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Bulletin of
MINING LEASES & PROSPECTING LICENCES, 2019
(Excluding Atomic Minerals, Coal, Lignite, Petroleum, Natural Gas and Minor Minerals)



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PREFACE

Indian Bureau of Mines (IBM) is mandated to maintain a repository of database on mineral sector. In pursuance, IBM is tasked with the compilation and perpetuation of Directory of Mining Leases in India which comprises detailed information on Mining Leases granted/executed. The titles namely, Bulletin of Mineral Information and Bulletin of Mining Leases and Prospecting Licences are regularly published based on this Directory.

The Bulletin of Mining Leases and Prospecting Licences 2019 (Excluding Atomic Minerals, Coal, Lignite, Petroleum, Natural Gas & Minor Minerals) is the 22nd edition under the series. It contains information on Mining Leases, Prospecting Licences and Composite Licences as on 31.3.2019. The information sourced from the Directory of Mining Leases after assortment and analysis is segregated into state-wise, district-wise and mineral-wise and sector-wise category and integrated into the text for easy comprehension. Further, the data on distribution of Mining Leases executed across the country have been demarcated and classified into high, medium and low mineral-potential bearing districts to facilitate easy assimilation.

A large portion of this publication is based on the Directory of Mining Leases as on 31.3.2019, which in turn is compiled from the data supplied by State Governments under the statutory provisions of Rule 59(2) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016. IBM is thankful to all the State Governments for furnishing information on mining leases, prospecting licences, composite licences (prospecting licence-cum-mining lease). I believe this publication would prove to be useful and handy to stakeholders in the Mines and Mineral sector looking for information on Mining Leases and Prospecting Licences across India.

New Delhi

Dated: 29-X-2020



Satendra Singh, IAS
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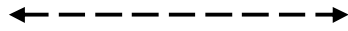
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Introduction

India is endowed with a wide variety of naturally occurring minerals. The country has a total geographical area of 328.73 million hectares. Of this, the mining lease area, except for fuel, atomic minerals and all minor minerals, constitutes around 0.09% (3,15,986.03 hectares). The position of mining leases as on 31.3.2019(P) reveals that there are as many as 3,527 mining leases (excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) granted in the country by the State Governments covering 41 minerals with a total lease area of about 3,15,986.03 hectares and spread over 23 States. These 41 minerals are broadly classified into metallic and non-metallic minerals. These are being exploited to cater to the needs of domestic mineral-based industries as well as to meet export demand to earn foreign exchange. This bulletin highlights state-wise, sector-wise and district-wise distribution of mining leases, frequency distribution of mining leases, prospecting licences and reconnaissance permits, etc. Though apparently negligible, the mining lease area of the country is considered as an important land use segment as it contributes to the economic growth of the country. Besides, it calls for environmental protection, as land under leases is subjected to degradation during the process of mining activities.

Under Rule 59 (1) of Minerals (other than Atomic and Hydrocarbons Energy Minerals) Concession Rules 2016, a copy of every mineral concession granted or renewed under the Act and the rules made thereunder 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 59 (2) of the said Rules 2016, a consolidated annual return of all mineral concessions granted or renewed under the Act and rules made thereunder shall be supplied by each State Government to the Controller General, Indian Bureau of Mines in such form as may be specified by him (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), not later the 30th day of June following the year to which the return relates.

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



Land Use Scenario

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

S. No.	Area/Segment	Total Area (P) (Million ha)	Percentage of Area
	Total Geographical Area	328.73	100
1	Net Area Sown (Crop Area)	139.51	42.44
2	Permanent Pastures & other Grazing Land	10.26	3.12
3	Forest	71.87	21.86
4	Mining Lease Area*	0.31	0.1
5	Fallow Lands	26.72	8.13
6	Land Not Available for Cultivation	44.02	13.39
7	Other area	36.04	10.96

Source: Directorate of Economics & Statistics, Department of Agriculture & Cooperation, Pocket Book on Agricultural Statistics, 2019;

* **Source:** ML Directory as on 31.03.2019(P) prepared by IBM based on data received from State Govts./UTs. (Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals); (P) : Provisional

The mining lease area constitutes around 3,15,986.03 hectares which is approximately 0.1% 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.



Mining Leases

3.1 STATE WISE ANALYSIS

As per the Lease Directory as on 31.3.2019 (Provisional), there were 3,527 mining leases granted by State Governments for 41 different minerals, covering an area of 3,15,986.03 hectares in the country. States rich in minerals where maximum number of mining leases were granted are Madhya Pradesh (20%) followed by Tamil Nadu & Andhra Pradesh (13% each), Gujarat (12%), Karnataka (11%), Rajasthan (6%), Chhattisgarh, Odisha & Maharashtra (5% each), Jharkhand (4%) and Telangana (2%). These eleven States together account for about 96% of the total leases executed and the remaining twelve States where such leases were executed accounted for about 4 % of the total mining leases.

The maximum area in percentage covered under mining leases in different States are Odisha (17%) followed by Madhya Pradesh (13%), Karnataka (12%), Rajasthan (12%), Andhra Pradesh (9%), Gujarat & Chhattisgarh (8% each), Jharkhand (7%), Maharashtra (4%), Telangana & Tamil Nadu (3% each). These eleven States account for about 96% of the total mining lease area granted and the remaining 4 percent was accounted for by the rest twelve States.

The State-wise mining lease distribution together with lease areas as well as state-wise/district-wise distribution of mining leases as on 31.03.2019 (P) are furnished in Tables - 1 to 4.

Table – 1: State-wise Summary of Mining Lease Distribution
(Other than Atomic, Hydro carbons Energy & Minor Minerals)
As on 31.03.2019 (P)
(All India)

State	No. of Leases	Percentage	Area (In ha)	Percentage
Andhra Pradesh	453	12.84	27703.12	8.77
Assam	7	0.20	889.50	0.28
Bihar	1	0.03	53.38	0.02
Chhattisgarh	183	5.19	24565.95	7.77
Goa	15	0.42	2226.19	0.70
Gujarat	432	12.25	25829.83	8.17
Haryana	4	0.11	46.85	0.01
Himachal Pradesh	43	1.22	2468.44	0.78
Jammu & Kashmir	37	1.05	2020.40	0.64
Jharkhand	146	4.14	21980.87	6.96
Karnataka	376	10.66	39349.81	12.45
Kerala	8	0.23	1687.40	0.54
Madhya Pradesh	702	19.90	40555.40	12.83
Maharashtra	169	4.79	14106.03	4.46
Meghalaya	21	0.60	789.34	0.25
Odisha	172	4.88	55108.72	17.44
Rajasthan	195	5.53	33394.21	10.57
Sikkim	3	0.08	96.32	0.03
Tamil Nadu	464	13.16	9061.66	2.87
Telangana	84	2.38	10887.16	3.45
Uttar Pradesh	4	0.11	2960.19	0.94
Uttarakhand	7	0.20	191.79	0.06
West Bengal	1	0.03	13.47	0.01
All India	3527	100.00	315986.03	100.00

Sources: Respective State Governments (DGMs/DMGs etc.); The data received from respective regional offices of IBM have also been taken into account, wherever necessary.

(P): Provisional

Table-2: Mineral-Wise Summary of Mining Lease Distribution
(Other than Atomic, Hydro carbons Energy & Minor Minerals)
As on 31.03.2019 (P)
(All India)

Sl. No.	Mineral	No. of Leases	Lease Area (ha)
1	Amethyst	3	6.63
2	Apatite	1	16.12
3	Aquamarine	1	24.29
4	Bauxite	372	30520.59
5	Borax	1	159.00
6	Chromite	27	7687.85
7	Copper ore	14	4250.05
8	Diamond	2	275.96
9	Emerald	1	46.32
10	Epidote	1	4.05
11	Flint stone	2	11.77
12	Fluorite	11	331.19
13	Garnet	31	188.18
14	Garnet(gem)	2	38.22
15	Gold	11	6971.89
16	Graphite	37	1581.56
17	Iolite	5	61.79
18	Iron ore	426	65842.07
19	Kyanite	27	1471.44
20	Lead & zinc ore	9	6937.79
21	Limeshell	24	2779.88
22	Limestone	1990	166331.80
23	Magnesite	39	2324.87
24	Manganese ore	268	12474.84
25	Marl	1	4.23
26	Moulding sand	4	24.75
27	Perlite	1	144.88
28	Phosphorite	10	2057.52
29	Rock phosphate	1	13.20
30	Rock salt	1	8.12
31	Ruby	1	27.66
32	Sapphire	1	673.40
33	Semi-precious stones	17	276.85
34	Siliceous earth	46	324.03
35	Sillimanite	1	4.64
36	Stibnite	1	40.47
37	Tin	13	291.23
38	Vermiculite	59	1004.89
39	White clay	7	57.31
40	White shale	42	367.12
41	Wollastonite	16	327.58
	Total	3527	315986.03

Sources: Respective State Governments (DGMs/DMGs etc.); The data received from respective regional offices of IBM have also been taken into account wherever necessary.

(P): Provisional

**Table – 3 : State-wise/Mineral-wise Distribution of Mining Lease
As on 31.3.2019(P)**

State	Minerals	No. of Leases	Area (In ha)
Andhra Pradesh	Apatite	1	16.12
	Garnet	4	4.71
	Gold	1	597.82
	Iron ore	59	2442.85
	Kyanite	2	72.45
	Lead & Zinc ore	1	15.89
	Limeshell	3	46.74
	Limestone	230	22252.25
	Manganese ore	38	772.01
	Semi-precious Stones	13	124.60
	Vermiculite	52	933.25
	White clay	7	57.31
	White shale	42	367.12
	Total	453	27703.12
Assam	Limestone	7	889.50
	Total	7	889.50
Bihar	Limestone	1	53.38
	Total	1	53.38
Chhattisgarh	Bauxite	28	5757.17
	Graphite	1	67.11
	Iron ore	24	8348.63
	Limestone	114	10096.06
	Moulding sand	4	24.75
	Tin	12	272.23
	Total	183	24565.95

contd...

Table-3 (contd)

State	Minerals	No. of Leases	Area (In ha)
Goa	Bauxite	4	1632.19
	Iron ore	11	594.00
	Total	15	2226.19
Gujarat	Bauxite	146	5458.27
	Copper ore	1	184.98
	Fluorite	2	63.20
	Limestone	281	19974.27
	Marl	1	4.23
	Perlite	1	144.88
	Total	432	25829.83
Haryana	Limestone	4	46.85
	Total	4	46.85
Himachal Pradesh	Limestone	42	2460.32
	Rock salt	1	8.12
	Total	43	2468.44
Jammu & Kashmir	Borax	1	159.00
	Limestone	34	702.70
	Magnesite	1	485.30
	Sapphire	1	673.40
	Total	37	2020.40

Table-3 (contd)

State	Minerals	No. of Leases	Area (In ha)
Jharkhand	Bauxite	44	3458.45
	Copper ore	3	2313.37
	Flint stone	2	11.77
	Garnet	1	8.20
	Gold	2	74.05
	Graphite	16	580.40
	Iron ore	30	9805.79
	Kyanite	7	1032.00
	Limestone	40	4675.65
	Manganese ore	1	21.19
	Total	146	21980.87
Karnataka	Bauxite	5	370.02
	Chromite	5	691.40
	Copper ore	2	416.53
	Gold	8	6300.02
	Graphite	4	235.03
	Iron ore	122	9799.23
	Kyanite	6	45.54
	Limeshell	15	1374.13
	Limestone	144	16711.24
	Magnesite	9	163.83
	Manganese ore	54	3234.53
	Vermiculite	2	8.31
	Total	376	39349.81
Kerala	Graphite	1	1.25
	Iron ore	1	86.06
	Limeshell	5	1354.40
	Limestone	1	245.69
	Total	8	1687.40

Table-3 (contd)

State	Minerals	No. of Leases	Area (In ha)
Madhya Pradesh	Bauxite	96	1616.13
	Copper ore	1	480.10
	Diamond	2	275.96
	Iron ore	41	451.09
	Lead & Zinc ore	1	8.93
	Limestone	459	35753.77
	Manganese ore	95	1765.08
	Phosphorite	5	150.67
	Rock Phosphate	1	13.20
	Stibnite	1	40.47
	Total	702	40555.40
Maharashtra	Bauxite	38	4838.61
	Chromite	1	16.22
	Fluorite	1	31.22
	Iron ore	32	1754.44
	Kyanite	8	162.47
	Limestone	46	6190.08
	Manganese ore	43	1112.99
	Total	169	14106.03
Meghalaya	Limestone	20	784.70
	Sillimanite	1	4.64
	Total	21	789.34

Table-3 (contd)

State	Minerals	No. of Leases	Area (In ha)
Odisha	Aquamarine	1	24.29
	Bauxite	6	6849.87
	Chromite	21	6980.23
	Garnet	2	67.06
	Garnet (Gems)	1	33.95
	Graphite	9	422.04
	Iolite	5	61.79
	Iron ore	84	30259.98
	Limestone	16	5365.78
	Manganese ore	21	4844.82
	Ruby	1	27.66
	Semi-precious stones	4	152.25
	Tin ore	1	19.00
	Total	172	55108.72
Rajasthan	Bauxite	1	123.20
	Copper Ore	4	758.75
	Emerald	1	46.32
	Epidote	1	4.05
	Fluorite	8	236.77
	Garnet	19	86.37
	Garnet (Gem)	1	4.27
	Iron ore	17	2248.79
	Kyanite	4	158.98
	Lead & Zinc ore	7	6912.97
	Limestone	57	20190.49
	Magnesite	4	19.75
	Manganese ore	1	18.89
	Phosphorite	4	1893.38
Siliceous earth	46	324.03	

Table-3 (contd)

State	Minerals	No. of Leases	Area (In ha)
	Vermiculite	4	39.62
	Wollastonite	16	327.58
	Total	195	33394.21
Sikkim	Copper ore	3	96.32
	Total	3	96.32
Tamil Nadu	Bauxite	4	416.68
	Graphite	6	275.73
	Limeshell	1	4.61
	Limestone	431	6862.57
	Magnesite	21	1478.36
	Vermiculite	1	23.71
	Total	464	9061.66
Telangana	Amethyst	3	6.63
	Garnet	5	21.84
	Iron ore	5	51.21
	Limestone	56	10102.15
	Manganese ore	15	705.33
	Total	84	10887.16
Uttar Pradesh	Limestone	4	2960.19
	Total	4	2960.19
Uttarakhand	Limestone	3	14.16
	Magnesite	4	177.63
	Total	7	191.79
West Bengal	Phosphorite	1	13.47
	Total	1	13.47

Source: Information received from respective State Government Departments.

(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) P:- Provisional

**Table-4 : State-wise/District-wise/Mineral-wise Distribution of Mining Leases
As on 31.3.2019(P)**

State	Districts	Minerals	No. of Leases	Area (In ha)
Andhra Pradesh	Anantapur	Iron ore	8	196.59
		Limestone	33	1885.45
		White Shale	1	7.02
		Total	42	2089.06
	Cuddapah	Iron ore	11	1011.53
		Lead & Zinc ore	1	15.89
		Limestone	23	3794.19
		White Shale	3	139.16
		Total	38	4960.77
	Guntur	Limestone	33	4799.41
		Total	33	4799.41
	Krishna	Iron ore	5	25.27
		Limestone	13	3210.31
		Total	18	3235.58
	Kurnool	Gold	1	597.82
		Iron ore	29	448.09
		Limestone	124	8546.17
		White clay	7	57.31
		White shale	38	220.94
		Total	199	9870.33
	Nellore	Iron ore	2	222.22
		Limeshell	2	42.74
		Vermiculite	52	933.25
Total		56	1198.21	
Prakasam	Garnet	4	4.71	
	Iron ore	4	539.15	
	Kyanite	2	72.45	
	Total	10	616.31	

contd...

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)	
Andhra Pradesh (concl'd)	Srikakulam	Limeshell	1	4.00	
		Total	1	4.00	
	Visakhapatnam	Apatite	1	16.12	
		Limestone	4	16.72	
		Semi-precious Stones	13	124.60	
		Total	18	157.44	
	Vizianagaram	Manganese ore	38	772.01	
		Total	38	772.01	
	Assam	Karbi Anglong	Limestone	1	171.00
			Total	1	171.00
North Cachar Hills		Limestone	6	718.50	
		Total	6	718.50	
Bihar	Rohtas	Limestone	1	53.38	
		Total	1	53.38	
Chhattisgarh	Balod	Iron ore	4	2562.69	
		Total	4	2562.69	
	Baloda Bazar	Limestone	25	5484.88	
		Total	25	5484.88	
	Balrampur	Bauxite	4	4000.55	
		Graphite	1	67.11	
Total		5	4067.66		

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Chhattisgarh (contd)	Bastar	Limestone	17	53.88
		Total	17	53.88
	Bemetara	Limestone	1	17.90
		Total	1	17.90
	Bilaspur	Limestone	3	1788.62
		Total	3	1788.62
	Dantewara	Iron ore	7	2998.71
		Tin	7	99.81
		Total	14	3098.52
	Durg	Limestone	47	1601.91
		Moulding sand	2	8.08
		Total	49	1609.99
	Janjgir-Champa	Limestone	3	713.32
		Total	3	713.32
	Jashpur	Bauxite	2	40.61
		Total	2	40.61
	Kabirdham	Bauxite	3	669.64
		Limestone	2	13.76
		Total	5	683.40
	Kanker	Bauxite	3	13.22
		Iron ore	10	2404.27
Moulding sand		1	13.84	
Total		14	2431.33	

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Chhattisgarh (concl'd)	Kondagaon	Bauxite	2	27.28
		Total	2	27.28
	Narayanpur	Iron ore	1	192.25
		Total	1	192.25
	Raigarh	Limestone	1	7.41
		Total	1	7.41
	Raipur	Limestone	15	414.38
		Total	15	414.38
	Rajnandgaon	Iron ore	2	190.71
		Moulding sand	1	2.83
		Total	3	193.54
	Sukma	Tin	5	172.42
		Total	5	172.42
	Surguja	Bauxite	14	1005.87
Total		14	1005.87	
Goa	North Goa	Iron ore	5	234.52
		Total	5	234.52
	South Goa	Bauxite	4	1632.19
		Iron ore	6	359.48
		Total	10	1991.67

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Gujarat	Amreli	Bauxite	1	12.68
		Limestone	6	1844.36
		Total	7	1857.04
	Aravali	Bauxite	4	16.39
		Total	4	16.39
	Banaskantha	Copper ore	1	184.98
		Limestone	1	3.76
		Total	2	188.74
	Bhavnagar	Limestone	7	2971.03
		Total	7	2971.03
	Chhota Udaipur	Fluorite	2	63.20
		Total	2	63.20
	Devbhoomi Dwarka	Bauxite	113	3183.88
		Limestone	33	1220.80
		Marl	1	4.23
		Total	147	4408.91
	Gir Somnath	Limestone	73	3843.57
		Total	73	3843.57
	Jamnagar	Limestone	26	1672.01
		Total	26	1672.01
	Junagarh	Limestone	18	227.70
Total		18	227.70	

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Gujarat (concl'd)	Kheda	Bauxite	10	63.57
		Total	10	63.57
	Kachchh	Bauxite	11	2049.46
		Limestone	9	5982.57
		Total	20	8032.03
	Porbandar	Bauxite	6	112.29
		Limestone	103	2193.94
		Total	109	2306.23
	Rajkot	Limestone	3	12.00
		Perlite	1	144.88
		Total	4	156.88
	Sabarkantha	Bauxite	1	20.00
		Limestone	2	2.53
Total		3	22.53	
Haryana	Mahendragarh	Limestone	4	46.85
		Total	4	46.85
Himachal Pradesh	Bilaspur	Limestone	1	231.25
		Total	1	231.25
	Mandi	Limestone	1	725.86
		Rock Salt	1	8.12
		Total	2	733.98
	Sirmur	Limestone	37	477.13
		Total	37	477.13
	Solan	Limestone	3	1026.08
Total		3	1026.08	

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Jammu & Kashmir	Anantnag	Limestone	22	216.15
		Total	22	216.15
	Kishtwar	Sapphire	1	673.40
		Total	1	673.40
	Leh	Borax	1	159.00
		Total	1	159.00
	Pulwama	Limestone	9	249.41
		Total	9	249.41
	Reasi	Magnesite	1	485.30
		Total	1	485.30
	Srinagar	Limestone	3	237.14
		Total	3	237.14
Jharkhand	Bokaro	Limestone	1	17.57
		Total	1	17.57
	Garwah	Limestone	3	1179.44
		Total	3	1179.44
	Gumla	Bauxite	26	2318.01
		Total	26	2318.01

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Jharkhand (contd)	Hazaribagh	Garnet	1	8.20
		Limestone	2	84.83
		Total	3	93.03
	Latehar	Bauxite	2	476.04
		Graphite	1	7.22
		Iron ore	1	5.04
		Total	4	488.30
	Lohardaga	Bauxite	16	664.40
		Total	16	664.40
	Palamu	Graphite	15	573.18
		Iron ore	2	31.04
		Limestone	1	1043.41
		Total	18	1647.63
	Ramgarh	Limestone	4	87.43
		Total	4	87.43
	Ranchi	Limestone	4	1289.53
		Total	4	1289.53
	Sahebganj	Flint Stone	2	11.77
		Total	2	11.77
	Saraikela-Kharaswan	Kyanite	4	936.31
Total		4	936.31	
Singhbhum (East)	Copper ore	3	2313.37	
	Gold	2	74.05	
	Kyanite	3	95.69	
	Total	8	2483.11	

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Jharkhand (concl'd)	Singhbhum (West)	Iron ore	27	9769.71
		Limestone	25	973.44
		Manganese ore	1	21.19
		Total	53	10764.34
Karnataka	Bagalkote	Iron ore	3	74.84
		Limestone	88	5751.21
		Total	91	5826.05
	Belgavi	Bauxite	5	370.02
		Iron ore	1	20.23
		Limestone	19	1559.43
		Manganese ore	1	40.47
		Total	26	1990.15
	Ballari	Iron ore	85	7866.58
		Manganese ore	7	404.86
		Total	92	8271.44
	Chikmagalur	Iron ore	1	4.89
		Total	1	4.89
	Chitradurga	Copper ore	2	416.53
		Iron ore	13	595.65
		Limestone	13	1618.89
		Manganese ore	22	964.32
		Total	50	3595.39

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Karnataka (contd)	Davanagere	Iron ore	1	38.45
		Manganese ore	4	79.51
		Total	5	117.96
	Gadag	Iron ore	4	190.37
		Total	4	190.37
	Kalaburgi	Gold	1	55.73
		Limestone	18	7319.93
		Total	19	7375.66
	Hassan	Chromite	5	691.40
		Kyanite	1	2.93
		Total	6	694.33
	Kolar	Gold	1	5213.21
		Total	1	5213.21
	Mysuru	Graphite	4	235.03
		Kyanite	5	42.61
		Magnesite	9	163.83
		Vermiculite	2	8.31
		Total	20	449.78
	Uttara Kannada	Iron ore	5	522.30
		Limeshell	12	1106.64
		Manganese ore	9	811.48
		Total	26	2440.42

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Karnataka (concl'd)	Raichur	Gold	5	993.04
		Total	5	993.04
	Shivamogga	Limestone	1	40.12
		Manganese ore	2	543.60
		Total	3	583.72
	Tumakuru	Gold	1	38.04
		Iron ore	9	485.92
		Limestone	4	418.75
		Manganese ore	9	390.29
		Total	23	1333.00
	Udupi	Limeshell	3	267.49
		Total	3	267.49
	Yadgir	Limestone	1	2.91
Total		1	2.91	
Kerala	Alappuzha (Alleppey)	Limeshell	3	759.90
		Total	3	759.90
	Ernakulam	Graphite	1	1.25
		Total	1	1.25
	Kottayam	Limeshell	2	594.50
		Total	2	594.50

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Kerala (concl'd)	Kozhikode	Iron ore	1	86.06
		Total	1	86.06
	Palakkad	Limestone	1	245.69
		Total	1	245.69
Madhya Pradesh	Alirajpur	Manganese ore	1	15.26
		Total	1	15.26
	Anuppur	Bauxite	3	170.82
		Total	3	170.82
	Balaghat	Bauxite	1	40.47
		Copper ore	1	480.10
		Iron ore	1	4.95
		Limestone	6	33.89
		Manganese ore	65	1421.60
		Total	74	1981.01
	Betul	Lead & zinc ore	1	8.93
		Total	1	8.93
	Chhatarpur	Iron ore	2	8.35
		Phosphorite	1	48.76
Rock phosphate		1	13.20	
Total		4	70.31	
Chhindwara	Manganese ore	16	183.54	
	Total	16	183.54	
Damoh	Limestone	9	2649.90	
	Stibnite	1	40.47	
	Total	10	2690.37	

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Madhya Pradesh (contd)	Dhar	Limestone	24	2155.43
		Total	24	2155.43
	Gwalior	Iron ore	3	19.90
		Total	3	19.90
	Jabalpur	Bauxite	4	36.56
		Iron ore	30	371.41
		Manganese ore	8	51.46
		Total	42	459.43
	Jhabua	Manganese ore	4	44.66
		Phosphorite	3	49.11
		Total	7	93.77
	Katni	Bauxite	28	415.80
		Iron ore	2	13.62
		Limestone	159	5156.34
		Manganese ore	1	48.56
		Total	190	5634.32
	Morena	Limestone	4	647.63
		Total	4	647.63
	Narasinhpur	Limestone	4	17.19
		Total	4	17.19

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Madhya Pradesh (concl'd)	Neemuch	Limestone	9	1956.40
		Total	9	1956.40
		Panna	Diamond	2
	Limestone		2	2093.98
	Total		4	2369.94
	Rewa	Bauxite	15	154.22
		Limestone	35	2768.53
		Total	50	2922.75
	Sagar	Iron ore	2	16.67
		Limestone	2	55.40
		Phosphorite	1	52.80
		Total	5	124.87
	Satna	Bauxite	42	787.78
		Iron ore	1	16.19
		Limestone	201	17652.92
		Total	244	18456.89
	Sidhi	Bauxite	3	10.48
		Limestone	4	566.16
		Total	7	576.64

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Maharashtra	Bhandara	Chromite	1	16.22
		Kyanite	8	162.47
		Manganese ore	7	352.81
		Total	16	531.50
	Chandrapur	Fluorite	1	31.22
		Iron ore	3	29.91
		Limestone	14	3496.30
		Total	18	3557.43
	Gadchiroli	Iron ore	8	401.03
		Total	8	401.03
	Gondia	Iron ore	4	26.97
		Total	4	26.97
	Kolhapur	Bauxite	18	3241.77
		Iron ore	1	143.95
		Total	19	3385.72
	Nagpur	Manganese ore	36	760.18
		Total	36	760.18
	Raigad	Bauxite	11	665.41
		Total	11	665.41
	Ratnagiri	Bauxite	9	931.43
		Total	9	931.43

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)	
Maharashtra (concl'd)	Sindhudurg	Iron ore	16	1152.58	
		Total	16	1152.58	
	Yavatmal	Limestone	32	2693.78	
		Total	32	2693.78	
	Meghalaya	Jaintia Hills	Limestone	16	299.92
			Total	16	299.92
Khasi Hills East		Limestone	4	484.78	
		Total	4	484.78	
Khasi Hills West		Sillimanite	1	4.64	
		Total	1	4.64	
Odisha	Bargarh	Limestone	1	502.21	
		Total	1	502.21	

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Odisha (contd)	Bolangir	Graphite	2	66.20
		Total	2	66.20
	Dhenkanal	Chromite	3	939.32
		Total	3	939.32
	Jajpur	Chromite	16	4318.10
		Iron ore	1	1812.99
		Total	17	6131.09
	Kalahandi	Garnet	2	67.06
		lolite	4	20.31
		Ruby	1	27.66
		Semi-precious stones	1	17.12
		Total	8	132.15
	Keonjhar	Chromite	2	1722.81
		Iron ore	45	19362.58
		Manganese ore	6	1701.20
		Total	53	22786.59
	Koraput	Bauxite	4	5343.69
		Graphite	1	58.70
		Limestone	2	1586.22
		Total	7	6988.61
	Malkangiri	Tin	1	19.00
		Total	1	19.00

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Odisha (concl'd)	Mayurbhanj	Iron ore	4	1088.29
		Total	4	1088.29
	Nawapara	Garnet (Gem)	1	33.95
		Graphite	4	116.06
		Limestone	3	332.96
		Total	8	482.97
	Raygada	Bauxite	1	1388.74
		Graphite	2	181.08
		lolite	1	41.48
		Manganese ore	3	541.78
		Semi-precious stones	2	112.03
		Total	9	2265.11
	Sambalpur	Aquamarine	1	24.29
		Total	1	24.29
	Sonepur	Semi-precious stones	1	23.10
		Total	1	23.10
	Sundargarh	Bauxite	1	117.44
		Iron ore	34	7996.12
		Limestone	10	2944.39
		Manganese ore	12	2601.84
		Total	57	13659.79

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Rajasthan	Ajmer	Emerald	1	46.32
		Garnet	8	37.53
		Lead & Zinc Ore	1	480.45
		Limestone	2	1304.83
		Magnesite	2	9.75
		Vermiculite	3	34.62
		Wollastonite	11	111.86
		Total	28	2025.36
	Alwar	Iron ore	1	69.37
		Total	1	69.37
	Banswara	Limestone	4	69.68
		Manganese ore	1	18.89
		Total	5	88.57
	Barmer	Siliceous earth	22	166.03
		Total	22	166.03
	Bhilwara	Garnet	5	20.72
		Garnet (Gem)	1	4.27
		Iron ore	2	1989.88
		Kyanite	3	154.02
		Lead & Zinc ore	1	1200.00
		Total	12	3368.89
	Bundi	Limestone	1	1516.88
		Total	1	1516.88
	Chittorgarh	Limestone	11	5824.51
		Total	11	5824.51
	Dausa	Vermiculite	1	5.00
		Total	1	5.00

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Rajasthan (contd)	Dungarpur	Fluorite	2	9.95
		Total	2	9.95
	Jaipur	Epidote	1	4.05
		Iron ore	6	48.62
		Limestone	8	968.53
		Total	15	1021.20
		Jaisalmer	Limestone	2
	Siliceous earth		24	158.00
	Total		26	2156.40
	Jalore	Fluorite	6	226.82
		Total	6	226.82
	Jhunjhunu	Copper Ore	3	706.75
		Iron ore	6	67.33
		Total	9	774.08
	Kota	Limestone	1	895.42
		Total	1	895.42
	Nagaur	Limestone	7	2903.81
		Total	7	2903.81
	Pali	Limestone	9	2591.25
		Magnesite	2	10.00
Wollastonite		2	28.86	
Total		13	2630.11	
Pratapgarh	Limestone	3	3.00	
	Total	3	3.00	

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Rajasthan (concl'd)	Rajsamand	Garnet	1	4.36
		Lead & Zinc ore	3	1725.82
		Total	4	1730.18
	Sikar	Iron ore	2	73.59
		Limestone	2	73.51
		Total	4	147.10
	Sirohi	Copper ore	1	52.00
		Lead & Zinc ore	1	63.00
		Limestone	5	1124.03
		Wollastonite	2	74.34
		Total	9	1313.37
	Tonk	Garnet	5	23.76
		Total	5	23.76
	Udaipur	Bauxite	1	123.20
		Kyanite	1	4.96
		Lead & Zinc ore	1	3443.70
		Limestone	2	916.64
		Phosphorite	4	1893.38
		Wollastonite	1	112.52
		Total	10	6494.40

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Sikkim	Sikkim East	Copper ore	3	96.32
		Total	3	96.32
Tamil Nadu	Ariyalur	Limestone	73	2658.69
		Total	73	2658.69
	Coimbatore	Limestone	4	217.95
		Total	4	217.95
	Cuddalore	Limeshell	1	4.61
		Total	1	4.61
	Dindigul	Limestone	38	590.93
		Total	38	590.93
	Karur	Limestone	40	284.54
		Magnesite	2	4.41
		Total	42	288.95
	Krishnagiri	Limestone	2	2.46
		Total	2	2.46
	Madurai	Graphite	2	5.67
Limestone		15	58.04	
Total		17	63.71	
Namakkal	Bauxite	3	226.15	
	Limestone	36	111.17	
	Magnesite	3	4.89	
	Total	42	342.21	

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Tamil Nadu (contd)	Perambalur	Limestone	32	136.04
		Total	32	136.04
	Salem	Bauxite	1	190.53
		Limestone	52	432.55
		Magnesite	14	1461.80
		Total	67	2084.88
	Sivaganga	Graphite	4	270.06
		Total	4	270.06
	Theni (Madurai)	Limestone	3	6.77
		Total	3	6.77
	Thoothukudi (Tuticorin)	Limestone	15	330.70
		Total	15	330.70
	Tiruchirappalli	Limestone	23	228.52
		Total	23	228.52
Tirunelveli	Limestone	69	657.71	
	Total	69	657.71	

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Tamil Nadu (concl'd)	Tiruppur	Magnesite	2	7.26
		Total	2	7.26
	Vellore	Vermiculite	1	23.71
		Total	1	23.71
	Virudhunagar	Limestone	29	1146.50
		Total	29	1146.50
Telangana	Adilabad	Limestone	10	2678.39
		Manganese ore	15	705.33
		Total	25	3383.72
	Hyderabad	Amethyst	2	1.69
		Total	2	1.69
	Karimnagar	Limestone	2	482.53
		Total	2	482.53
	Khammam	Garnet	5	21.84
		Iron ore	4	34.16
		Total	9	56.00
	Mahbubnagar	Limestone	1	173.60
Total		1	173.60	
Nalgonda	Amethyst	1	4.94	
	Limestone	38	5549.65	
	Total	39	5554.59	

Table-4 (contd)

State	Districts	Minerals	No. of Leases	Area (In ha)
Telangana (concl'd)	Rangareddi	Limestone	5	1217.98
		Total	5	1217.98
	Warangal	Iron ore	1	17.05
		Total	1	17.05
Uttar Pradesh	Sonbhadra	Limestone	4	2960.19
		Total	4	2960.19
Uttarakhand	Bageshwar	Magnesite	1	165.08
		Total	1	165.08
	Chamoli	Magnesite	1	4.13
		Total	1	4.13
Pithoragarh	Magnesite	2	8.42	
	Total	2	8.42	
	Tehri Garhwal	Limestone	3	14.16
		Total	3	14.16
West Bengal	Purulia	Phosphorite	1	13.47
		Total	1	13.47

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

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3.2 DISTRICT WISE ANALYSIS

(i) High Mineral Potential Districts

District- wise analysis indicates that the total number of mineral-bearing districts is around 196 and that they are spread across 23 states in the country. Out of these, 5 districts in 3 states are considered as high mineral potential districts wherein more than 100 mining leases each have been granted. A total of 889 mining leases have been granted in these districts covering an area of about 40,676.68 hectares. These constitute about 25% of total number of mining leases in the country and cover around 13% 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 758 such mining leases granted in 11 districts in 7 states covering an area of about 73,732.28 hectares. These constitute 22% of the total number of mining leases in the country and cover over 23% 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 1,880 mining leases granted in 180 such districts in 23 states covering an area of about 2,01,577.07 hectares in the country. These account for 53% of the total number of mining leases in the country covering 64% 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 Tables-5 to 7.

Table - 5 : High Mineral Potential Districts(P)

S. No.	State	District	No. of Leases	No. of Minerals	Area (In ha)
1	Andhra Pradesh	Kurnool	199	5	9870.33
2	Gujarat	Devbhoomi Dwarka	147	3	4408.91
3	Gujarat	Porbandar	109	2	2306.23
4	Madhya Pradesh	Katni	190	4	5634.32
5	Madhya Pradesh	Satna	244	3	18456.89
Total			889		40676.68

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

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Table – 6: Medium Mineral Potential Districts(P)

S. No.	State	District	No. of Leases	No. of Minerals	Area (In ha)
1	Andhra Pradesh	Nellore	56	3	1198.21
2	Gujarat	Gir Somnath	73	1	3843.57
3	Jharkhand	Singhbhum (West)	53	3	10764.34
4	Karnataka	Bagalkote	91	2	5826.05
5	Karnataka	Ballari	92	2	8271.44
6	Madhya Pradesh	Balaghat	74	5	1981.01
7	Odisha	Keonjhar	53	3	22786.59
8	Odisha	Sundargarh	57	4	13659.79
9	Tamil Nadu	Ariyalur	73	1	2658.69
10	Tamil Nadu	Salem	67	3	2084.88
11	Tamil Nadu	Tirunelveli	69	2	657.71
Total			758		73732.28

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

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Table – 7 : Low Mineral Potential Districts(P)

S. No.	State	No. of Districts	No. of Leases	Area (In ha)
1	Andhra Pradesh	8	198	16634.58
2	Assam	2	7	889.50
3	Bihar	1	1	53.38
4	Chhattisgarh	19	183	24565.95
5	Goa	2	15	2226.19
6	Gujarat	11	103	15271.12
7	Haryana	1	4	46.85
8	Himachal Pradesh	4	43	2468.44
9	Jammu & Kashmir	6	37	2020.40
10	Jharkhand	12	93	11216.53
11	Karnataka	15	193	25252.32
12	Kerala	5	8	1687.40
13	Madhya Pradesh	17	194	14483.18
14	Maharashtra	10	169	14106.03
15	Meghalaya	3	21	789.34
16	Odisha	12	62	18662.34
17	Rajasthan	22	195	33394.21
18	Sikkim	1	3	96.32
19	Tamil Nadu	15	255	3660.38
20	Telangana	8	84	10887.16
21	Uttar Pradesh	1	4	2960.19
22	Uttarakhand	4	7	191.79
23	West Bengal	1	1	13.47
Total		180	1880	201577.07

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

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3.3 MINERAL-WISE ANALYSIS

There are 41 naturally occurring minerals (excluding coal, lignite, petroleum, natural gas, atomic minerals and minor 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 (Minerals mentioned under Part-C of the First Schedule of MMDR Act, 1957) 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 ore and lead & zinc ores; noble metal group includes gold; and precious stone includes diamond, ruby & sapphire. At present, there are no commercial mining leases granted for silver and platinum group of metals in the country.

There are 10 minerals under Scheduled Minerals for which mining leases are granted as on 31.3.2019 (P). The number of mining leases for which mining leases are granted as on 31.3.2019 (P) are 1,131, i.e. 32% of the total mining leases accounting for an area of about 1,35,662.10 hectares which is 43% of the total mining lease area (Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) in the country. Out of the ten scheduled minerals, the total number of mining leases granted for iron ore is placed at 426 followed by bauxite (372), manganese ore (268), chromite (27), copper ore (14), gold (11) and lead & zinc ore (9). These seven minerals account for 1,127 mining leases, i.e., 99.65% of the mining leases under this category accounting for an area of about 1,34,685.08 hectares which is 99.28% 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 31 Non-Scheduled or Industrial minerals, for which leases are granted as on 31.3.2019(P). The number of mining leases for which mining leases are granted as on 31.3.2019 (P) are 2,396, i.e. 68% of the total mining leases accounting for an area of about 1,80,323.93 hectares which is 57% of the total mining lease area (Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) in the country. Distribution of mining leases for Non-Scheduled minerals are given in Table-9.

**Table – 8 : Distribution of Mining Leases for Scheduled Minerals
As on 31.03.2019(P)**

S. No.	Minerals	No. of Leases	Area (In ha)
1	Bauxite	372	30520.59
2	Chromite	27	7687.85
3	Copper ore	14	4250.05
4	Diamond *	2	275.96
5	Gold	11	6971.89
6	Iron ore	426	65842.07
7	Lead & Zinc ore	9	6937.79
8	Manganese ore	268	12474.84
9	Ruby *	1	27.66
10	Sapphire *	1	673.40
	Total	1131	135662.10

* Precious stone

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

P:- Provisional

**Table – 9 : Distribution of Mining Leases for Non-Scheduled Minerals
As on 31.03.2019(P)**

S. No.	Minerals	No. of Leases	Area (In ha)
1	Amethyst	3	6.63
2	Apatite	1	16.12
3	Aquamarine	1	24.29
4	Borax	1	159.00
5	Emerald	1	46.32
6	Epidote	1	4.05
7	Flint Stone	2	11.77
8	Fluorite	11	331.19
9	Garnet	31	188.18
10	Garnet (Gem)	2	38.22
11	Graphite	37	1581.56
12	Iolite	5	61.79
13	Kyanite	27	1471.44
14	Limeshell	24	2779.88
15	Limestone	1990	166331.80
16	Magnesite	39	2324.87
17	Marl	1	4.23
18	Moulding Sand	4	24.75
19	Perlite	1	144.88
20	Phosphorite	10	2057.52
21	Rock phosphate	1	13.20
22	Rock Salt	1	8.12
23	Semi-precious stones	17	276.85
24	Siliceous earth	46	324.03
25	Sillimanite	1	4.64
26	Stibnite	1	40.47
27	Tin	13	291.23
28	Vermiculite	59	1004.89

Contd....

Table-9 Concl.d.

29	White clay	7	57.31
30	White shale	42	367.12
31	Wollastonite	16	327.58
	Total	2396	180323.93

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

P:- Provisional

3.4 FREQUENCY DISTRIBUTION OF MINING LEASES(P)

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.

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

Table – 10 : Category-wise Number of Minerals, their Mining Leases and Area of Leases (P)

Category	No. of Minerals	No. of Mining Leases		Lease Area	
		No. of Leases	Percentage	(In ha)	Percentage
I	1	1990	56.42	166331.80	52.64
II	-	-	-	-	-
III	2	798	22.63	96362.66	30.49
IV	1	268	7.60	12474.84	3.95
V	-	-	-	-	-
VI	1	59	1.67	1004.89	0.32
VII	36	412	11.68	39811.84	12.60
Total	41	3527	100.00	315986.03	100.00

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

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Table- 11 : Frequency Distribution of Mining Leases(P)

Category	Frequency of Leases	Minerals	No. of Leases	Area (In ha)
I	>1000	Limestone Total	1990 1990	166331.80 166331.80
II	Between 501 and 1000	Nil	-	-
III	Between 301 and 500	Iron ore Bauxite Total	426 372 798	65842.07 30520.59 96362.66
IV	Between 201 and 300	Manganese Ore Total	268 268	12474.84 12474.84
V	Between 101 and 200		-	-
VI	Between 51 and 100	Vermiculite Total	59 59	1004.89 1004.89
VII	Between 1 and 50	Amethyst Apatite Aquamarine Borax Chromite Copper Ore Diamond Emerald Epidote Flint Stone Fluorite Garnet Garnet (Gem) Gold Graphite Iolite Kyanite Lead & Zinc ore	3 1 1 1 27 14 2 1 1 2 11 31 2 11 37 5 27 9	6.63 16.12 24.29 159.00 7687.85 4250.05 275.96 46.32 4.05 11.77 331.19 188.18 38.22 6971.89 1581.56 61.79 1471.44 6937.79

contd...

Table-11 (concl'd)

Category	Frequency of Leases	Minerals	No. of Leases	Area (In ha)
VII (concl'd)	Between 1 and 50 (concl'd)	Limeshell	24	2779.88
		Magnesite	39	2324.87
		Marl	1	4.23
		Moulding sand	4	24.75
		Perlite	1	144.88
		Phosphorite	10	2057.52
		Rock phosphate	1	13.20
		Rock Salt	1	8.12
		Ruby	1	27.66
		Sapphire	1	673.40
		Semi-precious stones	17	276.85
		Siliceous earth	46	324.03
		Sillimanite	1	4.64
		Stibnite	1	40.47
		Tin	13	291.23
		White clay	7	57.31
		White shale	42	367.12
		Wollastonite	16	327.58
		Total	412	39811.84

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

P:- Provisional

3.5 SECTOR-WISE DISTRIBUTION OF MINING LEASES

Out of the total 3,527 mining leases in the country, 277 (7.85%) leases have been executed in the Public Sector, extending over an area of about 89,797.43 hectares (28.42%). The remaining 3,250 (92.15%) mining leases with an area of about 2,26,188.60 hectares (71.58%) 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 are being exploited by both Public and Private Sectors.

(a) Central Government Public Sector Undertakings

There are 101 mining leases under Central Government Public Sector Undertakings executed in 13 States for different minerals, covering an area of about 47,341.89 hectares. The States rich in minerals where maximum number of mining leases executed for Central Govt. Public Sector Undertakings are Madhya Pradesh 19 (19%), Jharkhand & Maharashtra {18 each (18% each)}, Chhattisgarh 14 (14%) and Odisha 11 (11%), These five States together account for about 80% of total leases executed under this category and the remaining 8 States account for the rest of the 20%.

The prominent States where maximum mining lease areas are located are Odisha (24%), Jharkhand (22%), Chhattisgarh (17%), Karnataka (14%), Madhya Pradesh (10%) and Andhra Pradesh & Telangana (3% each). These seven States account for 93% of the total lease area executed and the remaining six States account for the rest of the 7 percent.

(b) State Government Public Sector Undertakings

There are 176 number of mining leases executed in 17 States for different minerals, covering an area of 42,455.54 hectares. The States rich in minerals where there are maximum number of mining leases executed are Odisha 39 (22%), Karnataka 36 (20%), Chhattisgarh 22 (12%), Gujarat & Tamil Nadu 15 (9% each), Madhya Pradesh & Rajasthan 10 (6% each), Maharashtra 8 (5%) and Jharkhand 6 (3%). These nine States together account for about 92% of the total leases executed and the remaining eight States account for the rest of the 8 percent.

The prominent States where maximum mining lease areas located are Odisha (49%), Karnataka (18%), Rajasthan (9%), Gujarat (6%), Jharkhand & Tamil Nadu (4% each) and Jammu & Kashmir (3%). These seven States together account for around 93% of the total lease area executed while the remaining 10 States account for the rest of the 7 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 31.03.2019) (Provisional)
(Public Sector and Private Sector)**

S. No.	State	Total		Public Sector		Private Sector	
		No. of Leases	Area (In ha)	No. of Leases	Area (In ha)	No. of Leases	Area (In ha)
1	Andhra Pradesh	453	27703.12	5	2089.55	448	25613.57
2	Assam	7	889.50	3	371.00	4	518.5
3	Bihar	1	53.38	-	-	1	53.38
4	Chhattisgarh	183	24565.95	36	8887.23	147	15678.72
5	Goa	15	2226.19	-	-	15	2226.19
6	Gujarat	432	25829.83	15	2377.36	417	23452.47
7	Haryana	4	46.85	-	-	4	46.85
8	Himachal Pradesh	43	2468.44	3	412.75	40	2055.69
9	Jammu & Kashmir	37	2020.40	3	1246.80	34	773.6
10	Jharkhand	146	21980.87	24	12021.22	122	9959.65
11	Karnataka	376	39349.81	42	14252.1	334	25097.71
12	Kerala	8	1687.40	1	245.69	7	1441.71
13	Madhya Pradesh	702	40555.40	29	5466.11	673	35089.29
14	Maharashtra	169	14106.03	26	1039.37	143	13066.66
15	Meghalaya	21	789.34	1	139.67	20	649.67
16	Odisha	172	55108.72	50	31924.17	122	23184.55
17	Rajasthan	195	33394.21	13	4736.47	182	28657.74
18	Sikkim	3	96.32	3	96.32	-	-
19	Tamil Nadu	464	9061.66	18	2649.9	446	6411.76
20	Telangana	84	10887.16	3	1663.17	81	9223.99
21	Uttar Pradesh	4	2960.19	-	-	4	2960.19
22	Uttarakhand	7	191.79	1	165.08	6	26.71
23	West Bengal	1	13.47	1	13.47	-	-
	Total	3527	315986.03	277	89797.43	3250	226188.60

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) P: Provisional

Table – 13 : Sector-wise Distribution of Mining Leases (As on 31.03.2019) (P)
(Under Central Government and State Governments)

S. No.	State	Central Government		State Government		Total	
		No. of Leases	Area (In ha)	No. of Leases	Area (In ha)	No. of Leases	Area (In ha)
1	Andhra Pradesh	2	1559.54	3	530.01	5	2089.55
2	Assam	1	171.00	2	200.00	3	371
3	Chhattisgarh	14	8135.39	22	751.84	36	8887.23
4	Gujarat	0	0	15	2377.36	15	2377.36
5	Himachal Pradesh	3	412.75	0	0	3	412.75
6	Jammu & Kashmir	0	0	3	1246.8	3	1246.8
7	Jharkhand	18	10426.36	6	1594.86	24	12021.22
8	Karnataka	6	6710.07	36	7542.03	42	14252.1
9	Kerala	0	0	1	245.69	1	245.69
10	Madhya Pradesh	19	4796.46	10	669.65	29	5466.11
11	Maharashtra	18	752.81	8	286.56	26	1039.37
12	Meghalaya	0	0	1	139.67	1	139.67
13	Odisha	11	11290.65	39	20633.52	50	31924.17
14	Rajasthan	3	706.75	10	4029.72	13	4736.47
15	Sikkim	0	0	3	96.32	3	96.32
16	Tamil Nadu	3	761.86	15	1888.04	18	2649.9
17	Telangana	2	1453.17	1	210.00	3	1663.17
18	Uttarakhand	1	165.08	0	0	1	165.08
19	West Bengal	0	0	1	13.47	1	13.47
	Total	101	47341.89	176	42455.54	277	89797.43

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

P: Provisional

**Table-14: Summary of Lease Distribution in Public Sector
(As on 31.3.2019)(P)
(By States/Districts/Minerals)**

(Area in ha)

State	Districts	Minerals	Central Government		State Government		Total		
			No.	Area	No.	Area	No.	Area	
Andhra Pradesh	Krishna	Limestone	1	1295.00	-	-	1	1295.00	
	Prakasam	Iron Ore	-	-	1	505.17	1	505.17	
	Visakhapatnam	Apatite	-	-	1	16.12	1	16.12	
		Limestone	-	-	1	8.72	1	8.72	
		Vizianagaram	Manganese ore	1	264.54	-	-	1	264.54
		Total		2	1559.54	3	530.01	5	2089.55
Assam	Karbi Anglong	Limestone	1	171.00	-	-	1	171.00	
	North Cachar Hills	Limestone	-	-	2	200.00	2	200.00	
	Total		1	171.00	2	200.00	3	371.00	
Chhattisgarh	Balod	Iron ore	4	2562.69	-	-	4	2562.69	
	Balrampur	Bauxite	1	257.92	-	-	1	257.92	
	Dantewada	Iron ore	6	2967.16	-	-	6	2967.16	
	Durg	Limestone	1	526.34	-	-	1	526.34	
	Jashpur	Bauxite	-	-	2	40.61	2	40.61	
	Kanker	Iron ore	2	1821.28	1	166.80	3	1988.08	
	Kabirdham	Bauxite	-	-	1	5.31	1	5.31	
	Sukma	Tin	-	-	5	172.42	5	172.42	
	Surguja	Bauxite	-	-	13	366.70	13	366.70	
	Total		14	8135.39	22	751.84	36	8887.23	
Gujarat	Banaskantha	Copper ore	-	-	1	184.98	1	184.98	
	Chhota Udaipur	Fluorite	-	-	2	63.20	2	63.20	
	Devbhoomo Dwarka	Bauxite	-	-	2	189.79	2	189.79	
	Kachchh	Bauxite	-	-	10	1939.39	10	1939.39	
	Total		-	-	15	2377.36	15	2377.36	

Contd...

Table-14 (contd)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Himachal Pradesh	Mandi	Rock salt	1	8.12	-	-	1	8.12
	Sirmur	Limestone	1	172.03	-	-	1	172.03
	Solan	Limestone	1	232.60	-	-	1	232.60
		Total	3	412.75	-	-	3	412.75
Jammu & Kashmir	Kishtwar	Sapphire	-	-	1	673.40	1	673.40
	Pulwama	Limestone	-	-	1	88.10	1	88.10
	Reasi	Magnesite	-	-	1	485.30	1	485.30
		Total	-	-	3	1246.80	3	1246.80
Jharkhand	Garwah	Limestone	3	1179.44	-	-	3	1179.44
	Palamu	Graphite	-	-	1	223.45	1	223.45
		Limestone	-	-	1	1043.41	1	1043.41
	Ranchi	Limestone	-	-	2	239.53	2	239.53
	Singhbhum (East)	Copper ore	3	2313.37	-	-	3	2313.37
		Kyanite	-	-	2	88.47	2	88.47
	Singhbhum (West)	Iron ore	12	6933.55	-	-	12	6933.55
		Total	18	10426.36	6	1594.86	24	12021.22
Karnataka	Bagalkot	Limestone	-	-	8	3241.81	8	3241.81
	Belagavi	Limestone	-	-	2	755.48	2	755.48
	Ballari	Iron ore	2	1255.50	7	606.69	9	1862.19
	Chitradurga	Copper ore	-	-	2	416.53	2	416.53
	Kalahurgi	Gold	-	-	1	55.73	1	55.73
		Limestone	3	241.36	-	-	3	241.36
	Hassan	Chromite	-	-	5	691.4	5	691.4
	Kolar	Gold	1	5213.21	-	-	1	5213.21
	Mysuru	Magnesite	-	-	3	136.27	3	136.27
	Uttara Kannada	Manganese ore	-	-	1	80.94	1	80.94

Table-14 (contd)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Karnataka (concl.)	Raichur	Gold	-	-	5	993.04	5	993.04
	Shivamogga	Manganese ore	-	-	1	526.10	1	526.10
	Tumakuru	Gold	-	-	1	38.04	1	38.04
		Total	6	6710.07	36	7542.03	42	14252.10
Kerala	Palakkad	Limestone	-	-	1	245.69	1	245.69
		Total	-	-	1	245.69	1	245.69
Madhya Pradesh	Anuppur	Bauxite	-	-	1	148.18	1	148.18
	Balaghat	Copper ore	1	480.10	-	-	1	480.10
		Manganese ore	10	879.46	-	-	10	879.46
	Chhatarpur	Phosphorite	-	-	1	48.76	1	48.76
	Jhabua	Phosphorite	-	-	3	49.11	3	49.11
	Katni	Limestone	2	1036.03	-	-	2	1036.03
	Neemuch	Limestone	2	500.45	-	-	2	500.45
	Panna	Diamond	2	275.96	-	-	2	275.96
	Rewa	Bauxite	-	-	2	9.80	2	9.80
	Sagar	Phosphorite	-	-	1	52.80	1	52.80
	Satna	Bauxite	-	-	2	361.00	2	361.00
		Limestone	2	1624.46	-	-	2	1624.46
		Total	19	4796.46	10	669.65	29	5466.11
Maharashtra	Bhandara	Kyanite	-	-	4	126.27	4	126.27
		Manganese ore	5	324.44	-	-	5	324.44
	Chandrapur	Fluorite	-	-	1	31.22	1	31.22
	Gondia	Iron ore	-	-	1	9.32	1	9.32
	Nagpur	Manganese ore	13	428.37	-	-	13	428.37
	Yavatmal	Limestone	-	-	2	119.75	2	119.75
		Total	18	752.81	8	286.56	26	1039.37

Table-14 (contd)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Meghalaya	Khasi Hills East	Limestone	-	-	1	139.67	1	139.67
		Total	-	-	1	139.67	1	139.67
Odisha	Dhenkanal	Chromite	-	-	2	847.49	2	847.49
	Jajpur	Chromite	-	-	7	3117.36	7	3117.36
		Iron ore	-	-	1	1812.99	1	1812.99
		Ruby	-	-	1	27.66	1	27.66
	Kalahandi	Chromite	-	-	2	1722.81	2	1722.81
		Iron ore	2	2907.81	11	6722.19	13	9630.00
		Manganese ore	-	-	3	1318.99	3	1318.99
	Koraput	Bauxite	2	4647.27	1	428.31	5	5075.58
		Limestone	-	-	2	1586.22	2	1586.22
	Nawapara	Garnet (Gem)	-	-	1	33.95	1	33.95
		Limestone	-	-	3	332.96	3	332.96
	Raygada	Manganese ore	-	-	1	501.67	1	501.67
	Sundargarh	Bauxite	1	117.44	-	-	1	117.44
		Iron ore	4	2593.64	4	2180.92	6	4774.56
		Limestone	2	1024.49	-	-	2	1024.49
		Total	11	11290.65	39	20633.52	50	31924.17
Rajasthan	Jaisalmer	Limestone	-	-	2	1998.40	2	1998.40
	Jalore	Fluorite	-	-	4	218.07	4	218.07
	Jhunjhunu	Copper ore	3	706.75	-	-	3	706.75
	Sirohi	Lead & Zinc ore	-	-	1	63.00	1	63.00

Table-14 (concl'd)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Rajasthan (concl'd)	Udaipur	Phosphorite	-	-	3	1750.25	3	1750.25
		Total	3	706.75	10	4029.72	13	4736.47
Sikkim	Sikkim East	Copper ore	-	-	3	96.32	3	96.32
		Total	-	-	3	96.32	3	96.32
Tamil Nadu	Ariyalur	Limestone	-	-	6	624.31	6	624.31
	Kanyakumari	Garnet	-	-	-	-	-	-
	Salem	Magnesite	3	761.86	1	96.34	4	858.20
	Sivaganga	Graphite	-	-	2	241.92	2	241.92
	Tirunelveli	Garnet	-	-	-	-	-	-
		Limestone	-	-	2	31.88	2	31.88
	Vellore	Vermiculite	-	-	1	23.71	1	23.71
	Virudhunagar	Limestone	-	-	3	869.88	3	869.88
	Total	3	761.86	15	1888.04	18	2649.90	
Telangana	Adilabad	Limestone	1	839.38	1	210.00	2	1049.38
	Rangareddy	Limestone	1	613.79	-	-	1	613.79
	Total	2	1453.17	1	210.00	3	1663.17	
Uttarakhand	Bageshwar	Magnesite	1	165.08	-	-	1	165.08
		Total	1	165.08	-	-	1	165.08
West Bengal	Purulia	Phosphorite	-	-	1	13.47	1	13.47
		Total	-	-	1	13.47	1	13.47

Source: Information received from respective State Government Departments and Regional Offices of IBM.
(Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

P: Provisional

Prospecting Licences

Under the Mines & Minerals (Development & Regulation) Act, 1957, “Prospecting Licence” (PL) means a licence granted for the purpose of undertaking “prospecting operations”. Prospecting operations mean any operation undertaken for the purpose of exploring, locating or proving mineral deposits. The State Governments and Union Territories are empowered to grant/execute/renew/revoke prospecting licences (PL) and composite licence (A prospecting licence-cum-mining lease as defined in the Act, i.e., having two stage concession granted for purpose of undertaking prospecting operations followed by mining operations) under provisions of Minerals (other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016. As per Section 6(1)(a) of Mines and Minerals (Development and Regulation) Amendment Act, 2015, no person shall acquire in respect of any mineral or prescribed group of associated minerals [in a State] – one or more prospecting licences covering a total area of more than twenty-five square kilometers.

4.1 STATE-WISE DISTRIBUTION OF PROSPECTING LICENCE

As per information received from the State Governments/Union Territories, during 2018-19, no information regarding “Prospecting licence-cum-mining lease” or composite licence” having been approved/granted was received.

4.2 MINERAL-WISE DISTRIBUTION OF PROSPECTING LICENCES

During 2018-19, no information regarding “Prospecting licence-cum-mining lease” or composite licence” having been approved/granted was received.

4.3 COMPOSITE LICENCES (PROSPECTING LICENCE -CUM- MINING LEASE)

“Composite Licences or prospecting licence-cum-mining lease” means a two stage concession granted for the purpose of undertaking prospecting operations followed by mining operation.

During 2018-19, no information regarding “Prospecting licence-cum-mining lease” or composite licence” having been approved/granted was received.

Reconnaissance Permits

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

As per Section 6 (1) one or more Reconnaissance Permits covering a total area of 10,000 sq.km may be granted provided that the area granted under a single Reconnaissance Permit shall not exceed 5,000 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 Section 10C of Mines and Minerals (Development and Regulation) Amendment Act, 2015, the provision regarding grant of Non-Exclusive Reconnaissance Permits is as under:

10C(1) : Non-Exclusive Reconnaissance Permits may be granted in respect of any notified minerals or non-notified or a group of specified minerals, other than minerals specified in Part A or Part B of the First Schedule, subject to such terms and conditions as may be prescribed by the Central Government.

10C(2): The holder of such non-exclusive reconnaissance permit shall not be entitled to make any claim for the grant of any prospecting licence-cum-mining lease or a mining lease.

As per the Rule 3(2) of The Mineral (Non-exclusive Reconnaissance Permits) Rules, 2015, the State Government shall establish an online system for grant of non-exclusive reconnaissance permits.

During 2018-19, no information regarding Reconnaissance Permits/Non-Exclusive Reconnaissance Permits having been approved/granted was received.

