	Quartzite	1	5.00
	Shale	1	5.00
	Silica Sand	98	4889.78
	Steatite	210	15763.74
	Vermiculite	1	42.22
	Wollastonite	5	207.41
	Total	**1793**	**103469.96**
Sikkim	Copper Ore	3	96.30
	Total	**3**	**96.30**

contd...

Table-3 (concld)

State	Mineral	No. of Leases	Lease Area (Hect.)
Tamil Nadu	Bauxite	2	158.46
	China Clay	2	15.55
	Dolomite	1	62.07
	Felspar	1	39.47
	Fireclay	25	107.09
	Garnet	57	524.14
	Graphite	5	291.62
	Gypsum	8	210.59
	Limeshell	2	729.05
	Limestone	167	2868.00
	Magnesite	16	1204.91
	Quartz	174	330.29
	Silica Sand	17	48.44
	Steatite	4	38.62
	Vermiculite	1	23.71
	Total	**482**	**6652.01**
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	56	1985.25
	Total	**68**	**3073.34**
West Bengal	China Clay	27	605.67
	Dolomite	1	847.00
	Felspar	1	2.23
	Fireclay	10	9942.16
	Limestone	1	0.67
	Moulding Sand	2	5.51
	Ochre	1	5.76
	Phosphorite	1	29.13
	Quartz	5	10.70
	Quartzite	1	4.70
	Sand (Others)	1	44.09
	Total	**51**	**11497.62**

Table-4 : Statewise/Districtwise/Mineralwise Distribution of Leases and Lease Area (As on 31.03.2008)

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Andhra Pradesh	Adilabad	China Clay	14	131.30
		Clay (Others)	1	4.24
		Laterite	1	11.33
		Limestone	12	2685.28
		Manganese Ore	10	377.64
		Quartz	1	4.80
		Sand (Others)	1	216.00
		Total	**40**	**3430.59**
	Anantapur	Barytes	1	2.00
		China Clay	3	28.35
		Corundum	2	16.36
		Dolomite	48	671.71
		Felspar	3	32.53
		Gold	1	168.42
		Iron Ore	8	361.25
		Laterite	1	38.86
		Limestone	22	1952.37
		Ochre	3	22.12
		Pyrophyllite	1	34.84
		Quartz	19	506.48
		Shale	1	3.16
		Steatite	36	523.51
		Total	**149**	**4361.96**
	Chittoor	China Clay	3	29.33
		Felspar	1	3.78
		Pyrophyllite	3	20.73
		Quartz	14	106.82
		Steatite	3	16.73
		Total	**24**	**177.39**
	Cuddapah	Asbestos	7	352.08
		Barytes	98	1532.02
		China Clay	13	611.92
		Clay (Others)	5	245.27
		Dolomite	10	279.47
		Felspar	13	278.60
		Iron Ore	1	18.62

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Andhra Pradesh		Laterite	4	314.38
		Limestone	19	1703.60
		Magnesite	1	6.57
		Ochre	7	36.07
		Pyrophyllite	2	91.98
		Quartz	15	246.36
		Quartzite	4	184.78
		Shale	2	19.71
		Silica Sand	1	1.87
		Steatite	3	57.46
		Total	**205**	**5980.76**
	Godavari East	China Clay	15	28.62
		Fireclay	22	74.22
		Graphite	1	5.00
		Laterite	14	80.16
		Total	**52**	**188.00**
	Godavari West	Ball Clay	22	265.52
		China Clay	4	25.39
		Clay (Others)	2	31.86
		Total	**28**	**322.77**
	Guntur	Lime Kankar	1	3.80
		Limestone	25	3294.34
		Quartz	5	33.84
		Slate	1	40.47
		Total	**32**	**3372.45**
	Karimnagar	Dolomite	2	32.47
		Laterite	2	8.30
		Limestone	2	478.36
		Sand (Others)	5	1610.85
		Silica Sand	1	10.00
		Total	**12**	**2139.98**
	Khammam	Barytes	4	297.91
		Corundum	6	22.57
		Dolomite	7	437.23
		Felspar	1	23.29
		Garnet	7	80.45

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Andhra Pradesh	Khammam	Graphite	2	54.26
		Iron Ore	6	646.28
		Limestone	2	32.23
		Mica	2	29.83
		Quartz	12	43.11
		Sand (Others)	4	86.90
		Total	**53**	**1754.06**
	Krishna	Iron Ore	3	13.87
		Limestone	17	2377.35
		Quartz	5	9.85
		Total	**25**	**2401.07**
	Kurnool	Barytes	7	227.62
		Calcite	2	33.68
		China Clay	3	17.03
		Dolomite	29	243.02
		Felspar	1	16.87
		Iron Ore	10	69.75
		Laterite	6	19.83
		Limestone	71	4302.27
		Ochre	7	124.60
		Quartz	15	166.24
		Quartzite	4	31.77
		Shale	6	21.46
		Silica Sand	14	187.14
		Steatite	58	351.02
		Total	**233**	**5812.30**
	Mahbubnagar	Felspar	8	68.70
		Quartz	101	1167.16
		Total	**109**	**1235.86**
	Medak	Amethyst	1	1.31
		Laterite	7	41.05
		Ochre	1	5.67
		Quartz	22	177.77
		Total	**31**	**225.80**
	Nalgonda	Laterite	6	9.52
		Limestone	30	4784.28
		Quartz	19	183.21
		Shale	1	4.45
		Total	**56**	**4981.46**

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Andhra Pradesh	Nellore	Barytes	3	44.87
		Felspar	4	92.73
		Garnet	1	39.68
		Iron Ore	2	274.00
		Laterite	9	63.34
		Limeshell	2	75.56
		Mica	98	1698.94
		Quartz	68	943.70
		Silica Sand	39	880.16
		Vermiculite	5	92.61
		Total	**231**	**4205.59**
	Nizamabad	Laterite	4	29.86
		Quartz	3	7.65
		Total	**7**	**37.51**
	Prakasam Ongole	Barytes	5	28.52
		Garnet	4	4.79
		Iron Ore	1	5.91
		Quartz	71	1719.22
		Silica Sand	16	30.13
		Slate	10	380.31
		Total	**107**	**2168.88**
	Rangareddi	Amethyst	3	11.68
		China Clay	2	6.47
		Fireclay	2	8.09
		Laterite	13	138.69
		Limestone	5	1195.27
		Quartz	29	178.90
		Shale	1	133.07
		Total	**55**	**1672.17**
	Srikakulam	Garnet	2	815.08
		Lime Kankar	1	5.85
		Limeshell	1	4.00
		Quartz	2	12.98
		Quartzite	2	16.02
		Silica Sand	1	7.50
		Sillimanite	1	7000.00
		Total	**10**	**7861.43**

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Andhra Pradesh	Visakhapatnam	Apatite	1	13.29
		Calcite	3	105.52
		China Clay	3	17.40
		Garnet	1	4.35
		Laterite	7	62.93
		Limeshell	1	8.63
		Mica	10	359.22
		Ochre	1	5.47
		Phosphorite	1	2.83
		Quartz	9	210.89
		Total	**37**	**790.53**
	Vizianagaram	Lime Kankar	12	90.98
		Manganese Ore	29	735.56
		Moulding Sand	1	31.16
		Quartz	11	142.09
		Quartzite	9	122.07
		Sand (Others)	3	96.63
		Total	**65**	**1218.49**
	Warangal	Dolomite	3	19.58
		Laterite	13	98.31
		Sand (Others)	1	13.85
		Total	**17**	**131.74**
Assam	Karbi Anglong	Limestone	1	171.00
		Total	**1**	**171.00**
	North Cachar Hills	Limestone	7	758.50
		Total	**7**	**758.50**
Bihar	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	58.39
		Total	**22**	**277.92**

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Chhattisgarh	Bilaspur	Dolomite	36	285.10
		Total	**36**	**285.10**
	Dantewara	Corundum	2	27.24
		Iron Ore	5	2553.41
		Tin	8	131.19
		Total	**15**	**2711.84**
	Durg	Dolomite	39	166.24
		Iron Ore	4	2562.69
		Limestone	43	1021.34
		Moulding Sand	3	12.12
		Quartzite	5	44.31
		Total	**94**	**3806.70**
	Janjgir-Champa	Dolomite	5	86.17
		Limestone	3	717.15
		Total	**8**	**803.32**
	Jashpur	Bauxite	5	60.37
		Quartz	2	4.36
		Total	**7**	**64.73**
	Kabirdham	Bauxite	2	664.33
		Dolomite	1	12.14
		Limestone	3	9.45
		Total	**6**	**685.92**
	Kanker	Bauxite	3	13.22
		Iron Ore	2	42.93
		Limestone	1	0.63
		Moulding Sand	1	13.84
		Steatite	3	6.62
		Total	**10**	**77.24**
	Korba	Fireclay	1	0.46
		Total	**1**	**0.46**
	Mahasamund	Fireclay	3	15.79
		Quartz	4	7.72
		Total	**7**	**23.51**
	Raigarh	Dolomite	2	9.33
		Fireclay	1	4.95
		Limestone	6	18.83
		Quartz	2	4.25
		Quartzite	3	60.57
		Total	**14**	**97.93**

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Chhattisgarh	Raipur	Dolomite	3	22.21
		Limestone	43	3169.60
		Total	**46**	**3191.81**
	Rajnandgaon	China Clay	7	32.83
		Iron Ore	1	80.72
		Limestone	3	8.27
		Moulding Sand	3	22.61
		Ochre	1	10.12
		Quartz	3	18.33
		Quartzite	8	40.80
		Total	**26**	**213.68**
	Surguja	Bauxite	15	4588.13
		Graphite	3	98.79
		Total	**18**	**4686.92**
Goa	North Goa	Iron Ore	83	6175.82
		Manganese Ore	17	1059.51
		Total	**100**	**7235.33**
	South Goa	Bauxite	1	40.92
		Iron Ore	104	7826.97
		Manganese Ore	47	3116.34
		Total	**152**	**10984.23**
Gujarat	Amreli	Bauxite	3	237.58
		China Clay	1	3.01
		Clay (Others)	1	89.60
		Limestone	5	1864.75
		Total	**10**	**2194.94**
	Banaskantha	Calcite	1	3.76
		Copper Ore	1	171.43
		Limestone	9	422.35
		Vermiculite	1	1.84
		Total	**12**	**599.38**
	Bharuch	Agate	2	186.15
		Silica Sand	26	270.83
		Total	**28**	**456.98**
	Bhavnagar	Chalk	1	12.00
		Clay (Others)	4	190.81
		Dolomite	3	52.99
		Limestone	1	20.00
		Moulding Sand	1	2.80
		Total	**10**	**278.60**

contd ..

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Gujarat	Dahod	Fluorite	1	0.49
		Limestone	5	187.51
		Quartz	1	4.20
		Total	**7**	**192.20**
	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	Chalk	3	27.90
		Limestone	120	3092.30
		Total	**123**	**3120.20**
	Kheda	Bauxite	16	84.78
		Limestone	1	10.93
		Total	**17**	**95.71**
	Kachchh	Ball Clay	5	21.14
		Bauxite	13	2352.86
		China Clay	52	513.33
		Clay (Others)	84	642.48
		Fireclay	1	3.00
		Gypsum	5	83.63
		Laterite	3	409.78
		Limestone	9	2600.27
		Ochre	1	2.00
		Silica Sand	10	191.90
		Total	**183**	**6820.39**
	Mehesana	China Clay	8	241.27
		Fireclay	1	32.37
		Total	**9**	**273.64**
	Panchmahals	Manganese Ore	1	2.95
		Quartz	27	193.56
		Quartzite	1	19.30
		Total	**29**	**215.81**

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Gujarat	Patan	Ball Clay	1	5.49
		China Clay	1	36.22
		Clay (Others)	5	103.82
		Ochre	3	23.32
		Total	**10**	**168.85**
	Porbandar	Bauxite	6	171.99
		Chalk	129	509.60
		China Clay	1	3.97
		Limestone	170	3271.75
		Total	**306**	**3957.31**
	Rajkot	Chalk	25	86.81
		Fireclay	17	50.67
		Gypsum	2	3.22
		Limestone	2	37.13
		Perlite	1	144.65
		Silica Sand	1	4.00
		Total	**48**	**326.48**
	Sabarkantha	Bauxite	13	91.29
		Calcite	3	6.58
		China Clay	5	383.13
		Felspar	1	1.00
		Fireclay	9	34.62
		Limestone	2	2.53
		Quartz	1	4.04
		Silica Sand	11	64.04
		Steatite	6	22.04
		Total	**51**	**609.27**
	Surat	Limestone	1	1504.75
		Silica Sand	1	6.52
		Total	**2**	**1511.27**
	Surendranagar	Clay (Others)	2	7.78
		Fireclay	55	308.45
		Moulding Sand	3	4.03
		Silica Sand	25	182.77
		Total	**85**	**503.03**
	Vadodara	Calcite	1	52.97
		Dolomite	91	990.88
		Fluorite	1	31.20
		Quartz	1	3.00
		Vermiculite	1	23.20
		Total	**95**	**1101.25**

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Haryana	Bhiwani	Lime Kankar	2	325.52
		Total	**2**	**325.52**
	Faridabad	China Clay	1	125.00
		Silica Sand	20	4537.61
		Total	**21**	**4662.61**
	Gurgaon	China Clay	37	3171.11
		Quartz	4	97.93
		Quartzite	2	47.78
		Silica Sand	14	944.45
		Total	**57**	**4261.27**
	Mahendragarh	Barytes	1	79.32
		Calcite	2	158.56
		Dolomite	2	252.15
		Felspar	2	261.45
		Limestone	6	71.17
		Mica	1	400.00
		Quartz	10	577.19
		Slate	1	81.35
		Total	**25**	**1881.19**
	Rewari	Quartzite	2	20.45
		Total	**2**	**20.45**
Himachal Pradesh	Bilaspur	Limestone	4	248.39
		Total	**4**	**248.39**
	Kinnaur	Gypsum	1	116.68
		Total	**1**	**116.68**
	Mandi	Rock Salt	3	53.86
		Total	**3**	**53.86**
	Sirmur	Barytes	2	81.39
		Limestone	48	645.46
		Total	**50**	**726.85**
	Solan	Limestone	3	1088.50
		Total	**3**	**1088.50**
Jammu & Kashmir	Anantnag	Limestone	21	208.00
		Total	**21**	**208.00**
	Baramula	Gypsum	3	12.28
		Total	**3**	**12.28**

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Jammu & Kashmir	Doda	Gypsum	4	47.88
		Total	**4**	**47.88**
	Jammu	Limestone	1	4.67
		Total	**1**	**4.67**
	Leh	Borax	1	159.00
		Opal	1	200.00
		Total	**2**	**359.00**
	Poonch	Limestone	2	200.89
		Total	**2**	**200.89**
	Pulwama	Gypsum	7	39.69
		Limestone	3	161.51
		Total	**10**	**201.20**
	Srinagar	Limestone	2	145.02
		Total	**2**	**145.02**
	Udhampur	China Clay	2	59.70
		Magnesite	2	485.30
		Total	**4**	**545.00**
Jharkhand	Bokaro	Limestone	1	17.57
		Sand (Others)	2	152.83
		Total	**3**	**170.40**
	Deogarh	Felspar	1	0.91
		Quartz	1	4.22
		Total	**2**	**5.13**
	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**

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Jharkhand	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	1	2.04
		Mica	1	4.45
		Quartz	11	142.32
		Total	**32**	**1058.78**
	Lohardaga	Bauxite	18	855.48
		Total	**18**	**855.48**
	Palamau	Dolomite	1	18.45
		Felspar	1	1.25
		Graphite	14	425.86
		Iron Ore	4	58.06
		Limestone	2	1069.80
		Steatite	1	2.52
		Total	**23**	**1575.94**

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Jharkhand	Ranchi	China Clay	2	19.07
		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	1	13.64
		Quartz	4	49.04
		Steatite	1	31.36
		Total	**7**	**97.88**
	Singhbhum (East)	Copper Ore	4	6806.37
		Kyanite	1	2.43
		Limestone	24	383.08
		Total	**29**	**7191.88**
	Singhbhum (West)	China Clay	16	1496.70
		Gold	1	19.50
		Iron Ore	43	12319.13
		Kyanite	6	2585.08
		Limestone	5	48.30
		Ochre	1	5.62
		Pyroxenite	7	65.06
		Quartz	1	2.02
		Quartzite	3	27.83
		Steatite	2	27.06
		Total	**85**	**16596.30**
	Unidentified	Bauxite	1	44.56
		Total	**1**	**44.56**
Karnataka	Bagalkot	Dolomite	12	343.21
		Iron Ore	2	69.99
		Limestone	78	5444.50
		Quartz	1	4.05
		Total	**93**	**5861.75**
	Bengaluru	China Clay	1	48.56
		Corundum	2	12.14
		Felspar	4	131.91
		Fireclay	1	2.02
		Silica Sand	1	41.83
		Total	**9**	**236.46**

contd...

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Karnataka	Belgaum	Bauxite	5	578.32
		Calcite	1	17.00
		China Clay	5	83.49
		Clay (Others)	2	24.68
		Dolomite	5	80.63
		Fireclay	1	2.16
		Iron Ore	1	20.23
		Laterite	2	95.21
		Limestone	14	1017.61
		Manganese Ore	1	40.47
		Moulding Sand	4	51.22
		Quartz	2	12.81
		Quartzite	2	8.09
		Silica Sand	4	950.30
		Total	**49**	**2982.22**
	Bellary	Corundum	1	4.07
		Gold	1	21.98
		Iron Ore	116	9950.97
		Limestone	3	995.54
		Manganese Ore	10	649.09
		Moulding Sand	5	51.68
		Ochre	2	529.35
		Quartz	18	119.69
		Steatite	2	4.89
		Total	**158**	**12327.26**
	Bidar	Ochre	1	21.85
		Total	**1**	**21.85**
	Chickmagalur	Dunite	1	4.45
		Iron Ore	3	5412.34
		Quartz	1	7.41
		Total	**5**	**5424.20**
	Chitradurga	Barytes	1	17.00
		Copper Ore	1	259.00
		Iron Ore	13	475.25
		Kyanite	1	169.96
		Limestone	16	1859.29
		Manganese Ore	28	1592.07
		Moulding Sand	1	48.56
		Quartz	8	194.29
		Total	**69**	**4615.42**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Karnataka	Coorg	Corundum	1	0.80
		Total	**1**	**0.80**
	Davangere	Iron Ore	1	38.45
		Manganese Ore	2	64.54
		Moulding Sand	8	201.27
		Ochre	1	1.65
		Quartz	3	160.12
		Total	**15**	**466.03**
	Dharwar	China Clay	1	20.23
		Iron Ore	4	175.16
		Total	**5**	**195.39**
	Gulbarga	Gold	1	55.75
		Limestone	11	5054.35
		Moulding Sand	2	97.50
		Quartz	2	32.29
		Total	**16**	**5239.89**
	Hassan	China Clay	2	311.60
		Chromite	6	1306.40
		Quartz	4	70.75
		Steatite	1	4.98
		Vermiculite	1	26.30
		Total	**14**	**1720.03**
	Haveri	Moulding Sand	23	642.20
		Total	**23**	**642.20**
	Kolar	China Clay	4	300.51
		Felspar	1	2.56
		Fireclay	1	14.16
		Gold	1	5215.21
		Laterite	1	2.02
		Total	**8**	**5534.46**
	Koppal	Quartz	9	93.67
		Total	**9**	**93.67**
	Mandya	Corundum	1	1.64
		Felsite	1	1.61
		Quartz	4	35.22
		Total	6	38.47

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Karnataka	Mysore	Corundum	3	86.05
		Felsite	4	129.18
		Graphite	4	235.04
		Kyanite	6	139.73
		Limestone	2	24.28
		Magnesite	9	163.83
		Quartz	2	13.08
		Steatite	1	12.14
		Vermiculite	2	8.31
		Total	**33**	**811.64**
	North Kanara	Iron Ore	4	390.52
		Limeshell	14	1005.58
		Limestone	1	135.57
		Manganese Ore	8	824.45
		Moulding Sand	2	136.98
		Quartz	1	1.82
		Silica Sand	14	261.22
		Total	**44**	**2756.14**
	Raichur	Gold	3	965.08
		Quartz	2	13.73
		Total	**5**	**978.81**
	Shimoga	China Clay	3	33.99
		Iron Ore	1	7.29
		Kyanite	1	2.42
		Limestone	1	97.12
		Manganese Ore	2	71.50
		Quartz	1	16.19
		Total	**9**	**228.51**
	South Kanara	Limeshell	1	101.17
		Quartz	1	1.95
		Silica Sand	3	118.29
		Total	**5**	**221.41**
	Tumkur	China Clay	1	43.17
		Felsite	1	1.27
		Fireclay	2	252.15
		Gold	1	38.04
		Iron Ore	13	936.92
		Limestone	9	1620.06
		Manganese Ore	19	868.51
		Ochre	1	6.07
		Quartz	9	30.69
		Steatite	4	69.56
		Total	**60**	**3866.44**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Karnataka	Udupi	Bauxite	1	28.80
		Limeshell	5	488.47
		Ochre	1	56.65
		Silica Sand	26	729.27
		Total	**33**	1303.19
Kerala	Alapuzha (Alleppy)	Laterite	1	2.09
		Limeshell	5	518.50
		Silica Sand	32	36.15
		Total	**38**	556.74
	Ernakulam	Graphite	1	1.25
		Total	**1**	1.25
	Idukki (Iddiki)	Silica Sand	1	48.00
		Total	**1**	48.00
	Kannur	Laterite	5	24.08
		Total	**5**	24.08
	Kasargod	China Clay	1	2.93
		Total	**1**	2.93
	Kollam	Bauxite	3	1.37
		China Clay	4	8.28
		Laterite	1	1.13
		Sand (Others)	2	169.77
		Sillimanite	4	327.40
		Total	**14**	507.95
	Kottayam	Limeshell	2	1445.00
		Total	**2**	1445.00
	Kozhikode	Quartz	1	2.03
		Total	1	2.03
	Palakkad	Limestone	1	245.69
		Total	1	245.69
	Thiruvananthapuram	China Clay	36	94.65
		Total	36	94.65
	Wynad	Quartz	1	0.48
		Total	1	0.48

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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	40	1512.49
		Ochre	1	16.18
		Sand (Others)	2	15.50
		Total	**73**	**2281.52**
	Betul	Lead & Zinc Ore	1	3.83
		Total	**1**	**3.83**
	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	86.80
		Manganese Ore	7	118.97
		Total	**18**	**205.77**
	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	42.29
		Laterite	1	4.84
		Quartz	1	1.29
		Total	**6**	**69.05**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Madhya Pradesh	Jabalpur	Bauxite	4	13.96
		Dolomite	6	60.62
		Fireclay	13	96.89
		Iron Ore	7	129.47
		Laterite	8	60.28
		Limestone	11	1069.64
		Manganese Ore	3	14.32
		Ochre	2	8.93
		Quartz	2	13.98
		Steatite	3	43.34
		Total	**59**	**1511.43**
	Jhabua	Calcite	3	13.79
		Dolomite	23	921.05
		Limestone	1	2.15
		Manganese Ore	1	30.86
		Phosphorite	2	11.41
		Steatite	1	3.59
		Vermiculite	2	27.49
		Total	**33**	**1010.34**
	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	2	15.71
		Total	**152**	**1978.36**
	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	36	105.87
		Total	**36**	**105.87**
	Mandsaur	Laterite	11	51.52
		Shale	16	178.71
		Slate	1	55.49
		Total	**28**	**285.72**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Madhya Pradesh	Morena	Limestone	1	18.00
		Total	**1**	**18.00**
	Narasinhapur	Dolomite	5	18.08
		Fireclay	1	20.00
		Limestone	2	35.06
		Steatite	8	31.19
		Total	**16**	**104.33**
	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	188	10725.06
		Ochre	42	977.77
		Total	**290**	**12434.25**
	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**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Madhya Pradesh	Shivpuri	Diaspore	1	17.00
		Total	**1**	**17.00**
	Shyopur	Limestone	7	508.25
		Ochre	2	22.59
		Total	**9**	**530.84**
	Sidhi	Limestone	4	497.77
		Total	**4**	**497.77**
	Tikamgarh	Barytes	1	2.02
		Diaspore	3	31.11
		Pyrophyllite	22	185.74
		Quartz	2	16.00
		Total	**28**	**234.87**
	Umaria	China Clay	1	11.24
		Fireclay	3	22.62
		Ochre	3	23.01
		Total	**7**	**56.87**
	Unidentified	Bauxite	1	148.18
		Total	**1**	**148.18**
Maharashtra	Akola	Limestone	1	16.57
		Silica Sand	1	4.85
		Total	**2**	**21.42**
	Amravati	China Clay	2	16.71
		Fireclay	1	13.26
		Total	**3**	**29.97**
	Bhandara	Chromite	1	16.22
		Corundum	1	3.96
		Kyanite	15	307.35
		Manganese Ore	7	453.77
		Quartz	4	33.32
		Sand (Others)	2	43.34
		Total	**30**	**857.96**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Maharashtra	Chandrapur	China Clay	1	18.00
		Fluorite	1	31.22
		Iron Ore	3	29.92
		Laterite	4	84.44
		Limestone	22	3872.90
		Quartz	3	32.81
		Sand (Others)	5	461.08
		Shale	1	32.49
		Total	**40**	**4562.86**
	Gadchiroli	Iron Ore	1	9.96
		Total	**1**	**9.96**
	Gondia	Iron Ore	4	35.75
		Quartz	1	14.32
		Total	**5**	**50.07**
	Jalna	Agate	2	54.98
		Total	**2**	**54.98**
	Kolhapur	Bauxite	18	4405.57
		Iron Ore	1	143.95
		Total	**19**	**4549.52**
	Nagpur	China Clay	4	40.75
		Dolomite	16	166.52
		Manganese Ore	33	757.55
		Ochre	1	12.36
		Quartz	1	1.07
		Sand (Others)	4	191.88
		Total	**59**	**1170.13**
	Raigad	Bauxite	8	580.66
		Total	**8**	**580.66**
	Ratnagiri	Bauxite	7	782.33
		Moulding Sand	1	47.02
		Silica Sand	7	489.08
		Total	**15**	**1318.43**
	Satara	Bauxite	1	125.06
		Total	**1**	**125.06**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Maharashtra	Sindhudurg	China Clay	1	13.18
		Felspar	2	53.65
		Fireclay	1	5.14
		Iron Ore	15	653.55
		Manganese Ore	1	191.85
		Mica	1	42.06
		Moulding Sand	1	4.85
		Quartz	2	91.15
		Silica Sand	23	986.61
		Total	**47**	**2042.04**
	Yeotmal	Dolomite	1	61.91
		Limestone	36	2261.69
		Sand (Others)	1	44.00
		Total	**38**	**2367.60**
Manipur	Chandel	Chromite	1	223.93
		Total	**1**	**223.93**
	Ukhrul	Chromite	1	386.24
		Total	**1**	**386.24**
Meghalaya	Garo Hills West	Fireclay	1	221.44
		Limestone	2	470.00
		Total	**3**	**691.44**
	Jaintia Hills	Limestone	6	34.53
		Total	**6**	**34.53**
	Khasi Hills East	China Clay	2	9.77
		Limestone	4	623.81
		Shale	1	4.90
		Total	**7**	**638.48**
	Khasi Hills West	Limestone	1	60.00
		Total	**1**	**60.00**
Orissa	Angul	Quartz	1	8.13
		Sand (Others)	3	318.33
		Total	**4**	**326.46**
	Bargarh	Graphite	11	190.10
		Limestone	2	806.53
		Quartz	1	15.21
		Total	**14**	**1011.84**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Orissa	Baudh	Quartz	4	58.47
		Total	**4**	**58.47**
	Bolangir	Graphite	52	1416.69
		Limestone	1	27.65
		Manganese Ore	1	7.27
		Quartz	2	143.99
		Total	**56**	**1595.60**
	Cuttack	Fireclay	7	926.19
		Total	**7**	**926.19**
	Dhenkanal	Chromite	2	847.48
		Total	**2**	**847.48**
	Ganjam	Sillimanite	1	2483.02
		Total	**1**	**2483.02**
	Jajpur	Chromite	12	3888.39
		Iron Ore	1	190.22
		Quartz	1	7.23
		Quartzite	1	2.31
		Total	**15**	**4088.15**
	Jharsuguda	Fireclay	2	246.42
		Ochre	1	102.27
		Quartzite	2	107.01
		Sand (Others)	1	109.20
		Total	**6**	**564.90**
	Kalahandi	Amethyst	1	27.65
		Corundum	1	57.46
		Graphite	10	220.90
		Iolite	8	76.97
		Quartz	31	311.93
		Total	**51**	**694.91**
	Keonjhar	Asbestos	1	49.22
		Chromite	6	2198.75
		Iron Ore	53	19419.60
		Manganese Ore	17	6464.91
		Pyrophyllite	8	487.29
		Quartz	2	35.99
		Total	**87**	**28655.76**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Orissa	Khurda	Fireclay	2	127.64
		Total	**2**	**127.64**
	Koraput	Bauxite	2	4915.11
		China Clay	1	38.50
		Limestone	2	1586.18
		Mica	1	2.67
		Quartz	2	22.76
		Total	**8**	**6565.22**
	Malkangiri	Quartz	1	2.48
		Tin	1	36.26
		Total	**2**	**38.74**
	Mayurbhanj	China Clay	7	655.44
		Fireclay	1	22.49
		Iron Ore	7	1204.91
		Quartz	1	1.29
		Quartzite	7	20.65
		Steatite	2	136.20
		Total	**25**	**2040.98**
	Nawapara	Corundum	1	33.95
		Graphite	4	116.06
		Limestone	3	342.93
		Total	**8**	**492.94**
	Nayagarh	Graphite	1	16.64
		Total	**1**	**16.64**
	Raygada	Bauxite	1	1388.74
		Graphite	7	281.82
		Manganese Ore	2	512.83
		Total	**10**	**2183.39**
	Sambalpur	Fireclay	1	8.84
		Quartz	3	47.73
		Total	**4**	**56.57**
	Sundargarh	Bauxite	4	369.43
		Dolomite	7	740.03
		Fireclay	3	545.56
		Iron Ore	29	6887.67
		Lead & Zinc Ore	1	499.60
		Limestone	21	3286.85
		Manganese Ore	7	1554.25
		Quartz	2	199.75
		Sand (Others)	2	9.90
		Steatite	1	155.93
		Total	**77**	**14248.97**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan	Ajmer	Asbestos	4	214.66
		Felspar	127	2488.56
		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	**290**	**5479.79**
	Alwar	Barytes	2	41.85
		China Clay	1	4.73
		Copper Ore	1	914.07
		Felspar	3	14.99
		Fireclay	1	3.75
		Ochre	1	60.70
		Silica Sand	1	4.73
		Steatite	8	511.01
		Total	**18**	**1555.83**
	Banswara	Graphite	2	383.55
		Limestone	1	65.82
		Manganese Ore	1	80.00
		Steatite	2	713.08
		Total	**6**	**1242.45**
	Barmer	China Clay	3	14.89
		Gypsum	6	1966.51
		Silica Sand	5	551.09
		Total	**14**	**2532.49**
	Bharatpur	Fireclay	3	47.75
		Ochre	2	10.00
		Silica Sand	20	1148.84
		Total	**25**	**1206.59**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan	Bhilwara	Asbestos	9	45.00
		Calcite	1	5.00
		China Clay	13	782.82
		Felspar	227	5438.09
		Garnet	1	5.00
		Kyanite	1	5.00
		Lead & Zinc Ore	1	1200.00
		Mica	80	1756.60
		Ochre	3	16.00
		Quartz	4	57.88
		Silica Sand	1	5.00
		Steatite	13	1708.60
		Total	**354**	**11024.99**
	Bikaner	Ball Clay	15	1076.09
		China Clay	43	3444.34
		Fireclay	18	2190.31
		Gypsum	14	4451.61
		Total	**90**	**11162.35**
	Bundi	China Clay	2	109.00
		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	27	959.94
		Limestone	7	2968.25
		Ochre	20	968.89
		Quartz	15	64.22
		Shale	1	5.00
		Total	**71**	**5049.53**
	Dausa	China Clay	1	32.37
		Iron Ore	1	65.25
		Quartz	3	191.28
		Silica Sand	7	340.93
		Steatite	5	352.20
		Total	**17**	**982.03**
	Dungarpur	Felspar	1	100.00
		Fluorite	9	425.98
		Steatite	53	3766.85
		Total	**63**	**4292.83**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan	Ganganagar	Gypsum	8	1475.89
		Total	**8**	**1475.89**
	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	8	266.33
		Iron Ore	5	1106.80
		Limestone	3	1334.90
		Mica	2	68.37
		Ochre	2	183.00
		Quartz	25	563.81
		Silica Sand	18	864.90
		Steatite	9	849.98
		Total	**84**	**6870.07**
	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	1075.00
		Gypsum	1	178.50
		Total	**5**	**1253.50**
	Jhunjhunu	Calcite	4	109.94
		Copper Ore	4	803.88
		Dolomite	1	33.68
		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	**26**	**1968.09**
	Jodhpur	Jasper	5	211.70
		Total	**5**	**211.70**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan	Karauli	Clay (Others)	1	5.00
		Silica Sand	25	729.11
		Steatite	1	5.00
		Total	**27**	**739.11**
	Kota	Limestone	6	1319.52
		Total	**6**	**1319.52**
	Nagaur	Ball Clay	2	10.00
		China Clay	38	177.27
		Gypsum	4	2271.15
		Limestone	12	6700.63
		Total	**56**	**9159.05**
	Pali	Ball Clay	6	777.73
		China Clay	1	4.85
		Felspar	2	69.87
		Limestone	11	1114.15
		Magnesite	2	10.00
		Quartz	16	1180.68
		Total	**38**	**3157.28**
	Rajsamand	Asbestos	11	729.82
		Felspar	2	10.00
		Lead & Zinc Ore	3	1725.82
		Mica	2	10.00
		Pyrophyllite	2	105.00
		Quartz	249	1321.88
		Steatite	29	2277.28
		Total	**298**	**6179.80**
	Sawai Madhopur	Ochre	1	38.43
		Quartz	2	249.45
		Silica Sand	3	287.02
		Total	**6**	**574.90**
	Sikar	Barytes	1	47.51
		Calcite	7	222.79
		China Clay	1	32.54
		Dolomite	2	128.93
		Felspar	7	262.83
		Iron Ore	4	91.71
		Limestone	5	2363.12
		Ochre	1	5.00
		Quartz	37	663.32
		Silica Sand	3	15.00
		Steatite	1	5.00
		Total	69	3837.75

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Rajasthan	Sirohi	Calcite	5	366.66
		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	3	70.37
		Garnet	10	320.99
		Mica	4	175.87
		Quartz	14	297.84
		Quartzite	1	5.00
		Silica Sand	6	299.16
		Steatite	1	48.00
		Total	**39**	**1217.23**
	Udaipur	Asbestos	3	230.43
		Barytes	1	31.00
		Calcite	9	205.92
		China Clay	1	5.00
		Felspar	6	29.59
		Lead & Zinc Ore	1	3620.00
		Limestone	1	704.90
		Ochre	1	5.00
		Phosphorite	6	2092.11
		Pyrophyllite	3	160.66
		Quartz	17	78.26
		Steatite	81	4963.18
		Wollastonite	1	101.80
		Total	**131**	**12227.85**
Sikkim	Sikkim East	Copper Ore	3	96.30
		Total	**3**	**96.30**
Tamil Nadu	Ariyalur	Limestone	10	591.97
		Total	**10**	**591.97**
	Chengai-Anna	Quartz	1	6.58
		Total	**1**	**6.58**
	Chennai City	Quartz	1	1.00
		Total	**1**	**1.00**
	Coimbatore	Quartz	9	17.83
		Steatite	2	5.46
		Total	**11**	**23.29**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Tamil Nadu	Cuddalore	Fireclay	5	49.06
		Silica Sand	1	1.06
		Total	**6**	**50.12**
	Dharmapuri	Quartz	2	18.62
		Total	**2**	**18.62**
	Dindigul	Limestone	15	43.24
		Quartz	14	14.87
		Total	**29**	**58.11**
	Erode	Limestone	1	1.82
		Quartz	41	85.31
		Total	**42**	**87.13**
	Kanchipuram	Limeshell	1	190.00
		Silica Sand	7	27.56
		Total	8	217.56
	Kanyakumari	Garnet	11	273.79
		Total	**11**	**273.79**
	Karur	Limestone	14	46.39
		Magnesite	2	4.41
		Quartz	43	67.80
		Total	**59**	**118.60**
	Madurai	Graphite	1	14.51
		Limestone	2	3.11
		Quartz	4	5.80
		Total	**7**	**23.42**
	Nagapattinam	Silica Sand	5	9.47
		Total	5	9.47
	Namakkal	Bauxite	2	158.46
		Limestone	15	41.24
		Magnesite	1	1.82
		Quartz	21	40.60
		Total	**39**	**242.12**
	Perambalur	Fireclay	18	51.96
		Gypsum	4	164.14
		Limestone	32	527.51
		Total	**54**	**743.61**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Tamil Nadu	Periyar	Quartz	11	6.28
		Total	**11**	**6.28**
	Ramnathapuram	Limeshell	1	539.05
		Total	**1**	**539.05**
	Salem	Felspar	1	39.47
		Limestone	27	150.41
		Magnesite	13	1198.68
		Quartz	24	60.14
		Total	**65**	**1448.70**
	Sivaganga	Graphite	4	277.11
		Total	**4**	**277.11**
	Theni (Madurai)	Limestone	3	6.77
		Total	**3**	**6.77**
	Thiruvannamalai	Fireclay	1	4.87
		Total	**1**	**4.87**
	Thiruvarur (Nagapattinam)	Silica Sand	1	4.16
		Total	**1**	**4.16**
	Tiruchirapalli	China Clay	1	12.30
		Dolomite	1	62.07
		Fireclay	1	1.20
		Garnet	1	19.06
		Gypsum	4	46.45
		Limestone	8	88.45
		Quartz	2	4.07
		Steatite	1	4.90
		Total	**19**	**238.50**
	Tirunelveli	Garnet	43	209.36
		Limestone	19	643.90
		Total	**62**	**853.26**
	Thoothukodi (Tuticorin)	Limestone	3	6.48
		Total	**3**	**6.48**
	Tuticorin	Garnet	2	21.93
		Limestone	2	4.75
		Total	**4**	**26.68**

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State	District	Mineral	No. of Leases	Lease Area (Hect.)
Tamil Nadu	Unidentified	Limestone	2	2.46
		Total	**2**	**2.46**
	Vellore	Quartz	1	1.39
		Steatite	1	28.26
		Vermiculite	1	23.71
		Total	**3**	**53.36**
	Villupuram	China clay	1	3.25
		Silica sand	2	5.11
		Total	**3**	**8.36**
	Virudhunagar	Limestone	14	709.50
		Total	**14**	**709.50**
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**
	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	6.24
		Total	**2**	**6.24**
	Bageshwar	Magnesite	1	53.20
		Steatite	41	1696.67
		Total	**42**	**1749.87**

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Table-4 (concld)

State	District	Mineral	No. of Leases	Lease Area (Hect.)
Uttarakhand	Dehradun	Limestone	2	97.15
		Phosphorite	2	222.05
		Total	**4**	**319.20**
	Pithoragarh	Magnesite	3	687.92
		Steatite	13	282.34
		Total	**16**	**970.26**
	Tehri Garhwal	Limestone	4	27.77
		Total	**4**	**27.77**
West Bengal	Bankura	China Clay	10	62.50
		Felspar	1	2.23
		Fireclay	3	13.58
		Quartz	2	4.33
		Quartzite	1	4.70
		Total	**17**	**87.34**
	Birbhum	China Clay	15	210.88
		Fireclay	1	46.00
		Total	**16**	**256.88**
	Burdwan	Fireclay	6	9882.58
		Moulding Sand	1	0.37
		Total	**7**	**9882.95**
	Jalpaiguri	Dolomite	1	847.00
		Total	**1**	**847.00**
	Midnapur	Ochre	1	5.76
		Total	**1**	**5.76**
	Purulia	China Clay	2	332.29
		Limestone	1	0.67
		Moulding Sand	1	5.14
		Phosphorite	1	29.13
		Quartz	3	6.37
		Sand (Others)	1	44.09
		Total	**9**	**417.69**

3.2 DISTRICTWISE ANALYSIS

I. High Mineral Potential Districts

Districtwise analysis indicates that the total number of mineral-bearing districts is around 281 and that they are spread across 23 states in the country. Out of these, 18 districts in 6 states are considered as high mineral potential districts wherein more than 101 mining leases each have been granted. A total of 3,674 mining leases have been granted in these districts covering an area of 115,837 hectares. These constitute about 42% of total number of mining leases in the country and cover around 24% 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	149	14	4,361.96
2.	Cuddapah	Andhra Pradesh	205	17	5,980.76
3.	Kurnool	Andhra Pradesh	233	14	5,812.30
4.	Mahbubnagar	Andhra Pradesh	109	2	1,235.86
5.	Nellore	Andhra Pradesh	231	10	4,205.59
6.	Prakasam	Andhra Pradesh	107	6	2,168.88
7.	South Goa	Goa	152	3	10,984.23
8.	Jamnagar	Gujarat	203	6	5,537.23
9.	Junagarh	Gujarat	123	2	3,120.20
10.	Kachchh	Gujarat	183	10	6,820.39
11.	Porbandar	Gujarat	306	4	3,957.31
12.	Bellary	Karnataka	158	9	12,327.26
13.	Katni	Madhya Pradesh	152	9	1,978.36
14.	Satna	Madhya Pradesh	290	6	12,434.25
15.	Ajmer	Rajasthan	290	11	5,479.79
16.	Bhilwara	Rajasthan	354	12	11,024.99
17.	Rajsamand	Rajasthan	298	7	6,179.80
18.	Udaipur	Rajasthan	131	13	12,227.85
		Total	3,674		1,15,837.01

II. Medium Mineral Potential Districts

Districts wherein mining leases between 51 and 100 are granted are considered as Medium Potential districts. There are 2,257 such mining leases granted in 33 districts, covering an area of 1,53,384 hectares. These constitute 26% of the total number of mining leases in the country and cover over 32% of the total area. Information on the number of mining leases granted in medium potential districts is furnished in Table-6.

Table-5 : Medium Mineral Potential Districts

S. No.	District	State	No. of Leases	No. of Minerals	Lease Area (Hect.)
1.	Godavari East	Andhra Pradesh	52	4	188.00
2.	Khammam	Andhra Pradesh	53	11	1,754.06
3.	Nalgonda	Andhra Pradesh	56	4	4,981.46
4.	Rangareddi	Andhra Pradesh	55	7	1,672.17
5.	Vizianagaram	Andhra Pradesh	65	6	1,218.49
6.	Durg	Chhattisgarh	94	5	3,806.70
7.	North Goa	Goa	100	2	7,235.33
8.	Sabarkantha	Gujarat	51	9	609.27
9.	Surendranagar	Gujarat	85	4	503.03
10.	Vadodara	Gujarat	95	5	1,101.25
11.	Gurgaon	Haryana	57	4	4,261.27
12.	Singhbhum (West)	Jharkhand	85	10	16,596.30
13.	Bagalkot	Karnataka	93	4	5,861.75
14.	Chitradurga	Karnataka	69	8	4,615.42
15.	Tumkur	Karnataka	60	10	3,866.44
16.	Balaghat	Madhya Pradesh	73	8	2,281.52
17.	Jabalpur	Madhya Pradesh	59	10	1,511.43
18.	Nagpur	Maharashtra	59	6	1,170.13
19.	Bolangir	Orissa	56	4	1,595.60
20.	Kalahandi	Orissa	51	5	694.91
21.	Keonjhar	Orissa	87	6	28,655.76
22.	Sundergarh	Orissa	77	10	14,248.97
23.	Bikaner	Rajasthan	90	4	11,162.35
24.	Chittorgarh	Rajasthan	71	6	5,049.53
25.	Dungarpur	Rajasthan	63	3	4,292.83
26.	Jaipur	Rajasthan	84	13	6,870.07
27.	Nagaur	Rajasthan	56	4	9,159.05
28.	Sikar	Rajasthan	69	11	3,837.75
29.	Karur	Tamil Nadu	59	3	118.60
30.	Perambalur	Tamil Nadu	54	3	743.61
31.	Salem	Tamil Nadu	65	4	1,448.70
32.	Tirunelveli	Tamil Nadu	62	2	853.26
33.	Allahabad	Uttar Pradesh	52	1	1,419.23
		Total	2,257		1,53,384.24

III. Low Mineral Potential Districts

Districts wherein mining leases granted are between 1 and 50 are considered as Low Mineral Potential districts. There are 2,853 mining leases granted in 230 such districts covering an area of 2,10,781 hectares in the country. These account for 32% of the total leases in the country covering 44% 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	263	20,891.26
2.	Assam	2	8	929.5
3.	Bihar	3	10	2,030.16
4.	Chhattisgarh	13	216	13,120.38
5.	Gujarat	11	182	6,313.86
6.	Haryana	4	50	6,889.77
7.	Himachal Pradesh	5	61	2,234.28
8.	Jammu & Kashmir	9	49	1,723.94
9.	Jharkhand	18	238	20,378.37
10.	Karnataka	19	290	28,895.37
11.	Kerala	11	102	2,930.82
12.	Madhya Pradesh	27	354	9,798.42
13.	Maharashtra	13	211	16,569.73
14.	Manipur	2	2	610.17
15.	Meghalaya	4	17	1,424.45
16.	Orissa	16	113	21,828.63
17.	Rajasthan	18	287	28,185.95
18.	Sikkim	1	3	96.30
19.	Tamil Nadu	26	242	3,488.64
20.	Uttar Pradesh	6	36	7,870.88
21.	Uttarakhand	5	68	3,073.34
22.	West Bengal	6	51	11,497.62
	Total	230	2,853	210,781.84

3.3 MINERALWISE ANALYSIS

There are 61 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, nonferrous & 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 for silver and platinum group of metals in the country.

There are 9 minerals under Scheduled Minerals for which mining leases are granted as on 31.3.2008. The number of leases granted are 1,321, i.e., 15% of the total mining leases accounting for an area of 1,66,872.76 hectares which is 35% of the total mining area in the country. Out of the nine scheduled minerals, the total number of mining leases granted for iron ore is placed at 577 followed by bauxite (349), manganese ore (294), asbestos (36), chromite (29) and copper ore (16). These six minerals account for 1,301 mining leases, i.e., 98% of the mining leases under this category accounting for an area of 1,52,219.57 hectares which is 91% 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	36	1687.71
2.	Bauxite	349	30069.80
3.	Chromite	29	8867.41
4.	Copper Ore	16	9530.95
5.	Diamond	2	576.51
6.	Gold	9	6483.98
7.	Iron Ore	577	80962.00
8.	Lead & Zinc Ore	9	7592.70
9.	Manganese Ore	294	21101.70
	Total	**1,321**	**1,66,872.76**

II. Non-Scheduled Minerals

There are 52 Non-Scheduled or Industrial minerals, for which leases are granted in the country. In all, there are 7,463 (85% of the total mining leases) mining leases granted for these minerals that account for an area of 3,13,130.33 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.	Minerals	No. of Leases	Lease Area (Hect.)
1.	Agate	4	241.13
2.	Amethyst	5	40.64
3.	Apatite	1	13.29
4.	Ball Clay	53	2389.20
5.	Barytes	128	2436.38
6.	Borax	1	159.00
7.	Calcareous Sand	14	151.54
8.	Calcite	69	1682.11
9.	Chalk	166	669.83
10.	China Clay	458	16275.53
11.	Clay (Others)	115	1493.57
12.	Corundum	21	266.24
13.	Diaspore	11	80.11
14.	Dolomite	466	9331.80
15.	Dunite	1	4.45
16.	Epidote	1	5.00
17.	Felsite	6	132.06
18.	Felspar	438	10013.10
19.	Fireclay	256	16519.66
20.	Fluorite	17	1731.51
21.	Garnet	88	1818.62
22.	Graphite	118	3755.39
23.	Gypsum	72	14711.61
24.	Iolite	8	76.97
25.	Jasper	5	211.70
26.	Kyanite	32	3215.81
27.	Laterite	151	1937.04
28.	Lime Kankar	16	426.15
29.	Limeshell	33	4375.96
30.	Limestone	1714	126894.59
31.	Magnesite	35	2616.73
32.	Mica	278	8013.29
33.	Moulding Sand	61	1373.35
34.	Ochre	130	3581.97
35.	Opal	1	200.00
36.	Perlite	1	144.65
37.	Phosphorite	15	3333.09
38.	Pyrites	1	647.50
39.	Pyrophyllite	81	2700.59
40.	Pyroxenite	8	78.70
41.	Quartz	1311	14950.83
42.	Quartzite	58	769.54
43.	Rock Salt	3	53.86
44.	Sand (Others)	53	5351.52
45.	Shale	30	402.95
46.	Silica Sand	470	17544.65
47.	Sillimanite	6	9810.42
48.	Slate	13	557.62
49.	Steatite	412	19318.54
50.	Tin	9	167.45
51.	Vermiculite	14	245.68
52.	Wollastonite	5	207.41
	Total	7463	3,13,130.33

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

S. No.	No. of Minerals	No. of Mining Leases		Lease Area	
		No. of Leases	Percentages	In Hectares	Percentages
I	2	3,025	34	1,41,845.42	30
II	1	577	7	80,962.00	17
III	5	2,244	26	72,483.62	15
IV	1	349	4	30,069.80	6
V	3	828	9	45,634.65	10
VI	6	808	9	13,874.18	3
VII	8	535	6	30,796.54	6
VIII	35	418	5	64,336.88	13
Total	61	8,784	100	4,80,003.09	100

Table-11 : Frequency Distribution of Mining Leases

Category	Frequency of Leases	Mineral	No. of Mining Leases Granted	Lease Area (Hect.)
I	>1000	Limestone	1714	126894.59
		Quartz	1311	14950.83
		Total	**3025**	**141845.42**
II	Between 501 and 1000	Iron ore	577	80962.00
		Total	**577**	**80962.00**
III	Between 401 and 500	China clay	458	16275.53
		Dolomite	466	9331.80
		Felspar	438	10013.10
		Silica sand	470	17544.65
		Steatite	412	19318.54
		Total	**2244**	**72483.62**
IV	Between 301 and 400	Bauxite	349	30069.80
		Total	**349**	**30069.80**
V	Between 201 and 300	Fireclay	256	16519.66
		Manganese ore	294	21101.70
		Mica	278	8013.29
		Total	**828**	**45634.65**
VI	Between 101 and 200	Barytes	128	2436.38
		Chalk	166	669.83
		Clay (others)	115	1493.57
		Graphite	118	3755.39
		Laterite	151	1937.04
		Ochre	130	3581.97
		Total	**808**	**13874.18**
VII	Between 51 and 100	Ball clay	53	2389.20
		Calcite	69	1682.11
		Garnet	88	1818.62
		Gypsum	72	14711.61
		Moulding sand	61	1373.35
		Pyrophyllite	81	2700.59
		Quartzite	58	769.54
		Sand (others)	53	5351.52
		Total	**535**	**30796.54**

(contd...)

(Table-11 concld)

Category	Frequency of Leases	Mineral	No. of Mining Leases Granted	Lease Area (Hect.)
VIII	Between 1 and 50	Agate	4	241.13
		Amethyst	5	40.64
		Apatite	1	13.29
		Asbestos	36	1687.71
		Borax	1	159.00
		Calcareous sand	14	151.54
		Chromite	29	8867.41
		Copper ore	16	9530.95
		Corundum	21	266.24
		Diamond	2	576.51
		Diaspore	11	80.11
		Dunite	1	4.45
		Epidote	1	5.00
		Felsite	6	132.06
		Fluorite	17	1731.51
		Gold	9	6483.98
		olite	8	76.97
		Jasper	5	211.70
		Kyanite	32	3215.81
		Lead & Zinc ore	9	7592.70
		Lime kankar	16	426.15
		Limeshell	33	4375.96
		Magnesite	35	2616.73
		Opal	1	200.00
		Perlite	1	144.65
		Phosphorite	15	3333.09
		Pyrites	1	647.50
		Pyroxenite	8	78.70
		Rock salt	3	53.86
		Shale	30	402.95
		Sillimanite	6	9810.42
		Slate	13	557.62
		Tin	9	167.45
		Vermiculite	14	245.68
		Wollastonite	5	207.41
		Total	**418**	**64336.88**

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 69 districts covering 13 states which have more than 4 varieties of minerals. The districts and occurrences of wide variety have been listed in Table-4. Cuddapah, Anantpur & Kurnool districts of Andhra Pradesh; Belgum 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 17, 14, 14,14,13,12,12 varieties of minerals respectively.

3.6 SECTORWISE DISTRIBUTION OF MINING LEASES

Out of the total 8,784 mining leases in the country, 507 (6%) leases have been executed in the Public Sector, extending over an area of 1,52,923.39 hectares (32%). The remaining 8,277 (94%) mining leases with an area of 3,27,079.70 hectares (68%) 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.

I. Leases Under Central Government Public Sector Undertakings

There are 192 mining leases under Central Government Public Sector Undertakings executed in 18 States for different minerals, covering an area of 79,060.25 hectares. The States rich in minerals where maximum number of mining leases executed for Central Govt. Public Sector Undertakings are Maharashtra 32 (17%) followed by Madhya Pradesh 28 (15%), Andhra Pradesh 26 (13%), Rajasthan 22 (11%), Jharkhand 20 (10%), Chhattisgarh 13 (7%), Tamil Nadu 12 (6%) and Orissa 11 (5%). These eight States together account for over 84% of total leases executed and the remaining 10 states account for the rest of the 16 percent.

The maximum mining lease area covered are in the States of Jharkhand (21%) followed by Orissa (17%), Karnataka (15%), Rajasthan (14%), Chhattisgarh (9%), Madhya Pradesh (8%) and Andhra Pradesh (7%). These seven States account for 91% of the total lease area executed and the remaining States account for the rest of the 9 percent.

II. Leases Under State Government Public Sector Undertakings

There are 315 number of mining leases executed in 18 States for different minerals, covering an area of 73,863.14 hectares. The States rich in minerals where there are maximum number of mining leases executed are Karnataka 58 (18%) followed by Rajasthan 52 (16%), Tamil Nadu 51 (16%), Orissa 43 (14%), Chhattisgarh 25 (8%), Maharashtra 17 (5%), Gujarat 16 (5%) and Andhra Pradesh 13 (4%). These eight States together account for over 86% of the total leases executed and the remaining 10 States account for the rest of the 14 percent.

The maximum mining lease area covered by different States are Orissa (31%), followed by Rajasthan (30%), Karnataka (12%), Uttar Pradesh (9%), Gujarat (6%), and Tamil Nadu (4%). These six States together account for around 92% of the total lease area executed while the remaining 12 states account for the rest of the 8 percent.

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

Table-12 : Sectorwise Distribution of Mining Leases (As on 31.03.2008) (Public Sector and Private Sector)

S. 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	1578	54470.79	39	7174.76	1539	47296.03
2.	Assam	8	929.50	2	338.00	6	591.50
3.	Bihar	10	2030.16	1	647.50	9	1382.66
4.	Chhattisgarh	310	16927.08	38	7444.86	272	9482.22
5.	Goa	252	18219.56	-	-	252	18219.56
6.	Gujarat	1228	27962.54	16	4135.94	1212	23826.60
7.	Haryana	107	11151.04	2	325.52	105	10825.52
8.	Himachal Pradesh	61	2234.28	5	464.09	56	1770.19
9.	Jammu & Kashmir	49	1723.94	3	573.40	46	1150.54
10.	Jharkhand	323	36974.67	29	18186.38	294	18788.29
11.	Karnataka	670	55566.24	65	20666.49	605	34899.75
12.	Kerala	102	2930.82	8	747.51	94	2183.31
13.	Madhya Pradesh	928	28003.98	37	7083.73	891	20920.25
14.	Maharashtra	270	17740.66	49	2244.83	221	15495.83
15.	Manipur	2	610.17	-	-	2	610.17
16.	Meghalaya	17	1424.45	3	745.11	14	679.34
17.	Orissa	384	67023.87	54	36249.86	330	30774.01
18.	Rajasthan	1793	103469.96	74	33496.76	1719	69973.20
19.	Sikkim	3	96.30	3	96.30	-	-
20.	Tamil Nadu	482	6652.01	63	3632.14	419	3019.87
21.	Uttar Pradesh	88	9290.11	8	6634.33	80	2655.78
22.	Uttarakhand	68	3073.34	5	811.25	63	2262.09
23.	West Bengal	51	11497.62	3	1224.63	48	10272.99
	All India	**8784**	**480003.09**	**507**	**152923.39**	**8277**	**327079.70**

Table-13 : Distribution of Mining Leases in Public Sector (As on 31.03.2008) (Under Central Government and State Government)

S. 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	26	6034.50	13	1140.26	39	7174.76
2.	Assam	1	171.00	1	167.00	2	338.00
3.	Bihar	1	647.50	0	0	1	647.50
4.	Chhattisgarh	13	7036.50	25	408.36	38	7444.86
5.	Gujarat	0	0	16	4135.94	16	4135.94
6.	Haryana	2	325.52	0	0	2	325.52
7.	Himachal Pradesh	5	464.09	0	0	5	464.09
8.	Jammu & Kashmir	1	485.30	2	88.10	3	573.40
9.	Jharkhand	20	16667.30	9	1519.08	29	18186.38
10.	Karnataka	7	11505.66	58	9160.83	65	20666.49
11.	Kerala	5	339.53	3	407.98	8	747.51
12.	Madhya Pradesh	28	6789.16	9	294.57	37	7083.73
13.	Maharashtra	32	1645.31	17	599.52	49	2244.83
14.	Meghalaya	0	0	3	745.11	3	745.11
15.	Orissa	11	13629.20	43	22620.66	54	36249.86
16.	Rajasthan	22	11203.21	52	22293.55	74	33496..76
17.	Sikkim	0	0	3	96.30	3	96.30
18.	Tamil Nadu	12	1020.14	51	2612.00	63	3632.14
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	1	348.50	2	876.13	3	1224.63
	Total	**192**	**79060.25**	**315**	**73863.14**	**507**	**152923.39**

Table-14 : Sectorwise Summary of Lease Distribution in Public Sector (As on 31.3.2008) (By States/Districts/Minerals)

State	District	Mineral	Central Government		State Government		Total	
			No. of Leases	Lease Area (Hects)	No. of Leases	Lease Area (Hects)	No. of Leases	Lease Area (Hects)
Andhra Pradesh	Adilabad	Limestone	1	839.41	1	809.38	2	1648.79
	Adilabad	Sand (Others)	1	216.00	0	0	1	216.00
	Anantapur	Gold	1	168.42	0	0	1	168.42
	Cuddapah	Barytes	0	0	4	161.73	4	161.73
	Godavari West	China Clay	0	0	1	14.27	1	14.27
	Karimnagar	Sand (Others)	4	1585.95	0	0	4	1585.95
	Khammam	Dolomite	1	384.61	0	0	1	384.61
	Khammam	Sand (Others)	3	15.88	0	0	3	15.88
	Krishna	Limestone	1	1295	0	0	1	1295
	Mahbubnagar	Felspar	1	17.82	0	0	1	17.82
	Rangareddi	Laterite	1	41.41	0	0	1	41.41
	Rangareddi	Limestone	2	868.74	0	0	2	868.74
	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	13.29	1	13.29
	Visakhapatnam	Mica	0	0	2	48.68	2	48.68
	Visakhapatnam	Phosphorite	0	0	1	2.83	1	2.83
	Visakhapatnam	Quartz	1	3.24	0	0	1	3.24
	Vizianagaram	Manganese Ore	4	330.46	3	90.08	7	420.54
	Vizianagaram	Moulding Sand	1	31.16	0	0	1	31.16
	Vizianagaram	Sand (Others)	2	95.83	0	0	2	95.83
		Total	**26**	**6034.50**	**13**	**1140.26**	**39**	**7174.76**
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	Bastar	Bauxite	0	0	2	27.28	2	27.28
	Bilaspur	Dolomite	1	128.77	0	0	1	128.77
	Dantewara	Corundum	0	0	2	27.24	2	27.24
	Dantewara	Iron Ore	5	2553.41	0	0	5	2553.41
	Dantewara	Tin	0	0	4	64.99	4	64.99
	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
	Kabirdham	Bauxite	1	626.12	0	0	1	626.12
	Surguja	Bauxite	1	639.17	11	206.33	12	845.50
		Total	**13**	**7036.50**	**25**	**408.36**	**38**	**7444.86**
Gujarat	Banaskantha	Copper Ore	0	0	1	171.43	1	171.43
	Jamnagar	Bauxite	0	0	2	189.79	2	189.79
	Kachchh	Bauxite	0	0	11	2238.77	11	2238.77
	Surat	Limestone	0	0	1	1504.75	1	1504.75
	Vadodara	Fluorite	0	0	1	31.20	1	31.20
		Total	**0**	**0**	**16**	**4135.94**	**16**	**4135.94**

(contd...)

State	District	Mineral	Central Government		State Government		Total	
			No. of Leases	Lease Area (Hects)	No. of Leases	Lease Area (Hects)	No. of Leases	Lease Area (Hects)
Haryana	Bhiwani	Lime Kankar	2	325.52	0	0	2	325.52
		Total	**2**	**325.52**	**0**	**0**	**2**	**325.52**
Himachal Pradesh	Mandi	Rock Salt	3	53.86	0	0	3	53.86
	Sirmur	Limestone	1	172.03	0	0	1	172.03
	Solan	Limestone	1	238.20	0	0	1	238.20
		Total	**5**	**464.09**	**0**	**0**	**5**	**464.09**
Jammu & Kashmir	Pulwama	Limestone	0	0	1	88.10	1	88.10
	Udhampur	Magnesite	1	485.30	1	0	2	485.30
		Total	**1**	**485.30**	**2**	**88.10**	**3**	**573.40**
Jharkhand	Garwah	Limestone	3	1178.92	0	0	3	1178.92
	Hazaribagh	Limestone	0	0	2	129.50	2	129.50
	Palamau	Graphite	0	0	1	15.18	1	15.18
	Palamau	Limestone	0	0	1	1043.83	1	1043.83
	Ranchi	Limestone	0	0	2	239.63	2	239.63
	Singhbhum (East)	Copper Ore	4	6806.37	0	0	4	6806.37
	Singhbhum (East)	Kyanite	0	0	1	2.43	1	2.43
	Singhbhum (West)	Iron Ore	12	6933.76	0	0	12	6933.76
	Singhbhum (West)	Kyanite	1	1748.25	2	88.51	3	1836.76
		Total	**20**	**16667.30**	**9**	**1019.08**	**29**	**18186.38**
Karnataka	Bagalkot	Dolomite	0	0	2	301.12	2	301.12
	Bagalkot	Limestone	0	0	11	3158.63	11	3158.63
	Bengaluru	Felspar	0	0	3	130.30	3	130.30
	Belgaum	Limestone	0	0	2	791.37	2	791.37
	Bellary	Iron Ore	2	1255.50	10	1311.61	12	2567.11
	Bellary	Gold	0	0	1	21.98	1	21.98
	Chikmagalur	Iron Ore	1	4605.00	0	0	1	4605.00
	Chitradurga	Copper Ore	0	0	1	259.00	1	259.00
	Chitradurga	Limestone	0	0	1	111.30	1	111.30
	Gulbarga	Gold	0	0	1	55.75	1	55.75
	Gulbarga	Limestone	3	429.95	0	0	3	429.95
	Hassan	China Clay	0	0	2	311.60	2	311.60
	Hassan	Chromite	0	0	6	1306.40	6	1306.40
	Hassan	Quartz	0	0	2	18.20	2	18.20
	Hassan	Steatite	0	0	1	4.98	1	4.98
	Hassan	Vermiculite	0	0	1	26.30	1	26.30
	Kolar	Gold	1	5215.21	0	0	1	5215.21
	Mandya	Quartz	0	0	1	15.17	1	15.17
	Mysore	Magnesite	0	0	3	136.27	3	136.27
	North Kanara	Manganese Ore	0	0	1	80.94	1	80.94
	Raichur	Gold	0	0	3	965.08	3	965.08
	Shimoga	China Clay	0	0	3	33.99	3	33.99
	Shimoga	Manganese Ore	0	0	1	54.00	1	54.00
	Tumkur	Gold	0	0	1	38.04	1	38.04
	Udupi	Bauxite	0	0	1	28.80	1	28.80
		Total	7	11505.66	58	9160.83	65	20666.49

(contd...)

State	District	Mineral	Central Government		State Government		Total	
			No. of Leases	Lease Area (Hects)	No. of Leases	Lease Area (Hects)	No. of Leases	Lease Area (Hects)
Kerala	Kollam	China clay	0	0	1	4.65	1	4.65
	Kollam	Sand (Others)	2	169.77	0	0	2	169.77
	Kollam	Sillimanite	3	169.76	1	157.64	4	327.40
	Palakkad	Limestone	0	0	1	245.69	1	245.69
		Total	**5**	**339.53**	**3**	**407.98**	**8**	**747.51**
Madhya Pradesh	Balaghat	Copper Ore	2	479.90	0	0	2	479.90
	Balaghat	Manganese Ore	11	1172.27	0	0	11	1172.27
	Balaghat	Sand (Others)	2	15.50	0	0	2	15.50
	Chhatarpur	Phosphorite	0	0	1	48.76	1	48.76
	Jhabua	Phosphorite	0	0	2	11.41	2	11.41
	Katni	Fireclay	2	38.27	0	0	2	38.27
	Katni	Limestone	3	1109.09	0	0	3	1109.09
	Mandla	Dolomite	0	0	1	2.52	1	2.52
	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**	**9**	**294.57**	**37**	**7083.73**
Maharashtra	Bhandara	Kyanite	0	0	9	247.87	9	247.87
	Bhandara	Manganese Ore	6	441.44	0	0	6	441.44
	Bhandara	Sand (Others)	1	40.11	0	0	1	40.11
	Chandrapur	Fluorite	0	0	1	31.22	1	31.22
	Chandrapur	Sand (Others)	5	461.08	0	0	5	461.08
	Gondia	Iron Ore	0	0	1	9.32	1	9.32
	Nagpur	Dolomite	0	0	2	57.02	2	57.02
	Nagpur	Manganese Ore	15	466.80	0	0	15	466.80
	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	1	105.07	1	105.07
	Yeotmal	Limestone	0	0	2	119.75	2	119.75
	Yeotmal	Sand (Others)	1	44.00	0	0	1	44.00
		Total	**32**	**1645.31**	**17**	**599.52**	**49**	**2244.83**
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
	Khasi Hills East	Limestone	0	0	1	139.67	1	139.67
		Total	**0**	**0**	**3**	**745.11**	**3**	**745.11**
Orissa	Bargarh	Limestone	0	0	2	806.53	2	806.53
	Dhenkanal	Chromite	0	0	2	847.48	2	847.48
	Ganjam	Sillimanite	1	2483.02	0	0	1	2483.02
	Jajpur	Chromite	0	0	5	2865.85	5	2865.85
	Jajpur	Iron Ore	0	0	1	190.22	1	190.22
	Kalahandi	Amethyst	0	0	1	27.65	1	27.65
	Kalahandi	Corundum	0	0	1	57.46	1	57.46
	Keonjhar	Chromite	0	0	3	1934.64	3	1934.64

(contd...)

State	District	Mineral	Central Government		State Government		Total	
			No. of Leases	Lease Area (Hects)	No. of Leases	Lease Area (Hects)	No. of Leases	Lease Area (Hects)
Orissa	Keonjhar	Iron Ore	2	2907.81	11	6874.87	13	9782.68
	Keonjhar	Manganese Ore	0	0	7	4511.54	7	4511.54
	Koraput	Bauxite	1	4647.00	0	0	1	4647.00
	Koraput	Limestone	0	0	2	1586.18	2	1586.18
	Nawapara	Corundum	0	0	1	33.95	1	33.95
	Nawapara	Limestone	0	0	3	342.93	3	342.93
	Raygada	Manganese Ore	0	0	1	501.67	1	501.67
	Sundargarh	Bauxite	1	117.44	0	0	1	117.44
	Sundargarh	Dolomite	2	384.03	0	0	2	384.03
	Sundargarh	Iron Ore	3	2590.30	3	2039.69	6	4629.99
	Sundargarh	Lead & Zinc Ore	1	499.60	0	0	1	499.60
		Total	**11**	**13629.20**	**43**	**22620.66**	**54**	**36249.86**
Rajasthan	Ajmer	Lead & Zinc Ore	1	480.45	0	0	1	480.45
	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	725.85	5	1826.51
	Bhilwara	Lead & Zinc Ore	1	1200.00	0	0	1	1200.00
	Bikaner	Gypsum	3	367.02	10	4079.59	13	4446.61
	Dungarpur	Fluorite	0	0	4	292.30	4	292.30
	Ganganagar	Gypsum	4	346.50	4	1129.39	8	1475.89
	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
	Rajsamand	Lead & Zinc Ore	3	1725.82	0	0	3	1725.82
	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	Lead & Zinc Ore	1	3620.00	0	0	1	3620.00
	Udaipur	Phosphorite	1	143.13	5	1948.98	6	2092.11
		Total	**22**	**11203.21**	**52**	**22293.55**	**74**	**33496.76**
Sikkim	Sikkim East	Copper Ore	0	0	3	96.30	3	96.30
		Total	**0**	**0**	**3**	**96.30**	**3**	**96.30**
Tamil Nadu	Ariyalur	Limestone	0	0	5	384.01	5	384.01
	Chengai-Anna	Quartz	0	0	1	6.58	1	6.58
	Cuddalore	Fireclay	0	0	2	42.05	2	42.05
	Dindigul	Quartz	0	0	2	1.47	2	1.47
	Erode	Quartz	0	0	8	32.22	8	32.22
	Kanchipuram	Limeshell	0	0	1	190.00	1	190.00
	Kanchipuram	Silica Sand	0	0	3	20.87	3	20.87
	Kanyakumari	Garnet	5	258.31	0	0	5	258.31
	Karur	Quartz	0	0	6	18.90	6	18.90
	Namakkal	Quartz	0	0	4	10.43	4	10.43
	Perambalur	Limestone	0	0	1	110.68	1	110.68
	Periyar	Quartz	0	0	1	4.00	1	4.00
	Ramnathapuram	Limeshell	0	0	1	539.05	1	539.05

(contd...)

(Table-14 concld)

State	District	Mineral	Central Government		State Government		Total	
			No. of Leases	Lease Area (Hects)	No. of Leases	Lease Area (Hects)	No. of Leases	Lease Area (Hects)
Tamil Nadu	Salem	Magnesite	7	761.83	3	431.24	10	1193.07
	Salem	Quartz	0	0	2	1.09	2	1.09
	Sivaganga	Graphite	0	0	2	242.46	2	242.46
	Tiruchirapalli	China Clay	0	0	1	12.30	1	12.30
	Tiruchirapalli	Dolomite	0	0	1	62.07	1	62.07
	Tirunelveli	Garnet	0	0	1	4.36	1	4.36
	Tirunelveli	Limestone	0	0	2	27.80	2	27.80
	Vellore	Vermiculite	0	0	1	23.71	1	23.71
	Villupurm	Silica sand	0	0	1	3.73	1	3.73
	Virudhunagar	Limestone	0	0	2	446.58	2	446.58
		Total	**12**	**1020.14**	**51**	**2612.00**	**63**	**3632.14**
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**	**6634.33**
Uttarakhand	Bhageshwar	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**	**811.25**
West Bengal	Burdwan	Fireclay	1	348.50	0	0	1	348.50
	Jalpaiguri	Dolomite	0	0	1	847.00	1	847.00
	Purulia	Phosphorite	0	0	1	29.13	1	29.13
		Total	**1**	**348.50**	**2**	**876.13**	**3**	**1224.63**

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 (8,784), more than 1,005 leases will expire between 2009 and 2015 . The yearwise break up of expiry of leases and Statewise and yearwise break up of expiry of leases are given in Tables-15 and 16.

Table-15: Yearwise Status of Expiry of Mining Leases as on 31/03/2008

Year of Expiry	No. of Leases	Percentage (%)	Lease Area (Hect.)	Percentage (%)
2009	78	0.88	3768.71	0.78
2010	113	1.28	11690.27	2.43
2011	118	1.34	12613.08	2.62
2012	161	1.83	17762.86	3.70
2013	143	1.62	14520.59	3.02
2014	174	1.98	9780.30	2.03
2015	218	2.48	8790.23	1.83

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

S.No.	State	2009		2010		2011		2012		2013		2014		2015	
		No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)	No. of Leases	Lease Area (Hect.)
1.	Andhra Ptradesh	13	185.93	13	550.19	11	125.51	12	2164.12	4	207.58	35	1774.02	21	1071.84
2.	Assam	-	-	1	40.00	-	-	2	584.50	-	-	-	-	-	-
3.	Bihar	-	-	-	-	-	-	2	65.54	-	-	-	-	-	-
4.	Chhattisgarh	2	22.43	2	14.21	1	3.10	6	659.68	12	1805.17	15	39.58	22	106.01
5.	Goa	-	-	-	-	-	-	-	-	-	-	1	44.69	1	52.10
6.	Gujarat	10	111.62	7	26.67	21	74.85	32	506.27	36	368.69	25	186.53	26	146.11
7.	Haryana	-	-	1	50.50	-	-	-	-	-	-	3	719.97	9	881.00
8.	Himachal Pradesh	-	-	1	8.79	1	238.20	8	547.09	1	172.03	-	-	1	3.72
9.	Jammu& Kashmir	1	45.00	-	-	-	-	-	-	2	88.87	-	-	1	25.00
10.	Jharkhand	7	1604.05	18	444.64	3	2542.24	1	1160.10	4	1213.47	11	618.10	16	236.62
11.	Karnataka	5	160.38	5	134.88	10	4934.79	12	1319.46	8	5580.75	6	254.89	13	359.89
12.	Kerala	6	11.26	7	15.48	4	5.08	6	7.65	4	11.69	1	1.97	8	509.53
13.	Madhya Pradesh	3	94.57	15	101.23	15	146.30	33	1397.07	25	580.28	31	1297.50	54	767.56
14.	Maharashtra	8	405.75	7	124.15	5	197.17	3	78.53	5	68.14	8	240.25	7	1023.85
15.	Manipur	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16.	Meghalaya	-	-	1	384.00	-	-	-	-	-	-	1	240.55	-	-
17.	Orissa	10	462.53	17	2878.36	14	643.48	11	6796.96	3	412.65	3	321.70	6	223.44
18.	Rajasthan	10	566.31	15	6892.42	28	3634.42	27	2203.70	37	4005.67	24	3713.39	23	3311.29
19.	Sikkim	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20.	Tamil Nadu	1	0.43	1	7.06	3	10.75	3	224.24	1	4.63	7	114.66	8	57.38
21.	Uttar Pradesh	-	-	-	-	1	49.06	2	47.80	-	-	1	2.70	-	-
22.	Uttarakhand	2	98.45	1	1.50	1	8.13	1	0.15	-	-	1	202.02	-	-
23.	West Bengal	-	-	1	16.19	-	-	-	-	1	0.97	1	7.78	2	14.89
	Total	**78**	**3768.71**	**113**	**11690.27**	**118**	**12613.08**	**161**	**17762.86**	**143**	**14520.59**	**174**	**9780.30**	**218**	**8790.23**

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 liberalized by making such restrictions applicable statewise instead of the country as a whole.

4.1 STATEWISE DISTRIBUTION OF PROSPECTING LICENCES

As per information received from the State Governments/Union Territories, 25 prospecting licences were executed covering an area of 6,036 hectares during 2007-08 as compared to 15 prospecting licences covering 1,347 hectares area that were executed during 2006-07. The Statewise distribution of prospecting licences executed during 2005-06 to 2007-08 is given in Table-17.

Table-17 : Prospecting Licences Executed from 2005-06 to 2007-08 (By States)

State	2005–06		2006–07		2007–08	
	No.	Area (Hect.)	No.	Area (Hect.)	No.	Area (Hect.)
Andhra Pradesh	4	1169	1	2	2	632
Assam	1	2500	-	-	-	-
Chhattisgarh	15	580	-	-	-	-
Gujarat	1	474	-	-	1	5
Jammu & Kashmir	10	535	-	-	-	-
Karnataka	-	-	1	18	1	1500
Madhya Pradesh	-	-	1	564	2	2004
Maharashtra	7	725	2	38	-	-
Meghalaya	5	125	-	-	-	-
Orissa	-	-	2	54	12	1534
Rajasthan	34	4239	7	660	4	337
Sikkim	1	1700	-	-	-	-
Tamil Nadu	3	4	-	-	-	-
Uttarakhand	2	21	1	11	3	24
Total	**83**	**12072**	**15**	**1347**	**25**	**6036**

Area figures rounded off

The mineral-rich States where prospecting licences were so far executed during 2007-08 include Orissa (12) followed by Rajasthan (4), Uttarakhand (3), Andhra Pradesh & Madhya Pradesh (2 each) and Gujarat & Karnataka (1 each). Orissa alone accounted for 48% licences while the remaining six States accounted for rest of the 52% of the total prospecting licences executed. Areawise, Madhya Pradesh covered 2004 hectares, followed by Orissa 1534 hectares, Karnataka 1500 hecatres, Andhra Pradesh 632 hectares, Rajasthan 337 hectares, Uttarakhand 24 hectares and Gujarat 5 hectares. The three states, namely, Madhya Pradesh, Orissa and Karnataka together covered 5038 hectares, i.e., 83% while the remaining four States covered 17% area of the total area executed for prospecting licences.

4.2 MINERALWISE DISTRIBUTION OF PROSPECTING LICENCES

Mineralwise, in 2007-08, associated minerals accounted for a maximum of 12 prospecting licences executed followed by soapstone (4), limestone & iron ore (3 each) and chromite, diamond & pyrophyllite (1 each). The mineralwise distribution of prospecting licences executed during 2005-06 to 2007-08 is given in Table -18.

Table -18 : Prospecting Licences Executed from 2005-06 to 2007-08 (By Minerals)

Mineral	2005-06		2006-07		2007-08	
	No.	Area (Hect.)	No.	Area (Hect.)	No.	Area (Hect.)
Barytes	1	235	1	2	-	-
Calcite	3	146	1	50	-	-
China clay	3	190	-	-	-	-
Chromite	-	-	-	-	1	175
Diamond	-	-	-	-	1	604
Dolomite	4	1712	-	-	-	-
Felspar	2	192	-	-	-	-
Fireclay	1	2	-	-	-	-
Gypsum	2	19	-	-	-	-
Iron ore	2	141	1	3	3	134
Limestone	20	2843	1	564	3	2009
Moulding sand	1	42	-	-	-	-
Mica	2	230	-	-	-	-
Moon stone	3	5	-	-	-	-
Ochre	3	72	-	-	-	-
Phosphate	1	2500	-	-	-	-
Pyrophyllite	-	-	-	-	1	32
Quartz	2	7	1	43	-	-
Sillimanite	2	9	-	-	-	-
Silica sand	1	50	1	20	-	-
Soapstone/steatite	3	50	2	31	4	184
Associated minerals	27	3627	7	634	12	2898
Total	83	12072	15	1347	25	6036

Area figures rounded off

4.3 AREAWISE DISTRIBUTION OF PROSPECTING LICENCES

Areawise analysis indicated that associated minerals cover an area of 2898 hect., followed by limestone (2009 hects.), diamond (604 hects.), soapstone (184 hects.), chromite (175 hects.), iron ore (134 hects.) and pyrophyllite (32 hects.). In total there were 25 minerals in 2007-08 that accounted for a total area of 6036 hects. for which Prospecting Licences were executed.

4.4 SECTORWISE DISTRIBUTION OF PROSPECTING LICENCES

The sectorwise distribution of Prospecting Licences and area covered during 2005-06 to 2007-08 is given in Table-19.

Table-19 : Sectorwise Distribution of Prospecting Licences, 2005-06 to 2007-08

Sector	2005-06		2006-07		2007-08	
	No.	Area (Hect.)	No.	Area (Hect.)	No.	Area (Hect.)
Public	-	-	-	-	2	779
Private	83	12072	15	1347	23	5257
Public%	-	-	-	-	8	12
Private%	100	100	100	100	92	88
Total	**83**	**12072**	**15**	**1347**	**25**	**6036**

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

During the year 2007-08, the Govt. has approved/ granted 60 Reconnaissance Permits covering an area of 80238.19 sq.km. Out of these the maximum no of RPs are in Madhya Pradeswh (20), followed by Rajasthan (8), Andhra Pradesh (7), Chhattisgarh & Uttar Pradesh (6 each), Karnataka (4), Maharashtra, Orissa & West Bengal (2 each) and Arunachal Pradesh, Jharkhand & Manipur (1 each).

The details of Reconnaissance Permits approved/granted during 2007-08 are given in Table - 20.

Table-20 : Approval/Grant of Reconnaissance Permits during 2007-08

S. No.	State	Mineral	No. of RPs	Area in sq. km
1.	Andhra Pradesh	Diamond	3	3351.00
		Diamond, Gold, Copper Associated Minerals	4	2518.55
2.	Arunachal Pradesh	Gold, Platinum & Other Minerals	1	5000.00
3	Chhattisgarh	Diamond	1	1200.00
		Diamond & Other Precious Stones	4	2830.00
		Gold	1	250.00
4.	Jharkhand	Diamond	1	2061.00
5.	Karnataka	Diamond	3	4329.13
		Nickel, Gold & Diamond	1	106.00
6.	Manipur	Chromite & associated minerals	1	147.02

(contd...)

Table-20 (concld)

S. No.	State	Mineral	No. of RPs	Area in sq. km
7.	Madhya Pradesh	Diamond, Gold, Copper, associated minerals	16	22120.00
		Manganese ore	2	135.00
		Gold	1	365.00
		Copper	1	701.00
8.	Maharashtra	Diamond	1	9051.00
		Diamond, Gold & associated minerals	1	6151.00
9.	Orissa	Gold	1	1007.61
		Gold, Silver & Platinum	1	1941.00
10.	Rajasthan	Copper, Lead, Zinc Gold & associated minerals	8	10129.14
11.	Uttar Pradesh	Diamond, Gold & Other associated minerals	6	6034.00
12.	West Bengal	Gold, Copper, Lead & Zinc associated minerals	1	550.00
		Topaz, Fluorite, associated minerals	1	260.74
	Total		**60**	**80238.19**