Government of India

Ministry of Mines

INDIAN BUREAU OF MINES

BULLETIN OF

MINING LEASES & PROSPECTING LICENCES, 2013

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

Issued by

Controller General

Indian Bureau of Mines

Prepared by

Mineral Economics Division

Printed at IBM Press/

INDIAN BUREAU OF MINES

SHRI K. THOMAS
Controller General

MINERAL ECONOMICS DIVISION

D.K. SILEKAR
Mineral Economist (Int.)

A. K. RAY
Deputy Mineral Economist (Int.)

A. M. SHAHANE
Mineral Officer (Int.)

V. J. KHALATKAR
Upper Division Clerk

PUBLICATION SECTION

A.K. SINGH
Chief Editor

R.K. SUSHAN SINGH
Editor

P.L. MASRAM
Senior Technical Assistant

ANURAG P. MISHRA
Junior Technical Assistant

Contents

Preface

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

Currently in its 16th edition, this publication *"Bulletin of Mining Leases and Prospecting Licences 2013"* contains information on Mining Leases, Prospecting Licenses as well as Reconnaissance Permits as on 31-3-2013. Information resourced from the Directory of Mining Leases after assortment and analysis with different parameters have been segregated into state wise, district wise, mineral wise and sector wise categories and integrated into the text for easy comprehension. Similarly, the data on distribution of Mining Leases executed across the country have further been demarcated and classified into high, medium and low mineral-potential bearing districts to facilitate easy assimilation. Predominantly statistical, this publication is tailor-made to be a ready reckoner for policy makers, prospective entrepreneurs and other interested readers, who could at a glance formulate a perspective on the geographical spread of mineral availability in the country along with exact positions of distribution of Mining Leases of the various minerals produced to the last and precise detail.

Predominant portions of this publication owe their basis to the updated Directory of Mining Leases as on 31-3-2013, which in turn was compiled from the data supplied by the different State Governments under the statutory provision of Rule 57(2) of MCR, 1960. Insofar as prospecting licences/reconnaissance permits are concerned, the individual licence/permit deeds and the consolidated annual returns received under Rule 57(1) and (2) of MCR, 1960 for the same period have been utilised. Besides the above, the approval orders in case of reconnaissance permits were also used as sources of information.

Attempts have been made to restrict the contents of this publication exclusive to the subject of coverage and the premise for this intent is that this information could be vital and handy in planning and formulating new ventures, commissioning new projects that would

ultimately benefit mineral-based industries and would also stoke the underlying objective of encouraging judicious utilisation of mineral resources in the country.

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

Nagpur
Dated: 21.06.2014

K. Thomas
Controller General (In-charge)
Indian Bureau of Mines

Chapter 1

Introduction

India has a total geographical area of 328.73 million hectares. Of this, the mining lease area, except for fuel and atomic minerals, minor minerals constitutes around 0.15% (498,249 hectares). The position of mining leases as on 31.3.2013 reveals that there are as many as 11,104 mining leases (compared to 11,456 in the previous year) granted in the country by the State Governments covering 64 minerals (excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) with a total area of 498,249 hectares and spread over 23 States. These 64 minerals are broadly classified into metallic and non-metallic minerals. This bulletin highlights state wise, sector wise and district wise distribution of mining leases, frequency distribution of mining leases, prospecting licences and reconnaissance permits, etc. Though apparently negligible, the mining lease area of the country is considered as an important land use segment as it contributes to the economic growth of the country. Besides, it calls for environmental protection, as land under lease gets subjected to degradation during the process of mining activities.

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

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

framework/institutions that support the Indian Mining Sector which includes Geological Survey of India, Indian Bureau of Mines and State Directorates of Geology & Mining. In order to give effect to the direction envisioned in the new Mineral Policy, the Ministry of Mines has promulgated the review and refurbishing of the existing Act and has prepared the draft of the new Act, namely, Mines & Minerals (Development and Regulation) Bill, 2011 with the aim to develop the Mineral Sector of the country in a holistic manner. As per existing MMDR Act, 1957, the limit of maximum area under RP, PL and ML is 10,000 sq. km, 25 sq.km and 10 sq.km respectively in a State.

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

The above statements for the previous financial year are required to be submitted to Indian Bureau of Mines on or before 30th June each year by every State Government. From such information received from all the State Governments under statutory provisions, the information pertaining to mining leases and prospecting licences is compiled, processed and updated. These stored data is retrieved and made available for further requisite studies, analysis and for consumption of information seekers.

Chapter 2

Land Use Scenario

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

Sl. No.	Area/Segment	Total Area* (Million Ha.)	Percentage of Area
	Total Geographical Area	328.73	100
1	Net Area Sown (Crop Area)	141.58	43.07
2	Permanent Pastures & Grazing Land	10.3	3.13
3	Forest	70.01	21.30
4	Mining Lease Area**	0.5	0.15
5	Fallow Lands	24.59	7.48
6	Land Not Available for Cultivation	43.56	13.25
7	Other area	38.19	11.62

Source : Directorate of Economics & Statistics, Department of Agriculture & Cooperation, Pocket Book on Agricultural Statistics, 2013 ; * For year 2010-2011 ** As on 31/03/2013

The mining lease area constitutes around 498,249.33 hectares which is approximately 0.15% of the total geographical area. However, mining lease area, though a minuscule segment in the total land area, continues to be an important segment and an essential contributing factor to the economy of the country. At the same time, there is an imperative need to pay due attention to environment aspects as these land areas under mining leases are subjected to various processes of mining activity and are liable to degradation.

Chapter 3

Mining Leases

3.1 STATE WISE ANALYSIS

As per the Lease Directory as on 31.3.2013, there were 11,104 mining leases granted by State Governments for 64 different minerals, covering an area of 4,98,249.33 hectares in the country. States rich in minerals where maximum number of mining leases were granted are Rajasthan (29%) followed by Andhra Pradesh (18%), Madhya Pradesh & Gujarat (10% each), Tamil Nadu (8%), Karnataka (5%), Odisha (4%) and Goa, Chhattisgarh & Jharkhand (3% each). These ten States together account for about 93% of the total leases executed and the remaining thirteen States where such leases were executed accounted for about 7 percent of the total mining leases.

The maximum area in percentage covered under mining leases in different States are Rajasthan (21%) followed by Odisha (15%), Andhra Pradesh (14%), Karnataka (10%), Jharkhand & Madhya Pradesh (7% each), Gujarat (6%), Goa (5%), Chhattisgarh (4%) and Maharashtra (3%). These ten States account for about 92% of the total mining lease area granted and the remaining 8 percent was accounted for by the rest thirteen States.

The State wise mining lease distribution together with lease areas as well as state wise/ district wise distribution of mining leases as on 31.03.2013 are furnished in Tables - 1 to 4.

Table – 1: State wise Summary of Lease Distribution
As on 31.03.2013

State	No. of Leases	Percentage	Area (In Hect.)	Percentage
Andhra Pradesh	2001	18.02	68009.35	13.65
Assam	7	0.06	889.50	0.18
Bihar	9	0.08	1382.66	0.28
Chhattisgarh	308	2.77	22723.20	4.56
Goa	337	3.03	24522.12	4.92
Gujarat	1104	9.94	29607.04	5.94
Haryana	110	0.99	10974.99	2.20
Himachal Pradesh	45	0.41	2546.68	0.51
Jammu & Kashmir	57	0.51	2450.92	0.49
Jharkhand	294	2.65	35028.70	7.03
Karnataka	594	5.35	48841.60	9.80
Kerala	87	0.78	3071.82	0.62
Madhya Pradesh	1117	10.06	34455.74	6.92
Maharashtra	261	2.35	16061.86	3.22
Manipur	2	0.02	610.17	0.12
Meghalaya	18	0.16	606.19	0.12
Odisha	490	4.41	74694.74	14.99
Rajasthan	3185	28.68	106139.13	21.30
Sikkim	3	0.03	96.32	0.02
Tamil Nadu	924	8.32	9890.98	1.99
Uttar Pradesh	23	0.21	3964.70	0.80
Uttarakhand	86	0.77	1280.51	0.26
West Bengal	42	0.38	400.41	0.08
All India	**11104**	**100.00**	**498249.33**	**100.00**

Table – 2 : Mineral wise Summary of Lease Distribution
As on 31/03/2013

Sl. No.	Minerals	No. of Leases	Area (In Hect.)
1	Agate	3	59.62
2	Amethyst	4	10.63
3	Apatite	2	20.17
4	Asbestos	33	1566.25
5	Ball Clay	75	2744.59
6	Barytes	164	2541.54
7	Bauxite	337	30329.10
8	Borax	1	159.00
9	Calcite	90	1573.49
10	Chalk	156	639.79
11	China clay	516	15612.20
12	Chromite	35	9432.58
13	Clay (others)	99	1186.11
14	Copper Ore	16	9862.96
15	Corundum	11	66.62
16	Diamond	2	275.96
17	Diaspore	12	94.38
18	Dolomite	542	7536.87
19	Dunite	1	14.28
20	Epidote	2	10.00
21	Felsite	6	102.29
22	Feldspar	947	7271.79
23	Fireclay	248	5071.75
24	Flint Stone	2	11.87
25	Fluorite	16	1670.71
26	Garnet	100	1664.37
27	Garnet (Gem)	3	51.03

contd…

Table-2 (contd.)

Sl. No.	Minerals	No. of Leases	Area (In Hect.)
28	Gold	13	7186.41
29	Graphite	110	3762.07
30	Gypsum	106	19102.32
31	Iolite	11	104.35
32	Iron ore	774	93790.37
33	Jasper	5	211.70
34	Kyanite	32	3151.89
35	Laterite	193	2428.61
36	Lead & Zinc ore	14	7791.41
37	Lime Kankar	7	43.63
38	Limeshell	26	3985.54
39	Limestone	2013	155452.96
40	Magnesite	32	1923.81
41	Manganese ore	323	21745.52
42	Marl	2	9.15
43	Mica	264	5613.52
44	Moulding sand	40	904.18
45	Ochre	168	3290.09
46	Perlite	1	144.88
47	Phosphorite	15	2831.78
48	Pyrophyllite	94	1299.25
49	Pyroxenite	11	95.39
50	Quartz	2193	16506.59
51	Quartzite	83	1456.78
52	Ruby	6	130.00
53	Sand (others)	48	10026.07
54	Sapphire	1	673.40

contd…

Table-2 (concld.)

Sl. No.	Minerals	No. of Leases	Area (In Hect.)
55	Shale	45	566.22
56	Silica sand	475	14494.11
57	Sillimanite	6	2823.26
58	Slate	18	683.31
59	Steatite	476	15355.65
60	Tin	15	320.95
61	Vermiculite	15	259.64
62	White clay	25	210.92
63	White shale	14	71.63
64	Wollastonite	7	222.02
	Total	**11104**	**498249.33**

Table – 3 : State wise/Mineral wise Distribution of Mining Lease
As on 31.3.2013

State	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh	Amethyst	4	10.63
	Apatite	1	16.12
	Asbestos	5	227.77
	Ball Clay	24	190.07
	Barytes	155	2404.36
	Calcite	9	77.81
	China Clay	35	536.35
	Clay (Others)	12	289.43
	Corundum	5	19.57
	Dolomite	151	2620.03
	Feldspar	30	704.20
	Fireclay	29	101.53
	Garnet	11	844.10
	Gold	3	434.02
	Iron ore	67	2497.80
	Laterite	116	1108.66
	Lead & Zinc ore	2	215.89
	Lime kankar	6	35.89
	Limeshell	4	87.63
	Limestone	262	32502.17
	Manganese ore	49	1434.20
	Mica	118	1942.23
	Moulding sand	1	13.19
	Ochre	28	301.38
	Pyrophyllite	11	460.11
	Quartz	521	5850.26

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh (Concld.)	Quartzite	39	779.16
	Sand (others)	15	8092.82
	Shale	15	296.91
	Silica sand	127	2280.86
	Slate	15	504.12
	Steatite	98	821.94
	Vermiculite	8	134.71
	White clay	11	101.80
	White shale	14	71.63
	Total	**2001**	**68009.35**
Assam	Limestone	7	889.50
	Total	**7**	**889.50**
Bihar	Limestone	6	166.06
	Mica	2	1196.8
	Quartz	1	19.8
	Total	**9**	**1382.66**
Chhattisgarh	Bauxite	26	5399.90
	China clay	1	2.29
	Corundum	3	30.95
	Dolomite	82	549.39
	Fireclay	4	7.77
	Graphite	1	67.11
	Iron ore	17	7820.19
	Limestone	122	8355.22

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Chhattisgarh (concld.)	Moulding sand	6	33.65
	Ochre	1	10.12
	Quartz	11	36.39
	Quartzite	13	91.28
	Steatite	3	6.62
	Tin	14	300.10
	White shale	4	12.22
	Total	**308**	**22723.20**
Goa	Bauxite	3	1304.58
	Iron ore	287	20466.40
	Manganese ore	47	2751.14
	Total	**337**	**24522.12**
Gujarat	Agate	1	4.64
	Ball clay	6	197.86
	Bauxite	148	5541.35
	Calcite	4	10.33
	Chalk	156	639.79
	China clay	115	1201.58
	Clay (others)	81	772.76
	Copper ore	1	832.00
	Dolomite	79	952.86
	Feldspar	1	1.00
	Fireclay	62	270.47
	Fluorite	2	63.20
	Gypsum	7	86.87

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Gujarat (concld.)	Laterite	5	617.5
	Limestone	300	16870.74
	Manganese ore	1	2.95
	Marl	2	9.15
	Moulding sand	3	5.82
	Ochre	5	47.29
	Perlite	1	144.88
	Quartz	38	251.25
	Silica sand	77	1030.51
	Steatite	4	13.67
	Vermiculite	1	23.20
	White clay	4	15.37
	Total	**1104**	**29607.04**
Haryana	Barytes	1	79.32
	Calcite	2	158.56
	China clay	39	3438.99
	Dolomite	2	252.15
	Feldspar	1	128.95
	Limestone	7	109.46
	Mica	1	400.00
	Quartz	14	675.14
	Quartzite	4	68.24
	Silica sand	37	5540.48
	Slate	2	123.7
	Total	**110**	**10974.99**

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Himachal Pradesh	Barytes	3	8.42
	Limestone	41	2533.38
	Quartzite	1	4.88
	Total	**45**	**2546.68**
Jammu & Kashmir	Borax	1	159.00
	China clay	1	14.70
	Gypsum	21	423.74
	Limestone	32	694.78
	Magnesite	1	485.30
	Sapphire	1	673.40
	Total	**57**	**2450.92**
Jharkhand	Bauxite	45	4325.82
	China clay	29	1731.08
	Copper ore	4	6417.09
	Dolomite	3	197.94
	Feldspar	13	110.85
	Fireclay	16	779.76
	Flint Stone	2	11.87
	Gold	1	19.50
	Graphite	18	970.77
	Iron ore	52	12532.53
	Kyanite	10	2658.27
	Limestone	45	4151.49
	Ochre	1	5.62
	Pyrophyllite	1	8.84

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Jharkhand (concld.)	Pyroxenite	11	95.39
	Quartz	22	254.34
	Quartzite	3	28.23
	Sand (others)	13	665.04
	Steatite	5	64.27
	Total	**294**	**35028.70**
Karnataka	Bauxite	5	370.02
	China clay	14	855.08
	Chromite	6	1306.39
	Copper ore	2	416.83
	Corundum	2	12.14
	Dolomite	20	390.90
	Felsite	6	102.29
	Feldspar	4	132.86
	Fireclay	4	159.07
	Gold	8	6299.79
	Graphite	4	235.03
	Iron ore	159	16061.04
	Kyanite	6	45.54
	Laterite	4	102.08
	Lime kankar	1	7.74
	Limeshell	15	1442.71
	Limestone	136	14483.09
	Magnesite	9	163.83

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Karnataka (concld.)	Manganese ore	66	4252.23
	Moulding sand	26	797.09
	Quartz	53	585.63
	Quartzite	2	8.09
	Ruby	3	9.2
	Silica sand	31	367.79
	Steatite	6	226.83
	Vermiculite	2	8.31
	Total	**594**	**48841.60**
Kerala	Bauxite	2	0.72
	China clay	30	96.67
	Graphite	1	1.25
	Iron ore	1	86.06
	Laterite	8	31.78
	Limeshell	6	2450.59
	Quartz	2	6.82
	Silica sand	33	43.36
	Sillimanite	4	354.57
	Total	**87**	**3071.82**
Madhya Pradesh	Barytes	2	5.37
	Bauxite	63	1342.06
	Calcite	28	69.05
	China clay	19	174.01
	Clay (others)	5	119.25

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh (concld.)	Copper ore	2	479.9
	Diamond	2	275.96
	Diaspore	12	94.38
	Dolomite	177	892.82
	Fireclay	40	331.77
	Iron ore	20	256.58
	Laterite	55	467.42
	Lead & Zinc ore	2	12.77
	Limestone	424	25808.06
	Manganese ore	69	1736.02
	Ochre	76	1402.8
	Phosphorite	5	150.67
	Pyrophyllite	52	277.43
	Quartz	7	45.37
	Quartzite	1	6.10
	Sand (others)	3	20.10
	Shale	27	226.92
	Silica sand	4	3.32
	Slate	1	55.49
	Steatite	16	115.44
	Vermiculite	2	27.49
	White clay	3	59.19
	Total	**1117**	**34455.74**
Maharashtra	Agate	2	54.98
	Bauxite	33	4954.19
	China clay	1	13.18
	Chromite	1	16.22

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Maharashtra	Corundum	1	3.96
	Dolomite	17	284.23
	Feldspar	2	53.65
	Fireclay	4	35.11
	Fluorite	1	32.7
	Iron ore	26	1177.22
	Kyanite	12	238.59
	Laterite	5	101.17
	Limestone	53	5539.93
	Manganese ore	42	1026.65
	Mica	1	42.06
	Moulding sand	1	47.02
	Quartz	9	83.20
	Sand (others)	12	745.24
	Shale	1	32.49
	Silica sand	34	1557.73
	White clay	3	22.34
	Total	**261**	**16061.86**
Manipur	Chromite	2	610.17
	Total	**2**	**610.17**
Meghalaya	Limestone	16	596.65
	Shale	1	4.90
	Sillimanite	1	4.64
	Total	**18**	**606.19**

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Odisha	Asbestos	2	166.57
	Bauxite	8	6673.47
	China clay	15	1323.96
	Chromite	26	7499.80
	Dolomite	5	523.63
	Dunite	1	14.28
	Fireclay	17	1605.62
	Garnet (Gems)	2	46.03
	Graphite	78	2086.64
	Iolite	11	104.35
	Iron ore	129	31109.44
	Kyanite	1	55.49
	Lead & zinc ore	1	5.26
	Limestone	42	7760.12
	Manganese ore	48	10523.43
	Pyrophyllite	5	231.22
	Quartz	63	1101.74
	Quartzite	18	461.19
	Ruby	3	120.80
	Sand (others)	5	502.87
	Silica sand	1	17.45
	Sillimanite	1	2464.05
	Steatite	7	276.48
	Tin	1	20.85
	Total	**490**	**74694.74**
Rajasthan	Asbestos	26	1171.91
	Ball clay	45	2356.66

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Rajasthan	Barytes	3	44.07
	Calcite	47	1257.74
	China clay	197	5898.45
	Clay (others)	1	4.67
	Copper Ore	4	1620.82
	Dolomite	5	202.35
	Epidote	2	10.00
	Feldspar	896	6140.28
	Fireclay	21	1656.55
	Fluorite	13	1574.81
	Garnet	9	44.14
	Garnet (Gem)	1	5.00
	Gold	1	433.10
	Graphite	1	123.75
	Gypsum	65	18557.04
	Iron ore	16	1783.11
	Jasper	5	211.7
	Kyanite	3	154.00
	Lead & Zinc ore	9	7557.49
	Limestone	75	25154.36
	Magnesite	3	15.00
	Manganese ore	1	18.90
	Mica	142	2032.43
	Ochre	56	1517.11
	Phosphorite	9	2667.64
	Pyrophyllite	10	141.39
	Quartz	1159	7056.86
	Quartzite	1	4.91
	Shale	1	5.00

contd…

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In Hect.)
Rajasthan (concld.)	Silica sand	96	3520.06
	Steatite	254	12933.59
	Vermiculite	1	42.22
	Wollastonite	7	222.02
	Total	**3185**	**106139.13**
Sikkim	Copper ore	3	96.32
	Total	**3**	**96.32**
Tamil Nadu	Apatite	1	4.05
	Bauxite	4	416.99
	Fireclay	46	109.56
	Garnet	80	776.13
	Graphite	7	277.52
	Gypsum	13	34.67
	Limeshell	1	4.61
	Limestone	435	6728.01
	Magnesite	15	888.15
	Quartz	283	513.75
	Silica sand	31	88.69
	Steatite	7	25.14
	Vermiculite	1	23.71
	Total	**924**	**9890.98**

contd…

Table-3 (concld.)

State	Minerals	No. of Leases	Area (In Hect.)
Uttar Pradesh	Dolomite	1	670.57
	Limestone	4	3072.63
	Pyrophyllite	15	180.26
	Silica sand	3	41.24
	Total	**23**	**3964.70**
Uttarakhand	Limestone	6	37.31
	Magnesite	4	371.53
	Steatite	76	871.67
	Total	**86**	**1280.51**
West Bengal	China clay	20	325.86
	Fireclay	5	14.54
	Moulding sand	3	7.41
	Ochre	1	5.77
	Phosphorite	1	13.47
	Quartz	10	26.04
	Quartzite	1	4.7
	Silica sand	1	2.62
	Total	**42**	**400.41**

Table-4 : State wise/District wise /Mineral wise Distribution of Mining Leases As on 31.3.2013

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh	**Adilabad**	China clay	7	38.19
		Laterite	3	13.24
		Limestone	11	2382.67
		Manganese ore	14	731.93
		Quartz	2	9.40
		Sand (others)	4	7297.93
		White clay	7	75.42
		Total	**48**	**10548.78**
	Anantapur	Barytes	3	12.96
		Calcite	1	4.68
		China clay	2	12.17
		Corundum	1	2.10
		Dolomite	63	890.91
		Feldspar	4	74.55
		Gold	1	168.43
		Iron ore	8	196.59
		Limestone	27	1500.07
		Ochre	3	22.11
		Pyrophyllite	3	217.17
		Quartz	27	432.23
		Shale	1	3.16
		Steatite	32	366.21
		Total	**176**	**3903.34**
	Chittoor	China clay	2	22.65
		Feldspar	1	3.78
		Gold	2	265.59
		Pyrophyllite	3	20.73
		Quartz	14	130.76
		Quartzite	1	15.34
		Steatite	1	1.53

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh (contd.)	**Chittoor** (concld.)	White shale	1	6.68
		Total	**25**	**467.06**
	Cuddapah	Asbestos	5	227.77
		Barytes	127	1795.49
		China clay	5	390.04
		Clay (others)	10	281.81
		Dolomite	19	689.43
		Feldspar	15	413.23
		Iron ore	11	1012.25
		Laterite	1	28.07
		Lead & Zinc ore	1	15.89
		Limestone	23	3068.48
		Ochre	12	98.42
		Pyrophyllite	5	222.21
		Quartz	15	277.00
		Quartzite	5	209.06
		Shale	7	83.60
		Silica sand	1	18.70
		Steatite	2	40.13
		Total	**264**	**8871.58**
	Godavari East	China clay	13	24.23
		Fireclay	23	59.40
		Laterite	24	334.30
		Total	**60**	**417.93**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh (contd.)	**Godavari West**	Ball clay	24	190.07
		China clay	2	7.51
		Fireclay	3	34.03
		Quartz	6	76.64
		Total	**35**	**308.25**
	Guntur	Laterite	1	1.97
		Lead & Zinc ore	1	200.00
		Limestone	34	5889.50
		Quartz	13	162.02
		Slate	1	19.61
		White clay	2	13.61
		White shale	1	33.01
		Total	**53**	**6319.72**
	Karimnagar	Iron ore	2	4.00
		Limestone	1	122.28
		Quartz	2	27.51
		Sand (others)	5	601.71
		Silica sand	1	10.00
		Total	**11**	**765.50**
	Khammam	Barytes	5	304.13
		Corundum	4	17.47
		Dolomite	11	540.41
		Feldspar	3	75.25
		Garnet	4	19.94
		Iron ore	6	53.26

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh (contd.)	**Khammam** (concld.)	Laterite	1	4.61
		Mica	1	21.85
		Quartz	17	45.46
		Sand (others)	3	89.85
		Total	**55**	**1172.23**
	Krishna	Iron ore	5	25.26
		Limestone	15	3220.30
		Quartz	9	22.07
		Total	**29**	**3267.63**
	Kurnool	Barytes	5	36.92
		China clay	1	12.14
		Dolomite	56	490.99
		Iron ore	28	438.40
		Limestone	108	9493.46
		Ochre	13	180.85
		Quartz	17	179.21
		Quartzite	4	34.72
		Shale	4	16.99
		Silica sand	37	1027.37
		Steatite	62	411.57
		White shale	12	31.94
		Total	**347**	**12354.56**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh (contd.)	**Mahbubnagar**	Feldspar	3	44.65
		Limestone	1	173.64
		Quartz	136	865.77
		Steatite	1	2.50
		Total	**141**	**1086.56**
	Medak	Laterite	10	56.70
		Quartz	27	178.72
		Total	**37**	**235.42**
	Nalgonda	Amethyst	1	4.94
		Laterite	7	20.59
		Limestone	37	5434.63
		Quartz	22	151.69
		Shale	2	60.04
		Total	**69**	**5671.89**
	Nellore	Barytes	4	49.56
		Feldspar	4	92.74
		Iron ore	2	222.21
		Laterite	13	72.86
		Limeshell	3	83.63
		Mica	114	1914.06
		Moulding sand	1	13.19
		Quartz	93	1166.16
		Silica sand	74	1202.51
		Vermiculite	8	134.71
		Total	**316**	**4951.63**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh (contd.)	**Nizamabad**	Amethyst	1	4.00
		Iron ore	1	6.68
		Laterite	4	47.71
		Quartz	6	20.58
		Total	**12**	**78.97**
	Prakasam	Barytes	11	205.30
		Garnet	4	4.71
		Iron ore	4	539.15
		Quartz	71	1712.77
		Silica sand	13	14.78
		Slate	14	484.51
		Total	**117**	**2961.22**
	Rangareddi	Amethyst	2	1.69
		Clay (others)	2	7.62
		Fireclay	2	8.10
		Laterite	22	263.57
		Limestone	5	1217.14
		Quartz	26	168.15
		Shale	1	133.12
		Total	**60**	**1799.39**
	Srikakulam	Garnet	2	815.08
		Lime kankar	2	10.98
		Limeshell	1	4.00
		Quartz	2	10.91
		Quartzite	5	99.84
		Silica sand	1	7.50
		Total	**13**	**948.31**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Andhra Pradesh	**Visakhapatnam**	Apatite	1	16.12
(concld.)		Calcite	8	73.13
		China clay	3	29.42
		Garnet	1	4.37
		Laterite	6	67.43
		Mica	3	6.32
		Quartz	7	111.53
		White clay	2	12.77
		Total	**31**	**321.09**
	Vizianagaram	Lime kankar	4	24.91
		Manganese ore	35	702.27
		Quartz	8	90.61
		Quartzite	24	420.20
		Sand (others)	3	103.33
		Total	**74**	**1341.32**
	Warangal	Dolomite	2	8.29
		Laterite	25	197.61
		Quartz	1	11.07
		Total	**28**	**216.97**
Assam	**Karbi Anglong**	Limestone	1	171.00
		Total	**1**	**171.00**
	North Cachar Hills	Limestone	6	718.50
		Total	**6**	**718.50**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Bihar	**Nawada**	Mica	2	1196.80
		Total	**2**	**1196.80**
	Rohtas	Limestone	6	166.06
		Total	**6**	**166.06**
	Supaul	Quartz	**1**	**19.80**
		Total	**1**	**19.80**
Chhattisgarh	**Balod**	Iron ore	**4**	**2562.69**
		Total	**4**	**2562.69**
	Baloda Bazar	Dolomite	2	17.59
		Limestone	24	5168.26
		Total	**26**	**5185.85**
	Balrampur	Bauxite	3	3742.63
		Graphite	1	67.11
		Total	**4**	**3809.74**
	Bastar	Limestone	19	57.95
		Total	**19**	**57.95**
	Bemetara	Dolomite	27	124.46
		Limestone	1	17.90
		Total	**28**	**142.36**
	Bijapur	Corundum	1	3.70
		Total	**1**	**3.70**
	Bilaspur	Dolomite	33	266.71
		Limestone	1	582.96
		Total	**34**	**849.67**
	Dantewara	Iron ore	6	2696.21
		Tin	8	116.14
		Total	**14**	**2812.35**
	Durg	Limestone	45	1345.65

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Chhattisgarh	**Durg** (concld.)	Moulding sand	3	12.12
(contd.)		Quartzite	3	24.08
		Total	**51**	**1381.85**
	Janjgir-Champa	Dolomite	10	96.37
		Limestone	3	713.33
		Total	**13**	**809.70**
	Jashpur	Bauxite	2	40.61
		Quartz	2	4.36
		Total	**4**	**44.97**
	Kabirdham	Bauxite	3	669.64
		Limestone	4	21.59
		Total	**7**	**691.23**
	Kanker	Bauxite	3	13.22
		Iron ore	4	2178.33
		Moulding sand	1	13.84
		Steatite	3	6.62
		Total	**11**	**2212.01**
	Kondagaon	Bauxite	2	27.28
		Total	**2**	**27.28**
	Korba	Fireclay	2	2.05
		Total	**2**	**2.05**
	Mahasamund	Fireclay	1	0.77
		Quartz	6	13.50
		Total	**7**	**14.27**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Chhattisgarh (contd.)	**Narayanpur**	Iron ore	1	192.25
		Total	**1**	**192.25**
	Raigarh	Dolomite	10	44.26
		Fireclay	1	4.95
		Limestone	5	17.20
		Quartzite	2	26.40
		Total	**18**	**92.81**
	Raipur	Limestone	19	425.73
		Total	**19**	**425.73**
	Rajnandgaon	China clay	1	2.29
		Iron ore	2	190.71
		Limestone	1	4.65
		Moulding sand	2	7.69
		Ochre	1	10.12
		Quartz	3	18.53
		Quartzite	8	40.80
		White clay	4	12.22
		Total	**22**	**287.01**
	Sukma	Corundum	2	27.25
		Tin	6	183.96
		Total	**8**	**211.21**
	Surguja	Bauxite	13	906.52
		Total	**13**	**906.52**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Goa	**North Goa**	Iron ore	87	6522.55
		Manganese ore	13	701.95
		Total	**100**	**7224.50**
	South Goa	Bauxite	3	1304.58
		Iron ore	200	13943.85
		Manganese ore	34	2049.19
		Total	**237**	**17297.62**
Gujarat	**Amreli**	Bauxite	2	147.99
		China clay	1	3.01
		Clay (others)	1	88.54
		Limestone	5	1864.76
		Total	**9**	**2104.30**
	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	25	593.96
		Total	**27**	**782.47**
	Bhavnagar	Chalk	1	12.00
		Clay (others)	1	9.71
		Dolomite	4	67.99
		Limestone	1	20.00
		Moulding sand	1	2.80
		Total	**8**	**112.50**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Gujarat	**Dahod**	Quartz	6	43.52
(contd.)		**Total**	**6**	**43.52**
	Jamnagar	Bauxite	109	3129.79
		Chalk	12	41.55
		Clay (others)	3	28.78
		Limestone	55	2081.94
		Marl	2	9.15
		Ochre	1	20.23
		Total	**182**	**5311.44**
	Junagarh	Limestone	104	3599.22
		Total	**104**	**3599.22**
	Kheda	Bauxite	14	64.17
		Quartz	5	19.27
		Total	**19**	**83.44**
	Kachchh	Ball clay	4	8.50
		Bauxite	11	2049.46
		China clay	94	612.00
		Clay (others)	69	534.12
		Fireclay	1	3.00
		Gypsum	5	83.63

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Gujarat (contd.)	**Kachchh** (concld.)	Laterite	4	526.97
		Limestone	9	5741.88
		Ochre	1	4.00
		Silica sand	8	185.41
		White clay	1	5.00
		Total	**207**	**9753.97**
	Mehesana	China clay	12	192.40
		Total	**12**	**192.40**
	Panchmahals	Limestone	1	0.49
		Manganese ore	1	2.95
		Quartz	27	188.46
		Sillica Sand	1	5.00
		Total	**30**	**196.90**
	Patan	Ball clay	1	5.49
		China clay	1	36.22
		Clay (others)	5	103.82
		Ochre	3	23.06
		White clay	3	10.37
		Total	**13**	**178.96**
	Porbandar	Bauxite	6	112.39
		Chalk	118	499.64
		Laterite	1	90.53
		Limestone	118	2486.24
		Total	**243**	**3188.80**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Gujarat	**Rajkot**	Chalk	25	86.60
(contd.)		Fireclay	21	88.59
		Gypsum	2	3.24
		Limestone	2	8.00
		Perlite	1	144.88
		Silica sand	3	12.50
		Total	**54**	**343.81**
	Sabarkantha	Bauxite	6	37.55
		Calcite	3	6.57
		China clay	7	357.95
		Feldspar	1	1.00
		Fireclay	4	8.05
		Limestone	2	2.53
		Silica sand	12	72.54
		Steatite	4	13.67
		Total	**39**	**499.86**
	Surat	Limestone	2	1044.44
		Silica sand	1	6.52
		Total	**3**	**1050.96**
	Surendranagar	Clay (others)	2	7.79
		Fireclay	36	170.83
		Moulding sand	2	3.02
		Silica sand	27	154.58
		Total	**67**	**336.22**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Gujarat	**Vadodara**	Dolomite	75	884.87
(concld.)		Fluorite	2	63.20
		Vermiculite	1	23.20
		Total	**78**	**971.27**
Haryana	**Faridabad**	China clay	2	267.87
		Silica sand	22	4492.97
		Total	**24**	**4760.84**
	Gurgaon	China clay	37	3171.12
		Quartz	4	97.94
		Quartzite	2	47.78
		Silica sand	15	1047.51
		Total	**58**	**4364.35**
	Mahendragarh	Barytes	1	79.32
		Calcite	2	158.56
		Dolomite	2	252.15
		Feldspar	1	128.95
		Limestone	7	109.46
		Mica	1	400.00
		Quartz	10	577.20
		Slate	1	81.35
		Total	**25**	**1786.99**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Haryana	**Rewari**	Quartzite	2	20.46
(concld.)		Slate	1	42.35
		Total	**3**	**62.81**
Himachal Pradesh	**Bilaspur**	Limestone	1	231.25
		Quartzite	1	4.88
		Total	**2**	**236.13**
	Mandi	Limestone	1	725.86
		Total	**1**	**725.86**
	Sirmur	Barytes	3	8.42
		Limestone	36	493.77
		Total	**39**	**502.19**
	Solan	Limestone	3	1082.50
		Total	**3**	**1082.50**
Jammu & Kashmir	**Anantnag**	Limestone	22	216.15
		Total	**22**	**216.15**
	Baramula	Gypsum	13	65.45
		Total	**13**	**65.45**
	Doda	Gypsum	5	105.13
		Total	**5**	**105.13**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Jammu & Kashmir	**Kishtwar**	Sapphire	1	673.40
(concld.)		**Total**	**1**	**673.40**
	Leh	Borax	1	159.00
		Total	**1**	**159.00**
	Poonch	Limestone	1	15.89
		Total	**1**	**15.89**
	Pulwama	Limestone	7	240.53
		Total	**7**	**240.53**
	Ramban	Gypsum	3	253.16
		Total	**3**	**253.16**
	Reasi	Magnesite	1	485.30
		Total	**1**	**485.30**
	Srinagar	Limestone	2	222.21
		Total	**2**	**222.21**
	Udhampur	China clay	1	14.70
		Total	**1**	**14.70**
Jharkhand	**Bokaro**	Limestone	1	17.36
		Sand (others)	2	81.03
		Total	**3**	**98.39**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Jharkhand	**Deoghar**	Feldspar	1	2.02
(contd.)		Quartz	1	5.95
		Total	**2**	**7.97**
	Dhanbad	Fireclay	4	93.41
		Sand (others)	11	584.01
		Total	**15**	**677.42**
	Garwah	Dolomite	1	118.69
		Limestone	3	1178.92
		Total	**4**	**1297.61**
	Giridih	Feldspar	2	13.97
		Quartz	2	4.80
		Total	**4**	**18.77**
	Godda	Feldspar	1	18.82
		Total	**1**	**18.82**
	Gumla	Bauxite	27	3065.94
		Total	**27**	**3065.94**

contd…

Table-4 (contd.)

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

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Jharkhand (contd.)	**Palamau** (concld.)	Limestone	1	1043.43
		Steatite	1	4.77
		Total	**27**	**2168.99**
	Ramgarh	Limestone	5	109.66
		Total	**5**	**109.66**
	Ranchi	China clay	1	6.79
		Feldspar	2	42.44
		Limestone	4	1288.72
		Total	**7**	**1337.95**
	Sahebganj	China clay	12	227.59
		Flint Stone	02	11.87
		Total	**14**	**239.46**
	Saraikela-Kharaswan	Kyanite	4	800.86
		Pyrophyllite	1	8.84
		Pyroxenite	3	25.84
		Quartz	5	62.73
		Steatite	1	31.36
		Total	**14**	**929.63**
	Singhbhum (East)	Copper ore	4	6417.09
		Gold	1	19.50
		Kyanite	1	2.43
		Limestone	23	373.83
		Total	**29**	**6812.85**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Jharkhand	**Singhbhum (West)**	China clay	16	1496.70
(concld.)		Iron ore	45	12413.57
		Kyanite	5	1854.98
		Limestone	6	54.72
		Ochre	1	5.62
		Pyroxenite	8	69.55
		Quartz	1	2.02
		Quartzite	3	28.23
		Steatite	2	27.06
		Total	**87**	**15952.45**
Karnataka	**Bagalkot**	Dolomite	14	301.84
		Iron ore	3	74.84
		Limestone	84	5534.05
		Quartz	1	4.05
		Total	**102**	**5914.78**
	Bengaluru	China clay	1	48.56
		Corundum	2	12.14
		Feldspar	3	130.30
		Fireclay	1	2.02
		Ruby	1	4.07
		Total	**8**	**197.09**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Karnataka	**Belgaum**	Bauxite	5	370.02
(contd.)		China clay	3	74.22
		Dolomite	4	15.87
		Iron ore	1	20.23
		Laterite	3	100.06
		Limestone	18	1555.99
		Manganese ore	1	40.47
		Moulding sand	3	32.57
		Quartz	1	0.81
		Quartzite	2	8.09
		Silica sand	2	8.96
		Total	**43**	**2226.29**
	Bellary	Iron ore	114	9524.42
		Manganese ore	9	550.65
		Moulding sand	1	4.04
		Quartz	7	63.80
		Steatite	1	1.30
		Total	**132**	**10144.21**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Karnataka	**Chickballapura**	China clay	4	352.91
(contd.)		Feldspar	1	2.56
		Fireclay	2	34.39
		Laterite	1	2.02
		Quartz	2	65.46
		Total	**10**	**457.34**
	Chikmagalur	Dolomite	1	4.45
		Iron ore	2	4610.31
		Quartz	1	7.41
		Total	**4**	**4622.17**
	Chitradurga	Copper ore	2	416.83
		Iron ore	19	689.10
		Limestone	14	1623.13
		Manganese ore	27	1143.66
		Quartz	7	174.03
		Total	**67**	**4046.75**

contd…

Table-4 (contd..)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Karnataka	**Dawangere**	Iron ore	1	38.44
(concld.)		Manganese ore	3	77.49
		Moulding sand	5	165.51
		Quartz	3	26.31
		Total	**12**	**307.75**
	Dharwar	Iron ore	3	150.95
		Total	**3**	**150.95**
	Gadag	Iron ore	1	39.42
		Quartz	2	9.71
		Total	**3**	**49.13**
	Gulbarga	Gold	1	55.75
		Lime kankar	1	7.74
		Limestone	13	4960.96
		Moulding sand	5	215.81
		Quartz	2	32.29
		Total	**22**	**5272.55**
	Hassan	China clay	2	311.81
		Chromite	6	1306.39
		Kyanite	1	2.93
		Quartz	3	20.27
		Steatite	2	170.93
		Total	**14**	**1812.33**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Karnataka	**Haveri**	Moulding sand	12	380.16
(contd.)		**Total**	**12**	**380.16**
	Kolar	Gold	1	5213.21
		Total	**1**	**5213.21**
	Koppal	Quartz	9	84.96
		Total	**9**	**84.96**
	Mandya	Felsite	2	2.88
		Quartz	3	23.09
		Ruby	1	1.64
		Total	**6**	**27.61**
	Mysore	Felsite	4	99.41
		Graphite	4	235.03
		Kyanite	5	42.61
		Limestone	1	20.23
		Magnesite	9	163.83
		Quartz	2	4.98
		Ruby	1	3.49
		Vermiculite	2	8.31
		Total	**28**	**577.89**

contd…

Table-4 (contd..)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Karnataka	**North Kannada**	Iron ore	5	463.48
(concld.)	**(Uttar Kannada)**	Limeshell	12	1134.74
		Manganese ore	9	870.29
		Quartz	1	1.82
		Silica sand	11	87.41
		Total	**38**	**2557.74**
	Raichur	Gold	5	992.79
		Quartz	1	4.86
		Total	**6**	**997.65**
	Shimoga	China clay	2	21.85
		Iron ore	1	7.29
		Limestone	1	40.12
		Manganese ore	2	543.60
		Total	**6**	**612.86**
	South Kannada	Limeshell	1	51.80
	(Dakshina	Quartz	1	1.95
	Kannada)	Silica sand	4	40.28
		Total	**6**	**94.03**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Karnataka	**Tumkur**	China clay	2	45.73
		Dolomite	1	68.74
(concld.)		Fireclay	1	122.66
		Gold	1	38.04
		Iron ore	11	442.56
		Limestone	5	748.61
		Manganese ore	15	1026.07
		Quartz	7	59.83
		Steatite	3	54.60
		Total	**46**	**2606.84**
	Udupi	Limeshell	2	256.17
		Silica sand	14	231.14
		Total	**16**	**487.31**
Kerala	**Alappuzha**	Laterite	1	1.13
	(Alleppey)	Limeshell	3	759.90
		Silica sand	33	43.36
		Total	**37**	**804.39**
	Ernakulam	Graphite	1	1.25
		Total	**1**	**1.25**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Kerala	**Idukki (Iddiki)**	Quartz	1	4.80
(concld.)		**Total**	**1**	**4.80**
	Kannur	Laterite	6	10.41
		Total	**6**	**10.41**
	Kasargod	Laterite	1	20.24
		Total	**1**	**20.24**
	Kollam	Bauxite	2	0.72
		China clay	2	7.85
		Sillimanite	4	354.57
		Total	**8**	**363.14**
	Kottayam	Limeshell	2	1445.00
		Total	**2**	**1445.00**
	Kozhikode	Iron ore	1	86.06
		Quartz	1	2.02
		Total	**2**	**88.08**
	Palakkad	Limeshell	1	245.69
		Total	**1**	**245.69**
	Thiruvananthapuram	China clay	28	88.82
		Total	**28**	**88.82**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh	**Alirajpur**	Calcite	3	13.44
		Dolomite	32	188.55
		Limestone	1	2.15
		Steatite	1	3.59
		Vermiculite	2	27.49
		Total	**39**	**235.22**
	Anuppur	Bauxite	3	170.82
		Ochre	1	8.10
		Total	**4**	**178.92**
	Badwani	Calcite	25	55.61
		Total	**25**	**55.61**
	Balaghat	Bauxite	1	40.46
		Copper ore	2	479.90
		Dolomite	17	128.93
		Fireclay	1	2.41
		Iron ore	2	9.90
		Limestone	8	79.65
		Manganese ore	50	1527.40
		Ochre	1	16.18
		Sand (others)	2	18.08
		Total	**84**	**2302.91**
	Betul	Lead & Zinc ore	2	12.77
		White clay	1	39.84
		Total	**3**	**52.61**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh	**Chhatarpur**	China clay	2	20.12
(contd.)		Diaspore	7	40.10
		Dolomite	2	17.28
		Limestone	2	4.91
		Ochre	4	23.61
		Phosphorite	1	48.76
		Pyrophyllite	21	81.73
		Quartzite	1	6.10
		Steatite	2	10.36
		Total	**42**	**252.97**
	Chhindwara	Dolomite	9	60.63
		Manganese ore	11	141.63
		Total	**20**	**202.26**
	Damoh	Laterite	1	21.25
		Limestone	10	1496.36
		Sand (others)	1	2.02
		Total	**12**	**1519.63**
	Datia	Quartz	2	14.09
		Total	**2**	**14.09**
	Dewas	Barytes	1	3.35
		Total	**1**	**3.35**
	Dhar	Limestone	39	2343.76
		Ochre	1	6.31
		Total	**40**	**2350.07**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh	**Gwalior**	China clay	1	20.63
(contd.)		Iron ore	3	19.90
		Laterite	1	4.84
		Quartz	1	1.30
		Total	**6**	**46.67**
	Jabalpur	Bauxite	5	30.15
		Dolomite	29	150.80
		Fireclay	17	116.16
		Iron ore	14	214.19
		Laterite	15	111.42
		Limestone	12	1080.91
		Manganese ore	5	27.32
		Ochre	5	23.64
		Quartz	2	13.98
		Silica sand	1	0.60
		Steatite	3	43.34
		White clay	1	18.66
		Total	**109**	**1831.17**
	Jhabua	Dolomite	5	24.02
		Manganese ore	3	39.67
		Phosphorite	3	49.11
		Total	**11**	**112.80**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh	**Katni**	Bauxite	11	105.26
(contd.)		Dolomite	23	137.76
		Fireclay	16	160.83
		Iron ore	1	12.59
		Laterite	3	16.07
		Limestone	94	3175.34
		Ochre	5	14.13
		Steatite	3	27.45
		Total	**156**	**3649.43**
	Khargaon	China clay	1	0.61
		Dolomite	1	4.04
		Limestone	2	4.89
		Silica sand	3	2.72
		Total	**7**	**12.26**
	Mandla	Dolomite	40	124.04
		Total	**40**	**124.04**
	Mandsaur	Laterite	11	61.12
		Shale	27	226.92
		Slate	1	55.49
		Total	**39**	**343.53**
	Morena	Limestone	1	18.00
		Total	**1**	**18.00**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh	**Narasinhapur**	Dolomite	5	14.10
(contd.)		Fireclay	1	20.00
		Limestone	2	35.06
		Steatite	7	30.70
		Total	**15**	**99.86**
	Nimach	Laterite	5	53.28
		Limestone	7	1339.94
		Total	**12**	**1393.22**
	Panna	Diamond	2	275.96
		Limestone	1	48.39
		Total	**3**	**324.35**
	Rewa	Bauxite	12	147.61
		Limestone	19	1867.18
		Ochre	3	47.37
		Total	**34**	**2062.16**
	Sagar	Dolomite	2	20.36
		Phosphorite	1	52.80
		Pyrophyllite	2	3.21
		Total	**5**	**76.37**
	Satna	Bauxite	29	344.09
		China clay	11	100.57
		Clay (others)	5	119.25
		Laterite	18	181.70

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh	**Satna** (concld.)	Limestone	214	13300.27
(contd.)		Ochre	45	1064.78
		White clay	1	0.69
		Total	**323**	**15111.35**
	Seoni	Dolomite	12	22.31
		Total	**12**	**22.31**
	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
		Pyrophylite	1	17.00
		Total	**2**	**34.00**
	Shyopur	Limestone	8	513.48
		Ochre	3	29.60
		Total	**11**	**543.08**
	Sidhi	Bauxite	1	3.40
		Limestone	4	497.77
		Ochre	3	119.31
		Total	**8**	**620.48**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Madhya Pradesh	**Tikamgarh**	Barytes	1	2.02
(concld.)		Diaspore	4	37.28
		Pyrophyllite	28	175.49
		Quartz	2	16.00
		Total	**35**	**230.79**
	Umaria	China clay	1	11.24
		Fireclay	4	26.71
		Ochre	3	23.01
		Total	**8**	**60.96**
Maharashtra	**Amravati**	Fireclay	3	29.97
		Total	**3**	**29.97**
	Bhandara	Chromite	1	16.22
		Corundum	1	3.96
		Kyanite	12	238.59
		Manganese ore	7	345.87
		Quartz	3	9.38
		Sand (others)	2	48.41
		Total	**26**	**662.43**
	Chandrapur	Dolomite	1	60.10
		Fluorite	1	32.70
		Iron ore	4	37.91
		Laterite	5	101.17
		Limestone	16	3342.47
		Quartz	1	9.74

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Maharashtra	**Chandrapur** (Concld.)	Sand (others)	5	460.95
(contd.)		Shale	1	32.49
		White clay	1	18.00
		Total	**35**	**4095.53**
	Gadchiroli	Iron ore	3	355.12
		Quartz	1	20.00
		Total	**4**	**375.12**
	Gondia	Iron ore	4	26.97
		Quartz	1	14.32
		Total	**5**	**41.29**
	Jalna	Agate	2	54.98
		Total	**2**	**54.98**
	Kolhapur	Bauxite	15	3483.45
		Iron ore	1	144.00
		Silica Sand	2	9.67
		Total	**18**	**3637.12**
	Nagpur	Dolomite	15	162.22
		Manganese ore	35	680.78
		Quartz	2	17.67
		Sand (others)	4	191.88
		White clay	2	4.34
		Total	**58**	**1056.89**
	Raigad	Bauxite	9	523.12
		Total	**9**	**523.12**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Maharashtra	**Ratnagiri**	Bauxite	7	777.56
(concld.)		Moulding sand	1	47.02
		Silica sand	7	411.66
		Total	**15**	**1236.24**
	Satara	Bauxite	1	125.06
		Total	**1**	**125.06**
	Sindhudurg	Bauxite	1	45.00
		China clay	1	13.18
		Feldspar	2	53.65
		Fireclay	1	5.14
		Iron ore	14	613.22
		Mica	1	42.06
		Quartz	1	12.09
		Silica sand	25	1136.40
		Total	**46**	**1920.74**
	Yeotmal	Dolomite	1	61.91
		Limestone	37	2197.46
		Sand (others)	1	44.00
		Total	**39**	**2303.37**
Manipur	**Chandel**	Chromite	1	223.93
		Total	**1**	**223.93**
	Ukhrul	Chromite	1	386.24
		Total	**1**	**386.24**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Meghalaya	**Jaintia Hills**	Limestone	11	51.87
		Total	**11**	**51.87**
	Khasi Hills East	Limestone	4	484.78
		Shale	1	4.90
		Total	**5**	**489.68**
	Khasi Hills West	Limestone	1	60.00
		Sillimanite	1	4.64
		Total	**2**	**64.64**
Odisha	**Angul**	Fireclay	1	313.85
		Quartz	2	18.87
		Sand (others)	4	393.67
		Total	**7**	**726.39**
	Bargarh	China clay	1	74.27
		Graphite	9	183.17
		Limestone	3	903.56
		Total	**13**	**1161.00**
	Baudh	Quartz	2	29.15
		Total	**2**	**29.15**
	Bolangir	Garnet (Gem)	1	12.08
		Graphite	41	989.19
		Lead & zinc ore	1	5.26

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Odisha	**Bolangir** (concld.)	Limestone	1	27.65
(contd.)		Manganese ore	1	7.27
		Quartz	4	166.49
		Total	**49**	**1207.94**
	Cuttack	Fireclay	9	539.27
		Total	**9**	**539.27**
	Dhenkanal	Chromite	3	960.80
		Fireclay	1	10.11
		Quartz	1	4.65
		Total	**5**	**975.56**
	Ganjam	Sillimanite	1	2464.05
		Steatite	1	3.64
		Total	**2**	**2467.69**
	Jajpur	Chromite	17	4344.72
		Iron ore	1	1812.99
		Quartz	1	7.22
		Quartzite	2	6.15
		Total	**21**	**6171.08**
	Jharsuguda	Fireclay	1	50.50
		Quartz	1	83.66
		Quartzite	3	298.12
		Sand (others)	1	109.20
		Total	**6**	**541.48**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Odisha	**Kalahandi**	Graphite	9	106.36
(Contd.)		Iolite	10	80.06
		Quartz	33	282.31
		Ruby	33	282.31
		Total	**55**	**589.53**
	Keonjhar	Asbestos	1	49.22
		Chromite	6	2194.28
		Iron ore	77	20407.87
		Manganese ore	22	6625.88
		Pyrophyllite	5	231.22
		Quartz	3	55.25
		Total	**114**	**29563.72**
	Khurda	Fireclay	1	117.74
		Total	**1**	**117.74**
	Koraput	Bauxite	3	4915.38
		China clay	2	115.07
		Dunite	1	14.28
		Limestone	2	1586.22
		Quartz	1	11.28
		Total	**9**	**6642.23**
	Malkangiri	Quartz	1	2.48
		Tin	1	20.85
		Total	**2**	**23.33**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Odisha	**Mayurbhanj**	Asbestos	1	117.35
(contd.)		China clay	11	1094.15
		Fireclay	1	29.49
		Iron ore	9	1564.55
		Kyanite	1	55.49
		Quartz	2	20.11
		Quartzite	12	132.75
		Steatite	3	107.66
		Total	**40**	**3121.55**
	Nawapara	Garnet (Gem)	1	33.95
		Graphite	5	185.28
		Limestone	3	332.96
		Total	**9**	**552.19**
	Nayagarh	Graphite	1	16.64
		Total	**1**	**16.64**
	Raygada	Bauxite	1	1388.74
		Graphite	13	606.00
		Manganese ore	5	579.58
		Quartz	3	95.66
		Total	**22**	**2669.98**
	Sambalpur	China clay	1	40.47
		Iolite	1	24.29
		Quartz	2	31.88
		Steatite	1	4.05
		Total	**5**	**100.69**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Odisha	**Sonepur**	Quartz	3	119.22
(Concld.)		**Total**	**3**	**119.22**
	Sundargarh	Bauxite	4	369.35
		Dolomite	5	523.63
		Fireclay	3	544.66
		Iron ore	42	7324.03
		Limestone	33	4909.73
		Manganese ore	20	3310.70
		Quartz	4	173.51
		Quartzite	1	24.17
		Silica sand	1	17.45
		Steatite	2	161.13
		Total	**115**	**17358.36**
Rajasthan	**Ajmer**	Asbestos	4	214.66
		Calcite	1	19.50
		Feldspar	335	3088.15
		Garnet	5	24.14
		Lead & Zinc Ore	1	480.45
		Limestone	1	8.57
		Magnesite	1	5.00
		Mica	43	1176.25
		Quartz	134	920.70
		Steatite	2	131.00
		Vermiculite	1	42.22
		Wollastonite	2	9.92
		Total	**530**	**6120.56**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan	**Alwar**	Barytes	2	13.07
(contd.)		China clay	1	4.50
		Copper ore	1	914.07
		Feldspar	3	13.99
		Fireclay	1	3.75
		Ochre	1	60.70
		Silica sand	2	8.73
		Steatite	9	472.85
		Total	**20**	**1491.66**
	Banswara	Dolomite	1	71.32
		Graphite	1	123.75
		Limestone	2	66.82
		Manganese ore	1	18.90
		Phosphorite	1	300.00
		Steatite	2	316.76
		Total	**8**	**897.55**
	Barmer	China clay	4	19.90
		Gypsum	6	1839.05
		Silica sand	5	551.09
		Total	**15**	**2410.04**
	Bharatpur	Fireclay	1	5.00
		Ochre	2	9.90
		Silica sand	14	397.79
		Total	**17**	**412.69**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan	**Bhilwara**	Asbestos	9	45.00
(contd.)		Calcite	4	19.00
		China clay	1349	177.93
		Feldspar	510	2480.33
		Garnet (Gem)	1	5.00
		Gold	1	433.10
		Iron ore	1	1556.78
		Kyanite	3	154.00
		Lead & Zinc ore	1	1200.00
		Limestone	13	13.00
		Mica	89	769.97
		Ochre	5	23.39
		Pyrophyllite	1	4.75
		Quartz	3	14.72
		Silica sand	1	5.00
		Steatite	35	2968.73
		Total	**690**	**9862.70**
	Bikaner	Ball clay	35	1337.56
		China clay	44	3089.48
		Fireclay	17	1631.81
		Gypsum	22	6657.27
		Quartz	1	4.15
		Total	**119**	**12720.27**
	Bundi	China clay	2	109.00
		Ochre	2	99.37
		Quartz	1	4.50
		Silica sand	1	125.00
		Total	**6**	**337.87**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan	**Chittorgarh**	Ball clay	1	83.23
(contd.)		China clay	36	642.98
		Limestone	9	4972.10
		Ochre	37	1145.85
		Quartz	31	135.40
		Shale	1	5.00
		Total	**115**	**6984.56**
	Dausa	Iron ore	1	65.25
		Quartz	3	191.29
		Silica sand	8	341.02
		Steatite	6	349.62
		Total	**18**	**947.18**
	Dungarpur	Feldspar	1	100.00
		Fluorite	8	332.19
		Steatite	55	2170.11
		Total	**64**	**2602.30**
	Ganganagar	Gypsum	24	6013.54
		Total	**24**	**6013.54**
	Hanumangarh	Gypsum	3	368.09
		Total	**3**	**368.09**
	Jaipur	Calcite	1	296.41
		China clay	7	1104.52
		Dolomite	1	60.56

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan	**Jaipur** (concld.)	Epidote	2	10.00
(contd.)		Feldspar	5	23.88
		Iron ore	5	43.93
		Limestone	2	581.15
		Mica	2	38.18
		Ochre	1	5.00
		Quartz	75	618.42
		Silica sand	6	272.28
		Steatite	6	566.01
		Total	**113**	**3620.34**
	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	19.89
		Copper Ore	3	706.75
		Dolomite	1	33.31
		Feldspar	4	17.64
		Fireclay	1	10.99
		Iron ore	6	102.20

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan (contd.)	**Jhunjhunu** (concld.)	Ochre	1	39.00
		Pyrophyllite	1	5.00
		Quartz	13	60.23
		Quartzite	1	164.81
		Steatite	4	432.56
		Total	**39**	**1164.73**
	Jodhpur	Jasper	5	211.70
		Limestone	4	122.00
		Total	**9**	**333.70**
	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	7	5264.52
		Total	**7**	**5264.52**
	Nagaur	Ball clay	2	10.00
		China clay	68	309.62
		Gypsum	4	2271.15
		Limestone	12	6700.63
		Total	**90**	**9309.01**
	Pali	Ball clay	6	775.87
		China clay	10	184.09
		Feldspar	2	69.87
		Gypsum	1	161.55

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan	**Pali** (concld.)	Limestone	11	1774.25
(contd.)		Magnesite	2	10.00
		Quartz	29	631.98
		Wollastonite	1	4.00
		Total	**62**	**3611.61**
	Rajsamand	Asbestos	10	681.82
		Calcite	5	23.10
		Feldspar	16	69.53
		Lead & Zinc ore	4	2142.04
		Mica	2	10.00
		Quartz	665	3059.83
		Silica sand	1	4.20
		Steatite	20	993.67
		Total	**723**	**6984.19**
	Sawai Madhopur	China clay	3	14.35
		Clay (others)	1	4.67
		Ochre	1	38.43
		Quartz	9	280.78
		Silica sand	3	287.02
		Steatite	1	8.05
		Total	**18**	**633.30**
	Sikar	Calcite	10	115.25
		China clay	1	32.54
		Dolomite	1	4.79

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan	**Sikar** (concld.)	Feldspar	7	214.52
(contd.)		Iron ore	3	14.95
		Limestone	3	1824.39
		Ochre	2	9.10
		Quartz	93	649.91
		Silica sand	5	35.51
		Steatite	2	9.46
		Total	**127**	**2910.42**
	Sirohi	Calcite	8	445.41
		Fluorite	1	167.62
		Lead & Zinc ore	2	115.00
		Limestone	8	1124.03
		Quartz	13	55.15
		Wollastonite	3	106.30
		Total	**35**	**2013.51**
	Tonk	Feldspar	3	14.80
		Garnet	4	20.00
		Mica	6	46.03
		Quartz	40	204.90
		Silica sand	6	281.65
		Total	**59**	**567.38**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Rajasthan	**Udaipur**	Asbestos	3	230.43
(concld.)		Barytes	1	31.00
		Calcite	14	319.18
		China clay	2	128.20
		Feldspar	10	47.57
		Lead & Zinc ore	1	3620.00
		Limestone	1	704.90
		Ochre	3	54.00
		Phosphorite	8	2367.64
		Pyrophyllite	8	131.64
		Quartz	45	207.29
		Steatite	106	4577.42
		Wollastonite	1	101.80
		Total	**203**	**12521.07**
Sikkim	**Sikkim East**	Copper ore	3	96.32
		Total	**3**	**96.32**
Tamil Nadu	**Ariyalur**	Fireclay	8	9.97
		Limestone	58	2261.29
		Total	**66**	**2271.26**
	Coimbatore	Gypsum	3	13.83
		Limestone	3	152.77
		Quartz	9	15.65
		Steatite	2	5.46
		Total	**17**	**187.71**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Tamil Nadu	**Cuddalore**	Fireclay	18	38.57
(contd.)		Limeshell	1	4.61
		Silica sand	1	1.06
		Total	**20**	**44.24**
	Dindigul	Limestone	43	635.57
		Quartz	31	37.39
		Total	**74**	**672.96**
	Erode	Quartz	3	9.83
		Total	**3**	**9.83**
	Kanchipuram			
		Silica sand	9	29.87
		Total	**9**	**29.87**
	Kanyakumari	Garnet	9	193.21
		Total	**9**	**193.21**
	Karur	Limestone	42	534.06
		Magnesite	2	4.41
		Quartz	87	120.40
		Total	**131**	**658.87**
	Krishnagiri	Limestone	2	2.46
		Quartz	1	7.21
		Total	**3**	**9.67**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Tamil Nadu	**Madurai**	Garnet	2	6.62
(contd.)		Graphite	2	5.68
		Limestone	13	55.17
		Quartz	1	1.08
		Total	**18**	**68.55**
	Nagapattinam	Silica sand	10	32.81
		Total	**10**	**32.81**
	Namakkal	Bauxite	3	226.15
		Limestone	39	108.91
		Magnesite	3	4.89
		Quartz	28	55.44
		Total	**73**	**395.39**
	Perambalur	Fireclay	18	54.95
		Gypsum	6	14.90
		Limestone	31	90.83
		Total	**55**	**160.68**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Tamil Nadu	**Salem**	Apatite	1	4.05
(contd.)		Bauxite	1	190.84
		Limestone	53	433.23
		Magnesite	10	878.85
		Quartz	34	135.15
		Steatite	2	9.78
		Total	**101**	**1651.90**
	Sivaganga	Graphite	5	271.84
		Total	**5**	**271.84**
	Theni (Madurai)	Limestone	3	6.77
		Total	**3**	**6.77**
	Thiruvallur	Silica sand	1	3.28
	(Chengalpattu)	**Total**	**1**	**3.28**
	Thiruvannamalai	Fireclay	1	4.87
		Total	**1**	**4.87**
	Thoothukudi	Garnet	6	70.56
	(Tuticorin)	Limestone	15	411.92
		Total	**21**	**482.48**
	Tiruchirappalli	Fire Clay	1	1.20
		Garnet	10	178.55

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Tamil Nadu (contd.)	**Tiruchirappalli** (concld.)	Gypum	4	5.94
		Limestone	30	189.66
		Quartz	7	14.70
		Steatite	3	9.90
		Total	**55**	**399.95**
	Tirunelveli	Garnet	53	327.19
		Limestone	72	669.72
		Total	**125**	**996.91**
	Tiruppur	Quartz	81	115.51
		Total	**81**	**115.51**
	Vellore	Quartz	1	1.39
		Vermiculite	1	23.71
		Total	**2**	**25.10**
	Villupuram	Silica sand	10	21.67
		Total	**10**	**21.67**
	Virudhunagar	Limestone	31	1175.65
		Total	**31**	**1175.65**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Uttar Pradesh	**Allahabad**	Silica Sand	3	41.24
		Total	**3**	**41.24**
	Hamirpur	Pyrophyllite	1	25.71
		Total	**1**	**25.71**
	Jhansi	Pyrophyllite	5	67.99
		Total	**5**	**67.99**
	Lalitpur			
		Pyrophyllite	7	79.18
		Total	**7**	**79.18**
	Mahoba	Pyrophyllite	2	7.38
		Total	**2**	**7.38**
	Sonbhadra	Dolomite	1	670.57
		Limestone	4	3072.63
		Total	**5**	**3743.20**
Uttarakhand	**Almoda**	Steatite	2	6.24
		Total	**2**	**6.24**
	Bageshwar	Magnesite	1	165.09
		Steatite	54	779.62
		Total	**55**	**944.71**

contd…

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
Uttarakhand	**Chamoli**	Steatite	2	9.09
(concld.)		**Total**	**2**	**9.09**
	Pithoragarh	Magnesite	3	206.44
		Steatite	18	76.22
		Total	**21**	**283.16**
	Tehri Garhwal	Limestone	6	37.31
		Total	**6**	**37.31**
West Bengal	**Bankura**	China clay	4	20.63
		Fireclay	3	8.49
		Quartz	4	10.84
		Quartzite	1	4.70
		Silica sand	1	2.62
		Total	**13**	**47.28**
	Birbhum	China clay	16	305.23
		Fireclay	1	4.85
		Quartz	1	1.94
		Total	**18**	**312.02**
	Burdwan	Moulding sand	2	2.27
		Total	**2**	**2.27**
	Midnapur	Ochre	1	5.77
		Total	**1**	**5.77**

contd…

Table-4 (concld.)

State	Districts	Minerals	No. of Leases	Area (In Hect.)
West Bengal	**Purulia**	Fireclay	1	1.20
(concld.)		Moulding sand	1	5.14
		Phosphorite	1	13.47
		Quartz	5	13.26
		Total	**8**	**33.07**

3.2 DISTRICT WISE ANALYSIS

(i) High Mineral Potential Districts

District wise 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, 29 districts in states are considered as high mineral potential districts wherein more than 100 mining leases each have been granted. A total of 6,362 mining leases have been granted in these districts covering an area of about 2,21,885 hectares. These constitute about 57% of total number of mining leases in the country and cover around 45% of the total area.

(ii) Medium Mineral Potential Districts

Districts wherein mining leases between 51 and 100 are granted are considered as Medium Potential districts. There are 1,864 such mining leases granted in 28 districts in 13 states covering an area of about 76,344 hectares. These constitute 17% of the total number of mining leases in the country and cover over 15% of the total area.

(iii) Low Mineral Potential Districts

Districts wherein mining leases granted are between 1 and 50 are considered as Low Mineral Potential districts. There are 2,878 mining leases granted in 224 such districts in 22 states covering an area of about 2,00,021 hectares in the country. These account for 26% of the total leases in the country covering 40% of the total area.

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

Table - 5 : High Mineral Potential Districts

Sl. No.	Districts	State	No. of Leases	No. of Minerals	Area (in Hect.)
1	Anantapur	Andhra Pradesh	176	14	3903.34
2	Cuddapah	Andhra Pradesh	264	17	8871.58
3	Kurnool	Andhra Pradesh	347	12	12354.56
4	Mahbubnagar	Andhra Pradesh	141	4	1086.56
5	Nellore	Andhra Pradesh	316	10	4951.63
6	Prakasam	Andhra Pradesh	117	6	2961.22
7	South Goa	Goa	237	3	17297.62
8	Jamnagar	Gujarat	182	6	5311.44
9	Junagarh	Gujarat	104	1	3599.22
10	Kachchh	Gujarat	207	11	9753.97
11	Porbandar	Gujarat	243	4	3188.80
12	Bagalkot	Karnataka	102	4	5914.78
13	Bellary	Karnataka	132	5	10144.21
14	Jabalpur	Madhya Pradesh	109	12	1831.17
15	Katni	Madhya Pradesh	156	8	3649.43
16	Satna	Madhya Pradesh	323	7	15111.35
17	Keonjhar	Odisha	114	6	29563.72
18	Sundargarh	Odisha	115	10	17358.36
19	Ajmer	Rajasthan	530	12	6120.56
20	Bhilwara	Rajasthan	690	16	9862.70
21	Bikaner	Rajasthan	119	5	12720.27
22	Chittorgarh	Rajasthan	115	6	6984.56
23	Jaipur	Rajasthan	113	12	3620.34
24	Rajsamand	Rajasthan	723	8	6984.19
25	Sikar	Rajasthan	127	10	2910.42
26	Udaipur	Rajasthan	203	13	12521.07
27	Karur	Tamil Nadu	131	3	658.87
28	Salem	Tamil Nadu	101	6	1651.90
29	Tirunelveli	Tamil Nadu	125	2	996.91
		Total	**6362**		**221884.75**

Table – 6 : Medium Mineral Potential Districts

Sl. No.	Districts	State	No. of Leases	No. of Minerals	Area (in Hect.)
1	Godavari East	Andhra Pradesh	60	3	417.93
2	Guntur	Andhra Pradesh	53	6	6319.72
3	Khammam	Andhra Pradesh	55	10	1172.23
4	Nalgonda	Andhra Pradesh	69	5	5671.89
5	Rangareddi	Andhra Pradesh	60	7	1799.39
6	Vizianagaram	Andhra Pradesh	74	5	1341.32
7	Durg	Chhattisgarh	51	3	1381.85
8	North Goa	Goa	100	2	7224.50
9	Rajkot	Gujarat	54	6	343.81
10	Surendranagar	Gujarat	67	4	336.22
11	Vadodara	Gujarat	78	3	971.27
12	Gurgaon	Haryana	58	4	4364.35
13	Singhbhum (West)	Jharkhand	87	9	15952.45
14	Chitradurga	Karnataka	67	5	4046.75
15	Balaghat	Madhya Pradesh	84	9	2302.91
16	Nagpur	Maharashtra	58	5	1056.89
17	Kalahandi	Odisha	55	4	589.53
18	Dungarpur	Rajasthan	64	3	2602.30
19	Nagaur	Rajasthan	90	5	9309.01
20	Pali	Rajasthan	62	8	3611.61
21	Tonk	Rajasthan	59	5	567.38
22	Ariyalur	Tamil Nadu	66	2	2271.26
23	Dindigul	Tamil Nadu	74	2	672.96
24	Namakkal	Tamil Nadu	73	4	395.39
25	Perambalur	Tamil Nadu	55	3	160.68
26	Tiruchirappalli	Tamil Nadu	55	6	399.95
27	Tiruppur	Tamil Nadu	81	1	115.51
28	Bageshwar	Uttarakhand	55	2	944.71
		Total	**1864**		**76343.77**

Table – 7 : Low Mineral Potential Districts

Sl. No.	State	No. of Districts	No. of Leases	Area (in Hect.)
1	Andhra Pradesh	10	269	17157.98
2	Assam	2	7	889.50
3	Bihar	3	9	1382.66
4	Chhattisgarh	21	257	21341.35
5	Gujarat	11	169	6102.31
6	Haryana	3	52	6610.64
7	Himachal Pradesh	4	45	2546.68
8	Jammu & Kashmir	11	57	2450.92
9	Jharkhand	18	207	19076.25
10	Karnataka	20	293	28735.86
11	Kerala	10	87	3071.82
12	Madhya Pradesh	28	445	11560.88
13	Maharashtra	12	203	15004.97
14	Manipur	2	2	610.17
15	Meghalaya	3	18	606.19
16	Odisha	18	206	27,183.13
17	Rajasthan	16	290	28,324.72
18	Sikkim	1	3	96.32
19	Tamil Nadu	16	163	2,567.55
20	Uttar Pradesh	6	23	3,964.70
21	Uttarakhand	4	31	335.80
22	West Bengal	5	42	400.41
	Total	**224**	**2878**	**200020.81**

3.3 MINERAL WISE ANALYSIS

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

(i) Scheduled Minerals

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

There are 11 minerals under Scheduled Minerals for which mining leases are granted as on 31.3.2013. The number of leases granted are 1,554 i.e. 14% of the total mining leases accounting for an area of about 1,82,784 hectares which is 37% of the total mining area in the country. Out of the eleven scheduled minerals, the total number of mining leases granted for iron ore is placed at 774 followed by bauxite (337), manganese ore (323), chromite (35), asbestos (33), copper ore (16). These six minerals account for 1,518 mining leases, i.e., 98% of the mining leases under this category accounting for an area of about 1,66,727 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.

(ii) Non-Scheduled Minerals

There are 53 Non-Scheduled or Industrial minerals, for which leases are granted in the country. In all, there are 9,550 (86% of the total mining leases) mining leases granted for these minerals that account for an area of about 3,15,465 hectares which is 63% of the total lease area. Distribution of mining leases for Non-Scheduled minerals are given in Table-9.

Table – 8 : Distribution of Mining Leases for Scheduled Minerals
As on 31.03.2013

Sl. No.	Minerals	No. of Leases	Area (in Hect.)
1	Asbestos	33	1566.25
2	Bauxite	337	30329.10
3	Chromite	35	9432.58
4	Copper ore	16	9862.96
5	Diamond *	02	275.96
6	Gold	13	7186.41
7	Iron ore	774	93790.37
8	Lead & Zinc ore	14	7791.41
9	Manganese ore	323	21745.52
10	Ruby *	6	130.00
11	Sapphire *	1	673.40
	Total	**1554**	**182783.96**

*** Precious stone**

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

As on 31.03.2013

Sl. No.	Minerals	No. of Leases	Area (in Hect.)
1	Agate	3	59.62
2	Amethyst	4	10.63
3	Apatite	2	20.17
4	Ball clay	75	2744.59
5	Barytes	164	2541.54
6	Borax	1	159.00
7	Calcite	90	1573.49
8	Chalk	156	639.79
9	China clay	516	15612.20
10	Clay (others)	99	1186.11
11	Corundum	11	66.62
12	Diaspore	12	94.38
13	Dolomite	542	7536.87
14	Dunite	1	14.28
15	Epidote	2	10.00
16	Felsite	6	102.29
17	Feldspar	947	7271.79
18	Fireclay	248	5071.75
19	Fint Stone	02	11.87
20	Fluorite	16	1670.71
21	Garnet	100	1664.37
22	Garnet (Gem)	3	51.03
23	Graphite	110	3762.07
24	Gypsum	106	19102.32
25	Iolite	11	104.35
26	Jasper	5	211.70
27	Kyanite	32	3151.89

Contd…

Table-9 (concld.)

Sl. No.	Minerals	No. of Leases	Area (in Hect.)
28	Laterite	193	2428.61
29	Lime kankar	7	43.63
30	Limeshell	26	3985.54
31	Limestone	2013	155452.96
32	Magnesite	32	1923.81
33	Marl	2	9.15
34	Mica	264	5613.52
35	Moulding sand	40	904.18
36	Ochre	168	3290.09
37	Perlite	1	144.88
38	Phosphorite	15	2831.78
39	Pyrophyllite	94	1299.25
40	Pyroxenite	11	95.39
41	Quartz	2193	16506.59
42	Quartzite	83	1456.78
43	Sand (others)	48	10026.07
44	Shale	45	566.22
45	Silica sand	475	14494.11
46	Sillimanite	6	2823.26
47	Slate	18	683.31
48	Steatite	476	15355.65
49	Tin	15	320.95
50	Vermiculite	15	259.64
51	White clay	25	210.92
52	White shale	14	71.63
53	Wollastonite	7	222.02
	Total	**9550**	**315465.37**

3.4 FREQUENCY DISTRIBUTION OF MINING LEASES

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

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

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

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

Category	No. of Minerals	No. of Mining Leases		Lease Area	
		No. of Leases	Percentage	In Hect.	Percentage
I	2	4206	37.88	171959.55	34.51
II	4	2779	25.03	124211.23	24.93
III	4	1611	14.51	81924.38	16.44
IV	2	512	4.61	10685.27	2.14
V	6	897	8.08	31764.42	6.38
VI	6	541	4.87	9924.59	1.99
VII	40	558	5.03	67779.89	13.60
Total	**64**	**11104**	**100.00**	**498249.33**	**100.00**

Table- 11 : Frequency Distribution of Mining Leases

Category	Frequency of Leases	Minerals	No. of Leases	Area (In Hect.)
I	**>1000**	Limestone	2013	155452.96
		Quartz	2193	16506.59
		Total	**4206**	**171959.55**
II	**Between 501 and 1000**	China clay	516	15612.20
		Dolomite	542	7536.87
		Feldspar	947	7271.79
		Iron ore	774	93790.37
		Total	**2779**	**124211.23**
III	**Between 301 and 500**	Bauxite	337	30329.10
		Manganese ore	323	21745.52
		Silica sand	475	14494.11
		Steatite	476	15355.65
		Total	**1611**	**81924.38**
IV	**Between 201 and 300**	Fireclay	248	5071.75
		Mica	264	5613.52
		Total	**512**	**10685.27**
V	**Between 101 and 200**	Barytes	164	2541.54
		Chalk	156	639.79
		Graphite	110	3762.07
		Gypsum	106	19102.32
		Laterite	193	2428.61
		Ochre	168	3290.09
		Total	**897**	**31764.42**

contd…

Table-11 (contd.)

Category	Frequency of Leases	Minerals	No. of Leases	Area (In Hect.)
VI	**Between 51 and 100**	Ball Clay	75	2744.59
		Calcite	90	1573.49
		Clay others	99	1186.11
		Garnet	100	1664.37
		Pyrophyllite	94	1299.25
		Quartzite	83	1456.78
		Total	**541**	**9924.59**
VII	**Between 1 and 50**	Agate	3	59.62
		Amethyst	4	10.63
		Apatite	2	20.17
		Asbestos	33	1566.25
		Borax	1	159.00
		Chromite	35	9432.58
		Copper Ore	16	9862.96
		Corundum	11	66.62
		Diamond	2	275.96
		Diaspore	12	94.38
		Dunite	1	14.28
		Epidote	2	10
		Felsite	6	102.29
		Flint Stone	2	11.87
		Fluorite	16	1670.71
		Garnet (Gem)	3	51.03
		Gold	13	7186.41
		Iolite	11	104.35
		Jasper	5	211.7
		Kyanite	32	3151.89
		Lead & Zinc ore	14	7791.41
		Lime kankar	7	43.63

contd…

Table-11 (concld.)

Category	Frequency of Leases	Minerals	No. of Leases	Area (In Hect.)
		Limeshell	26	3985.54
		Magnesite	32	1923.81
		Marl	2	9.15
		Moulding sand	40	904.18
		Perlite	1	144.88
		Phosphorite	15	2831.78
		Pyroxenite	11	95.39
		Ruby	6	130.00
		Sand Others	48	10026.07
		Sapphire	1	673.4
		Shale	45	566.22
		Sillimanite	6	2823.26
		Slate	18	683.31
		Tin	15	320.95
		Vermiculite	15	259.64
		White clay	25	210.92
		White shale	14	71.63
		Wollastonite	7	222.02
		Total	**558**	**67779.89**

3.5 SECTOR WISE DISTRIBUTION OF MINING LEASES

Out of the total 11,104 mining leases in the country, 483 (4%) leases have been executed in the Public Sector, extending over an area of about 1,47,258 hectares (30%). The remaining 10,621 (96%) mining leases with an area of about 3, 50, 991 hectares (70%) have been executed in the Private Sector. Most of the Scheduled Minerals, namely, copper ore, lead & zinc ores, gold, iron ore, manganese ore and chromite and Non-Scheduled Minerals like limestone, dolomite, pyrite, apatite, barytes, fluorite, asbestos, kyanite, magnesite, etc. are being exploited by both Public and Private Sectors.

(a) Central Government Public Sector Undertakings :

There are 191 mining leases under Central Government Public Sector Undertakings executed in 13 states for different minerals, covering an area of about 78,829 hectares. The States rich in minerals where maximum number of mining leases executed for Central Govt. Public Sector Undertakings are Jharkhand 34 (18%), followed by Maharashtra 29 and Andhra Pradesh 28 (15% each), Madhya Pradesh 26 (14%), Rajasthan 21 (11%), Odisha 18 (9%), Chhattisgarh 13 (7%), Karnataka 7 (4%) and Tamil Nadu 6 (3%). These nine States together account for over 96% of total leases executed and the remaining 4 States account for the rest of the 4 percent.

The prominent States where maximum mining lease areas are located are Odisha and Jharkhand (22%) each, Andhra Pradesh (15%), Karnataka (14%), Chhattisgarh (10%), Madhya Pradesh (7%) and Rajasthan (6%). These seven States account for 96% of the total lease area executed and the remaining States account for the rest of the 4 percent.

(b) State Government Public Sector Undertakings:

There are 292 number of mining leases executed in 15 States for different minerals, covering an area of 68,429 hectares. The States rich in minerals where there are maximum number of mining leases executed are Rajasthan 68 (23%), Karnataka 54 (18%), Odisha 42 (14%), Tamil Nadu 24 (8%), Chhattisgarh 21, Andhra Pradesh 19 and Gujarat 19 (7% each)

Maharashtra 14 (5%), Madhya Pradesh 10 & Jharkhand 8 (3% each). These ten States together account for over 95% of the total leases executed and the remaining 5 States account for the rest of the 5 percent.

The prominent States where maximum mining lease areas are located are Rajasthan (38%), Odisha (30%), Karnataka (14%), Gujarat (7%), Jharkhand (3%), Jammu and Kashmir & Tamil Nadu (2% each). These seven States together account for around 96% of the total lease area executed while the remaining 6 States account for the rest of the 4 percent.

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

Table – 12: Sector wise Distribution of Mining Leases (As on 31.03.2013)
(Public Sector and Private Sector)

Sl. No.	State	Total		Public Sector		Private Sector	
		No. of Leases	Area (In Hect.)	No. of Leases	Area (In Hect.)	No. of Leases	Area (In Hect.)
1	Andhra Pradesh	2001	68009.35	47	13255.25	1954	54754.10
2	Assam	7	889.50	3	371.00	4	518.50
3	Bihar	9	1382.66	-	-	9	1382.66
4	Chhattisgarh	308	22723.20	34	8412.51	274	14310.69
5	Goa	337	24522.12	-	-	337	24522.12
6	Gujarat	1104	29607.04	19	4396.38	1085	25210.66
7	Haryana	110	10974.99	-	-	110	10974.99
8	Himachal Pradesh	45	2546.68	2	404.23	43	2142.45
9	Jammu & Kashmir	57	2450.92	5	1568.80	52	882.12
10	Jharkhand	294	35028.70	42	18932.73	252	16095.97
11	Karnataka	594	48841.60	61	20770.74	533	28070.86
12	Kerala	87	3071.82	5	359.23	82	2712.59
13	Madhya Pradesh	1117	34455.74	36	5858.73	1081	28597.01
14	Maharashtra	261	16061.86	43	2009.85	218	14052.01
15	Manipur	2	610.17	-	-	2	610.17
16	Meghalaya	18	606.19	-	-	18	606.19
17	Odisha	490	74694.74	60	37939.24	430	36755.50
18	Rajasthan	3185	106139.13	89	30877.20	3096	75261.93
19	Sikkim	3	96.32	3	96.32	-	-
20	Tamil Nadu	924	9890.98	30	1818.30	894	8072.68
21	Uttar Pradesh	23	3964.70	-	-	23	3964.70
22	Uttarakhand	86	1280.51	2	170.46	84	1110.05
23	West Bengal	42	400.41	2	17.15	40	383.26
	Total	**11104**	**498249.33**	**483**	**147258.12**	**10621**	**350991.21**

Table – 13: Sector wise Distribution of Mining Leases (As on 31.03.2013)

(Under Central Government and State Governments)

Sl. No.	State	Central Government		State Government		Total	
		No. of Leases	Area (In Hect.)	No. of Leases	Area (In Hect.)	No. of Leases	Area (In Hect.)
1	Andhra Pradesh	28	12109.92	19	1145.33	47	13255.25
2	Assam	1	171.00	2	200.00	3	371.00
3	Chhattisgarh	13	7942.92	21	469.59	34	8412.51
4	Gujarat	-	-	19	4396.38	19	4396.38
5	Himachal Pradesh	2	404.23	-	-	2	404.23
6	Jammu & Kashmir	-	-	5	1568.80	5	1568.80
7	Jharkhand	34	17050.88	8	1881.85	42	18932.73
8	Karnataka	7	11315.49	54	9455.25	61	20770.74
9	Kerala	4	354.57	1	4.66	5	359.23
10	Madhya Pradesh	26	5526.46	10	332.27	36	5858.73
11	Maharashtra	29	1445.46	14	564.39	43	2009.85
12	Odisha	18	17225.27	42	20713.97	60	37939.24
13	Rajasthan	21	4710.87	68	26166.33	89	30877.20
14	Sikkim	-	-	3	96.32	3	96.32
15	Tamil Nadu	6	401.88	24	1416.42	30	1818.30
16	Uttarakhand	2	170.46	-	-	2	170.46
17	West Bengal	-	-	2	17.15	2	17.15
	Total	**191**	**78829.41**	**292**	**68428.71**	**483**	**147258.12**

Table-14: Summary of Lease Distribution in Public Sector
(As on 31.3.2013)
(By States/Districts/Minerals)

(Area in Hect.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Andhra Pradesh	Adilabad	Limestone	1	839.38	1	210.00	2	1049.38
	Adilabad	Sand (others)	4	7297.93	-	-	4	7297.93
	Anantapur	Gold	1	168.43	-	-	1	168.43
	Cuddapah	Barytes	-	-	12	339.56	12	339.56
	Chittoor	Gold	2	265.59	-	-	2	265.59
	Godavari West	Ball clay	-	-	1	14.67	1	14.67
	Karimnagar	Sand (others)	5	601.71	-	-	5	601.71
	Khammam	Dolomite	1	384.46	-	-	1	384.46
	Khammam	Sand (others)	3	89.85	-	-	3	89.85
	Krishna	Limestone	1	1295	-	-	1	1295
	Nellore	Moulding sand	-	-	1	13.19	1	13.19
	Prakasam	Iron ore	-	-	1	505.17	1	505.17
	Rangareddi	Laterite	1	41.6	-	-	1	41.6
	Rangareddi	Limestone	1	613.79	-	-	1	613.79
	Rangareddi	Shale	1	133.12	-	-	1	133.12
	Srikakulam	Silica sand	1	7.5	-	-	1	7.5
	Visakhapatnam	Apatite	-	-	1	16.12	1	16.12
	Visakhapatnam	Calcite	-	-	2	46.62	2	46.62
	Visakhapatnam	Quartz	1	3.24	-	-	1	3.24
	Vizianagaram	Manganese ore	2	264.99	-	-	2	264.99
	Vizianagaram	Sand (others)	3	103.33	-	-	3	103.33
		Total	**28**	**12109.92**	**19**	**1145.33**	**47**	**13255.25**

Contd…

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Assam	Karbi Anglong	Limestone	1	171	-	-	1	171
	North Cachar Hills	Limestone	-	-	2	200	2	200
		Total	**1**	**171**	**2**	**200**	**3**	**371**
Chhattisgarh	Balod	Iron ore	4	2562.69	-	-	4	2562.69
	Bemetara	Dolomite	-	-	1	22.15	1	22.15
	Bijapur	Corundum	-	-	1	3.7	1	3.7
	Bilaspur	Dolomite	1	128.88	-	-	1	128.88
	Dantewada	Iron ore	6	2696.21	-	-	6	2696.21
	Durg	Limestone	1	526.34	-	-	1	526.34
	Jashpur	Bauxite	-	-	2	40.61	2	40.61
	Kanker	Iron ore	1	2028.8	-	-	1	2028.8
	Kabirdham	Bauxite	-	-	1	5.31	1	5.31
	Sukma	Corundum	-	-	2	27.25	2	27.25
		Tin	-	-	2	103.22	2	103.22
	Surguja	Bauxite	-	-	12	267.35	12	267.35
		Total	**13**	**7942.92**	**21**	**469.59**	**34**	**8412.51**
Gujarat	Banaskantha	Copper ore	-	-	1	832	1	832
	Bharuch	Ball clay	-	-	1	183.87	1	183.87
	Bharuch	Silica sand	-	-	1	143.7	1	143.70
	Jamnagar	Bauxite	-	-	2	189.78	2	189.78
	Kachchh	Bauxite	-	-	10	1939.39	10	1939.39

Contd…

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Gujarat (concld.)	Surat	Limestone	-	-	2	1044.44	1	1044.44
	Vadodara	Fluorite	-	-	2	63.2	2	63.2
		Total	-	-	**19**	**4396.38**	**19**	**4396.38**
Himachal Pradesh	Sirmur	Limestone	1	172.03	-	-	1	172.03
	Solan	Limestone	1	232.2	-	-	1	232.2
		Total	**2**	**404.23**	**-**	**-**	**2**	**404.23**
Jammu & Kashmir	Doda	Gypsum	-	-	1	76	1	76
	Kishtwar	Sapphire	-	-	1	673.4	1	673.4
	Pulwama	Limestone	-	-	1	88.1	1	88.1
	Ramban	Gypsum	-	-	1	246	1	246
	Reasi	Magnesite	-	-	1	485.3	1	485.3
		Total	**-**	**-**	**5**	**1568.8**	**5**	**1568.8**
Jharkhand	Bokaro	Sand (others)	1	31.47	-	-	1	31.47
	Dhanbad	Sand (others)	11	584.01	-	-	11	584.01
	Garwah	Dolomite	1	118.69	-	-	1	118.69
	Garwah	Limestone	3	1178.92	-	-	3	1178.92
	Palamau	Graphite	-	-	2	507.95	2	507.97
	Palamau	Limestone	-	-	1	1043.43	1	1043.43
	Ranchi	Limestone	-	-	2	239.54	2	239.54
	Singhbhum (East)	Copper ore	4	6417.09	-	-	4	6417.09

Contd…

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Jharkhand	Singhbhum (East)	Kyanite	-	-	1	2.43	1	2.43
(concld.)	Singhbhum (West)	Iron ore	13	6972.45	-	-	13	6972.45
	Singhbhum (West)	Kyanite	1	1748.25	2	88.48	3	1836.73
	Total		**34**	**17050.88**	**8**	**1881.85**	**42**	**18932.73**
Karnataka	Bagalkot	Dolomite	-	-	2	239.86	2	239.86
	Bagalkot	Limestone	-	-	8	3241.81	8	3241.81
	Bengaluru	Feldspar	-	-	3	130.3	3	130.3
	Belgaum	Limestone	-	-	2	755.48	2	755.48
	Bellary	Iron ore	2	1255.5	10	972.18	12	2227.68
	Chikmagalur	Iron ore	1	4605.42	-	-	1	4605.42
	Chitradurga	Copper ore	-	-	2	416.83	2	416.83
	Gulbarga	Gold	-	-	1	55.75	1	55.75
	Gulbarga	Limestone	3	241.36	-	-	3	241.36
	Hassan	China clay	-	-	2	311.81	2	311.81
	Hassan	Chromite	-	-	6	1306.39	6	1306.39
	Hassan	Quartz	-	-	2	18.21	2	18.21
	Hassan	Steatite	-	-	1	80.93	1	80.93
	Kolar	Gold	1	5213.21	-	-	1	5213.21
	Mandya	Quartz	-	-	1	15.18	1	15.18
	Mysore	Magnesite	-	-	3	136.27	3	136.27
	Uttara Kannada	Manganese ore	-	-	1	80.94	1	80.94
	Raichur	Gold	-	-	5	992.79	5	992.79
	Shimoga	China clay	-	-	2	21.85	2	21.85

Contd…

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Karnataka	Shimoga	Manganese ore	-	-	1	526.10	1	526.10
(concld)	Tumkur	Gold	-	-	1	38.04	1	38.04
	Udupi	Limeshell	-	-	1	114.53	1	114.53
		Total	**7**	**11315.49**	**54**	**9455.25**	**61**	**20770.74**
Kerala	Kollam	China clay	-	-	1	4.66	1	4.66
	Kollam	Sillimanite	4	354.57	-	-	4	354.57
		Total	**4**	**354.57**	**1**	**4.66**	**5**	**359.23**
Madhya Pradesh	Anuppur	Bauxite	-	-	1	148.18	1	148.18
	Balaghat	Copper ore	2	479.9	-	-	2	479.9
	Balaghat	Manganese ore	10	1102.86	-	-	10	1102.86
	Balaghat	Sand (others)	2	18.08	-	-	2	18.08
	Chhatarpur	Phosphorite	-	-	1	48.76	1	48.76
	Jhabua	Phosphorite	-	-	3	49.11	3	49.11
	Katni	Fireclay	2	38.27	-	-	2	38.27
	Katni	Limestone	3	1109.09	-	-	3	1109.09
	Mandla	Dolomite	-	-	1	2.52	1	2.52
	Nimach	Limestone	2	500.45	-	-	2	500.45
	Panna	Diamond	2	275.96	-	-	2	275.96
	Rewa	Bauxite	-	-	1	4.9	1	4.9
	Sagar	Phosphorite	-	-	1	52.8	1	52.8
	Satna	Limestone	3	2001.85	-	-	3	2001.85
	Satna	Bauxite	-	-	1	21	1	21
	Tikamgarh	Pyrophyllite	-	-	1	5	1	5
		Total	**26**	**5526.46**	**10**	**332.27**	**36**	**5858.73**

Contd…

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Maharashtra	Bhandara	Kyanite	-	-	6	179.11	6	179.11
	Bhandara	Manganese ore	5	325.44	-	-	5	325.44
	Bhandara	Sand (others)	1	40.41	-	-	1	40.41
	Chandrapur	Fluorite	-	-	1	32.7	1	32.7
	Chandrapur	Sand (others)	5	460.95	-	-	5	460.95
	Gondia	Iron ore	-	-	1	9.32	1	9.32
	Nagpur	Dolomite	-	-	1	55.63	1	55.63
	Nagpur	Manganese ore	13	382.78	-	-	13	382.78
	Nagpur	Sand (others)	4	191.88	-	-	4	191.88
	Sindhudurg	Feldspar	-	-	1	29.27	1	29.27
	Sindhudurg	Silica sand	-	-	2	138.61	2	138.61
	Yeotmal	Limestone	-	-	2	119.75	2	119.75
	Yeotmal	Sand (others)	1	44	-	-	1	44
		Total	**29**	**1445.46**	**14**	**564.39**	**39**	**2009.85**
Odisha	Bargarh	Limestone	-	-	1	304.32	1	304.32
	Dhenkanal	Chromite	-	-	2	847.49	2	847.49
	Ganjam	Sand (others)	1	2464.05	-	-	1	2464.05
	Jajpur	Chromite	-	-	7	3117.36	7	3117.36
	Jajpur	Iron ore	-	-	1	1812.99	1	1812.99
	Kalahandi	Ruby	-	-	3	120.80	3	120.80
	Keonjhar	Chromite	-	-	3	1930.17	3	1930.17
	Keonjhar	Iron ore	7	5343.43	8	4529.52	15	9872.95

Contd…

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Odisha (concld.)	Keonjhar	Manganese ore	2	1265.47	6	3415.62	8	4681.09
	Koraput	Bauxite	2	4647.27	-	-	2	4647.27
	Koraput	Limestone	-	-	2	1586.22	2	1586.22
	Nawapara	Garnet (Gem)	-	-	1	33.95	1	33.95
	Nawapara	Limestone	-	-	3	332.96	3	332.96
	Raygada	Manganese ore	-	-	1	501.67	1	501.67
	Sundargarh	Bauxite	1	117.44	-	-	1	117.44
	Sundargarh	Iron ore	4	2593.64	4	2180.9	8	4774.54
	Sundargarh	Limestone	1	793.97	-	-	1	793.97
		Total	**18**	**17225.27**	**42**	**20713.97**	**60**	**37939.24**
Rajasthan	Alwar	Copper ore	1	914.07	-	-	1	914.07
	Banswara	Graphite	-	-	1	123.75	1	123.75
	Banswara	Phosphorite	-	-	1	300	1	300
	Barmer	Gypsum	2	1100.66	3	726.03	5	1826.69
	Bikaner	Gypsum	3	562.02	15	6076.3	18	6638.32
	Dungarpur	Fluorite	-	-	4	292.3	4	292.3
	Dungarpur	Steatite	-	-	1	4.88	1	4.88
	Ganganagar	Gypsum	11	925.69	13	5087.85	24	6013.54
	Hanumangarh	Gypsum	-	-	3	368.09	3	368.09
	Jaisalmer	Gypsum	1	501.68	2	366.21	3	867.89
	Jaisalmer	Limestone	-	-	2	1998	2	1998
	Jalore	Fluorite	-	-	4	1075	4	1075
	Jalore	Gypsum	-	-	1	178.5	1	178.5
	Jhunjhunu	Copper ore	3	706.75	-	-	3	706.75

Contd…

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Rajasthan	Nagaur	Gypsum	-	-	4	2271.15	4	2271.15
(Concld.)	Nagaur	Limestone	-	-	3	4915.44	3	4915.44
	Pali	Gypsum	-	-	1	161.55	1	161.55
	Sirohi	Lead & Zinc ore	-	-	1	63	1	63
	Udaipur	Barytes	-	-	1	31	1	31
	Udaipur	Calcite	-	-	1	21.6	1	21.6
	Udaipur	Phosphorite	-	-	7	2105.68	7	2105.68
		Total	**21**	**4710.87**	**68**	**26166.33**	**89**	**30877.20**
Sikkim	Sikkim East	Copper ore	-	-	3	96.32	3	96.32
		Total	**-**	**-**	**3**	**96.32**	**3**	**96.32**
Tamil Nadu	Ariyalur	Limestone	-	-	6	624.53	6	624.53
	Cuddalore	Fireclay	-	-	1	6.61	1	6.61
	Kanchipuram	Silica sand	-	-	4	21.51	4	21.51
	Kanyakumari	Garnet	3	178.07	-	-	3	178.07
	Karur	Quartz	-	-	1	1.31	1	1.31
	Namakkal	Quartz	-	-	1	2.52	1	2.52
	Salem	Magnesite	3	223.81	-	-	3	223.81
	Salem	Quartz	-	-	1	0.28	1	0.28
	Sivaganga	Graphite	-	-	2	242.46	2	242.46

Contd…

Table-14 (concld.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Tamil Nadu	Tiruppur	Quartz	-	-	1	4.07	1	4.07
(concld.)	Tirunelveli	Garnet	-	-	1	4.36	1	4.36
	Tirunelveli	Limestone	-	-	2	31.67	2	31.67
	Vellore	Vermiculite	-	-	1	23.71	1	23.71
	Villupuram	Silica sand	-	-	1	3.73	1	3.73
	Virudhunagar	Limestone	-	-	2	449.66	2	449.66
		Total	**6**	**401.88**	**24**	**1416.42**	**30**	**1818.30**
Uttarakhand	Bageshwar	Magnesite	1	165.09	**-**	**-**	1	165.09
	Bageshwar	Steatite	1	5.37	**-**	**-**	1	5.37
		Total	**2**	**170.46**	**-**	**-**	**2**	**170.46**
West Bengal	Purulia	Phosphorite	**-**	**-**	1	13.47	1	13.47
	Purulia	Quartz	**-**	**-**	1	3.68	1	3.68
		Total	**-**	**-**	**2**	**17.15**	**2**	**17.15**

3.6 YEAR WISE STATUS OF EXPIRY OF MINING LEASES

Every mining lease is granted for a stipulated period and once this period expires the lessees shall have to apply for renewal to the respective State Governments as per the provisions under MCR, 1960. The period of leases varies from minimum 20 years to a maximum of 30 years. Further renewal(s) are possible for period or periods not exceeding 20 years in each case. Out of the total number of leases in the Directory (11,104), more than 2,308 leases will expire between 2014 and 2020. The year wise breakup of expiry of leases and state wise and year wise breakup of expiry of leases are given in Tables-15 and 16.

Table-15: Year wise Status of Expiry of Mining Leases as on 31/03/2013

Year of Expiry	No. of Leases	Percentage	Area (In Hect.)	Percentage
2014	214	9.27	15616.28	15.23
2015	288	12.48	16165.20	15.77
2016	337	14.60	16999.53	16.58
2017	336	14.56	8119.53	7.92
2018	381	16.51	18307.08	17.86
2019	348	15.08	11097.14	10.83
2020	404	17.50	16205.98	15.81
Total	**2308**	**100.00**	**102510.74**	**100.00**

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

Sl. No.	State	2014		2015		2016		2017		2018		2019		2020	
		No.	Area (Ha.)	No.	Area (Ha.)	No.	Area (Ha.)	No.	Area (Ha.)	No.	Area (Ha.)	No.	Area (Ha.)	No.	Area (Ha.)
1	Andhra Pradesh	36	8015.03	37	1574.85	55	1438.94	77	1849.38	81	1924.00	115	1515.09	170	4905.62
2	Assam	1	31	-	-	-	-	-	-	-	-	-	-	-	-
3	Chhattisgarh	11	293.47	23	405.54	20	435	18	1250.90	10	3543.39	17	771.55	12	508.32
4	Goa	1	76.87	-	-	-	-	-	-	01	65.24	-	-	-	-
5	Gujarat	25	390.36	22	131.42	23	2820.69	18	293.85	38	292.10	33	491.44	21	484.35
6	Haryana	2	557.08	11	1205.9	47	3733.95	-	-	2	58.35	8	357.46	4	331.09
7	Himachal Pradesh	-	-	1	3.72	-	-	1	23.57	-	-	2	236.13	1	3.07
8	Jammu & Kashmir	1	14.7	1	15.89	-	-	1	2.76	-	-	-	-	-	-
9	Jharkhand	10	602.06	14	279.56	6	53.34	-	-	1	5.62	-	-	7	681.23
10	Karnataka	9	404.64	16	5760.83	15	773.49	13	393.71	17	2161.56	20	809.41	36	1446.97
11	Kerala	4	259.49	8	510.23	8	23.15	8	13.11	3	504.68	2	68.76	4	6.15
12	Madhya Pradesh	35	1296.36	58	771.29	46	519.9	39	227.46	49	480.14	39	379.69	30	262.96
13	Maharashtra	8	149.73	7	1052.11	9	810.08	4	103.09	10	1430.42	2	93.84	12	2409.13
14	Meghalaya	-	-	-	-	-	-	1	60	-	-	-	-	-	-
15	Odisha	4	285.45	10	736.09	14	448.24	13	1020.04	14	940.82	11	3554.65	16	1487.72
16	Rajasthan	27	2897.61	25	3206.33	38	4907.26	57	2649.12	69	5389.58	49	2656.16	37	3388.31
17	Sikkim	-	-	-	-	-	-	1	18.32	-	-	-	-	1	34.80
18	Tamil Nadu	34	205.40	54	510.02	47	106.84	81	195.21	82	230.81	45	152.13	36	190.44
19	Uttar Pradesh	3	15.94	--	-	3	755.63	-	-	2	1272.07	-	-	1	4.68
20	Uttarakhand	2	113.30	-	-	4	163.99	4	19.01	1	4.97	3	5.76	15	59.30
21	West Bengal	1	7.79	1	1.42	2	9.03	-	-	1	3.33	2	5.07	1	1.84
	Total	**214**	**15616.28**	**288**	**16165.2**	**337**	**16999.53**	**336**	**8119.53**	**381**	**18307.08**	**348**	**11097.14**	**404**	**16205.98**

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 Governments and Union Territories are empowered to grant /execute/ renew / revoke prospecting licences (PL) under provisions of Mineral Concession Rules, 1960. The area restrictions for prospecting licences have been substantially liberalised by making such restrictions applicable state wise instead of the country as a whole.

4.1 STATE WISE DISTRIBUTION OF PROSPECTING LICENCES

As per information received from the State Governments/Union Territories, 104 prospecting licences were granted covering an area of 13,367 hectares during 2012-13 as compared to 115 prospecting licences covering 19,747 hectares area during 2011-12.

The States where prospecting licences were granted during 2012-13 include Madhya Pradesh (55), Rajasthan (27), Andhra Pradesh (14), Manipur (5) Uttarakhand (2) and Gujarat (1). Area wise, Madhya Pradesh 6,748 hectares, Rajasthan 2,906 hectares, Manipur 2,700 hectares, Andhra Pradesh 998 hectares, Uttarakhand 10 hectares and Gujarat 5 hectares.

4.2 MINERAL WISE DISTRIBUTION OF PROSPECTING LICENCES

Mineral wise, in 2012-13, prospecting licences granted were for limestone (14), manganese ore (10), laterite (6), red ochre & rock phosphate (4 each), China clay (3), garnet, iron ore, limestone (cement grade), semi precious stone, soapstone & siliceous earth (2 each) and calcite, diamond, mica & silica sand (1 each). Forty seven PLs were granted in respect of group of minerals.

The state wise and mineral wise distribution of prospecting licences granted during 2010-11 to 2012-13 is given in Table-17 and 18 respectively.

Table-17: Prospecting Licences Granted from 2010-11 to 2012-13 (By States)

State	2010-11		2011-12		2012-13	
	No.	Area (In Hect.)	No.	Area (In Hect.)	No.	Area (In Hect.)
Andhra Pradesh	9	3364.05	7	2040.16	14	997.53
Arunachal Pradesh	-	-	-	-	-	-
Chhattisgarh	5	71.47	4	1540.65	-	-
Gujarat	2	24.70	-	-	1	5.31
Jharkhand	10	2587.35	2	44.50	-	-
Madhya Pradesh	66	25637.41	67	4810.26	55	6748.16
Maharashtra	14	3282.20	2	1031.55	-	-
Manipur	-	-	4	6000.00	5	2700.00
Rajasthan	11	650.76	13	4190.27	27	2905.90
Tamil Nadu	1	2.02	-	-	-	-
Uttarakhand	13	62.17	16	89.19	2	9.8
Total	**131**	**35682.13**	**115**	**19746.58**	**104**	**13366.70**

Table-18: Prospecting Licences Granted from 2010-11 to 2012-13 (By Minerals)

Mineral	2010-11		2011-12		2012-13	
	No.	Area (In Hect.)	No.	Area (In Hect.)	No.	Area (In Hect.)
Barytes	1	4.09	2	8.26	-	-
China clay	-	-	1	166.04	3	554.47
Calcite	-	-	-	-	1	5.31
Chromite	-	-	4	6000.00	-	-
Cherty Dolomite	2	8.9	1	148.00	-	-
Diamond	-	-	1	902.49	1	902.49
Dolomite	3	13.91	7	107.90	-	-
Fireclay	-	-	1	4.80	-	-
Garnet (abrasive)	-	-	-	-	2	441.04
Galena	-	-	1	4.05	-	-
Graphite	-	-	1	12.91	-	-
Iron ore	14	3802.53	10	2746.63	2	107.48
Jasper	-	-	-	-	-	-
Laterite	4	76.94	4	162.28	6	90.76
Limestone	27	17778.40	14	6222.10	14	7492.72
Limestone (cement grade)	-	-	-	-	2	446.9
Magnesite	2	8.64	-	-	-	-
Manganese ore	18	3306.40	20	755.00	10	95.11
Mica	1	4.05	-	-	1	20.36
Quartz	-	-	1	26.57	-	-
Quartzite	1	4.52	-	-	-	-
Red ochre	2	13.90	3	85.87	4	271.61
Red Oxide	-	-	1	5.00	-	-
Rock Phosphate	-	-	1	26.41	4	805.19
Talc/Soapstone/steatite	10	49.44	16	89.19	2	9.80
Semi Precious Stone	-	-	-	-	2	25.18
Silica sand	6	225.00	1	3.19	1	22.50
Siliceous Earth	-	-	-	-	2	352.37
White Clay	1	4.70	-	-	-	-
Wollastonite	-	-	2	88.88	-	-
Yellow ochre	-	-	1	4.24	-	-
Group of minerals	39	10380.71	22	2176.77	47	1723.41
Total	**131**	**35682.13**	**115**	**19746.58**	**104**	**13366.70**

Reconnaissance Permits

Chapter 5

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

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

During the year 2012-13, the Govt. has approved/granted 4 Reconnaissance Permits covering a total area of 3303.50 sq.km. Out of these, the maximum numbers of RPs were in Madhya Pradesh (2) and Karnataka & West Bengal (1 each).

The details of Reconnaissance Permits approved/granted during 2012-13 are given in Table-19.

Table-19: Approval/Grant of Reconnaissance Permits during 2012-13

Sl. No.	State	Minerals	No. of RPs	Area in sq.km.
1.	Karnataka	Gold & Associated minerals	1	766.00
2	Madhya Pradesh	Diamond, Gold, Copper ore, & Associated minerals	1	570.00
3		Diamond	1	1037.50
4	West Bengal	Lead, Silver, Nickel & Iron ore	1	930.00
		Total	**4**	**3303.5**