

भारत सरकार
खान मंत्रालय
भारतीय खान ब्यूरो
Government of India
Ministry of Mines
INDIAN BUREAU OF MINES

खनन पट्टों एवं पूर्वक्षण अनुज्ञापत्रों 2018 की बुलेटिन

(परमाणु खनिजों, कोयला, लिग्नाइट, पेट्रोलियम, प्राकृतिक गैस एवं गौण खनिजों से पृथक)

Bulletin of
MINING LEASES & PROSPECTING LICENCES, 2018
(Excluding Atomic Minerals, Coal, Lignite, Petroleum, Natural Gas and Minor Minerals)



Issued by
Controller General
Indian Bureau of Mines

Prepared by
Mineral Economics Division

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PREFACE

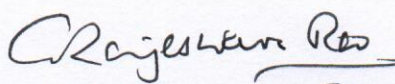
Indian Bureau of Mines is a repository of database on mineral sector. Directory of Mining Leases is one such database that comprises details of information on Mining Leases granted/executed/renewed. Bulletin of Mineral Information, Bulletin of Mining Leases and Prospecting Licences are published based on this information. Currently in its 21st edition, this publication, "Bulletin of Mining Leases and Prospecting Licences 2018" (Excluding Atomic Minerals, Coal, Lignite, Petroleum, Natural Gas & Minor Minerals) contains information on Mining Leases, Prospecting Licences and Composite Licences as on 31-3-2018. Information sourced from the Directory of Mining Leases after assortment and analysis has been segregated into state wise, district wise, 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.

Predominant portions of this publication is based on the Directory of Mining Leases as on 31-3-2018, which in turn was compiled from the data supplied by the different State Governments under the statutory provision of Rule 59(2) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016.

Indian Bureau of Mines is thankful to all the State Government Departments for furnishing information on mining leases, prospecting licences, composite licences (prospecting licence-cum-mining lease). Hope, this publication would be useful to all stakeholder of mineral sector.

New Delhi

Dated: 10 Oct 19


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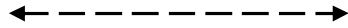
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Introduction

India is well-endowed with a wide variety of naturally occurring minerals. India 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 0.10% (325876.20 hectares). The position of mining leases as on 31.3.2018(P) reveals that there are as many as 3,834 mining leases (excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) granted in the country by the State Governments covering 42 minerals (excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) with a total lease area of about 325876.20 hectares and spread over 24 States. These 42 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 demands 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) 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

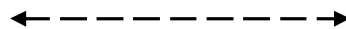
India's geographical area is about 328.73 million hectares. The entire geographical area is broadly classified into 7 segments which are as follows:

S. No.	Area/Segment	Total Area* (Million ha)	Percentage of Area
	Total Geographical Area	328.73	100
1	Net Area Sown (Crop Area)	140.13	42.63
2	Permanent Pastures & other Grazing Land	10.26	3.12
3	Forest	71.79	21.84
4	Mining Lease Area*	0.32	0.10
5	Fallow Lands	26.18	7.96
6	Land Not Available for Cultivation	43.88	13.35
7	Other area	36.17	11.00

Source: Directorate of Economics & Statistics, Department of Agriculture & Cooperation, Pocket Book on Agricultural Statistics, 2018;

* Source: ML Directory as on 31.03.2018(P) prepared by IBM based on data received from State Govts./UTs. (Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals)

The mining lease area constitutes around 325876.20 hectares which is approximately 0.10% 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 31.3.2018 (Provisional), there were 3834 mining leases granted by State Governments for 42 different minerals, covering an area of 325876.20 hectares in the country. States rich in minerals where maximum number of mining leases were granted are Madhya Pradesh (19%) followed by Tamil Nadu (14%), Andhra Pradesh (13%), Gujarat (12%), Karnataka (10%), Odisha (7%), Chhattisgarh, Rajasthan & Maharashtra (5% each), Jharkhand (4%) and Telangana (2%). These eleven States together account for about 96% of the total leases executed and the remaining thirteen 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 (19%) followed by Karnataka & Madhya Pradesh (12% each), Rajasthan (10%), Andhra Pradesh (9%), Gujarat & Chhattisgarh (8% each), Jharkhand (7%), Maharashtra (4%), Telangana & Tamil Nadu (3% each). These eleven States account for about 95% of the total mining lease area granted and the remaining 5 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 31.03.2018 (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 31.03.2018 (P)
(All India)

State	No. of Leases	Percentage	Area (In ha)	Percentage
Andhra Pradesh	490	12.78	28265.25	8.67
Assam	7	0.18	889.50	0.27
Bihar	7	0.18	257.87	0.08
Chhattisgarh	186	4.85	25525.80	7.83
Goa	15	0.39	2385.08	0.73
Gujarat	462	12.05	26215.50	8.04
Haryana	4	0.10	46.85	0.01
Himachal Pradesh	43	1.12	2471.31	0.76
Jammu & Kashmir	39	1.02	2162.72	0.66
Jharkhand	168	4.38	23803.20	7.30
Karnataka	378	9.86	39854.18	12.23
Kerala	15	0.39	2246.49	0.69
Madhya Pradesh	727	18.96	38246.75	11.74
Maharashtra	173	4.51	13938.08	4.28
Manipur	1	0.03	132.78	0.04
Meghalaya	22	0.57	849.34	0.26
Odisha	268	6.99	61152.36	18.77
Rajasthan	180	4.69	32507.40	9.98
Sikkim	3	0.08	96.32	0.03
Tamil Nadu	540	14.08	10048.76	3.08
Telangana	90	2.35	11170.19	3.43
Uttar Pradesh	5	0.13	3397.80	1.04
Uttarakhand	7	0.18	191.79	0.06
West Bengal	4	0.10	20.88	0.01
All India	3834	100.00	325876.20	100.00

Sources: Respective State Governments (DGMS/DMGs etc); However 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 31.03.2018 (P)
(All India)

Sl. No.	Mineral	No. of Leases	Lease Area (ha)
1	Amethyst	3	6.63
2	Apatite	2	20.17
3	Aquamarine	1	24.29
4	Asbestos	1	49.22
5	Bauxite	387	28356.68
6	Borax	1	159.00
7	Chromite	32	8368.80
8	Copper ore	14	4253.68
9	Diamond	2	275.96
10	Emerald	1	46.32
11	Epidote	1	4.05
12	Flint stone	2	11.77
13	Fluorite	11	331.87
14	Garnet	109	1604.02
15	Garnet(gem)	2	38.22
16	Gold	11	7445.69
17	Graphite	51	1926.79
18	Iolite	12	188.71
19	Iron ore	488	73556.93
20	Kyanite	28	1439.88
21	Lead & zinc ore	11	6657.16
22	Limeshell	24	2779.88
23	Limestone	2046	164533.57
24	Magnesite	38	2434.05
25	Manganese ore	291	14553.37
26	Marl	3	13.45
27	Moulding sand	8	37.02
28	Perlite	1	144.88
29	Phosphorite	10	2057.52
30	Rock phosphate	1	13.20
31	Rock salt	1	8.12
32	Ruby	1	27.66
33	Sapphire	1	673.40
34	Semi-precious stones	15	183.20
35	Siliceous earth	44	314.03
36	Sillimanite	6	563.01
37	Stibnite	1	40.47
38	Tin	14	302.77
39	Vermiculite	97	1801.18
40	White clay	8	77.54
41	White shale	38	220.94
42	Wollastonite	16	331.10
	Total	3834	325876.2

Sources: Respective State Governments (DGMs/DMGs etc); However 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 31.3.2018(P)**

State	Minerals	No. of Leases	Area (In ha)
Andhra Pradesh	Apatite	1	16.12
	Garnet	7	823.87
	Gold	1	597.82
	Iron ore	58	2406.78
	Kyanite	1	33.59
	Lead & Zinc ore	1	15.89
	Limeshell	3	46.74
	Limestone	231	21415.04
	Manganese ore	38	772.01
	Semi-precious Stones	13	124.60
	Vermiculite	91	1734.54
	White clay	7	57.31
	White shale	38	220.94
	Total	490	28265.25
Assam	Limestone	7	889.50
	Total	7	889.50
Bihar	Limestone	7	257.87
	Total	7	257.87
Chhattisgarh	Bauxite	28	5757.17
	Graphite	1	67.11
	Iron ore	23	9327.41
	Limestone	116	10060.73
	Moulding sand	5	29.61
	Tin	13	283.77
	Total	186	25525.8

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In ha)
Goa	Bauxite	4	1791.08
	Iron ore	11	594.00
	Total	15	2385.08
Gujarat	Bauxite	149	5649.9
	Copper ore	1	184.98
	Fluorite	2	62.4
	Limestone	305	20139.66
	Marl	3	13.45
	Perlite	1	144.88
	White clay	1	20.23
	Total	462	26215.5
Haryana	Limestone	4	46.85
	Total	4	46.85
Himachal Pradesh	Limestone	42	2463.19
	Rock salt	1	8.12
	Total	43	2471.31
Jammu & Kashmir	Borax	1	159.00
	Limestone	36	845.02
	Magnesite	1	485.30
	Sapphire	1	673.40
	Total	39	2162.72

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In ha)
Jharkhand	Bauxite	46	3602.66
	Copper ore	3	2313.37
	Flint stone	2	11.77
	Garnet	1	8.20
	Gold	1	19.50
	Graphite	18	627.42
	Iron ore	48	11469.19
	Kyanite	7	1032.00
	Limestone	41	4697.90
	Manganese ore	1	21.19
	Total	168	23803.2
Karnataka	Bauxite	5	370.02
	Chromite	5	691.4
	Copper ore	2	416.53
	Gold	9	6828.37
	Graphite	4	235.03
	Iron ore	122	9714.88
	Kyanite	6	45.54
	Limeshell	15	1374.13
	Limestone	146	16788.5
	Magnesite	9	163.83
	Manganese ore	53	3217.64
	Vermiculite	2	8.31
	Total	378	39854.18
Kerala	Bauxite	2	0.72
	Graphite	1	1.25
	Iron ore	1	86.06
	Limeshell	5	1354.4
	Limestone	1	245.69
	Sillimanite	5	558.37
	Total	15	2246.49

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In ha)
Madhya Pradesh	Bauxite	102	1669.59
	Copper ore	1	480.10
	Diamond	2	275.96
	Iron ore	44	468.1
	Limestone	471	32798.96
	Manganese ore	100	2349.7
	Phosphorite	5	150.67
	Rock Phosphate	1	13.20
	Stibnite	1	40.47
	Total	727	38246.75
Maharashtra	Bauxite	38	4838.61
	Chromite	1	16.22
	Fluorite	1	32.70
	Iron ore	32	1754.49
	Kyanite	9	164.82
	Limestone	49	6018.26
	Manganese ore	43	1112.98
Total	173	13938.08	
Manipur	Chromite	1	132.78
	Total	1	132.78
Meghalaya	Limestone	21	844.7
	Sillimanite	1	4.64
	Total	22	849.34

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In ha)
Odisha	Aquamarine	1	24.29
	Asbestos	1	49.22
	Bauxite	8	4254.96
	Chromite	25	7528.4
	Garnet	2	58.66
	Garnet (Gems)	1	33.95
	Graphite	21	719.69
	Iolite	12	188.71
	Iron ore	125	35473.64
	Limestone	28	6360.85
	Manganese ore	40	6354.73
	Ruby	1	27.66
	Semi-precious stones	2	58.6
	Tin ore	1	19
	Total	268	61152.36
Rajasthan	Bauxite	1	4.98
	Copper Ore	4	762.38
	Emerald	1	46.32
	Epidote	1	4.05
	Fluorite	8	236.77
	Garnet	18	83.11
	Garnet (Gem)	1	4.27
	Iron ore	18	2209.27
	Kyanite	5	163.93
	Lead & Zinc ore	10	6641.27
	Limestone	41	19739.28
	Magnesite	4	19.75
	Manganese ore	1	18.89
	Phosphorite	4	1893.38
	Siliceous earth	44	314.03

contd...

Table-3 (contd.)

State	Minerals	No. of Leases	Area (In ha)
	Vermiculite	3	34.62
	Wollastonite	16	331.1
	Total	180	32507.4
Sikkim	Copper ore	3	96.32
	Total	3	96.32
Tamil Nadu	Apatite	1	4.05
	Bauxite	4	416.99
	Garnet	76	608.85
	Graphite	6	276.29
	Limeshell	1	4.61
	Limestone	431	7126.72
	Magnesite	20	1587.54
	Vermiculite	1	23.71
Total	540	10048.76	
Telangana	Amethyst	3	6.63
	Garnet	5	21.33
	Iron ore	6	53.11
	Limestone	61	10382.89
	Manganese ore	15	706.23
	Total	90	11170.19
Uttar Pradesh	Limestone	5	3397.80
	Total	5	3397.80
Uttarakhand	Limestone	3	14.16
	Magnesite	4	177.63
	Total	7	191.79
West Bengal	Moulding sand	3	7.41
	Phosphorite	1	13.47
	Total	4	20.88

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 31.3.2018(P)**

State	Districts	Minerals	No. of Leases	Area (In ha)
Andhra Pradesh	Anantapur	Iron ore	8	196.59
		Limestone	32	1840.06
		Total	40	2036.65
	Cuddapah	Iron ore	10	971.06
		Lead & Zinc ore	1	15.89
		Limestone	25	3802.10
		Total	36	4789.05
	Guntur	Limestone	35	4288.55
		Total	35	4288.55
	Krishna	Iron ore	5	29.67
		Limestone	15	3217.28
		Total	20	3246.95
	Kurnool	Gold	1	597.82
		Iron ore	29	448.09
		Limestone	120	8250.33
		White clay	7	57.31
		White shale	38	220.94
		Total	195	9574.49
	Nellore	Iron ore	2	222.22
		Limeshell	2	42.74
		Vermiculite	91	1734.54
		Total	95	1999.50
	Prakasam	Garnet	4	4.71
Iron ore		4	539.15	
Kyanite		1	33.59	
Total		9	577.45	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Andhra Pradesh (concl.d.)	Srikakulam	Garnet	2	815.08
		Limeshell	1	4.00
		Total	3	819.08
	Visakhapatnam	Apatite	1	16.12
		Garnet	1	4.08
		Limestone	4	16.72
		Semi-precious Stones	13	124.60
		Total	19	161.52
	Vizianagaram	Manganese ore	38	772.01
		Total	38	772.01
	Assam	Karbi Anglong	Limestone	1
Total			1	171.00
North Cachar Hills		Limestone	6	718.50
		Total	6	718.50
Bihar	Rohtas	Limestone	7	257.87
		Total	7	257.87
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	

Contd..

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	2	667.03
		Total	2	667.03
	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		9	3383.05	
Moulding sand		1	13.84	
Total		13	3410.11	

Contd..

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Chhattisgarh (concl.)	Kondagaon	Bauxite	2	27.28
		Total	2	27.28
	Narayanpur	Iron ore	1	192.25
		Total	1	192.25
	Raigarh	Limestone	2	8.86
		Total	2	8.86
	Raipur	Limestone	16	419.24
		Total	16	419.24
	Rajnandgaon	Iron ore	2	190.71
		Limestone	1	4.65
		Moulding sand	2	7.69
		Total	5	203.05
	Sukma	Tin	6	183.96
		Total	6	183.96
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	1791.08
		Iron ore	6	359.48
Total	10	2150.56		

contd.

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Gujarat	Amreli	Bauxite	2	147.99
		Limestone	6	1844.36
		Total	8	1992.35
	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	62.40
		Total	2	62.40
	Devbhoomi Dwarka	Bauxite	113	3219.04
		Limestone	33	1220.80
		Marl	3	13.45
		White clay	1	20.23
		Total	150	4473.52
	Gir Somnath	Limestone	84	4239.57
		Total	84	4239.57
	Jamnagar	Limestone	27	1673.22
		Total	27	1673.22
	Junagarh	Limestone	19	250.14
		Total	19	250.14

Contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Gujarat (concl.)	Kheda	Bauxite	10	63.57
		Total	10	63.57
		Kachchh	Bauxite	11
	Limestone		8	5681.88
	Total		19	7731.34
	Porbandar	Bauxite	6	112.29
		Limestone	115	2240.37
		Total	121	2352.66
	Rajkot	Limestone	3	12.00
		Perlite	1	144.88
		Total	4	156.88
	Sabarkantha	Bauxite	3	41.16
		Limestone	2	2.53
		Total	5	43.69
	Haryana	Mahendragarh	Limestone	4
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	480.00
		Total	37	480.00
	Solan	Limestone	3	1026.08
Total		3	1026.08	

Contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Jammu & Kashmir	Anantnag	Limestone	23	342.58
		Total	23	342.58
	Kishtwar	Sapphire	1	673.40
		Total	1	673.40
	Leh	Borax	1	159.00
		Total	1	159.00
	Poonch	Limestone	1	15.89
		Total	1	15.89
	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	28	2462.22
		Total	28	2462.22

contd...

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	2	48.18
		Total	5	531.44
	Lohardaga	Bauxite	16	664.40
		Total	16	664.40
	Palamau	Graphite	17	620.20
		Iron ore	6	131.05
		Limestone	1	1043.41
		Total	24	1794.66
	Ramgarh	Limestone	5	109.68
		Total	5	109.68
	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	1	19.50
Kyanite		3	95.69	
Total		7	2428.56	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Jharkhand (concl.)	Singhbhum (West)	Iron ore	40	11289.96
		Limestone	25	973.44
		Manganese ore	1	21.19
		Total	66	12284.59
Karnataka	Bagalkot	Iron ore	3	74.84
		Limestone	89	5857.10
		Total	92	5931.94
	Belgaum	Bauxite	5	370.02
		Iron ore	1	20.23
		Limestone	20	1563.49
		Manganese ore	1	40.47
		Total	27	1994.21
	Bellary	Iron ore	84	7766.04
		Manganese ore	7	405.16
		Total	91	8171.20
	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

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Karnataka (contd.)	Dawangere	Iron ore	1	38.45
		Manganese ore	4	79.51
		Total	5	117.96
	Gadag	Iron ore	4	190.37
		Total	4	190.37
	Gulbarga	Gold	1	55.73
		Limestone	17	7267.01
		Total	18	7322.74
	Hassan	Chromite	5	691.40
		Kyanite	1	2.93
		Total	6	694.33
	Kolar	Gold	1	5213.21
		Total	1	5213.21
	Mysore	Graphite	4	235.03
		Kyanite	5	42.61
		Limestone	1	20.23
		Magnesite	9	163.83
		Vermiculite	2	8.31
		Total	21	470.01
	North Kannada (Uttar Kannada)	Iron ore	5	522.30
		Limeshell	12	1106.64
		Manganese ore	9	811.48
		Total	26	2440.42

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Karnataka (concl.)	Raichur	Gold	6	1521.39
		Total	6	1521.39
	Shimoga	Limestone	1	40.12
		Manganese ore	2	543.60
		Total	3	583.72
	Tumkur	Gold	1	38.04
		Iron ore	10	502.11
		Limestone	4	418.75
		Manganese ore	8	373.10
		Total	23	1332.00
	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
	Kollam	Bauxite	2	0.72
		Sillimanite	5	558.37
		Total	7	559.09
	Kottayam	Limeshell	2	594.50
Total		2	594.50	

contd...

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	Limeshell	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	5	28.18
		Manganese ore	74	2013.82
		Total	82	2567.52
	Chhatarpur	Iron ore	2	8.35
		Phosphorite	1	48.76
		Rock phosphate	1	13.20
		Total	4	70.31
Chhindwara	Manganese ore	16	205.24	
	Total	16	205.24	
Damoh	Limestone	9	2649.90	
	Stibnite	1	40.47	
	Total	10	2690.37	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Madhya Pradesh (contd.)	Dhar	Limestone	26	2173.46
		Total	26	2173.46
	Gwalior	Iron ore	3	19.90
		Total	3	19.90
	Jabalpur	Bauxite	4	36.56
		Iron ore	33	388.42
		Limestone	1	12.71
		Manganese ore	4	22.16
		Total	42	459.85
	Jhabua	Manganese ore	4	44.66
		Phosphorite	3	49.11
		Total	7	93.77
	Katni	Bauxite	29	419.24
		Iron ore	2	13.62
		Limestone	168	5185.39
		Manganese ore	1	48.56
		Total	200	5666.81
	Morena	Limestone	4	647.63
		Total	4	647.63
	Narasinhapur	Limestone	4	17.19
		Total	4	17.19

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Madhya Pradesh (concl.)	Nimach	Limestone	8	1904.05
		Total	8	1904.05
	Panna	Diamond	2	275.96
		Limestone	2	2093.98
		Total	4	2369.94
	Rewa	Bauxite	14	154.99
		Limestone	36	2770.92
		Total	50	2925.91
	Sagar	Iron ore	2	16.67
		Limestone	2	55.40
		Phosphorite	1	52.80
		Total	5	124.87
	Satna	Bauxite	48	837.03
		Iron ore	1	16.19
		Limestone	202	14693.99
		Total	251	15547.21
	Sidhi	Bauxite	3	10.48
		Limestone	4	566.16
		Total	7	576.64

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Maharashtra	Bhandara	Chromite	1	16.22
		Kyanite	9	164.82
		Manganese ore	7	352.81
		Total	17	533.85
	Chandrapur	Fluorite	1	32.70
		Iron ore	3	29.91
		Limestone	14	3305.88
		Total	18	3368.49
	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	144.00
		Total	19	3385.77
	Nagpur	Manganese ore	36	760.17
		Total	36	760.17
	Raigad	Bauxite	11	665.41
		Total	11	665.41
	Ratnagiri	Bauxite	9	931.43
		Total	9	931.43

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Maharashtra (concl.)	Sindhudurg	Iron ore	16	1152.58
		Total	16	1152.58
	Yeotmal	Limestone	35	2712.38
		Total	35	2712.38
Manipur	Ukhrul	Chromite	1	132.78
		Total	1	132.78
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	Limestone	1	60.00
		Sillimanite	1	4.64
Total	2	64.64		
Odisha	Bargarh	Graphite	4	107.08
		Limestone	2	599.24
		Total	6	706.32

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Odisha (contd.)	Bolangir	Graphite	5	110.29
		Total	5	110.29
	Dhenkanal	Chromite	4	1052.63
		Total	4	1052.63
	Jajpur	Chromite	16	4318.10
		Iron ore	1	1812.99
		Total	17	6131.09
	Kalahandi	Garnet	2	58.66
		Graphite	3	30.94
		Iolite	7	46.31
		Ruby	1	27.66
		Semi-precious stones	1	17.12
		Total	14	180.69
	Keonjhar	Asbestos	1	49.22
		Chromite	5	2157.67
		Iron ore	72	23645.69
		Manganese ore	15	2742.48
		Total	93	28595.06
	Koraput	Bauxite	4	2539.94
		Graphite	1	58.70
		Limestone	2	1586.22
		Total	7	4184.86
	Malkangiri	Tin	1	19.00
Total		1	19.00	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Odisha (concl.)	Mayurbhanj	Iron ore	9	1513.96
		Total	9	1513.96
	Nawapara	Garnet (Gem)	1	33.95
		Graphite	4	116.06
		Limestone	3	332.96
		Total	8	482.97
	Raygada	Bauxite	1	1388.74
		Graphite	4	296.62
		Iolite	1	41.48
		Manganese ore	5	579.58
		Semi-precious stones	1	41.48
		Total	12	2347.90
	Sambalpur	Aquamarine	1	24.29
		Total	1	24.29
	Sonepur	Iolite	4	100.92
		Total	4	100.92
	Sundargarh	Bauxite	3	326.28
		Iron ore	43	8501.00
		Limestone	21	3842.43
		Manganese ore	20	3032.67
		Total	87	15702.38

contd...

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	1305.30
		Magnesite	2	9.75
		Vermiculite	3	34.62
		Wollastonite	11	111.86
		Total	28	2025.83
	Alwar	Iron ore	1	69.37
		Total	1	69.37
	Banswara	Limestone	1	65.82
		Manganese ore	1	18.89
		Total	2	84.71
	Barmer	Siliceous earth	22	166.03
		Total	22	166.03
	Bhilwara	Garnet	3	12.66
		Garnet (Gem)	1	4.27
		Iron ore	2	1989.88
		Kyanite	3	154.02
		Lead & Zinc ore	1	1200.00
		Total	10	3360.83
	Bundi	Limestone	1	1516.88
		Total	1	1516.88
	Chittorgarh	Limestone	11	5814.30
		Total	11	5814.30

contd...

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	48.63
		Limestone	1	548.78
		Total	8	601.46
	Jaisalmer	Limestone	2	1998.40
		Siliceous earth	22	148.00
		Total	24	2146.40
	Jalore	Fluorite	6	226.82
		Total	6	226.82
	Jhunjhunu	Copper Ore	3	710.38
		Iron ore	7	71.83
		Total	10	782.21
	Kota	Limestone	1	895.42
		Total	1	895.42
	Nagaur	Limestone	7	2903.81
		Total	7	2903.81
	Pali	Limestone	6	2576.39
		Magnesite	2	10.00
		Wollastonite	2	28.86
		Total	10	2615.25

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Rajasthan (concl.)	Rajsamand	Garnet	1	4.36
		Lead & Zinc ore	3	1725.82
		Total	4	1730.18
	Sikar	Iron ore	2	29.56
		Limestone	2	73.51
		Total	4	103.07
	Sirohi	Copper ore	1	52.00
		Lead & Zinc ore	1	63.00
		Limestone	5	1124.03
		Wollastonite	2	77.86
		Total	9	1316.89
	Tonk	Garnet	6	28.56
		Total	6	28.56
	Udaipur	Bauxite	1	4.98
		Kyanite	2	9.91
		Lead & Zinc ore	4	3172.00
		Limestone	2	916.64
		Phosphorite	4	1893.38
		Wollastonite	1	112.52
		Total	14	6109.43

contd...

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	2665.23
		Total	73	2665.23
	Coimbatore	Limestone	4	217.92
		Total	4	217.92
	Cuddalore	Limeshell	1	4.61
		Total	1	4.61
	Dindigul	Limestone	38	590.97
		Total	38	590.97
	Kanyakumari	Garnet	9	168.33
		Total	9	168.33
	Karur	Limestone	40	533.64
		Magnesite	2	4.41
		Total	42	538.05
	Krishnagiri	Limestone	2	2.46
		Total	2	2.46
	Madurai	Garnet	2	6.62
Graphite		2	5.69	
Limestone		15	69.40	
Total		19	81.71	
Namakkal	Bauxite	3	226.15	
	Limestone	36	110.14	
	Magnesite	3	4.89	
	Total	42	341.18	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Tamil Nadu (contd.)	Perambalur	Limestone	32	136.03
		Total	32	136.03
	Salem	Apatite	1	4.05
		Bauxite	1	190.84
		Limestone	52	434.82
		Magnesite	13	1570.98
		Total	67	2200.69
	Sivaganga	Graphite	4	270.60
		Total	4	270.60
	Theni (Madurai)	Limestone	3	6.77
		Total	3	6.77
	Thoothukudi (Tuticorin)	Garnet	6	70.44
		Limestone	15	309.96
		Total	21	380.40
	Tiruchirappalli	Garnet	6	34.51
		Limestone	23	228.52
		Total	29	263.03
	Tirunelveli	Garnet	53	328.95
		Limestone	69	664.44
		Total	122	993.39

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Tamil Nadu (concl.)	Tiruppur	Magnesite	2	7.26
		Total	2	7.26
	Vellore	Vermiculite	1	23.71
		Total	1	23.71
	Virudhunagar	Limestone	29	1156.42
		Total	29	1156.42
Telangana	Adilabad	Limestone	12	2393.41
		Manganese ore	15	706.23
		Total	27	3099.64
	Hyderabad	Amethyst	2	1.69
		Total	2	1.69
	Karimnagar	Limestone	2	482.53
		Total	2	482.53
	Khammam	Garnet	5	21.33
		Iron ore	4	29.38
		Total	9	50.71
	Mahbubnagar	Limestone	1	173.60
Total		1	173.60	
Nalgonda	Amethyst	1	4.94	
	Limestone	41	6116.21	
	Total	42	6121.15	

contd...

Table-4 (contd.)

State	Districts	Minerals	No. of Leases	Area (In ha)
Telangana (concl.)	Nizamabad	Iron Ore	1	6.68
		Total	1	6.68
	Rangareddi	Limestone	5	1217.14
		Total	5	1217.14
	Warangal	Iron ore	1	17.05
		Total	1	17.05
Uttar Pradesh	Sonbhadra	Limestone	5	3397.80
		Total	5	3397.80
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	Burdwan	Moulding sand	2	2.27
		Total	2	2.27
	Purulia	Moulding sand	1	5.14
		Phosphorite	1	13.47
Total	2	18.61		

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

3.2 DISTRICT WISE ANALYSIS

(i) High Mineral Potential Districts

District wise analysis indicates that the total number of mineral-bearing districts is around 199 and that they are spread across 24 states in the country. Out of these, 6 districts in 4 states are considered as high mineral potential districts wherein more than 100 mining leases each have been granted. A total of 1,039 mining leases have been granted in these districts covering an area of about 38,608.08 hectares. These constitute about 27% of total number of mining leases in the country and cover around 12% 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 830 such mining leases granted in 10 districts in 7 states covering an area of about 84,357.68 hectares. These constitute 22% of the total number of mining leases in the country and cover over 26% 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 1965 mining leases granted in 182 such districts in 24 states covering an area of about 202,910.44 hectares in the country. These account for 51% of the total number of mining leases in the country covering 62% 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(P)

S. No.	State	District	No. of Leases	No. of Minerals	Area (In ha)
1	Andhra Pradesh	Kurnool	195	5	9574.49
2	Gujarat	Devbhoomi Dwarka	150	4	4473.52
3	Gujarat	Porbandar	121	2	2352.66
4	Madhya Pradesh	Katni	200	4	5666.81
5	Madhya Pradesh	Satna	251	3	15547.21
6	Tamil Nadu	Tirunelveli	122	2	993.39
Total			1039		38608.08

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 – 6: Medium Mineral Potential Districts(P)

S. No.	State	District	No. of Leases	No. of Minerals	Area (In ha)
1	Andhra Pradesh	Nellore	95	3	1999.50
2	Gujarat	Gir Somnath	84	1	4239.57
3	Jharkhand	Singhbhum (West)	66	3	12284.59
4	Karnataka	Bagalkot	92	2	5931.94
5	Karnataka	Bellary	91	2	8171.20
6	Madhya Pradesh	Balaghat	82	5	2567.52
7	Odisha	Keonjhar	93	4	28595.06
8	Odisha	Sundargarh	87	4	15702.38
9	Tamil Nadu	Ariyalur	73	1	2665.23
10	Tamil Nadu	Salem	67	4	2200.69
Total			830		84357.68

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

P:- Provisional

Table – 7 : Low Mineral Potential Districts(P)

S. No.	State	No. of Districts	No. of Leases	Area (In ha)
1	Andhra Pradesh	8	200	16691.26
2	Assam	2	7	889.50
3	Bihar	1	7	257.87
4	Chhattisgarh	19	186	25525.8
5	Goa	2	15	2385.08
6	Gujarat	11	107	15149.75
7	Haryana	1	4	46.85
8	Himachal Pradesh	4	43	2471.31
9	Jammu & Kashmir	7	39	2162.72
10	Jharkhand	12	102	11518.61
11	Karnataka	16	195	25751.04
12	Kerala	6	15	2246.49
13	Madhya Pradesh	15	194	14465.21
14	Maharashtra	10	173	13938.08
15	Manipur	1	1	132.78
16	Meghalaya	3	22	849.34
17	Odisha	12	88	16854.92
18	Rajasthan	20	180	32507.4
19	Sikkim	1	3	96.32
20	Tamil Nadu	16	278	4189.45
21	Telangana	9	90	11170.19
22	Uttar Pradesh	1	5	3397.80
23	Uttarakhand	4	7	191.79
24	West Bengal	2	4	20.88
Total		183	1965	202910.44

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

3.3 MINERAL WISE ANALYSIS

There are 42 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 industrial mineral group includes asbestos 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 11 minerals under Scheduled Minerals for which mining leases are granted as on 31.3.2018(P). The number of mining leases granted are 1,239 i.e. 32% of the total mining leases accounting for an area of about 1,44,218.55 hectares which is 44% of the total mining area (Excluding coal, lignite, petroleum, natural gas, atomic minerals and minor minerals) in the country. Out of the eleven scheduled minerals, the total number of mining leases granted for iron ore is placed at 488 followed by bauxite (387), manganese ore (291), chromite (32), copper ore (14), lead & zinc ore and gold (11 each). These seven minerals account for 1,234 mining leases, i.e., 99.59% of the mining leases under this category accounting for an area of about 1,43,192.31 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 in the country. In all, there are 2595 (68% of the total mining leases) mining leases granted for these minerals that account for an area of about 1,81,657.65 hectares which is 56% 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 31.03.2018(P)**

S. No.	Minerals	No. of Leases	Area (In ha)
1	Asbestos	1	49.22
2	Bauxite	387	28356.68
3	Chromite	32	8368.80
4	Copper ore	14	4253.68
5	Diamond *	02	275.96
6	Gold	11	7445.69
7	Iron ore	488	73556.93
8	Lead & Zinc ore	11	6657.16
9	Manganese ore	291	14553.37
10	Ruby *	1	27.66
11	Sapphire *	1	673.40
	Total	1239	144218.55

* **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 31.03.2018(P)**

S. No.	Minerals	No. of Leases	Area (In ha)
1	Amethyst	3	6.63
2	Apatite	2	20.17
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	331.87
9	Garnet	109	1604.02
10	Garnet (Gem)	2	38.22
11	Graphite	51	1926.79
12	Iolite	12	188.71
13	Kyanite	28	1439.88
14	Limeshell	24	2779.88
15	Limestone	2046	164533.57
16	Magnesite	38	2434.05
17	Marl	3	13.45
18	Moulding Sand	8	37.02
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	15	183.20
24	Siliceous earth	44	314.03
25	Sillimanite	6	563.01
26	Stibnite	1	40.47
27	Tin	14	302.77
28	Vermiculite	97	1801.18

Contd....

Table-9 Contd...

29	White clay	8	77.54
30	White shale	38	220.94
31	Wollastonite	16	331.10
	Total	2595	181657.65

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	2046	53.36	164533.57	50.49
II	-	-	-	-	-
III	2	875	22.82	101913.61	31.27
IV	1	291	7.59	14553.37	4.47
V	1	109	2.84	1604.02	0.49
VI	2	148	3.86	3727.97	1.14
VII	35	365	9.52	39543.66	12.13
Total	42	3834	100.00	325876.2	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)*

P:- Provisional

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

Category	Frequency of Leases	Minerals	No. of Leases	Area (In ha)
I	>1000	Limestone Total	2046 2046	164533.57 164533.57
II	Between 501 and 1000	Nil	-	-
III	Between 301 and 500	Iron ore Bauxite Total	488 387 875	73556.93 28356.68 101913.61
IV	Between 201 and 300	Manganese Ore Total	291 291	14553.37 14553.37
V	Between 101 and 200	Garnet Total	109 109	1604.02 1604.02
VI	Between 51 and 100	Graphite Vermiculite Total	51 97 148	1926.79 1801.18 3727.97
VII	Between 1 and 50	Amethyst Apatite Aquamarine Asbestos Borax Chromite Copper Ore Diamond Emerald Epidote Flint Stone Fluorite Garnet (Gem) Gold Iolite Kyanite Lead & Zinc ore	3 2 1 1 1 32 14 2 1 1 2 11 2 11 12 28 11	6.63 20.17 24.29 49.22 159.00 8368.80 4253.68 275.96 46.32 4.05 11.77 331.87 38.22 7445.69 188.71 1439.88 6657.16

concl...

Table-11 (concl.)

Category	Frequency of Leases	Minerals	No. of Leases	Area (In ha)
VII (concl.)	Between 1 and 50 (concl.)	Limeshell	24	2779.88
		Magnesite	38	2434.05
		Marl	3	13.45
		Moulding sand	8	37.02
		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	15	183.20
		Siliceous earth	44	314.03
		Sillimanite	6	563.01
		Stibnite	1	40.47
		Tin	14	302.77
		White clay	8	77.54
		White shale	38	220.94
Wollastonite	16	331.10		
		Total	365	39543.66

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 3,834 mining leases in the country, 292 (7.62%) leases have been executed in the Public Sector, extending over an area of about 93,091.67 hectares (28.57%). The remaining 3,542 (92.38%) mining leases with an area of about 2,32,784.53 hectares (71.43%) 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 114 mining leases under Central Government Public Sector Undertakings executed in 14 states for different minerals, covering an area of about 50,097.03 hectares. The States rich in minerals where maximum number of mining leases executed for Central Govt. Public Sector Undertakings are Madhya Pradesh 20 (18%), Jharkhand & Maharashtra (18 each) (16% each), Odisha 17 (15%), and Chhattisgarh 14 (12%). These five States together account for about 76% of total leases executed under these category and the remaining 9 States account for the rest of the 24% under these category.

The prominent States where maximum mining lease areas are located are Odisha (24%), Jharkhand (21%), Chhattisgarh (19%), Karnataka (13%), Madhya Pradesh (10%) and Andhra Pradesh & Telangana (3% each). These seven States account for 93% of the total lease area executed and the remaining States account for the rest of the 7 percent.

(b) State Government Public Sector Undertakings:

There are 178 number of mining leases executed in 17 States for different minerals, covering an area of 42,994.64 hectares. The States rich in minerals where there are maximum number of mining leases executed are Odisha 40 (22%), Karnataka 37 (21%), Chhattisgarh 22 (12%), Tamil Nadu 16 (9%), Gujarat 15 (8%), Rajasthan 10 (6%), Madhya Pradesh 9 (5%), Maharashtra 8 (4%) 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 (48%), Karnataka (19%), 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 31.03.2018) (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	490	28265.25	5	2089.55	485	26175.70
2	Assam	7	889.50	3	371.00	4	518.50
3	Bihar	7	257.87	-	-	7	257.87
4	Chhattisgarh	186	25525.80	36	9877.55	150	15648.25
5	Goa	15	2385.08	-	-	15	2385.08
6	Gujarat	462	26215.5	15	2376.56	447	23838.94
7	Haryana	4	46.85	-	-	4	46.85
8	Himachal Pradesh	43	2471.31	3	412.75	40	2058.56
9	Jammu & Kashmir	39	2162.72	3	1246.80	36	915.92
10	Jharkhand	168	23803.20	24	12021.22	144	11781.98
11	Karnataka	378	39854.18	42	14727.64	336	25126.54
12	Kerala	15	2246.49	5	558.37	10	1688.12
13	Madhya Pradesh	727	38246.75	29	5818.45	698	32428.30
14	Maharashtra	173	13938.08	26	1040.85	147	12897.23
15	Manipur	1	132.78	-	-	1	132.78
16	Meghalaya	22	849.34	1	139.67	21	709.67
17	Odisha	268	61152.36	57	32925.27	211	28227.09
18	Rajasthan	180	32507.40	13	4740.10	167	27767.30
19	Sikkim	3	96.32	3	96.32	-	-
20	Tamil Nadu	540	10048.76	22	2807.85	518	7240.91
21	Telangana	90	11170.19	3	1663.17	87	9507.02
22	Uttar Pradesh	5	3397.80	-	-	5	3397.80
23	Uttarakhand	7	191.79	1	165.08	6	26.71
24	West Bengal	4	20.88	1	13.47	3	7.41
	Total	3834	325876.20	292	93091.67	3542	232784.53

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 31.03.2018) (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	371.00
3	Chhattisgarh	14	9280.97	22	596.58	36	9877.55
4	Gujarat	-	-	15	2376.56	15	2376.56
5	Himachal Pradesh	3	412.75	-	-	3	412.75
6	Jammu & Kashmir	-	-	3	1246.80	3	1246.80
7	Jharkhand	18	10426.36	6	1594.86	24	12021.22
8	Karnataka	5	6657.26	37	8070.38	42	14727.64
9	Kerala	4	354.57	1	203.80	5	558.37
10	Madhya Pradesh	20	5153.70	9	664.75	29	5818.45
11	Maharashtra	18	752.81	8	288.04	26	1040.85
12	Meghalaya	-	-	1	139.67	1	139.67
13	Odisha	17	12084.39	40	20840.88	57	32925.27
14	Rajasthan	3	710.38	10	4029.72	13	4740.10
15	Sikkim	-	-	3	96.32	3	96.32
16	Tamil Nadu	6	915.05	16	1892.80	22	2807.85
17	Telangana	2	1453.17	1	210.00	3	1663.17
18	Uttarakhand	1	165.08	-	-	1	165.08
19	West Bengal	-	-	1	13.47	1	13.47
	Total	114	50097.03	178	42994.64	292	93091.67

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 31.3.2018)(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
	Prakasa	Iron Ore	-	-	1	505.17	1	505.17
	Visakhapatnam	Apatite	-	-	1	16.12	1	16.12
		Limestone	-	-	1	8.72	1	8.72
		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	2966.86	-	-	2	2966.86
	Kabirdham	Bauxite	-	-	1	5.31	1	5.31
	Sukma	Tin	-	-	6	183.96	6	183.96
	Surguja	Bauxite	-	-	13	366.70	13	366.70
	Total		14	9280.97	22	596.58	36	9877.55
Gujarat	Banaskantha	Copper ore	-	-	1	184.98	1	184.98
	Chhota Udaipur	Fluorite	-	-	2	62.4	2	62.4
	Devbhoomo Dwarka	Bauxite	-	-	2	189.79	2	189.79
	Kachchh	Bauxite	-	-	10	1939.39	10	1939.39
	Total		-	-	15	2376.56	15	2376.56

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
	Palamau	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
	Belgaum	Limestone	-	-	2	755.48	2	755.48
	Bellary	Iron ore	2	1255.50	7	606.69	9	1862.19
	Chitradurga	Copper ore	-	-	2	416.53	2	416.53
	Gulbarga	Gold	-	-	1	55.73	1	55.73
		Limestone	2	188.55	-	-	2	188.55
	Hassan	Chromite	-	-	5	691.4	5	691.4
	Kolar	Gold	1	5213.21	-	-	1	5213.21
	Mysore	Magnesite	-	-	3	136.27	3	136.27
	Uttara Kannada	Manganese ore	-	-	1	80.94	1	80.94

Contd...

Table-14 (contd.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Karnataka (concl.)	Raichur	Gold	-	-	6	1521.39	6	1521.39
	Shimoga	Manganese ore	-	-	1	526.10	1	526.10
	Tumkur	Gold	-	-	1	38.04	1	38.04
		Total	5	6657.26	37	8070.38	42	14727.64
Kerala	Kollam	Sillimanite	4	354.57	1	203.80	5	558.37
		Total	4	354.57	1	203.80	5	558.37
Madhya Pradesh	Anuppur	Bauxite	-	-	1	148.18	1	148.18
	Balaghat	Copper ore	1	480.10	-	-	1	480.10
		Manganese ore	11	1236.70	-	-	11	1236.70
	Chhatarpur	Phosphorite	-	-	1	48.76	1	48.76
	Jhabua	Phosphorite	-	-	3	49.11	3	49.11
	Katni	Limestone	2	1036.03	-	-	2	1036.03
	Nimach	Limestone	2	500.45	-	-	2	500.45
	Panna	Diamond	2	275.96	-	-	2	275.96
	Rewa	Bauxite	-	-	1	4.90	1	4.90
	Sagar	Phosphorite	-	-	1	52.80	1	52.80
	Satna	Bauxite	-	-	2	361.00	2	361.00
		Limestone	2	1624.46	-	-	2	1624.46
		Total	20	5153.70	9	664.75	29	5818.45
Maharashtra	Bhandara	Kyanite	-	-	4	126.27	4	126.27
		Manganese ore	5	324.44	-	-	5	324.44
	Chandrapur	Fluorite	-	-	1	32.70	1	32.70
	Gondia	Iron ore	-	-	1	9.32	1	9.32
	Nagpur	Manganese ore	13	428.37	-	-	13	428.37
	Yeotmal	Limestone	-	-	2	119.75	2	119.75
		Total	18	752.81	8	288.04	26	1040.85

Contd...

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	-	-	3	1930.17	3	1930.17
		Iron ore	7	6238.53	11	6722.19	18	12960.72
	Keonjhar	Manganese ore	1	266.77	3	1318.99	4	1585.76
		Bauxite	2	1843.52	1	428.31	3	2271.83
		Limestone	-	-	2	1586.22	2	1586.22
	Koraput	Garnet (Gem)	-	-	1	33.95	1	33.95
		Limestone	-	-	3	332.96	3	332.96
	Nawapara	Manganese ore	-	-	1	501.67	1	501.67
		Bauxite	1	117.44	-	-	1	117.44
	Raygada	Iron ore	4	2593.64	4	2180.92	8	4774.56
		Limestone	2	1024.49	-	-	2	1024.49
		Total	17	12084.39	40	20840.88	57	32925.27
Rajasthan	Jaisalmer	Limestone	-	-	2	1998.40	2	1998.40
	Jalore	Fluorite	-	-	4	218.07	4	218.07
	Jhunjhunu	Copper ore	3	710.38	-	-	3	710.38
	Sirohi	Lead & Zinc ore	-	-	1	63.00	1	63.00

Contd...

Table-14 (concl.)

State	Districts	Minerals	Central Government		State Government		Total	
			No.	Area	No.	Area	No.	Area
Rajasthan (concl.)	Udaipur	Phosphorite	-	-	3	1750.25	3	1750.25
		Total	3	710.38	10	4029.72	13	4740.10
Sikkim	Sikkim East	Copper ore	-	-	3	96.32	3	96.32
		Total	-	-	3	96.32	3	96.32
Tamil Nadu	Ariyalur	Limestone	-	-	6	624.35	6	624.35
	Kanyakumari	Garnet	3	153.19	-	-	3	153.19
	Salem	Magnesite	3	761.86	1	96.34	4	858.20
	Sivaganga	Graphite	-	-	2	242.46	2	242.46
	Tirunelveli	Garnet	-	-	1	4.36	1	4.36
		Limestone	-	-	2	31.67	2	31.67
	Vellore	Vermiculite	-	-	1	23.71	1	23.71
	Virudhunagar	Limestone	-	-	3	869.91	3	869.91
	Total	6	915.05	16	1892.80	22	2807.85	
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 means any operations 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 Hydro Carbons 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 kilometres;

4.1 STATE WISE DISTRIBUTION OF PROSPECTING LICENCE

As per information received from the State Governments/Union Territories, during 2017-18, 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 2017-18, no information regarding “Prospecting licence-cum-mining lease” or composite licence” having been approved/granted was received.

The state wise & mineral wise distribution of prospecting licences granted during 2015-16 to 2017-18 is given in Table-15 and 16 respectively.

**Table-15: Prospecting Licences Granted from 2015-16 to 2017-18 (P)
(By States)**

State	2015-16		2016-17		2017-18	
	No.	Area (In ha)	No.	Area (In ha)	No.	Area (In ha)
Andhra Pradesh	1	900.00	-	-	-	-
Arunachal Pradesh	-	-	-	-	-	-
Chhattisgarh	1	1548.00	-	-	-	-
Gujarat	-	-	-	-	-	-
Himachal Pradesh	-	-	-	-	-	-
Jharkhand	-	-	-	-	-	-
Madhya Pradesh	-	-	-	-	-	-
Maharashtra	-	-	-	-	-	-
Manipur	-	-	-	-	-	-
Odisha	3	421.048	-	-	-	-
Rajasthan	-	-	-	-	-	-
Tamil Nadu	-	-	-	-	-	-
Telangana	-	-	-	-	-	-
Uttarakhand	-	-	-	-	-	-
Total	5	2869.048	-	-	-	-

Excluding Atomic minerals, Coal, Lignite, Petroleum and Natural Gas & minor minerals.

Source: As data received from various State Governments.

P: Provisional

Table-16: Prospecting Licences Granted from 2015-16 to 2017-18(P)
(By Minerals)

Mineral	2015-16		2016-17		2017-18	
	No.	Area (In ha)	No.	Area (In ha)	No.	Area (In ha)
Barytes	-	-				
Bauxite	-	-				
Calcite	-	-				
China clay	-	-				
Chromite	3	421.048				
Diamond	-	-				
Dolomite	-	-				
Fireclay	-	-				
Garnet (abrasive)	-	-				
Graphite	-	-				
Gypsum	-	-				
Iron ore	-	-				
Laterite	-	-				
Limestone	-	-	Nil	Nil	Nil	Nil
Limestone (cement grade)	-	-				
Manganese ore	-	-				
Mica	-	-				
Pyrophyllite	-	-				
Quartz	-	-				
Red ochre	-	-				
Rock Phosphate	-	-				
Talc/Soapstone/steatite	-	-				
Semi Precious Stone	-	-				
Silica sand	-	-				
Siliceous Earth	-	-				
Group of minerals	2	2448.00				
Total	5	2869.048	-	-	Nil	Nil

Excluding Atomic minerals, Coal, Lignite, Petroleum and Natural Gas & minor minerals.

Source: As data received from various State Governments.

P: Provisional

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 2017-18, 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 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 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 2017-18, no information regarding Reconnaissance Permits/Non-Exclusive Reconnaissance Permits having been approved/granted was received.

