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Government of India
कोयला और खान मंत्रालय
Ministry of Coal & Mines
खान विभाग
Department of Mines



**Bulletin of
Mining Leases
&
Prospecting Licences, 2002**
(Excluding Atomic Minerals, Coal, Petroleum,
Natural Gas and Minor Minerals)

खनिज अर्थशास्त्र प्रभाग
Mineral Economics Division
भारतीय खान ब्यूरो
INDIAN BUREAU OF MINES
नागपुर
Nagpur

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Natural Gas and Minor Minerals)*

Issued by
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INDIAN BUREAU OF MINES
Nagpur

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PREFACE

The preparation and updation of the Directory of Mining Leases is a continuous exercise carried out by the Indian Bureau of Mines. Compilation of information on prospecting licences executed/renewed/revoked is being carried out for the purpose of publishing it in the Bulletin of Mineral Information, a half-yearly publication which, inter alia, contains information on mining leases, mineral legislation, trade policy, etc. This is the fifth edition of the Bulletin of Mining Leases and Prospecting Licences, brought out by Indian Bureau of Mines.

This publication contains information on mining leases, prospecting licences as well as reconnaissance permits as on 31.3.2002. The Directory of Mining Leases as on 31.3.2002 incorporates the list of mining leases so far granted/executed up to March, 2002 by the various State Governments. Information contained in the Directory of Mining Leases has been analysed with different parameters, and distribution of mining leases, statewide, district-wise, mineralwise and sectorwise which clearly demarcates high, medium and low mineral potential bearing districts. This type of information will, not only satisfy the basic need of various entrepreneurs dealing with mineral industry, but also help the planners to consider 'district', as a unit in the process of planning and development of an area or a district.

The prospecting licences are classified into two groups. The first group consists of licences covering areas up to 25 sq km in individual cases and the second group, the reconnaissance permits above 25 sq km and up to 5,000 sq km in individual cases.

For updation of the Directory of Mining Leases as on 31.3.2002, data supplied by the different State Governments under the statutory provision of Rule 57 (2) of MCR, 1960 was the basis and was used freely for the analysis. Insofar as prospecting licences/ reconnaissance permits are concerned, the individual licence/permit deeds and the consolidated annual returns received under Rule 57(1) and (2) of MCR, 1960 have been utilized for the same period. Besides the above, the approval orders in case of reconnaissance permits were the sources of information.

The setting up of databases, including mining leases under Indo-BRGM Co-operation based on Oracle RDBMS packages provided a further boost to the already existing computer based data management system in IBM. The main advantage of this system is to retrieve query based outputs involving not only intra-database manipulation, but also inter-database manipulation. This is an added advantage in meeting the data required by entrepreneurs on inventory and other database information.

Indian Bureau of Mines is thankful to State Government Departments for furnishing information on mining leases, prospecting licences and reconnaissance permits and continue to solicit their spontaneous cooperation in future.

It is hoped that the analysis and information presented in this publication will be useful in the process of planning and programming of new ventures in judicious utilization of mineral resources and project of mineral-based industries in the country.

Nagpur
Dated : 23/4/2004



(K. S. RAJU)
Controller General
Indian Bureau of Mines

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1. Introduction

India has a total geographical area of about 328 million hectares. Of this, the mining lease area, except for fuel and atomic minerals, constitutes around 0.20% (6,24,125 hectares). The position of mining leases as on 31.3.2002 reveals that there are as many as 8,872 mining leases (compared to 9,330 in the previous year) granted in the country by the State Governments covering 62 minerals including lignite (but excluding coal, petroleum, natural gas, atomic minerals and minor minerals) with a total area of 6,24,125 hectares and spread over 24 states. These 62 minerals are broadly classified into metallic and non-metallic minerals. This bulletin highlights statewise, sectorwise and districtwise distribution of mining leases, prospecting licences and reconnaissance permits frequency distribution of mining leases, etc. Though apparently negligible, this is still an important land use segment as it contributes to the economic growth of the country. Besides, it calls for environmental protection as land degradation takes place during the process of mining activities.

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

The Indian mineral sector is fully opened to private sector both domestic and foreign. The Government had taken a series of new policy initiatives under the overall framework of the National Mineral Policy, 1993 for the growth of mineral sector. As per the amendment to the MMRD Act (now re-designated as MMDR Act), 1957 in December, 1999 a new entity termed 'Reconnaissance Permit' covering essentially prospecting licences over large areas has been introduced. In this amended Act, the limit of maximum areas of reconnaissance permits, prospecting licences and mining leases is 10,000 sq km, 25 sq km and 10 sq km respectively in a state. This provision may facilitate the entrepreneurs in acquiring more number of "reconnaissance permits, prospecting licences and mining leases" leading to increase mineral production. Besides, the amended Act provides powers to the State Governments for grant of prospecting licences and mining leases in areas which are not compact and contiguous in respect of minerals other than fuel and atomic minerals.

Under Rule 57 (1) of MCR 1960, a copy of every reconnaissance permit, (no provision for renewal of reconnaissance permits), prospecting licence and mining lease granted or renewed shall be supplied by each State Government within two months of such grant or renewal, to the Controller General, Indian Bureau of Mines. Besides, under

Rule 57 (2) of MCR,1960 all the State Governments / Union Territories are required to submit to the Controller General, Indian Bureau of Mines, a consolidated annual return of reconnaissance permits/prospecting licences/mining leases granted or executed in proforma 'A', prospecting licences/mining leases renewed in proforma 'B' and termination of mining leases and reasons for termination in proforma 'C', for the preceding financial year ending March. The above statements for the previous financial year are required to be submitted to IBM on or before 30th June each year by the State Government. From such information received from all the State Governments under statutory provisions, the information pertaining to mining leases and prospecting licences has been processed and updated through computerization. Subsequently, the required outputs have been generated.

2. Land Use Scenario

India's geographical area is about 328 million hectares. The entire geographical area is broadly classified into 8 segments including mining lease areas as follows:

Sl. No.	Area/Segment	Total area in Million hectares	Percentage of area
1.	Agricultural (Gross cropped areas)	186.60	56.76
2.	Permanent pastures & other grazing land	11.10	3.38
3.	Culturable waste (Potentially Arable)	14.10	4.29
4.	Forest	68.80	20.93
5.	Barren & unculturable land	19.00	5.78
6.	Non-agricultural land	22.40	6.82
7.	Mining lease area	0.62*	0.19
8.	Other area (No information available)	06.08	1.84
	Total	328.70	100.00

Source: "Indian Agriculture in Brief" by Directorate of Economics & Statistics, Department of Agriculture and Co-operation, Ministry of Agriculture, 27th Edition Data 1995-96, (Report published in January 2000).

*Directory of Mining leases 2001, Indian Bureau of Mines.

Out of the total geographical area, almost two-thirds are under agricultural, cultivable, permanent pastures and grazing lands.

The mining lease area, constitutes around 0.19% (6,24,125 hectares) of the total geographical area of India. However, mining lease area continues to be an important segment and contributing factor to the economy of the country. At the same time, due attention is to be paid for environmental protection as land degradation takes place during the process of mining activities. From the table above, it may be seen that the total mining lease area is negligible in the total geographical area.

3. Mining Leases

3.1 STATEWISE ANALYSIS

As on 31.3.2002, there are 8,872 number of mining leases granted by 24 State Governments for 62 different minerals, covering an area of 6,24,125.48 hectares in the country. States rich in minerals where maximum number of mining leases granted are Gujarat (16.31%) followed by Andhra Pradesh (15.61%), Rajasthan (14.73%), Madhya Pradesh (13.02%), Orissa (7.03%), Karnataka (5.78%), Tamil Nadu (5.73%), Goa (4.46%) and Jharkhand (4.33%). These nine states together account for about 87% of total leases executed and remaining fifteen states account for remaining about 13% of mining leases.

The maximum mining lease area covered by different states are Rajasthan (22.18%) followed by Orissa (15.32%), Karnataka (9.10%), Andhra Pradesh (7.30%), Jharkhand (7.24%), Tamil Nadu (6.69%), Madhya Pradesh (5.36%), Gujarat (5.10%), Chhattisgarh (4.98%) and Goa (4.86%). These ten states account for 87.63% of total lease areas executed and the remaining fourteen states represent 12.37%. The state-wise mining lease distribution together with lease areas as well as statewise/ district-wise distribution of mining leases as on 31.03.2002 are given in Tables-1 and 2 respectively.

Total mining leases as on 31.3.2002 decreased by 4.90% over the previous year and whereas corresponding lease areas decreased by 5.26% during the same year.

**Table-1 : Statewise Summary of Lease Distribution
(As on 31/03/2002)**

Sl. No.	State	No. of leases	Percentage	Lease area (Hect.)	Percentage
1.	Andhra Pradesh	1,385	15.61	45,574.74	7.30
2.	Assam	16	0.18	1,287.21	0.21
3.	Bihar	51	0.57	5,421.91	0.87
4.	Chhattisgarh	244	2.75	31,102.57	4.98
5.	Delhi	4	0.04	486.37	0.08
6.	Goa	396	4.46	30,324.63	4.86
7.	Gujarat	1,447	16.31	31,800.43	5.10
8.	Haryana	141	1.60	15,936.70	2.53
9.	Himachal Pradesh	52	0.58	2,967.99	0.48
10.	Jammu & Kashmir	20	0.23	1,272.14	0.20
11.	Jharkhand	384	4.33	45,181.83	7.24
12.	Karnataka	513	5.78	56,813.10	9.10
13.	Kerala	122	1.38	2,517.13	0.40
14.	Madhya Pradesh	1,155	13.02	33,425.40	5.36
15.	Maharashtra	242	2.73	17,404.42	2.79
16.	Manipur	2	0.02	610.17	0.10
17.	Meghalaya	22	0.25	4,166.89	0.67
18.	Orissa	624	7.03	95,646.13	15.32
19.	Rajasthan	1,307	14.73	1,38,408.56	22.18
20.	Sikkim	4	0.04	86.00	0.01
21.	Tamil Nadu	508	5.73	41,768.61	6.69
22.	Uttar Pradesh	99	1.12	6,740.94	1.08
23.	Uttaranchal	56	0.63	2,757.15	0.44
24.	West Bengal	78	0.88	12,424.46	1.99
	Total	8,872	100.00	6,24,125.48	100.00

Table-2 : Statewise/Districtwise Distribution of Leases and Lease Area
(As on 31/03/2002)

Sl. No.	State	District	No. of Leases	Lease area (Hect.)
1.	Andhra Pradesh	Adilabad	38	3,185.70
		Anantapur	143	3,316.29
		Chittoor	19	422.07
		Cuddapah	177	4,797.16
		Godavari (East)	52	234.27
		Godavari (West)	29	471.87
		Guntur	32	4,191.45
		Karimnagar	12	2,235.33
		Khammam	48	1,633.36
		Krishna	25	2,426.94
		Kurnool	219	4,246.24
		Mehboobnagar	73	413.84
		Medak	29	272.07
		Nalgonda	51	5,044.52
		Nellore	202	6,563.29
		Nizamabad	1	8.00
		Prakasam	62	1,390.64
		Rangareddi	43	1,500.12
		Srikakulam	2	13.19
		Visakhapatnam	36	1,824.14
		Vizianagaram	73	1,196.93
Warangal	19	187.32		
		Total	1385	45,574.74
2.	Assam	Kamrup	1	4.03
		Karbi Anglong	5	419.68
		North Cachar Hills	10	863.50
		Total	16	1,287.21
3.	Bihar	Bhagalpur	4	76.26
		Jahanabad	2	16.81
		Lakhisarai	1	23.00
		Monghyr	16	174.62
		Nawada	4	2,670.53
		Rohtas	24	2,460.91
		Total	51	5,421.91

(Contd.)

Table-2 (Contd.)

Sl. No.	State	District	No. of Leases	Lease area (Hect.)
4.	Chhattisgarh	Bastar	11	2,089.93
		Bilaspur	29	4,573.09
		Dantewara	11	7,583.34
		Durg	82	4,610.51
		Janjgir-Champa	10	1,860.44
		Kanker	8	1,893.49
		Kawardha	3	654.43
		Korba	1	0.45
		Mahasamund	4	16.19
		Raigarh	18	221.74
		Raipur	38	3,207.54
		Rajnandgaon	20	119.70
		Surguja	9	4,271.00
		Total	244	31,102.57
5.	Delhi	Delhi	4	486.37
		Total	4	486.37
		6.	Goa	North Goa
South Goa	258			19,880.74
Total	396			30,324.63
7.	Gujarat	Amreli	23	2,240.29
		Banaskantha	16	2,215.89
		Bharuch	42	1,028.05
		Bhavnagar	9	1,603.89
		Dahod	17	323.12
		Jamnagar	207	6,142.41
		Junagarh	103	2,174.96
		Kheda	26	392.64
		Kachchh	181	5,384.69
		Mehesana	14	271.96
		Navasari	7	36.49
		Panchmahals	48	565.83
		Patan	12	244.71
		Porbandar	323	4,361.63
		Rajkot	84	581.82
		Sabarkantha	70	1,312.27
		Surat	1	6.52
		Surendranagar	161	934.27
		Vadodara	103	1,978.99
		Total	1,447	31,800.43

(Contd.)

Table -2 (Contd.)

Sl. No.	State	District	No. of Leases	Lease area (Hect.)
8.	Haryana	Ambala	2	340.56
		Bhiwani	4	705.35
		Faridabad	37	6,137.34
		Gurgaon	68	6,730.79
		Mahendragarh	25	1,731.64
		Rewari	5	290.82
		Total	141	15,936.70
9.	Himachal Pradesh	Bilaspur	9	359.63
		Kannaur	2	609.09
		Mandi	3	53.86
		Simla	1	11.34
		Sirmur	35	854.86
		Solan	2	1,079.21
		Total	52	2,967.99
10.	Jammu & Kashmir	Anantnag	6	267.93
		Baramula	1	2.71
		Doda	3	62.68
		Jammu	1	4.67
		Leh	1	200.00
		Poonch	1	15.80
		Pulwama	1	100.00
		Srinagar	1	144.25
		Udhampur	5	474.10
		Total	20	1,272.14
11.	Jharkand	Bokaro	1	7.51
		Deogarh	3	5.94
		Dhanbad	29	2,413.75
		Dumka	3	8.35
		Garwah	4	1,381.27
		Giridih	14	664.02
		Godda	1	7.28
		Gumla	23	2,560.61
		Hazaribagh	16	1,200.14
		Kodarma	54	4,102.19
		Latehar	45	2,122.98
		Lohardaga	21	1,145.84
		Palamau	41	2,807.54
		Ranchi	9	1,766.98
		Sahebganj	12	215.48
		Singhbhum (East)	4	6,420.12
Singhbhum (West)	104	18,351.83		
Total	384	45,181.83		

(Contd.)

Table-2 (Contd.)

Sl. No.	State	District	No. of Leases	Lease area (Hect.)
12.	Karnataka	Bagalkot	29	4,,538.92
		Bangalore	15	349.39
		Belgaum	43	2,377.56
		Bellary	96	9,031.29
		Bidar	1	21.85
		Bijapur	16	1,440.75
		Chikmagalur	6	4,821.53
		Chitradurga	53	5,032.29
		Coorg	1	0.80
		Dawangere	2	10.12
		Dharwar	25	553.79
		Gulbarga	20	2,460.70
		Hassan	16	1,764.16
		Kolar	8	5,521.50
		Koppal	6	47.17
		Mandya	6	77.50
		Mysore	26	1,313.04
		North Kanara	45	5,689.54
		Raichur	8	1,069.85
		Shimoga	17	1,923.99
		South Kanara	21	1,399.08
		Tumkur	48	6,567.23
Udupi	5	801.05		
		Total	513	56,813.10
13.	Kerala	Alapuzha	61	988.46
		Kannur	2	2.90
		Kasargod	3	14.50
		Kollam	12	337.99
		Kottayam	5	850.14
		Palakkad	1	245.69
		Thiruvananthapuram	30	71.45
		Wynad	8	6.00
				Total
14.	Madhya Pradesh	Badwani	22	81.61
		Balaghat	71	2,,327.25
		Betul	1	54.58
		Chhatarpur	37	250.03
		Chhindwara	11	91.48
		Damoh	11	3,197.27
		Datia	4	26.02
		Dewas	4	19.84

(Contd.)

Table-2 (Contd.)

Sl. No.	State	District	No. of Leases	Lease area (Hect.)		
	Madhya Pradesh (Contd.)	Dhar	37	339.04		
		Gwalior	8	210.91		
		Hoshangabad	1	1.16		
		Jabalpur	81	1,656.92		
		Jhabua	25	194.81		
		Katni	251	8,210.98		
		Khargaon	14	26.50		
		Mandla	37	102.35		
		Mandsaur	43	464.50		
		Morena	1	18.00		
		Narsinhapur	20	135.90		
		Nimach	13	1,070.14		
		Panna	6	640.76		
		Rewa	50	1,819.68		
		Sagar	8	133.17		
		Satna	308	9,888.79		
		Sehore	4	38.66		
		Seoni	9	14.82		
		Shahdol	11	742.05		
		Shivpuri	4	54.73		
		Shyampur	11	555.45		
		Sidhi	9	549.12		
Tikamgarh	34	440.61				
Umariya	9	68.47				
		Total	1,155	33,425.40		
15.	Maharashtra	Amravati	2	16.71		
		Bhandara	28	848.83		
		Chandrapur	37	5,750.74		
		Gadchiroli	1	25.91		
		Gondia	2	62.08		
		Kolhapur	14	3,038.89		
		Nagpur	48	1,058.75		
		Raigad	1	144.34		
		Ratnagiri	12	695.09		
		Sindhudurg	68	3,411.93		
		Yeotmal	29	2,351.15		
				Total	242	17,404.42
		16.	Manipur	Chandel	1	223.93
Ukhrul	1			386.24		
Total	2			610.17		

(Contd.)

Table-2 (Contd.)

Sl. No.	State	District	No. of Leases	Lease area (Hect.)
17.	Meghalaya	Garo Hills West	3	691.44
		Jaintia Hills	2	15.28
		Khasi Hills East	9	1,199.54
		Khasi Hills West	8	2,260.63
		Total	22	4,166.89
18.	Orissa	Angul	6	562.82
		Bargarh	31	1,800.91
		Baudh	5	87.42
		Bolangir	90	2,391.59
		Cuttack	14	1,633.61
		Dhenkanal	6	1,146.49
		Ganjam	3	2,929.54
		Jajpur	19	6,100.55
		Jharsuguda	14	1,354.29
		Kalahandi	61	710.42
		Keonjhar	132	36,658.58
		Khurda	4	180.97
		Koraput	14	7,484.68
		Malkangiri	4	1,754.22
		Mayurbhanj	42	5,514.52
		Nawapara	6	464.75
		Nayagarh	1	16.64
		Raygada	12	1,831.42
		Sambalpur	10	256.44
		Sundergarh	150	22,766.27
	Total	624	95,646.13	
19.	Rajasthan	Ajmer	211	8,898.42
		Alwar	23	2,302.69
		Banswara	13	2,444.72
		Barmer	19	5,519.16
		Bharatpur	24	1,898.96
		Bhilwara	147	9,052.46
		Bikaner	93	13,409.53
		Bundi	5	505.37
		Chittorgarh	58	7,302.83
		Dausa	17	777.84
		Dungarpur	76	5,210.40
		Ganganagar	16	9,841.56
		Hanumangarh	3	302.17
		Jaipur	87	8,357.56
		Jaisalmer	22	5,465.13
		Jalore	5	1,375.00

(Contd.)

Table-2 (Contd.)

Sl. No.	State	District	No. of Leases	Lease area (Hect.)
	Rajasthan (Contd.)	Jhalawar	1	481.81
		Jhunjhunu	26	2,022.56
		Jodhpur	22	1,217.86
		Karauli	1	5.00
		Kota	4	613.10
		Nagaur	18	9,773.89
		Pali	44	4,157.17
		Rajsamand	71	6,965.78
		Sawai Madhopur	40	2,451.32
		Sikar	41	4,159.09
		Sirohi	15	2,249.95
		Tonk	28	1,448.82
		Udaipur	177	20,198.41
		Total	1307	1,38,408.56
20.	Sikkim	Sikkim East	3	84.67
		Sikkim West	1	1.33
		Total	4	86.00
21.	Tamil Nadu	Ariyalur	15	986.67
		Chengai-Anna	1	6.58
		Coimbatore	23	958.72
		Cuddalore	14	26,029.39
		Dharmapuri	5	207.77
		Dindigul	28	1,759.29
		Erode	25	51.67
		Kanchipuram	3	320.92
		Kanyakumari	5	258.31
		Karur	30	68.26
		Madurai	12	242.72
		Nagappattinam	5	7.88
		Namakkal	46	1,088.40
		Perambalur	24	1,461.66
		Periyar	15	11.88
		Ramnathapuram	5	818.21
		Salem	104	2,346.39
		Sivaganga	5	507.68
		Theni (Madurai)	3	6.77
		Thiruvallur	4	38.44
		Tiruchirapalli	35	1,205.88
		Tirunelveli	73	1,142.73
Tuticorin	5	123.06		
Vellore	5	116.56		

(Contd.)

Table-2 (Concl.)

Sl. No.	State	District	No. of Leases	Lease area (Hect.)
	Tamil Nadu (Contd.)	Villuppuram	4	56.48
		Virudhunagar	13	1,945.21
		Total	507	41,767.53
22.	Uttaranchal	Almoda	2	6.20
		Bageshwar	27	553.71
		Dehradun	4	319.80
		Nainital	2	192.62
		Pithoragarh	14	1443.77
		Tehri Garhwal	7	241.05
		Total	56	2,757.15
23.	Uttar Pradesh	Allahabad	59	1,623.39
		Banda	14	437.12
		Hamirpur	8	48.76
		Jhansi	4	107.53
		Lalitpur	9	1,730.58
		Mirzapur	1	87.41
		Sonbhadra	4	2,706.15
		Total	99	6,740.94
24.	West Bengal	Bankura	24	209.92
		Birbhum	25	480.98
		Burdwan	9	10,002.87
		Jalpaiguri	3	1,056.50
		Midnapur	1	5.76
		Purulia	16	668.43
		Total	78	12,424.46
		Grand Total	8,872	6,24,125.48

3.2 DISTRICTWISE ANALYSIS

(i) HIGH MINERAL POTENTIAL DISTRICTS :

Districtwise analysis indicates that the total number of mineral bearing districts are around 280 falling in 24 states in the country. Out of these, 21 districts in 8 states are considered as highly potential districts in each of which more than 100 mining leases granted. There are 3,799 mining leases granted in 21 districts covering an area of 2,06,597 hectares in the country. These constitute 43% of total number of mining leases and cover around 33% of total area. Information on the number of mining leases granted in these 21 districts is furnished in Table-3.

Table - 3 : High Mineral Potential Districts

Sl. No.	District	No. of leases Granted	No. of minerals	Area of leases in hectares	States
1.	Anantapur	143	14	3,316.29	Andhra Pradesh
2.	Cuddapah	177	15	4,797.16	Andhra Pradesh
3.	Kurnool	219	14	4,246.24	Andhra Pradesh
4.	Nellore	202	10	6,563.29	Andhra Pradesh
5.	North Goa	138	2	10,443.89	Goa
6.	South Goa	258	4	19,880.74	Goa
7.	Jamnagar	207	7	6,142.41	Gujarat
8.	Junagarh	103	4	2,174.96	Gujarat
9.	Kachchh	181	10	5,384.69	Gujarat
10.	Porbandar	323	4	4,361.63	Gujarat
11.	Surendranagar	161	4	934.27	Gujarat
12.	Vadodara	103	5	1,978.99	Gujarat
13.	Singhbhum (West)	104	10	18,351.83	Jharkhand
14.	Katni	251	9	8,210.98	Madhya Pradesh
15.	Satna	308	8	9,888.79	Madhya Pradesh
16.	Keonjhar	132	7	36,658.58	Orissa
17.	Sundergarh	150	11	22,766.27	Orissa
18.	Ajmer	211	10	8,898.42	Rajasthan
19.	Bhilwara	147	8	9,052.46	Rajasthan
20.	Udaipur	173	16	20,198.41	Rajasthan
21.	Salem	104	6	2,346.39	Tamil Nadu
	Total	3,799		2,06,596.69	

(ii) MEDIUM MINERAL POTENTIAL DISTRICTS :

Mining leases granted between 51 to 100 is considered as medium potential districts. There are 1,767 mining leases granted in 25 districts covering an area of 95,180 hectares in the country. These constitute 20% of total number of mining leases and cover over 15% of total area. Districtwise information is furnished in Table-4.

Table-4 : Medium Mineral Potential Districts

Sl. No.	District	No. of leases Granted	No. of minerals	Areas of leases (hectare)	State
1.	Godavari(East)	52	4	234.27	Andhra Pradesh
2.	Mehboobnagar	73	2	413.84	Andhra Pradesh
3.	Nalgonda	51	2	5,044.52	Andhra Pradesh
4.	Prakasam (Ongole)	62	7	1,390.64	Andhra Pradesh
5.	Vizianagaram	73	6	1,196.93	Andhra Pradesh
6.	Durg	82	7	4,610.51	Chhattisgarh
7.	Rajkot	84	6	581.82	Gujarat
8.	Sabarkantha	70	9	1,312.27	Gujarat
9.	Gurgaon	68	4	6,730.79	Haryana
10.	Kodarma	54	2	4,102.19	Jharkhand
11.	Bellary	96	6	9,031.29	Karnataka
12.	Chitradurga	53	9	5,032.29	Karnataka
13.	Alapuzha (Alleppey)	61	2	988.46	Kerala
14.	Balaghat	71	10	2,327.25	Madhya Pradesh
15.	Jabalpur	81	11	1,656.92	Madhya Pradesh
16.	Sindhudurg	68	9	3,411.93	Maharashtra
17.	Bolangir	90	5	2,391.59	Orissa
18.	Kalahandi	61	4	710.42	Orissa
19.	Bikaner	93	5	13,409.53	Rajasthan
20.	Chittorgarh	58	6	7,302.83	Rajasthan
21.	Dungarpur	76	3	5,210.40	Rajasthan
22.	Jaipur	87	13	8,357.56	Rajasthan
23.	Rajasmand	71	8	6,965.78	Rajasthan
24.	Tirunelveli	73	4	1,142.73	Tamil Nadu
25.	Allahabad	59	1	1,623.39	Uttar Pradesh
	Total	1,767		95,180.15	

(iii) **LOW MINERAL POTENTIAL DISTRICTS :**

Mining leases granted between 1 to 50 is considered as low mineral potential districts. There are 3,306 mining leases granted in 234 districts covering an area of 3,22,349 hectares in the country. These account for 37% of the leases, covering 52% of the total area. Statewise distribution of low potential districts and area covered is given in Table-5.

**Table -5 : Low Mineral Potential Districts
(By States)**

Sl. No.	State	No. of District	No. of leases Granted	Lease area (Hect.)
1.	Andhra Pradesh	13	333	18,371.56
2.	Assam	3	16	1,287.21
3.	Bihar	6	51	5,421.91
4.	Chhattisgarh	12	162	26,492.06
5.	Delhi	1	4	486.37
6.	Gujarat	11	215	8,929.39
7.	Himachal Pradesh	5	73	9,205.91
8.	Haryana	6	52	2,967.99
9.	Jammu & Kashmir	9	20	1,272.14
10.	Jharkhand	15	226	22,727.81
11.	Karnataka	21	364	42,749.52
12.	Kerala	7	61	1,528.67
13.	Madhya Pradesh	28	444	11,341.46
14.	Maharashtra	10	174	13,992.49
15.	Manipur	2	2	610.17
16.	Meghalaya	4	22	4,166.89
17.	Orissa	16	191	33,119.27
18.	Rajasthan	21	387	59,013.17
19.	Sikkim	2	4	86.00
20.	Tamil Nadu	24	331	38,279.49
21.	Uttar Pradesh	6	40	5,117.55
22.	Uttaranchal	6	56	2,757.15
23.	West Bengal	6	78	12,424.46
	Total	234	3,306	3,22,348.64

3.3 MINERALWISE ANALYSIS

There are 62 naturally occurring minerals/metals for which the mining leases are granted in the country. These minerals/metals are broadly classified into metallic and non-metallic minerals.

(i) METALLIC MINERALS

The metallic minerals include ferrous, non-ferrous and noble metals. The ferrous group includes iron ore, manganese ore, chromite and tungsten, whereas non-ferrous group consists of antimony ores, bauxite, copper, lead & zinc ores, molybdenum ore and nickel ore. The noble metal group includes gold, silver and platinum group of metals. At present, there are no commercial mining leases for silver and platinum group of metals in the country.

Metallic minerals for which mining leases are granted as on 31.3.2002 are eight in number and the number of leases are 1,430 or 16.12% of the total mining leases with an area of 1,99,308.22 hectares (31.93% of the total mining area in the country). Out of the eight metallic minerals, the total number of mining leases granted for iron ore is placed at 605 followed by manganese ore (395), bauxite (354), chromite (35) and copper ore (17). These 5 minerals account for 1,406 mining leases (98.32%) of the mining leases for metallic minerals with an area of 1,84,313.19 hectares (92.48%) of the lease area of metallic minerals. The distribution of mining leases for metallic minerals is given in Table-6.

**Table- 6 : Distribution of Mining Leases
for Metallic Minerals**

Sl. No.	Mineral/Metal	No. of leases executed	Area in hectares
1.	Bauxite	354	27,902.52
2.	Chromite	35	9,236.42
3.	Copper ore	17	10,589.86
4.	Gold	9	6,708.34
5.	Iron ore	605	99,126.33
6.	Lead & zinc ores	12	8,221.35
7.	Manganese ore	395	37,458.76
8.	Tin	3	65.34
	Total	1,430	1,99,308.92

(ii) NON-METALLIC MINERALS

There are 54 major non-metallic or industrial minerals for which leases are granted in the country. In all, there are 7,442 (83.88%) of the total mining leases granted for these minerals with an area of 4,24,816.56 hectares (68.07%) of the total lease area. Distribution of mining leases for non-metallic minerals is given in Table-7.

Table- 7 : Distribution of Mining Leases for Non-Metallic Minerals

Sl. No.	Mineral/Metal	No. of leases	Area in Hectares
1.	Agate	9	390.19
2.	Amethyst	3	12.10
3.	Apatite	1	1,040.07
4.	Asbestos	69	4,225.10
5.	Ball clay	37	1,910.59
6.	Barytes	120	20,803.23
7.	Calcareous sand	15	269.64
8.	Calcite	78	1,776.42
9.	Chalk	159	671.34
10.	China clay	520	23,096.07
11.	Clay (others)	102	1,964.88
12.	Corundum	21	4,520.58
13.	Diamond	2	576.51
14.	Diaspore	23	436.43
15.	Dolomite	431	10,727.24
16.	Dunite	1	4.45
17.	Emerald	1	129.50
18.	Epidote	1	46.68
19.	Felsite	3	20.07
20.	Felspar	208	7,449.28
21.	Fireclay	413	22,999.00
22.	Fluorite	20	2,566.18
23.	Garnet	55	923.74
24.	Graphite	172	6,507.77
25.	Gypsum	99	26,407.59
26.	Iolite	4	24.38
27.	Jasper	22	1,217.86
28.	Kyanite	26	3,356.34
29.	Laterite	119	1,192.13
30.	Lignite	11	34,370.08
31.	Lime kankar	19	854.42
32.	Limeshell	40	4,745.14

(Contd.)

Table-7 (Concl.)

Sl. No.	Mineral/Metal	No. of leases	Area in Hectares
33.	Limestone	1,855	1,40,949.66
34.	Magnesite	31	3,810.57
35.	Mica	309	18,086.62
36.	Moulding sand	79	1,790.33
37.	Ochre	159	4,521.05
38.	Opal	1	200.00
39.	Perlite	1	144.65
40.	Phosphorite	14	3,642.87
41.	Pyrites	2	847.50
42.	Pyrophyllite	91	2,668.02
43.	Quartz	789	14,155.76
44.	Quartzite	63	1,410.71
45.	Rock salt	3	53.86
46.	Sand (others)	61	5,925.18
47.	Serpentine	1	2.00
48.	Shale	30	687.20
49.	Silica sand	572	24,170.90
50.	Sillimanite	14	5,483.60
51.	Slate	15	704.36
52.	Steatite	532	27,891.97
53.	Vermiculite	13	237.26
54.	Wollastonite	3	197.49
	Total	7,442	4,24,816.56

3.4 FREQUENCY DISTRIBUTION OF MINING LEASES

The number of mining leases so far granted for various minerals are classified into eight categories :

- Category – I** : Includes minerals for which number of mining leases granted is between 1,001-2,000;
- Category – II** : Includes minerals for which number of mining leases Granted is between 501 and 1,000;
- Category – III** : Includes minerals for which number of mining leases granted is between 401 and 500;
- Category – IV** : Includes minerals for which number of mining leases granted is between 301 and 400;
- Category – V** : Includes minerals for which number of mining leases granted is between 201 and 300;
- Category – VI** : Includes minerals for which number of mining leases granted is between 101 and 200;
- Category – VII** : Includes minerals for which number of mining leases granted is between 51 and 100 and
- Category – VIII** : Includes minerals for which number of mining leases granted is between 1 and 50.

Frequency distribution of mining leases by minerals is furnished in Table-8 .

Table-8 : Frequency Distribution of Mining Leases

Category	No. of leases Granted	Minerals	No. of Mining leases granted	Area covered in hectares
I	Between 1,001 to 2,000	Limestone	1,855	140,949.66
		Total	1,855	140,949.66
II	Between 501 to 1,000	China clay	520	23,096.07
		Iron ore	605	99,126.23
		Quartz	789	14,155.76
		Silica sand	572	24,170.90
		Steatite	532	27,891.97
		Total	3018	1,88,440.93
III	Between 401 to 500	Dolomite	431	10,727.24
		Fire clay	413	22,999.00
		Total	844	33,726.24

(Contd.)

Table-8 (Contd.)

Category	No. of leases Granted	Minerals	No. of Mining leases granted	Area covered in hectares
IV	Between 301 to 400	Bauxite	354	27,902.52
		Manganese ore	395	37,458.76
		Mica	309	18,086.62
		Total	1,058	83,447.90
V	Between 201 to 300	Felspar	208	7,449.28
		Total	208	7,449.28
VI	Between 101 to 200	Barytes	120	2,803.23
		Chalk	159	671.34
		Clay (Others)	102	1,964.88
		Graphite	172	6,507.77
		Laterite	119	1,192.13
		Ochre	159	4,521.05
		Total	831	17,660.40
VII	Between 51 to 100	Asbestos	69	4,225.10
		Calcite	78	1,776.42
		Garnet	55	923.74
		Gypsum	99	26,407.59
		Moulding sand	79	1,790.33
		Pyrophyllite	91	2,668.02
		Quartzite	63	1,410.71
		Sand (others)	61	5,925.18
		Total	595	45,127.09
VIII	Between 1 to 51	Agate	9	390.19
		Amethyst	3	12.10
		Apatite	1	1,040.07
		Ball clay	37	1,910.59
		Calcareous sand	15	269.64
		Chromite	35	9,236.42
		Copper ore	17	10,589.86
		Corundum	21	4,520.58
		Diamond	2	576.51
		Diaspore	23	436.43
		Dunite	1	4.45
		Emerald	1	129.50
		Epidote	1	46.68
		Felsite	3	20.07
		Fluorite	20	2,566.18
		Gold	9	6,708.34
		Iolite	4	24.38
Jasper	22	1,217.86		
Kyanite	26	3,356.34		

(Contd)

Table -8 (Concl.)

Category	No. of leases Granted	Minerals	No. of Mining leases granted	Area covered in hectares
	Between 1 to 51 (Contd.)	Laterite	119	1,192.13
		Lead & zinc ores	12	8,221.35
		Lignite	11	34,370.08
		Limekankar	19	854.42
		Limeshell	40	4,745.14
		Magnesite	31	3,810.57
		Opal	1	200.00
		Perlite	1	144.65
		Phosphorite	14	3,642.87
		Pyrites	2	847.50
		Rock salt	3	53.86
		Serpentine	1	2.00
		Shale	30	687.20
		Sillimanite	14	5,483.60
		Slate	15	704.36
		Tin	3	65.34
		Vermiculite	13	237.26
Wollastonite	3	197.49		
		Total	463	1,07,323.98
		Grand Total	8872	6,24,125.48

Number of minerals, their mining leases and area of leases covered categorywise are given below :

Category	No. of Mineral	No. of mining leases		Lease area in Hects.	
		No. of leases	Percentage	Lease area	Percentage
I	1	1,855	20.91	1,40,949.66	22.59
II	5	3,018	34.02	1,88,440.93	30.19
III	2	844	9.51	33,726.24	5.40
IV	3	1,058	11.92	83,447.90	13.37
V	1	208	2.34	7,449.28	1.19
VI	6	831	9.37	17,660.40	2.83
VII	8	595	6.71	45,127.09	7.23
VIII	36	463	5.22	1,07,323.98	17.20
Total	62	8872	100.00	6,24,125.48	100.00

3.5 MUSEUM DISTRICTS OF MINERALS

The concentration of both number and wide variety of minerals is confined to as many as 21 districts covering 8 states which have more than 4 varieties of minerals. The districts and occurrences of wide variety have been listed in Table-2. Cuddapah district of Andhra Pradesh and Udaipur district of Rajasthan are considered as museum districts of minerals. These two are endowed with as many as 15 and 16 varieties of minerals respectively.

3.6 SECTORWISE DISTRIBUTION OF MINING LEASES

Mining leases are in force both in the private and public sectors including Central and State Govt. Undertakings. Out of the total 8,872 mining leases in the country 665 (7.38%) leases are granted in the public sector extending over an area of 2,44,222.80 hectares and the remaining mining leases with an area of 3,79,902.68 hectares are in the private sector. Most of the metallic minerals namely copper ore, lead & zinc ores, and gold are in the public sector and other metallic minerals such as iron ore, manganese ore, chromite and the industrial minerals like limestone, dolomite, pyrite, apatite, barytes, fluorite, asbestos, kyanite, magnesite, etc. are being exploited by both public and private sectors.

i) Central Government Public Sector Undertakings :

There are 243 number of mining leases granted in 19 States for different minerals, covering an area of 1,26,867.22 hectares. The States rich in minerals where maximum number of mining leases granted for Central Govt. Public Sector Undertakings are Chhattisgarh (17.70%) followed by Madhya Pradesh (11.93%), Maharashtra (11.52%), Andhra Pradesh and Rajasthan (10.70% each), Jharkhand (9.47%) and Orissa (7.82%). These seven States together account for over 79.84% of total leases executed and remaining States account for 20.16%.

The maximum mining lease area covered by different States are Tamil Nadu (21.22%) followed by Chhattisgarh (17.58%), Jharkhand (14.85%), Orissa (10.42%), Rajasthan (10.26%) and Karnataka (10.03%). These six States account for 84.36% of total lease area executed and the remaining sixteen States represent 15.64%.

ii) State Government Public Sector Undertakings :

There are 422 number of mining leases granted in 22 States for different minerals, covering an area of 1,17,355.58 hectares. The States rich in minerals where maximum number of mining leases granted are Rajasthan (19.67%) followed by Karnataka (19.43%), Tamil Nadu (15.78%), Orissa (12.32%), Maharashtra (5.45%), Gujarat (4.27%), Andhra Pradesh (4.03%) and Jharkhand (3.79%). These eight States together account for over 84.74% of total leases executed and the remaining States account for remaining 15.26% of mining leases of public sector.

The maximum mining lease area covered by different States are Rajasthan (30.45%) followed by Orissa (24.95%), Karnataka (18.24%), Gujarat (5.87%) and Tamil Nadu (4.57%). These five States account for 84.08% of total lease area executed and the remaining sixteen States represent 15.92%.

Statewise and Sectorwise distribution of mining leases are given in Tables- 9 to 11.

**Table-9 : Sectorwise Distribution of Mining Leases
(As on 31/03/2002)
(Public Sector and Private Sector)**

Sl. No.	State	Total		Public Sector		Private Sector	
		No. of leases	Lease area (Hect.)	No. of leases	Lease area (Hect.)	No. of leases	Lease area (Hect.)
1.	Andhra Pradesh	1,385	45,574.74	43	8,794.71	1,342	36,780.03
2.	Assam	16	1,287.21	4	375.03	12	912.18
3.	Bihar	51	5,421.91	4	2,028.13	47	3,393.78
4.	Chhattisgarh	244	31,102.57	52	22,619.48	192	8,483.09
5.	Delhi	4	486.37	1	184.68	3	301.69
6.	Goa	396	30,324.63	-	-	396	30,324.63
7.	Gujarat	1,447	31,800.43	18	6,887.19	1,429	24,913.24
8.	Haryana	141	15,936.70	17	2,645.88	124	13,290.82
9.	Himachal Pradesh	52	2,967.99	6	573.71	46	2,394.28
10.	Jammu & Kashmir	20	1,272.14	5	277.54	15	994.60
11.	Jharkhand	384	45,181.83	39	23,118.53	345	22,063.30
12.	Karnataka	513	56,813.10	89	34,123.20	424	22,689.90
13.	Kerala	122	2,517.13	5	577.26	117	1,939.87
14.	Madhya Pradesh	1,155	35,096.62	39	6,310.20	1,116	27,115.20
15.	Maharashtra	242	17,404.42	51	2618.34	191	14,786.08
16.	Manipur	2	610.17	-	-	2	610.17
17.	Meghalaya	22	4,166.89	9	2,723.70	13	1,443.19
18.	Orissa	624	95,646.13	71	42,509.64	553	53,136.49
19.	Rajasthan	1307	1,38,408.56	109	48,758.32	1,198	89,650.24
20.	Sikkim	4	86.00	3	84.67	1	1.33
21.	Tamil Nadu	508	41,768.61	80	32,278.54	428	9,490.07
22.	Uttar Pradesh	99	6,740.94	9	4,387.93	90	2,353.01
23.	Uttaranchal	56	2,757.15	5	811.25	51	1,945.90
24.	West Bengal	78	12,424.46	6	1,534.87	72	10,889.59
	Total	8,872	6,24,125.48	665	2,44,222.80	8,207	3,79,902.68

**Table-10: Distribution of Mining Leases in Public Sector
(As on 31/03/2002)
(Central Govts. and State Govts.)**

Sl. No.	State	Public Sector (Total)		Central Govt.		State Govt.	
		No. of leases	Lease area (Hect.)	No. of leases	Lease area (Hect.)	No. of leases	Lease area (Hect.)
1.	Andhra Pradesh	43	8,794.71	26	6,511.71	17	2,283.00
2.	Assam	4	375.03	1	171.00	3	204.03
3.	Bihar	4	2,028.13	3	691.63	1	1,336.50
4.	Chhattisgarh	52	22,619.48	43	22,307.11	9	312.37
5.	Delhi	1	184.68	-	-	1	184.68
6.	Goa	-	-	-	-	-	-
7.	Gujarat	18	6,887.19	-	-	18	6,887.19
8.	Haryana	17	2,645.88	4	705.35	13	1,940.53
9.	Himachal Pradesh	6	573.24	5	542.24	1	31.47
10.	Jammu & Kashmir	5	277.54	1	140.80	4	136.74
11.	Jharkhand	39	23,118.53	23	18,843.25	16	4,275.28
12.	Karnataka	89	34,123.40	7	12,722.16	82	21,401.04
13.	Kerala	5	577.26	2	169.71	3	407.55
14.	Madhya Pradesh	39	6,310.20	29	6,132.13	10	178.07
15.	Maharashtra	51	2,618.34	28	1,650.58	23	967.76
16.	Manipur	-	-	-	-	-	-
17.	Meghalaya	9	2,723.70	5	1,723.63	4	1,000.07
18.	Orissa	71	42,509.64	19	13,224.59	52	29,285.05
19.	Rajasthan	109	48,758.32	26	13,014.73	83	35,743.59
20.	Sikkim	3	84.67	-	-	3	84.67
21.	Tamil Nadu	80	32,278.54	13	26,920.15	67	5,358.39
22.	Uttar Pradesh	9	4,387.93	1	33.58	8	4,354.35
23.	Uttaranchal	5	811.25	4	714.25	1	97.00
24.	West Bengal	6	1,534.87	3	648.62	3	886.25
	Total	665	2,44,222.80	243	1,26,867.22	422	1,17,355.58

**Table-11 : Distribution of Mining Leases in Public Sector
(As on 31/03/2002)
(By State/District/Mineral)**

Sl. No.	State	District	Mineral	Central Govt.		State Govt.	
				No. of leases	Lease area (Hect.)	No. of leases	Lease area (Hect.)
1.	Andhra Pradesh	Adilabad	Limestone	1	839.41	1	809.38
		Anantapur	Gold	1	168.42	-	-
		Chittoor	Gold	2	265.66	-	-
		Cuddapah	Barytes	-	-	6	160.42
		Godavari (West)	China clay	-	-	3	131.54
		Guntur	Lead & zinc	1	200.00	-	-
		Karimnagar	Sand (others)	5	1,602.00	-	-
		Khammam	Dolomite	1	384.61	-	-
			Sand (others)	1	5.34	-	-
		Krishna	Limestone	1	1,295.00	-	-
		Mehboobnagar	Felspar	1	17.82	-	-
		Prakasam	Iron ore	1	266.33	-	-
			Laterite	1	41.41	-	-
		Rangareddi	Limestone	2	868.74	-	-
			Shale	1	133.07	-	-
			Apatite	-	-	1	1,040.07
		Visakhapatnam	Mica	-	-	2	48.68
			Phosphorite	-	-	1	2.83
			Quartz	1	3.24	-	-
		Vizianagaram	Manganese ore	5	389.50	3	90.08
Moulding sand	1		31.16	-	-		
		Total	26	6,511.71	17	2,283.00	
2.	Assam	Kamrup	Quartz	-	-	1	4.03
		Karbi Anglong	Limestone	1	171.00	-	-
		North Cachar Hills	Limestone	-	-	2	200.00
		Total	1	171.00	3	204.03	
3.	Bihar	Monghyr	Quartzite	2	44.13	-	-
		Nawadha	Mica	-	-	1	1,336.50
		Rohtas	Pyrite	1	647.50	-	-
		Total	3	691.63	1	1,336.50	
4.	Chhattisgarh	Bastar	Iron ore	1	2028.79	-	-
		Bilaspur	Bauxite	1	34.04	-	-
			Dolomite	2	135.56	1	20.70
			Limestone	5	4167.88	-	-
		Dantewara	Iron ore	9	7569.31	-	-
		Durg	Dolomite	-	-	1	22.15
			Iron ore	4	2,732.62	-	-
			Limestone	5	695.43	-	-
			Moulding sand	1	24.98	-	-
			Quartzite	1	298.00	-	-
			Silica sand	2	16.16	-	-
		Janjgir-Champa	Dolomite	4	892.66	-	-
			Limestone	2	401.65	-	-
		Kanker	Bauxite	-	-	1	3.20
			Iron ore	2	1,859.66	-	-
Kawardha	Bauxite	1	626.11	-	-		

(Contd.)

Table-11 (Contd.)

Sl. No.	State	District	Mineral	Central Govt.		State Govt.	
				No. of leases	Lease area (Hect.)	No. of leases	Lease area (Hect.)
	Chhattisgarh (Contd.)	Raipur	Limestone	2	185.09	-	-
		Surguja	Bauxite	1	639.17	6	266.32
		Total		43	22,307.11	9	312.37
5.	Delhi	Delhi	China clay	-	-	1	184.68
		Total		-	-	1	184.68
6.	Gujarat	Banaskantha	Copper ore	-	-	1	1,402.00
		Bharuch	Lignite	-	-	2	327.87
		Bhavnagar	Lignite	-	-	1	1,355.00
		Jamnagar	Bauxite	-	-	2	469.96
		Kachchh	Bauxite	-	-	7	534.46
			Lignite	-	-	3	2,040.00
		Vadodara	Fluorite	-	-	2	757.90
		Total		-	-	18	6,887.19
7.	Haryana	Bhiwani	Lime kankar	4	705.35	-	-
		Faridabad	China clay	-	-	1	70.00
			Silica sand	-	-	4	1,283.09
		Gurgaon	Silica sand	-	-	3	239.76
		Mahendragarh	Felspar	-	-	1	23.61
			Iron ore	-	-	1	86.20
		Rewari	Limestone	-	-	1	9.85
			Slate	-	-	2	228.02
Total		4	705.35	13	1,940.53		
8.	Himachal Pradesh	Bilaspur	Limestone	-	-	1	31.47
		Mandi	Rock salt	3	53.86	-	-
		Sirmur	Limestone	1	255.70	-	-
		Solan	Limestone	1	232.68	-	-
		Total		5	542.24	1	31.47
9.	Jammu & Kashmir	Anantnag	China clay	-	-	1	4.06
		Doda	Gypsum	-	-	1	32.68
		Pulwama	Limestone	-	-	1	100.00
		Udhampur	Magnesite	1	140.80	1	n.a.
		Total		1	140.80	4	136.74
10.	Jharkhand	Dhanbad	Fireclay	1	138.83	-	-
			Sand (others)	1	8.15	-	-
		Garwah	Dolomite	1	202.35	-	-
			Limestone	3	1,178.92	-	-
		Hazaribagh	Limestone	-	-	1	64.78
		Kodarma	Mica	-	-	1	2,128.51
		Latehar	Iron ore	-	-	1	14.04
		Palamau	Graphite	-	-	7	693.55
			Limestone	-	-	1	1,043.83
		Ranchi	Limestone	-	-	2	239.63
		Singhbhum (East)	Copper ore	3	6,417.69	-	-
			Kyanite	-	-	1	2.43
		Singhbhum (West)	Iron ore	13	9149.06	-	-
			Kyanite	1	1,748.25	2	88.51
Total		23	18,843.25	16	4275.28		
11.	Karnataka	Bagalkot	Dolomite	-	-	3	726.41
			Limestone	-	-	10	3,671.68
		Bangalore	Corundum	-	-	1	14.16
			Felspar	-	-	4	158.63

(Contd.)

Table-11 (Contd.)

Sl. No.	State	District	Mineral	Central Govt.		State Govt.		
				No. of leases	Lease area (Hect.)	No. of leases	Lease area (Hect.)	
	Karnataka (Contd.)	Belgaum	China clay	-	-	1	7.68	
			Limestone	-	-	2	792.37	
		Bellary	Iron ore	2	2,660.85	7	1,110.33	
		Bijapur	Limestone	-	-	3	991.91	
		Chickmagalur	Iron ore	1	4,605.00	-	-	
			Copper ore	-	-	2	416.83	
		Chitradurga	Limestone	-	-	2	1,029.95	
			Gold	-	-	1	55.75	
		Gulbarga	Limestone	3	240.92	-	-	
			Asbestos	-	-	1	129.50	
		Hassan	China clay	-	-	2	311.60	
			Chromite	-	-	6	987.47	
			Copper ore	-	-	1	70.82	
			Quartz	-	-	2	18.20	
			Steatite	-	-	1	80.94	
			Vermiculite	-	-	1	26.30	
			Clay (others)	-	-	1	2.02	
		Kolar	Gold	1	5,215.39	-	-	
			Quartz	-	-	1	15.17	
		Mandya	Corundum	-	-	1	72.87	
			Kyanite	-	-	1	97.12	
			Magnesite	-	-	3	338.12	
		North Kanara	Manganese ore	-	-	7	2,911.02	
		Raichur	Gold	-	-	3	965.08	
		Shimoga	China clay	-	-	4	45.32	
			Iron ore	-	-	1	40.47	
			Manganese ore	-	-	6	1,765.67	
		Tumkur	Corundum	-	-	2	4,132.06	
			Gold	-	-	1	38.04	
		Udupi	Bauxite	-	-	1	357.55	
				Total	7	12,722.16	82	21,401.04
		12.	Kerala	Kollam	China clay	-	-	1
Sillimanite	2	169.71			1	157.64		
Palakkad	Limestone	-		-	1	245.59		
		Total	2	169.71	3	407.55		
13.	Madhya Pradesh	Balaghat	Copper ore	2	479.90	-	-	
Manganese ore			11	1,172.27	-	-		
Sand (others)			1	5.50	-	-		
Chhattarpur		Phosphorite	-	-	1	48.76		
Jabalpur		Felspar	1	8.28	-	-		
		Fireclay	1	0.82	-	-		
		Limestone	1	89.32	-	-		
Jhabua		Phosphorite	-	-	1	9.12		
Katni		Fireclay	2	38.27	-	-		
		Limestone	3	1,109.09	-	-		
Mandla		Dolomite	-	-	1	2.52		
Nimach		Limestone	2	500.45	-	-		
Panna		Diamond	2	576.51	-	-		
Rewa		Silica sand	-	-	1	23.91		
Sagar		Phosphorite	-	-	1	52.80		
Satna		Limestone	3	2,151.72	2	22.33		
Shivpuri	Diaspore	-	-	1	4.73			

(Contd.)

Table-11 (Contd.)

Sl. No.	State	District	Mineral	Central Govt.		State Govt.	
				No. of leases	Lease area (Hect.)	No. of leases	Lease area (Hect.)
	Madhya Pradesh (Contd.)	Tikamgarh	Pyrophyllite	-	-	2	13.90
			Total	29	6,132.13	10	178.07
14.	Maharashtra	Bhandara	Kyanite	-	-	9	282.43
			Manganese ore	6	401.30	-	-
			Sillimanite	-	-	3	77.86
		Chandrapur	Fluorite	-	-	1	32.70
			Sand (others)	5	625.12	-	-
		Gondia	Iron ore	-	-	1	43.82
			Kyanite	-	-	1	18.26
		Nagpur	Dolomite	-	-	2	56.40
			Manganese ore	15	455.24	-	-
			Sand (others)	2	168.92	-	-
		Ratnagiri	Silica sand	-	-	2	84.33
		Sindhudurg	Felspar	-	-	1	29.26
			Silica sand	-	-	2	138.85
		Yeotmal	Limestone	-	-	1	203.85
		Total	28	1,650.58	23	967.76	
15.	Meghalaya	Gara Hills West	Fire clay	-	-	1	221.44
			Limestone	-	-	1	384.00
			Sillimanite	5	1723.63	-	-
		Khasi Hills East	Limestone	-	-	2	394.63
			Total	5	1,723.63	4	1,000.27
16.	Orissa	Bargarh	Limestone	-	-	2	806.53
		Dhenkanal	Chromite	-	-	2	847.48
		Ganjam	Sillimanite	1	2,877.76	-	-
		Jajpur	Chromite	-	-	6	3,051.66
			Iron ore	-	-	1	1,812.99
		Kalahandi	Corundum	-	-	1	93.14
		Keonjhar	Chromite	-	-	3	1,933.64
			Iron ore	4	4,162.91	12	7,332.93
			Manganese ore	-	-	9	4,885.06
		Koraput	Bauxite	2	7,204.74	-	-
			Graphite	-	-	1	501.67
			Limestone	-	-	2	1,586.22
			Manganese ore	-	-	1	501.67
		Malkangiri	Limestone	-	-	1	1,694.13
		Mayurbhanj	China clay	-	-	1	142.70
			Shale	-	-	1	289.85
		Nawapara	Corundum	-	-	1	33.95
			Limestone	-	-	3	343.00
		Rayagada	Bauxite	-	-	1	1,388.74
Sundergarh	Bauxite	1	117.44	-	-		
	Dolomite	2	384.03	-	-		
	Iron ore	6	487.64	3	2,039.69		
	Lead & zinc ores	1	499.60	-	-		
	Quartz	2	47.93	-	-		
		Total	19	13,224.59	52	29,285.05	

(Contd.)

Table-11 (Contd.)

Sl. No.	State	District	Mineral	Central Govt.		State Govt.			
				No. of leases	Lease area (Hect.)	No. of leases	Lease area (Hect.)		
17.	Rajasthan	Ajmer	Lead & zinc ores	1	480.45	-	-		
		Alwar	Copper ore	1	914.07	-	-		
		Banswara	Dolomite	-	-	1	300.00		
			Graphite	-	-	2	382.75		
			Limestone	-	-	3	439.54		
		Barmer	Clay (others)	-	-	2	73.11		
			Gypsum	1	1,100.66	3	789.85		
			Lignite	-	-	1	2,655.70		
		Bhilwara	Lead & zinc ores	1	1,200.00	-	-		
		Bikaner	Gypsum	3	367.02	11	4,575.39		
			Lignite	1	860.00	-	-		
		Dungarpur	Fluorite	-	-	6	396.89		
			Steatite	-	-	4	237.82		
		Ganganagar	Gypsum	4	346.50	12	9,495.06		
		Hanumangarh	Gypsum	-	-	3	302.17		
		Jaisalmer	Gypsum	1	501.68	6	1,858.21		
			Limestone	-	-	2	1,998.00		
			Phosphorite	-	-	1	400.00		
			Silica sand	-	-	1	107.50		
		Jalore	Fluorite	-	-	4	1,075.00		
			Gypsum	-	-	1	300.00		
		Jhunjhunu	Copper ore	4	890.53	-	-		
		Nagaur	Gypsum	-	-	4	1,278.69		
			Limestone	1	335.30	3	4,915.44		
		Pali	Gypsum	-	-	1	161.55		
		Rajsamand	Lead & zinc ores	4	2,142.04	-	-		
			Steatite	-	-	1	93.62		
		Sikar	Pyrite	1	200.00	-	-		
		Sirohi	Fluorite	-	-	1	90.63		
			Lead & zinc ores	-	-	1	63.00		
		Udaipur	Barytes	-	-	1	400.00		
			Calcite	-	-	1	49.50		
			Dolomite	-	-	2	379.77		
			Lead & zinc ores	1	3,620.00	-	-		
			Lignite	-	-	1	1,063.35		
			Phosphorite	1	247.96	4	1,861.05		
				Total	26	13,014.73	83	35,743.59	
		18.	Sikkim	Sikkim East	Copper ore	-	-	3	84.67
				Total	-	-	3	84.67	
		19.	Tamil Nadu	Ariyalur	Limestone	-	-	5	614.67
Chengai-Anna	Quartz			-	-	1	6.58		
Cuddalore	Fireclay			-	-	2	39.44		
	Lignite			1	25,900.00	1	6.61		
Dharmपुर	Limestone			-	-	1	132.68		
Dindigul	Quartz			-	-	2	1.47		
Erode	Quartz			-	-	6	24.96		
Kanchipuram	Limeshell			-	-	1	190.00		
	Silica sand			-	-	1	4.63		
Kanyakumari	Garnet			5	258.31	-	-		
Karur	Quartz			-	-	7	19.30		
Namakkal	Quartz			-	-	3	7.92		

(Contd.)

Table-11 (Concl'd.)

Sl. No.	State	District	Mineral	Central Govt.		State Govt.	
				No. of leases	Lease area (Hect.)	No. of leases	Lease area (Hect.)
	Tamil Nadu Contd.	Perambalur	Gypsum	-	-	4	734.62
			Limestone	-	-	2	124.18
		Periyar	Quartz	-	-	2	3.59
			Ramnathapuram	Limeshell	-	-	1
		Salem	Magnesite	7	761.84	3	431.24
			Quartz	-	-	2	0.97
		Sivaganga	Graphite	-	-	2	242.46
			Gypsum	-	-	1	257.09
		Tiruchirapalli	China clay	-	-	1	12.30
			Dolomite	-	-	1	62.07
			Gypsum	-	-	1	65.00
			Limestone	-	-	1	9.95
		Tirunelveli	Garnet	-	-	1	4.36
			Gypsum	-	-	2	75.71
			Limestone	-	-	6	153.39
		Vellore	Vermiculite	-	-	1	23.71
		Viluppuram	Silica sand	-	-	1	12.15
		Virudhunagar	Limestone	-	-	5	1,558.29
			Silica sand	-	-	1	12.15
		Total	13	29,920.15	67	5,358.39	
20.	Uttar Pradesh	Allahabad	Silica sand	1	33.58	-	-
		Lalitpur	Phosphorite	-	-	1	874.00
			Pyrophyllite	-	-	3	774.20
		Sonbhadra	Limestone	-	-	4	2,703.15
		Total	1	33.58	8	4,354.35	
21.	Uttaranchal	Bageshwar	Magnesite	1	53.20	-	-
		Dehradun	Limestone	-	-	1	97.00
			Phosphorite	2	222.05	-	-
		Pithoragarh	Magnesite	1	439.00	-	-
		Total	4	714.25	1	97.00	
22.	West Bengal	Birbhum	Fireclay	1	91.09	-	-
		Burdwan	Fireclay	1	348.50	-	-
		Jalpaiguri	Dolomite	-	-	1	847.00
		Purulia	Phosphorite	-	-	1	29.13
			Quartz	-	-	1	10.12
			Sand (others)	1	209.03	-	-
			Total	3	648.62	3	886.25
	Grand Total	243	1,26,867.22	422	1,17,355.58		

3.7 YEARWISE STATUS OF EXPIRY OF MINING LEASES

Every mining lease is granted for a stipulated period and once this period expires the lessees shall have to apply for renewal to the respective State Governments as per the provisions under MCR, 1960. The period of leases varies from minimum 20 years to a maximum of 30 years. Further renewal (s) are possible for period or periods not exceeding 20 years in each case. Out of the total number of leases in the Directory (8,872), more than 1,982 leases will expire between 2003 to 2007. The yearwise break up of expiry of leases and statewise and yearwise break up of expiry of leases are given in Tables-12 and 13.

Table-12 : Yearwise Status of Expiry of Mining Leases

Year	No. of leases	Percentage	Area covered in hectares	Percentage
2003	500	4.03	26,859.24	3.01
2004	424	3.41	23,898.61	2.68
2005	425	3.42	30,732.43	3.44
2006	390	3.14	23,285.46	2.61
2007	243	1.96	15,998.54	1.79

Table -13 : Statewise and Yearwise Status of Expiry of Mining Leases
(By State)

Sl. No.	State	2003		2004		2005		2006		2007	
		No.	Lease area (Hect.)	No.	Lease area (Hect.)	No.	Lease area (Hect.)	No.	Lease area (Hect.)	No.	Lease area (Hect.)
1.	Andhra Pradesh	108	3,528.75	48	1,186.65	58	2,134.55	31	1,806.02	14	1,824.00
2.	Assam	-	-	-	-	1	33.00	6	143.68	1	35.00
3.	Bihar	2	1,024.35	1	25.90	2	61.30	2	232.43	-	-
4.	Chhattisgarh	15	1,364.37	2	11.80	14	1,273.66	24	1,064.00	9	3,336.72
5.	Delhi	-	-	-	-	-	-	-	-	-	-
6.	Goa	-	-	-	-	2	91.30	-	-	26	1,785.54
7.	Gujarat	95	1,988.85	102	833.36	60	727.83	89	1,352.10	55	873.79
8.	Haryana	13	1,315.62	5	471.60	3	559.80	2	665.01	1	626.72
9.	Himachal Pradesh	3	53.86	6	190.60	8	107.23	1	8.28	2	37.24
10.	Jammu & Kashmir	-	-	-	-	-	-	-	-	-	-
11.	Jharkhand	21	2,176.76	26	1,268.93	26	5,171.68	29	2,473.52	3	144.90
12.	Karnataka	38	4,388.65	32	1,383.26	29	2,175.98	11	404.66	12	785.20
13.	Kerala	22	73.34	22	127.84	7	241.72	5	6.72	6	10.73
14.	Madhya Pradesh	45	522.62	46	1,085.48	73	3,078.75	49	539.37	27	254.02
15.	Maharashtra	6	137.73	13	1,808.98	7	158.86	13	456.78	9	228.99
16.	Manipur	-	-	-	-	-	-	-	-	-	-
17.	Meghalaya	1	143.59	-	-	-	-	1	86.00	1	221.44
18.	Orissa	20	2,923.44	27	4,104.31	42	7,897.26	44	5,609.19	27	1,397.73
19.	Rajasthan	97	6,717.72	78	10,514.57	76	5,916.98	62	7,869.87	33	3,600.68
20.	Sikkim	-	-	-	-	-	-	-	-	-	-
21.	Tamil Nadu	1	2.01	11	744.20	8	455.64	9	197.72	12	681.12
22.	Uttaranchal	1	53.20	2	112.27	3	165.40	-	-	2	89.43
23.	Uttar Pradesh	5	397.97	-	-	2	450.15	4	78.25	-	-
24.	West Bengal	7	46.41	3	28.86	4	31.34	8	291.86	3	65.29
	Total	500	26,859.24	424	23,898.61	425	30,732.43	390	23,285.46	243	15,998.54

4. Prospecting Licences

“Prospecting Licence” means a licence granted for undertaking prospecting operations with a view to exploring/locating or proving mineral deposits on surface/sub-surface areas. The State Governments and the Union Territories are empowered to grant/renew/revoke prospecting licences (PL) under the provisions of Mineral Concession Rules, 1960.

The area restrictions for prospecting licences have been substantially liberalized by making such restrictions applicable statewide instead of the country as a whole.

4.1 STATEWISE DISTRIBUTION OF PROSPECTING LICENCES

As per information received from the State Governments/Union Territories, 247 prospecting licences were executed covering 34,610 hectares during 2001-02 as against 388 prospecting licences covering 50,700 hectares during 2000-01. The Statewise distribution of prospecting licences executed during 2000-01 and 2001-02 is given in Table-14. These prospecting licences, however, exclude reconnaissance permits executed for aerial prospecting.

The States rich in minerals, where prospecting licences so far executed during the year 2001-02 are Rajasthan (152), Andhra Pradesh (23), Maharashtra (20), Orissa (17), Uttaranchal (15), Chhattisgarh (6), Karnataka (5), Gujarat (4), Himachal Pradesh (2), Haryana, Kerala and Madhya Pradesh one each. Rajasthan alone accounted for 62% while remaining 11 States collectively shared 38% of prospecting licences executed. Areawise, Rajasthan covered 69% while the remaining 11 States accounted for just 31% (Table-14).

Table-14 Statewise Distribution of Prospecting Licences¹ Executed, 2000-01 and 2001-02

Sl. No.	State	2000-01		2001-02	
		No.	Area in Hect.s	No.	Area in Hects.
1	Andhra Pradesh	35	7,743	23	5,002
2	Bihar	1	4,310	-	-
3	Chhattisgarh	10	108	6	64
4	Goa	1	10	-	-
5	Gujarat	3	55	4	941
6	Haryana	-	-	1	413
7	Himachal Pradesh	1	21	2	875
8	Karnataka	4	1,904	5	1,459
9	Kerala	-	-	1	++
10	Madhya Pradesh	57	705	1	1
11	Maharashtra	4	54	20	1,323
12	Meghalaya	5	359	-	-
13	Orissa	28	1,236	17	602
14	Rajasthan	201	33,242	152	23,899
15	Tamil Nadu	4	4	-	-
16	Uttaranchal	-	-	15	31
17	Uttar Pradesh	34	949	-	-
	Total	388	50,700	247	34,610

Area figures rounded off. ++ Negligible.
1/ Excluding those over large areas.

4.2 MINERALWISE DISTRIBUTION OF PROSPECTING LICENCES

Mineralwise, in 2001-02, as many as 29 prospecting licences were executed for soapstone/steatite, followed by limestone (17), calcite (8), barytes and dolomite (7 each), quartz (6), diamond, fireclay and graphite (3 each), chinaclay, pyrophyllite, tin ore and white quartz (2 each), chromite, crystal quartz, dunite, gypsum, mica, quartzite, red oxide, semi-precious stones, shale, white clay and wollastonite (1 each). Other minerals in association accounted for 145 licences, (or 59%) executed during 2001-02.

The prospecting licences are executed for individual mineral or group of associated minerals, depending upon their nature of occurrences, such as iron and manganese ores; mica, felspar and quartz; copper, lead and zinc ores; dolomite and limestone and vice versa. The mineralwise distribution of prospecting licences executed during 2000-01 and 2001-02 is given in Table 15.

Table-15 : Mineralwise Distribution of Prospecting Licences Executed, 2000-01 and 2001-02

Sl. No.	Mineral	2000-01		2001-02	
		No.	Area in Hects.	No.	Area in Hects.
1	Barytes	6	635	7	568
2	Bismuth	1	423	-	-
3	Calcite	15	1,829	8	1,250
4	Chinaclay	3	26	2	112
5	Chromite	-	-	1	92
6	Clay	1	3	-	-
7	Crystal quartz	-	-	1	++
8	Diamond	-	-	3	325
9	Dolomite	36	588	7	113
10	Dunite	-	-	1	50
11	Felspar	2	61	-	-
12	Fireclay	4	17	3	23
13	Garnet	1	219	-	-
14	Graphite	7	445	3	52
15	Gypsum	5	1,900	1	375
16	Iron ore	3	50	-	-
17	Jasper	2	630	-	-
18	Laterite	3	82	-	-
19	Lead & zinc ore	1	2,416	-	-
20	Limeshell	1	24	-	-
21	Limestone	36	9,511	17	4,616
22	Magnesite	1	32	-	-
23	Mica	1	14	1	263
24	Ochre (red oxide)	1	12	1	4
25	Pyrophyllite	6	474	2	154
26	Quartz	7	898	6	176
27	Quartzite	1	31	1	6
28	Rock phosphate	3	1,000	-	-
29	Semi-precious stones	-	-	1	875
30	Shale	2	350	1	1
31	Silica sand	1	43	-	-
32	Soapstone/steatite	50	2,795	29	1,724
33	Tin ore	3	50	2	50
34	White clay	2	5	1	2
35	White quartz	1	2	2	14
36	Wollastonite	-	-	1	72
37	Minerals in association	182	26,135	145	23,693
	Total	388	50,700	247	34,610

Area figures rounded off

++ Negligible

4.3 AREAWISE DISTRIBUTION OF PROSPECTING LICENCES

Areawise analysis indicates that limestone occupied the first place with an area of 4,616 hectares, followed by soapstone/steatite (1,724 hectares), calcite (1,250 hectares), semi-precious stones (875 hectares), barytes (568 hectares), gypsum (375 hectares), diamond (325 hectares), mica (263 hectares), quartz (176 hectares), pyrophyllite (154 hectares), dolomite (113 hectares), chinaclay (112 hectares), chromite (92 hectares), wollastonite (72 hectares), graphite (52 hectares), dunite & tin ore (50 hectares each), fireclay (23 hectares), white quartz (14 hectares), quartzite (6 hectares), red oxide (4 hectares), white clay (2 hectares), and shale one hectare. The other associated minerals occupied 23,693 hectares or 68 % area under prospecting licences.

4.4 SECTORWISE DISTRIBUTION OF PROSPECTING LICENCES

Out of the 247 prospecting licences executed in 2001-02, public sector accounted for 9 licences or 3.64% compared with 12 licences or 3.10% of the total in previous year. The remaining 238 prospecting licences, 96.36 % were executed in private sector compared with 376 licences or 96.90% in the previous year. The sectorwise distribution of prospecting licences during 1999-2000 to 2001-02 is given in Table-16.

Table-16 : Distribution of Prospecting Licences in Public and Private Sectors

Sector	2000-01		2001-02	
	No.	Area in Hects.	No.	Area in Hects.
Total	388	50,700	247	34,610
Public	12	9,209	9	2,072
Private	376	41,491	238	32,538
Public %	3.10	18.16	3.64	5.99
Private %	96.90	81.84	96.36	94.01

5. Reconnaissance Permits

The provision of "Reconnaissance Permit" (RP) took effect from 20.12.1999 under Mines and Minerals (Development & Regulation), Act, 1957 and from 18.1.2000 under the rules i.e. Mineral Concession Rules, 1960 and 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 operations undertaken for preliminary prospecting of a mineral through regional, aerial, geophysical or geo-chemical surveys and geological mapping, but the permit does not include pitting, trenching, drilling (except drilling bore-holes on a grid specified from time to time by the Central Government) or subsurface excavation.

Approvals have been granted by the Central Government to 34 reconnaissance permits covering 39,838 sq. km. in 2001-02 distributed in Andhra Pradesh, Karnataka and Rajasthan for precious and high-value minerals like diamond, gold, silver, platinum group of metals and associated minerals; non-ferrous minerals like copper ore, lead & zinc ore and strategic minerals/ores like nickel, tungsten, antimony, cadmium, bismuth arsenic, cobalt, molybdenum and associated minerals.

During 2001-02, approvals for grant of reconnaissance permits have been accorded to 12 companies; viz., M/s ACC RIO TINTO Exploration Ltd., M/s AMIL Mining India Pvt. Ltd., M/s Anglo American Exploration (India) Pvt. Ltd., M/s De Beers India Prospecting Pvt. Ltd., M/s Diamond Prospecting Pvt. Ltd., M/s Geomysore Services (India) Pvt. Ltd., M/s Hindustan Zinc Ltd., M/s Lake Resources Holdings India Pvt. Ltd., M/s Metmin Finance & Holdings Pvt. Ltd., M/s National Mineral Development Corporation Ltd., M/s Pasmenco Exploration India Pvt. Ltd. and M/s Phelps Dodge Exploration India Pvt. Ltd.

5.1 MINERALWISE DISTRIBUTION OF RECONNAISSANCE PERMITS

During 2001-02, four companies were granted 13 reconnaissance permits for copper, lead, zinc, gold, silver, bismuth, cadmium and associated minerals, covering 16,804 sq. km. (42 %) compared with 12 reconnaissance permits covering 11,672 sq. km. (24%) in the previous year. Only one reconnaissance permit has been granted for diamond, covering 481 sq. km. (1%) compared with 2,300 sq. km. (5%) in the previous year. Thirteen reconnaissance permits were granted exclusively for diamond and associated minerals, covering 19,118 sq. km (48%) compared with 19 reconnaissance permits with 24,349 sq. km. (49%) in the previous year and one reconnaissance permit for gold, covering 702 sq. km. (2%) against none in the previous year. Six reconnaissance

permits have been granted for gold and associated minerals, covering 2,733 sq. km. (7%) against 7 reconnaissance permits covering 10,928 sq. km. (22%) in the previous year. The mineralwise, reconnaissance permits granted/executed during 2000-01 and 2001-02 are given in Table-17.

Table – 17 : Mineralwise Distribution of Reconnaissance Permits, 2000-01 and 2001-02

Mineral	2000-01		2001-02	
	No.	Area in sq. km.	No.	Area in sq. km.
Copper, lead, zinc, gold, silver, bismuth, cadmium and associated minerals	12	11,672	13	16,804
Diamond	1	2,300	1	481
Diamond and associated minerals	19	24,349	13	19,118
Gold	-	-	1	702
Gold and associated minerals	7	10,928	6	2,733
Total	39	49,249	34	39,838

5.2 STATEWISE DISTRIBUTION OF RECONNAISSANCE PERMITS

During 2001-02, thirty-four reconnaissance permits were approved/granted/executed covering about 39,838 sq. km. in Andhra Pradesh, Karnataka and Rajasthan for high-value minerals like gold, silver, copper, lead-zinc, nickel, cadmium, bismuth, diamond and associated minerals. Rajasthan occupied first place with 14 reconnaissance permits covering about 17,617 sq. km. (44%), followed by Karnataka with 11 reconnaissance permits covering an area of 14,932 sq. km. (38 %) and Andhra Pradesh 9 reconnaissance permits covering an area of 7,289 sq. km. (18 %). The State-wise distribution of reconnaissance permits is given in Table-18.

Table-18 : Statewise Distribution of Reconnaissance Permits, 2000-01 and 2001-02

State	2000-01		2001-02	
	No.	Area in sq. km.	No.	Area in sq. km.
Andhra Pradesh	20	30,777	9	7,289
Karnataka	15	15,941	11	14,932
Rajasthan	4	2,531	14	17,617
Total	39	49,249	34	39,838

5.3 AREAWISE DISTRIBUTION OF RECONNAISSANCE PERMITS

Areawise, M/s Pasmenco Exploration India Pvt. Ltd. held maximum area of about 7,300 sq. km. under 3 reconnaissance permits, followed by M/s AMIL Mining India Pvt. Ltd. 5,494 sq. km. under 5 reconnaissance permits, M/s Diamond Prospecting Pvt. Ltd. about 5,409 sq. km. under 3 reconnaissance permits, M/s Lake Resources Holdings India Pvt. Ltd. 4,500 sq. km. under 3 reconnaissance permits, and M/s ACC RIO TINTO Exploration Ltd. 4,060 sq. km. under 3 reconnaissance permits. These five companies shared about 67 % of the area and the remaining 7 companies covered less than 4,000 sq. km. each or about 33% of the area. The companywise distribution of reconnaissance permits during 2000-01 and 2001-02 is given in Table-19.

Table-19: Areawise/Companywise Distribution of Reconnaissance Permits during 2000-01 and 2001-02

Sl. No.	Company	2000-01		2001-02	
		No.	Area in sq. km.	No.	Area in sq. km.
1.	Adamas India Pvt. Ltd., Advanced Business Center, 83, Makers Chambers –VI, Nariman Point, Mumbai -400 021.	5	7,784	-	-
2.	ACC RIO TINTO Exploration Ltd., RCD, ACC-CRS Complex, Lal Bahadur Shastri (LBS) Marg, Thane (West)- 400 604.	2	3,800	3	4,060
3.	AMIL Mining India Pvt. Ltd., D-19, Press Enclave, Saket, New Delhi-110 017.	2	1,509	5	5,494
4.	Anglo American Exploration (India) Pvt. Ltd., 214, South Ex-Plaza-1, 389, Masjid Moth, South Ext. Part-II, New Delhi-110 049.	-	-	1	461
5.	CRA Exploration (India) Pvt. Ltd., 12 th Floor, Gopal Das Bhavan, 28, Barakhamba Road, New Delhi-110 001.	4	9,327	-	-
6.	De Beers India Prospecting Pvt. Ltd., Advanced Business Centre, 83, Maker Chambers-VI, Nariman Point, Mumbai- 400 021.	6	9,111	2	3,971

(Contd.)

Table-19 (Concl.)

Sl. No.	Company	2000-01		2001-02	
		No.	Area in sq. km.	No.	Area in sq. km.
7.	Diamond Prospecting Pvt. Ltd.,	-	-	3	5,409
8.	Geomysore Services (India) Pvt. Ltd., 120/45, 3 rd Block, 6 th Cross, 6 th "A" Main, Thyagaraja Nagar, Bangalore-560 028.	9	3,981	4	975
9.	Hindustan Zinc Ltd., Yashad Bhavan, Udaipur-313 001.	-	-	3	1,484
10.	Hutti Gold Mines Co. Ltd., 1/5 Ulsoor Road, Bangalore -560 042.	1	1,135	-	-
11.	Lake Resources Holdings India Pvt. Ltd., Himalaya House, 23, Kasturba Gandhi Marg, New Delhi- 110 001.	-	-	3	4,500
12.	Metmin Finance & Holdings Pvt. Ltd., 161/162, Mittal Court, 'A' Wing, Nariman Point, Mumbai-400 021.	3	1,431	3	1,808
13.	National Mineral Development Corporation Ltd.,10-3-311/A, Castle Hills, Masab Tank, Hyderabad -500 028.	1	2,300	1	702
14.	Pasminco Exploration India Pvt. Ltd., A/320, Defence Colony, New Delhi -110 024.	1	592	3	7,300
15.	Phelps Dodge Exploration India Pvt. Ltd., B-1 Defence Colony, New Delhi 110 024.	4	7,046	3	3,674
16.	Ramgad Minerals & Mining (P) Ltd., Nehru Co-operative Colony, Hospet-583 203.	1	1,233	-	-
	Total	39	49,249	34	39,838

The details of reconnaissance permits granted/executed during 2001-02 are furnished in Annexure-II.

ANNEXURE-I

**Statewise/Districtwise/Mineralwise Distribution
of Leases and Lease Area
(As on 31/03/2002)**

(i) ANDHRA PRADESH

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Adilabad	China clay	16	170.82
		Laterite	1	2.84
		Limestone	12	2,685.28
		Manganese ore	9	326.75
		Total	38	3,185.70
2.	Anantapur	Barytes	1	6.96
		China clay	4	33.20
		Corundum	2	16.36
		Dolomite	45	632.54
		Felspar	2	8.25
		Gold	1	168.42
		Iron ore	4	244.51
		Laterite	1	38.86
		Limestone	24	1,146.49
		Ochre	2	18.00
		Pyrophyllite	2	69.68
		Quartz	18	421.51
		Shale	1	3.16
		Steatite	36	508.35
		Total	143	3,316.29
		3.	Chittoor	China clay
Felspar	1			3.78
Gold	2			265.66
Pyrophyllite	2			8.08
Quartz	11			115.18
Steatite	2			15.20
Total	19			422.07
4.	Cuddapah	Asbestos	9	607.44
		Barytes	86	1,260.29
		China clay	14	618.66
		Clay (others)	3	183.32
		Dolomite	6	82.07
		Felspar	14	281.22
		Iron ore	1	18.62
		Laterite	1	80.94
		Limestone	20	1,320.56
		Ochre	5	17.81
		Pyrophyllite	1	60.70
		Quartz	11	186.49

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
	Cuddapah (Contd.)	Shale	2	19.71
		Silica sand	1	1.87
		Steatite	3	57.46
		Total	177	4,797.16
5.	Godavari East	China clay	10	16.80
		Fire clay	23	85.51
		Graphite	3	18.53
		Laterite	16	113.43
		Total	52	234.27
6.	Godavari West	Ball clay	20	254.01
		China clay	7	186.00
		Clay (others)	2	31.86
		Total	29	471.87
7.	Guntur	China clay	1	8.13
		Lead & zinc ores	1	200.00
		Limekankar	1	3.80
		Limestone	24	3,907.04
		Quartz	4	32.01
		Slate	1	40.47
		Total	32	4,191.45
8.	Karimnagar	Dolomite	3	38.19
		Limestone	1	560.24
		Sand (others)	7	1,626.90
		Silica sand	1	10.00
		Total	12	2,235.33
9.	Khammam	Barytes	4	297.91
		Corundum	4	19.57
		Dolomite	6	423.32
		Felspar	1	1.50
		Garnet	6	71.91
		Graphite	3	76.51
		Iron ore	5	629.68
		Limestone	2	32.23
		Mica	2	29.83
		Quartz	11	39.41
		Sand (others)	3	10.68
		Steatite	1	0.81
		Total	48	1,633.36
10.	Krishna	Iron ore	4	19.77
		Limekankar	1	6.77
		Limestone	18	2,397.58
		Quartz	2	2.82
		Total	25	2,426.94

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
11.	Kurnool	Barytes	7	234.61
		Calcite	2	33.68
		China clay	2	15.42
		Dolomite	16	182.00
		Felspar	1	16.87
		Iron ore	10	66.26
		Laterite	8	28.55
		Limestone	64	2,747.25
		Ochre	6	69.94
		Quartz	16	212.94
		Quartzite	4	38.55
		Shale	7	33.92
		Silica sand	14	205.44
		Steatite	62	360.81
		Total	219	4,246.24
12.	Mehboobnagar	Felspar	6	26.59
		Quartz	67	387.25
		Total	73	413.84
13.	Medak	Amethyst	1	1.31
		Laterite	6	45.93
		Quartz	22	224.83
		Total	29	272.07
14.	Nalgonda	Limestone	34	4,869.03
		Quartz	17	175.49
		Total	51	5,044.52
15.	Nellore	Barytes	3	44.87
		Felspar	3	78.73
		Garnet	1	39.68
		Iron ore	2	274.00
		Laterite	8	59.66
		Limeshell	3	383.73
		Mica	96	4,184.37
		Quartz	55	839.45
		Silica sand	25	563.52
		Vermiculite	6	95.28
		Total	202	6,563.29
16.	Nizamabad	Laterite	1	8.00
		Total	1	8.00

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
17.	Prakasam (Ongole)	Barytes	4	165.75
		Garnet	4	4.49
		Iron ore	1	266.33
		Manganese ore	1	6.84
		Quartz	27	581.47
		Silica sand	18	130.49
		Slate	7	234.97
		Total	62	1,390.64
18.	Rangareddi	Amethyst	2	10.79
		China clay	2	6.47
		Fire clay	1	4.05
		Laterite	9	90.75
		Limestone	5	1,145.27
		Quartz	23	109.72
		Shale	1	133.07
		Total	43	1,500.12
19.	Srikakulam	Quartz	1	6.07
		Quartzite	1	7.12
		Total	2	13.19
20.	Visakhapatnam	Apatite	1	1,040.07
		Calcite	4	117.96
		China clay	3	17.40
		Laterite	5	50.43
		Limeshell	1	8.63
		Mica	11	391.59
		Ochre	1	5.47
		Phosphorite	1	2.83
		Quartz	9	189.76
		Total	36	1,824.14
21.	Vizianagaram	Limekankar	12	90.36
		Manganese ore	42	862.21
		Moulding sand	1	31.16
		Quartz	11	119.75
		Quartzite	6	92.65
		Sand (others)	1	0.80
		Total	73	1,196.93
22.	Warangal	Dolomite	3	19.58
		Laterite	13	97.58
		Sand (others)	3	70.16
		Total	19	187.32

(Contd.)

Annexure-I (Contd.)

(ii) ASSAM

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Kamrup	Quartz	1	4.03
		Total	1	4.03
2.	Karbi Anglong	Limestone	5	419.68
		Total	5	419.68
3.	North Cachar Hills	Limestone	10	863.50
		Total	10	863.50

(iii) BIHAR

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Bhagalpur	Fire clay	1	22.84
		Steatite	3	53.42
		Total	4	76.26
2.	Jahanabad	China clay	1	15.16
		Fire clay	1	1.65
		Total	2	16.81
3.	Lakhisarai	Quartz	1	23.00
		Total	1	23.00
4.	Monghyr	Fluorite	1	9.96
		Quartz	2	61.30
		Quartzite	11	84.12
		Slate	1	9.57
		Steatite	1	9.67
		Total	16	174.62
5.	Nawada	Mica	4	2,670.53
		Total	4	2,670.53
6.	Rohtas	Limestone	23	1813.19
		Pyrite	1	647.50
		Total	24	2,460.91

(Contd.)

Annexure-I (Contd.)

(iv) CHHATTISGARH

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Bastar	Iron ore	1	2,028.29
		Limestone	9	45.14
		Quartzite	1	16.00
		Total	11	2,089.93
2.	Bilaspur	Bauxite	1	34.04
		Dolomite	22	338.80
		Limestone	6	4,200.25
		Total	29	4,573.09
3.	Dantewara	China clay	1	6.30
		Iron ore	9	7,569.31
		Tin	1	7.73
		Total	11	7,583.34
4.	Durg	China clay	1	1.78
		Dolomite	25	104.86
		Iron ore	4	2,732.62
		Limestone	44	1,391.66
		Moulding sand	2	29.02
		Quartzite	4	334.41
		Silica sand	2	16.16
		Total	82	4,610.51
5.	Janjgir-Champa	Dolomite	5	935.41
		Fire clay	1	1.51
		Limestone	4	923.52
		Total	10	1,860.44
6.	Kanker	Bauxite	1	3.20
		Iron ore	3	1,884.66
		Limestone	1	0.63
		Steatite	3	5.00
		Total	8	1,893.49
7.	Kawardha	Bauxite	1	626.11
		Dolomite	1	12.14
		Steatite	1	16.18
		Total	3	654.43
8.	Korba	Fire clay	1	0.45
		Total	1	0.45
9.	Mahasamund	Fire clay	3	15.78
		Quartzite	1	1.13
		Total	4	16.19
10.	Raigarh	China clay	1	62.52
		Dolomite	1	2.33
		Limestone	13	99.14
		Quartz	1	2.92
		Quartzite	2	54.83
		Total	18	221.74

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
11.	Raipur	Dolomite	2	7.87
		Limestone	36	3,199.67
		Total	38	3,207.54
12.	Rajnandgaon	China clay	10	53.67
		Fire clay	1	3.20
		Moulding sand	1	14.93
		Ochre	1	10.12
		Quartz	3	15.02
		Quartzite	4	22.76
		Total	20	119.70
		13.	Surguja	Bauxite
Total	9			4,271.00

(v) DELHI

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Delhi	China clay	4	486.37
		Total	4	486.37

(vi) GOA

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	North Goa	Iron ore	94	7,145.38
		Manganese ore	44	3,298.11
		Total	138	10,443.89
2.	South Goa	Bauxite	4	1,791.09
		Iron ore	128	9,879.77
		Manganese ore	125	8,179.83
		Steatite	1	30.05
		Total	258	19,880.74

(Contd.)

Annexure-I (Contd.)

(vii) GUJARAT

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Amreli	Bauxite	2	147.99
		Calcite	4	23.50
		China clay	1	1.30
		Clay (others)	1	88.54
		Limestone	15	1,978.96
		Total	23	2,240.29
2.	Banaskantha	Calcite	1	3.76
		Copper ore	1	1,402.00
		Limestone	13	808.29
		Vermiculite	1	1.84
		Total	16	2,215.89
3.	Bharuch	Agate	9	390.19
		Calcite	4	6.48
		Dolomite	1	2.00
		Lignite	2	327.87
		Limestone	1	31.47
		Silica sand	25	270.04
		Total	42	1,028.05
4.	Bhavnagar	Chalk	1	12.00
		Clay (others)	3	181.10
		Dolomite	3	52.99
		Lignite	1	1,355.00
		Moulding sand	1	2.80
		Total	9	1,603.89
5.	Dahod	Felspar	1	4.05
		Limestone	4	145.14
		Quartz	12	173.93
		Total	17	323.12
6.	Jamnagar	Bauxite	130	3,495.48
		Calcareous sand	15	269.64
		Calcite	3	68.69
		Chalk	7	63.43
		Limestone	49	2,215.65
		Moulding sand	2	9.29
		Ochre	1	20.23
		Total	207	6,142.41
7.	Junagarh	Bauxite	1	6.05
		Calcite	1	21.04
		Chalk	4	36.26
		Limestone	97	2,111.61
		Total	103	2,174.96
8.	Kheda	Bauxite	22	127.68
		Limestone	4	264.96
		Total	26	392.64

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
9.	Kachchh	Ball clay	2	5.00
		Bauxite	8	644.53
		Calcite	3	47.66
		China clay	45	381.97
		Clay (others)	77	1,207.09
		Gypsum	10	157.23
		Lignite	4	2,208.16
		Limestone	7	398.18
		Ochre	1	2.00
		Silica sand	24	332.87
		Total	181	5,384.69
10.	Mehesana	China clay	11	214.40
		Fire clay	1	32.37
		Limestone	2	25.19
		Total	14	271.96
11.	Navasari	Bauxite	1	8.09
		Fire clay	6	28.40
		Total	7	36.49
12.	Panchmahals	Dolomite	1	40.32
		Fire clay	1	40.46
		Limestone	1	42.36
		Manganese ore	3	15.18
		Quartz	36	322.54
		Quartzite	1	19.30
		Silica sand	3	78.31
		Steatite	2	7.06
Total	48	565.83		
13.	Patan	Ball clay	1	5.49
		China clay	2	72.44
		Clay (others)	6	143.82
		Ochre	3	22.96
		Total	12	244.71
14.	Porbandar	Bauxite	9	228.75
		Chalk	123	475.42
		China clay	1	3.97
		Limestone	190	3,653.49
		Total	323	4,361.63
15.	Rajkot	Chalk	24	84.23
		Fire clay	54	269.53
		Gypsum	1	1.81
		Limestone	2	37.13
		Perlite	1	144.65
		Silica sand	2	44.47
		Total	84	581.82

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
16.	Sabarkantha	Bauxite	17	119.59
		Calcite	3	6.58
		China clay	14	1,025.51
		Felspar	2	13.54
		Fire clay	14	31.35
		Limestone	2	2.53
		Quartz	1	4.04
		Silica sand	12	89.94
		Steatite	5	18.79
		Total	70	1,312.27
17.	Surat	Silica sand	1	6.52
		Total	1	6.52
18.	Surendranagar	Clay (others)	2	7.78
		Fire clay	99	517.25
		Moulding sand	7	17.70
		Silica sand	53	391.54
		Total	161	934.27
19.	Vadodara	Dolomite	97	1,191.13
		Fluorite	2	757.90
		Graphite	2	5.39
		Limestone	1	1.37
		Vermiculite	1	23.20
		Total	103	1,978.99

(viii) HARYANA

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Ambala	Limestone	2	340.56
		Total	2	340.56
2.	Bhiwani	Limekankar	4	705.35
		Total	4	705.35
3.	Faridabad	China clay	5	457.93
		Silica sand	32	5,679.41
		Total	37	6,137.34
4.	Gurgaon	China clay	37	3,906.40
		Quartz	4	97.93
		Quartzite	2	47.78
		Silica sand	25	2,678.68
		Total	68	6,730.79

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
5.	Mahendragarh	Calcite	1	40.56
		Dolomite	2	252.15
		Felspar	2	152.56
		Iron ore	1	86.20
		Limestone	9	251.95
		Mica	1	499.05
		Quartz	8	368.02
		Slate	1	81.35
		Total	25	1,731.84
6.	Rewari	Quartzite	2	20.45
		Slate	3	270.37
		Total	5	290.82

(ix) HIMACHAL PRADESH

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Bilaspur	Laterite	1	13.69
		Limestone	8	345.94
		Total	9	359.63
2.	Kannaur	Gypsum	2	609.09
		Total	2	609.09
3.	Mandi	Rock salt	3	53.86
		Total	3	53.86
4.	Simla	Limestone	1	11.34
		Total	1	11.34
5.	Sirmur	Barytes	3	62.39
		Limestone	32	792.47
		Total	35	854.86
6.	Solan	Limestone	2	1,079.21
		Total	2	1,079.21

(Contd.)

Annexure-I (Contd.)

(x) JAMMU & KASHMIR

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Anantnag	China clay	1	4.06
		Limestone	5	263.87
		Total	6	267.93
2.	Baramula	Gypsum	1	2.71
		Total	1	2.71
3.	Doda	Gypsum	3	62.68
		Total	3	62.68
4.	Jammu	Limestone	1	4.67
		Total	1	4.67
5.	Leh	Opal	1	200.00
		Total	1	200.00
6.	Poonch	Limestone	1	15.80
		Total	1	15.80
7.	Pulwama	Limestone	1	100.00
		Total	1	100.00
8.	Srinagar	Limestone	1	144.25
		Total	1	144.25
9.	Udhampur	Bauxite	1	272.30
		China clay	2	61.00
		Magnesite	2	140.80
		Total	5	474.10

(xi) JHARKHAND

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Bokaro	Sand (others)	1	7.51
		Total	1	7.51
2.	Deogarh	Felspar	3	5.94
		Total	3	5.94
3.	Dhanbad	Fire clay	6	410.16
		Limestone	1	17.40
		Quartz	1	5.18
		Sand (others)	21	1,981.01
		Total	29	2,413.75
4.	Dumka	Felspar	2	7.47
		Quartz	1	0.88
		Total	3	8.35
5.	Garwah	Dolomite	1	202.35
		Limestone	3	1,178.92
		Total	4	1,381.27

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
6.	Giridih	Felspar	3	194.96
		Mica	6	384.17
		Steatite	5	84.89
		Total	14	664.02
7.	Godda	Quartz	1	7.28
		Total	1	7.28
8.	Gumla	Bauxite	23	2,560.61
		Total	23	2,560.61
9.	Hazaribagh	Felspar	1	3.13
		Fire clay	7	721.83
		Limestone	5	242.73
		Mica	2	209.95
		Pyrophyllite	1	22.50
		Total	16	1,200.14
10.	Kodarma	Mica	50	4,022.06
		Quartz	4	80.13
		Total	54	4,102.35
11.	Latehar	Bauxite	2	478.35
		China clay	1	8.25
		Fire clay	25	1,346.09
		Graphite	1	17.81
		Iron ore	2	16.08
		Limestone	1	99.50
		Quartz	13	156.90
		Total	45	2,122.98
12.	Lohardaga	Bauxite	21	1,145.84
		Total	21	1,145.84
13.	Palamau	Dolomite	1	18.45
		Felspar	2	1.60
		Graphite	22	1,432.55
		Iron ore	10	211.68
		Limestone	4	1,135.97
		Steatite	2	7.29
		Total	41	2,807.54
14.	Ranchi	China clay	3	431.49
		Limestone	6	1,335.49
		Total	9	1,766.98
15.	Sahebganj	China clay	12	215.48
		Total	12	215.48
16.	Singhbhum (East)	Copper ore	3	6,417.69
		Kyanite	1	2.43
		Total	4	6,420.12

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
17.	Singhbhum (West)	China clay	17	878.76
		Chromite	1	16.59
		Iron ore	41	13,577.76
		Kyanite	6	2,632.36
		Limestone	25	1,042.30
		Manganese ore	1	21.25
		Ochre	1	5.62
		Quartz	7	57.16
		Quartzite	2	26.53
		Steatite	3	93.50
		Total	104	18,351.83

(xii) KARNATAKA

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Bagalkot	Dolomite	7	744.59
		Limestone	22	3,794.33
		Total	29	4,538.92
2.	Bangalore	China clay	1	48.56
		Corundum	4	44.14
		Felspar	5	160.24
		Fire clay	1	2.02
		Quartz	3	52.60
		Silica sand	1	41.83
		Total	15	349.39
		3.	Belgaum	Bauxite
Calcite	1			17.00
China clay	7			35.23
Clay (others)	2			24.68
Dolomite	4			79.33
Fire clay	1			2.16
Iron ore	1			20.23
Limestone	11			2,006.17
Manganese ore	1			2.33
Moulding sand	8			110.14
Quartz	2			5.67
Quartzite	1			4.05
Sand (others)	1			8.09
Silica sand	2			3.25
Total	43			2,377.56

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
4.	Bellary	Iron ore	67	7,665.59
		Manganese ore	4	489.29
		Moulding sand	7	69.88
		Ochre	2	532.61
		Quartz	14	269.03
		Steatite	2	4.89
		Total	96	9,031.29
5.	Bidar	Ochre	1	21.85
		Total	1	21.85
6.	Bijapur	Limestone	16	1,440.75
		Total	16	1,440.75
7.	Chickmagalur	Dunite	1	4.45
		Iron ore	3	4,716.49
		Manganese ore	1	80.94
		Quartz	1	19.65
		Total	6	4,821.53
8.	Chitradurga	Barytes	1	17.00
		Copper ore	2	416.83
		Iron ore	5	390.96
		Kyanite	2	174.81
		Limestone	15	2,579.63
		Manganese ore	15	1,137.23
		Moulding sand	8	202.91
		Quartz	4	104.83
		Steatite	1	8.09
		Total	53	5,032.29
9.	Coorg	Corundum	1	0.80
		Total	1	0.80
10.	Dawangere	Quartz	2	10.12
		Total	2	10.12
11.	Dharwar	China clay	1	4.10
		Clay (others)	1	20.23
		Moulding sand	23	529.46
		Total	25	553.79
12.	Gulbarga	Gold	1	55.75
		Limestone	10	2,114.36
		Moulding sand	7	250.98
		Quartz	2	39.61
		Total	20	2,460.70
13.	Hassan	Asbestos	1	129.50
		China clay	2	311.60
		Chromite	6	987.47
		Copper ore	1	70.82
		Quartz	3	68.69
		Steatite	2	169.78
		Vermiculite	1	26.30
Total	16	1,764.16		

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
14.	Kolar	China clay	4	300.51
		Clay (others)	1	2.02
		Gold	1	5,215.39
		Quartz	2	3.58
		Total	8	5,521.39
15.	Koppal	Quartz	6	47.17
		Total	6	47.17
16.	Mandya	Corundum	1	1.64
		Felsite	1	1.61
		Moulding sand	1	20.23
		Quartz	3	54.02
		Total	6	77.50
17.	Mysore	Corundum	4	158.92
		Felsite	2	18.46
		Graphite	4	235.04
		Kyanite	3	169.96
		Limestone	2	146.44
		Magnesite	7	406.47
		Moulding sand	1	152.57
		Quartz	2	13.04
		Steatite	1	12.14
		Total	26	1,313.04
18.	North Kanara	Limeshell	18	1,270.25
		Limestone	2	136.62
		Manganese ore	11	3,876.83
		Moulding sand	2	144.96
		Quartz	1	1.82
		Silica sand	11	259.06
		Total	45	5,689.54
19.	Raichur	Gold	3	965.08
		Quartz	5	104.77
		Total	8	1,069.85
20.	Shimoga	China clay	4	45.32
		Iron ore	2	47.76
		Kyanite	1	2.42
		Limestone	1	40.12
		Manganese ore	6	1,765.67
		Quartz	3	22.70
		Total	17	1,923.99
21.	South Kanara	Limeshell	4	407.53
		Silica sand	17	991.55
		Total	21	1,399.08

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
22.	Tumkur	China clay	2	138.27
		Corundum	2	4,152.06
		Fire clay	2	388.49
		Gold	1	38.04
		Iron ore	9	751.17
		Limestone	8	260.49
		Manganese ore	10	701.75
		Moulding sand	1	16.19
		Ochre	1	6.07
		Quartz	9	63.33
		Steatite	3	51.37
		Total	48	6,567.23
		23.	Udupi	Bauxite
Ochre	1			56.65
Silica sand	3			386.85
Total	5			801.05

(xiii) KERALA

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Alapuzha	Limeshell	5	936.24
		Silica sand	56	52.22
		Total	61	988.46
2.	Kannur	China clay	2	2.90
		Total	2	2.90
3.	Kasargod	China clay	3	14.50
		Total	3	14.50
4.	Kollam	Bauxite	3	1.37
		China clay	6	9.27
		Sillimanite	3	327.35
		Total	12	337.99
5.	Kottayam	Limeshell	5	850.14
		Total	5	850.14
6.	Palakkad	Limestone	1	245.69
		Total	1	245.69
7.	Thiruvananthapuram	China clay	29	70.84
		Silica sand	1	0.61
		Total	30	71.45
8.	Wynad	Quartz	8	6.00
		Total	8	6.00

(Contd.)

Annexure-I (Contd.)

(xiv) MADHYA PRADESH

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Badwani	Calcite	22	81.61
		Total	22	81.61
2.	Balaghat	Bauxite	1	40.46
		Copper ore	2	479.90
		Dolomite	20	140.68
		Fire clay	1	2.41
		Limestone	7	73.98
		Manganese ore	35	1,535.57
		Ochre	1	16.18
		Quartz	2	16.39
		Sand (others)	1	5.50
		Silica sand	1	16.18
		Total	71	2,327.25
		3.	Betul	China clay
Total	1			54.58
4.	Chhatarpur	China clay	2	20.12
		Diaspore	7	32.00
		Dolomite	1	10.00
		Limestone	2	4.91
		Ochre	2	19.55
		Phosphorite	1	48.76
		Pyrophyllite	18	83.99
		Quartz	1	14.24
		Quartzite	1	6.10
		Steatite	2	10.36
		Total	37	250.03
		5.	Chhindwara	Dolomite
Fire clay	1			9.45
Quartz	1			3.00
Total	11			91.48
6.	Damoh	Laterite	1	21.25
		Limestone	9	3,174.00
		Sand (others)	1	2.02
		Total	11	3,197.27
7.	Datia	China clay	1	0.93
		Lead & zinc ores	1	11.00
		Quartz	2	14.09
		Total	4	26.02
8.	Dewas	Barytes	2	5.79
		Laterite	1	10.00
		Silica sand	1	4.05
		Total	4	19.84

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
9.	Dhar	Limestone	36	332.73
		Ochre	1	6.31
		Total	37	339.04
10.	Gwalior	China clay	2	111.28
		Iron ore	3	60.69
		Ochre	2	32.36
		Quartz	1	6.58
		Total	8	210.91
11.	Hoshangabad	Limestone	1	1.16
		Total	1	1.16
12.	Jabalpur	Bauxite	9	63.24
		Dolomite	12	56.05
		Felspar	1	8.28
		Fire clay	22	149.52
		Graphite	1	16.18
		Iron ore	6	90.02
		Laterite	2	10.91
		Limestone	20	1,190.73
		Ochre	3	14.67
		Quartz	2	13.98
		Steatite	3	43.24
		Total	81	1,656.92
		13.	Jhabua	Calcite
Dolomite	18			133.01
Limestone	2			10.24
Manganese ore	3			34.35
Phosphorite	1			9.12
Total	25			194.81
14.	Katni	Bauxite	19	281.04
		Dolomite	19	108.04
		Fire clay	22	222.86
		Iron ore	1	12.59
		Laterite	4	60.70
		Limestone	176	7,474.18
		Ochre	3	7.62
		Silica sand	1	0.60
		Steatite	6	43.35
		Total	251	8,210.98
		15.	Khargon (West Nimar)	Calcite
China clay	2			1.02
Limestone	4			8.17
Silica sand	3			1.90
Total	14			26.50

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
16.	Mandla	Dolomite	37	102.35
		Total	37	102.35
17.	Mandsaur	Laterite	25	199.38
		Shale	16	197.49
		Slate	2	67.63
		Total	43	464.50
18.	Morena	Limestone	1	18.00
		Total	1	18.00
19.	Narsinhapur	Asbestos	1	7.16
		Dolomite	3	10.07
		Fire clay	3	38.92
		Limestone	2	35.06
		Steatite	11	44.69
		Total	20	135.90
20.	Nimach	Laterite	6	72.82
		Limestone	7	997.32
		Total	13	1,070.14
21.	Panna	Diamond	2	576.51
		Fire clay	2	7.77
		Limestone	1	48.39
		Ochre	1	8.09
		Total	6	640.76
22.	Rewa	Bauxite	12	137.92
		China clay	1	16.24
		Limestone	27	1,521.32
		Ochre	6	75.83
		Silica sand	4	68.37
		Total	50	1,819.68
23.	Sagar	Dolomite	2	20.36
		Limestone	2	55.40
		Phosphorite	1	52.80
		Pyrophyllite	2	3.21
		Steatite	1	1.40
		Total	8	133.17
24.	Satna	Bauxite	22	184.71
		China clay	15	222.28
		Clay (others)	2	1.33
		Dolomite	1	16.18
		Laterite	8	112.38
		Limestone	189	8,383.89
		Ochre	70	967.20
		Sand (others)	1	0.82
		Total	308	9,888.79

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
25.	Sehore	Limestone	3	27.13
		Silica sand	1	11.53
		Total	4	38.66
26.	Seoni	Dolomite	9	14.82
		Total	9	14.82
27.	Shahdol	Bauxite	1	500.27
		China clay	3	20.84
		Fire clay	2	167.85
		Ochre	5	53.09
		Total	11	742.05
28.	Shivpuri	Diaspore	3	42.73
		Pyrophyllite	1	12.00
		Total	4	54.73
29.	Shyampur	Limestone	10	544.86
		Ochre	1	10.59
		Total	11	555.45
30.	Sidhi	Bauxite	3	11.11
		Limestone	5	522.40
		Steatite	1	15.61
		Total	9	549.12
31.	Tikamgarh	Asbestos	1	30.75
		Barytes	1	2.02
		China clay	1	5.00
		Diaspore	4	155.11
		Pyrophyllite	25	231.73
		Quartz	2	16.00
		Total	34	440.61
32.	Umaria	China clay	1	11.24
		Fire clay	6	42.51
		Ochre	2	14.72
		Total	9	68.47

(Contd.)

Annexure-I (Contd.)

(xv) MAHARASHTRA

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Amravati	China clay	2	16.71
		Total	2	16.71
2.	Bhandara	Chromite	1	16.22
		Kyanite	11	300.61
		Manganese ore	7	413.63
		Pyrophyllite	1	3.96
		Quartz	4	33.32
		Sand (others)	1	3.23
		Sillimanite	3	77.86
		Total	28	848.83
3.	Chandrapur	Barytes	1	53.40
		China clay	3	36.41
		Dolomite	1	21.39
		Fluorite	1	32.70
		Iron ore	3	33.29
		Laterite	1	41.58
		Limestone	20	4,812.27
		Sand (others)	7	719.70
		Total	37	5,750.74
4.	Gadchiroli	Iron ore	1	25.91
		Total	1	25.91
5.	Gondia	Iron ore	1	43.82
		Kyanite	1	18.26
		Total	2	62.08
6.	Kolhapur	Bauxite	13	2,894.94
		Iron ore	1	143.95
		Total	14	3,038.89
7.	Nagpur	China clay	3	32.14
		Dolomite	12	177.74
		Manganese ore	24	568.60
		Ochre	5	79.65
		Quartz	1	1.07
		Sand (others)	3	199.55
		Total	48	1,058.75
8.	Raigad	Bauxite	1	144.34
		Total	1	144.34
9.	Ratnagiri	Bauxite	1	24.91
		Moulding sand	1	47.02
		Silica sand	10	623.16
		Total	12	695.16

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
10.	Sindhudurg	China clay	1	13.18
		Chromite	2	264.76
		Felspar	1	29.26
		Fire clay	1	5.14
		Iron ore	25	1,349.52
		Manganese ore	1	191.85
		Mica	3	106.79
		Quartzite	1	12.09
		Silica sand	33	1,439.34
		Total	68	3,411.93
11.	Yeotmal	Dolomite	3	100.74
		Limestone	26	2,250.41
		Total	29	2,351.15

(xvi) MANIPUR

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Chandel	Chromite	1	223.93
		Total	1	223.93
2.	Ukhrul	Chromite	1	386.24
		Total	1	386.24

(xvii) MEGHALAYA

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Garo Hills West	Fire clay	1	221.44
		Limestone	2	470.00
		Total	3	691.44
2.	Jaintia Hills	Limestone	2	15.28
		Total	2	15.28
3.	Khasi Hills East	China clay	2	9.77
		Limestone	7	1,189.77
		Total	9	1,199.54
4.	Khasi Hills West	Limestone	1	60.00
		Sillimanite	7	2,200.63
		Total	8	2,260.63

(Contd.)

Annexure-I (Contd.)

(xviii) ORISSA

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Angul	Fire clay	1	119.51
		Quartz	1	8.13
		Sand (others)	4	435.18
		Total	6	562.82
2.	Bargarh	China clay	4	122.22
		Fire clay	1	74.27
		Graphite	22	685.40
		Limestone	3	903.81
		Quartz	1	15.21
		Total	31	1,800.91
3.	Baudh	Graphite	1	28.96
		Quartz	4	58.48
		Total	5	87.42
4.	Bolangir	Graphite	79	2,056.55
		Lead & zinc ores	1	5.26
		Limestone	1	27.65
		Manganese ore	1	7.27
		Quartz	8	294.86
		Total	90	2,391.59
5.	Cuttack	Fire clay	13	1,563.80
		Silica sand	1	69.81
		Total	14	1,633.61
6.	Dhenkanal	Chromite	3	960.79
		Graphite	3	185.70
		Total	6	1,146.49
7.	Ganjam	Lime kankar	1	48.14
		Sillimanite	1	2,877.76
		Steatite	1	3.64
		Total	3	2,929.54
8.	Jajpur	Chromite	14	4,181.44
		Iron ore	1	1,812.99
		Quartz	3	103.81
		Quartzite	1	2.31
		Total	19	6,100.55
9.	Jharsuguda	Fire clay	6	564.33
		Ochre	1	102.27
		Quartz	1	83.65
		Quartzite	5	494.84
		Sand (others)	1	109.20
		Total	14	1,354.29

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
10.	Kalahandi	Corundum	2	93.14
		Graphite	12	220.54
		Iolite	4	24.38
		Quartz	43	372.36
		Total	61	710.42
11.	Keonjhar	Asbestos	1	49.22
		Chromite	6	2,198.98
		Iron ore	85	25,244.69
		Magnesite	1	40.46
		Manganese ore	24	8,366.67
		Pyrophyllite	11	630.76
		Quartz	4	127.80
		Total	132	36,658.58
12.	Khurda	Fire clay	4	180.97
		Total	4	180.97
13.	Koraput	Bauxite	2	4,647.28
		China clay	1	38.50
		Graphite	2	537.16
		Limestone	2	1,586.22
		Manganese ore	1	501.67
		Mica	2	30.23
		Ochre	1	95.50
		Quartz	2	22.76
		Quartzite	1	25.26
		Total	14	7,484.68
14.	Malkangiri	Limestone	1	1,694.13
		Quartz	1	2.48
		Tin	2	57.61
		Total	4	1,754.22
15.	Mayurbhanj	Asbestos	1	117.35
		China clay	12	1,241.00
		Fire clay	1	22.49
		Graphite	1	24.91
		Iron ore	11	3,304.39
		Kyanite	1	55.49
		Quartz	1	1.19
		Quartzite	8	34.44
		Shale	1	289.85
		Steatite	5	423.41
		Total	42	5,514.52
16.	Nawapara	Corundum	1	33.95
		Graphite	1	20.23
		Limestone	4	410.57
		Total	6	464.57
17.	Nayagarh	Graphite	1	16.64
		Total	1	16.64

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
18.	Raygada	Bauxite	1	1,388.74
		Graphite	7	281.82
		Quartzite	1	24.89
		Total	12	1,831.42
19.	Sambalpur	China clay	1	40.47
		Fire clay	2	41.81
		Quartz	5	157.97
		Quartzite	1	12.14
		Steatite	1	4.05
		Total	10	256.44
20.	Sundergarh	Bauxite	4	369.43
		Dolomite	12	1,734.73
		Fire clay	12	2,241.88
		Iron ore	43	5,341.36
		Lead & zinc ores	1	499.60
		Limestone	36	6,174.40
		Manganese ore	22	4,858.96
		Quartz	15	1,245.45
		Quartzite	1	24.16
		Sand (others)	2	9.90
		Steatite	2	266.40
		Total	150	22,766.27

(xix) RAJASTHAN

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Ajmer	Asbestos	10	502.06
		Felspar	108	4,575.62
		Garnet	3	15.00
		Lead & zinc ores	1	480.45
		Limestone	1	8.57
		Magnesite	1	5.00
		Mica	64	2,366.13
		Quartz	19	711.01
		Steatite	3	192.36
		Vermiculite	1	42.22
		Total	211	8,898.42
2.	Alwar	Barytes	4	198.73
		China clay	1	4.73
		Copper ore	1	914.07
		Felspar	1	32.37
		Fire clay	3	257.37

(Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
	Alwar (contd.)	Ochre	2	100.70
		Pyrophyllite	1	48.75
		Silica sand	1	178.00
		Steatite	9	567.97
		Total	23	2,302.69
3.	Banswara	Dolomite	2	358.00
		Graphite	2	382.75
		Limestone	4	505.36
		Manganese ore	1	80.00
		Steatite	4	1,118.61
		Total	13	2,444.72
		4.	Barmer	China clay
Clay (others)	2			73.11
Gypsum	6			2,030.51
Lignite	1			2,655.70
Silica sand	8			749.84
Total	19			5,519.16
5.	Bharatpur			Fire clay
		Ochre	1	5.00
		Silica sand	20	1,781.33
		Steatite	1	69.88
		Total	24	1,898.96
6.	Bhilwara	Asbestos	10	45.00
		China clay	22	1,345.25
		Felspar	21	662.25
		Garnet	1	5.00
		Lead & zinc ores	1	1,200.00
		Mica	57	2,803.38
		Quartz	3	81.16
		Steatite	32	2,910.42
		Total	147	9,052.46
		7.	Bikaner	Ball clay
China clay	46			3,922.40
Fire clay	20			2,573.78
Gypsum	15			4,947.41
Lignite	1			860.00
Total	93			13,409.53
8.	Bundi			China clay
		Ochre	2	99.37
		Silica sand	2	358.00
		Total	5	505.37
		9.	Chittorgarh	China clay
Fire clay	1			94.40
Laterite	1			32.45
Limestone	7			3,692.46
Ochre	17			1,902.09

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
	Chittorgarh (contd.)	Shale	2	10.00
		Total	58	7,302.83
10.	Dausa	Dolomite	1	32.37
		Iron ore	2	125.68
		Quartz	3	191.28
		Silica sand	8	323.83
		Steatite	3	104.68
		Total	17	777.84
11.	Dungarpur	Felspar	1	100.00
		Fluorite	11	599.99
		Steatite	64	4,510.41
		Total	76	5,210.40
12.	Ganganagar	Gypsum	16	9,841.56
		Total	16	9,841.56
13.	Hanumangarh	Gypsum	3	302.17
		Total	3	302.17
14.	Jaipur	Asbestos	1	66.50
		Calcite	1	296.41
		China clay	9	1,365.97
		Dolomite	3	363.61
		Epidote	1	46.68
		Felspar	6	288.08
		Iron ore	7	760.93
		Limestone	3	1,334.90
		Mica	3	101.17
		Ochre	1	5.00
		Quartz	11	586.14
		Silica sand	26	1,775.71
		Steatite	15	1,366.46
		Total	87	8,357.56
15.	Jaisalmer	Ball clay	1	150.00
		Dolomite	1	32.37
		Gypsum	7	2,359.89
		Limestone	2	1,998.00
		Ochre	1	32.37
		Phosphorite	1	400.00
		Silica sand	9	492.50
		Total	22	5,465.13
16.	Jalore	Fluorite	4	1,075.00
		Gypsum	1	300.00
		Total	5	1,375.00
17.	Jhalawar	Sand (others)	1	481.81
		Total	1	481.81

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
18.	Jhunjhunu	Calcite	2	55.00
		Copper ore	4	803.88
		Dolomite	2	66.05
		Fire clay	3	106.37
		Iron ore	5	292.54
		Ochre	1	33.00
		Pyrophyllite	2	53.49
		Quartz	3	212.17
		Steatite	4	400.06
		Total	26	2,022.56
19.	Jodhpur	Jasper	22	1,217.86
		Total	22	1,217.86
20.	Karauli	Steatite	1	5.00
		Total	1	5.00
21.	Kota	Limestone	4	613.10
		Total	4	613.10
22.	Nagaur	Gypsum	5	3,269.09
		Limestone	13	6,504.80
		Total	18	9,773.89
23.	Pali	Asbestos	2	176.89
		Ball clay	2	390.15
		Calcite	1	32.37
		China clay	5	557.58
		Felspar	4	126.65
		Gypsum	1	161.55
		Limestone	6	1,091.43
		Magnesite	2	10.00
		Quartz	19	1,448.68
		Steatite	2	161.87
		Total	44	4,157.17
		24.	Rajsamand	Asbestos
China clay	1			35.00
Felspar	1			5.00
Lead & zinc ores	4			2,142.04
Mica	2			10.00
Pyrophyllite	3			149.52
Quartz	9			230.10
Steatite	33			2,999.91
Total	71			6,965.78
25.	Sawai Madhopur	China clay	4	171.62
		Felspar	1	34.40
		Fire clay	1	16.59
		Quartz	2	267.65
		Silica sand	25	1,300.43
		Steatite	7	660.63
		Total	40	2,451.32

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
26.	Sikar	Barytes	1	47.51
		Calcite	7	268.21
		Dolomite	3	387.93
		Felspar	4	377.20
		Garnet	1	32.54
		Iron ore	3	239.94
		Limestone	4	1,925.63
		Mica	1	39.00
		Pyrite	1	200.00
		Quartz	15	605.13
		Silica sand	1	36.00
		Total	41	4,159.09
27.	Sirohi	Calcite	7	470.91
		Fluorite	1	90.63
		Lead & zinc ores	1	63.00
		Limestone	4	1,529.72
		Wollastonite	2	95.69
		Total	15	2,249.95
28.	Tonk	Felspar	3	70.37
		Garnet	4	290.99
		Mica	5	238.37
		Quartz	9	232.84
		Silica sand	6	568.25
		Steatite	1	48.00
		Total	28	1,448.82
29.	Udaipur	Asbestos	14	1,099.02
		Barytes	1	400.00
		Calcite	5	161.50
		China clay	1	313.33
		Dolomite	2	379.77
		Emerald	1	129.50
		Lead & zinc ores	1	3,620.00
		Lignite	1	1,063.35
		Limestone	1	704.90
		Ochre	2	5.00
		Phosphorite	5	2,004.18
		Pyrophyllite	9	481.18
		Quartz	1	32.37
		Serpentine	1	2.00
		Steatite	131	9,700.51
		Wollastonite	1	101.80
Total	177	20,198.41		

(Contd.)

Annexure-I (Contd.)

(xx) SIKKIM

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Sikkim East	Copper ore	3	84.67
		Total	3	84.67
2.	Sikkim West	Dolomite	1	1.33
		Total	1	1.33

(xxi) TAMIL NADU

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Ariyalur	Fire clay	2	2.74
		Limestone	13	983.93
		Total	15	986.67
2.	Chengai-Anna	Quartz	1	6.58
		Total	1	6.58
3.	Coimbatore	China clay	1	324.12
		Gypsum	7	44.30
		Limestone	10	573.81
		Quartz	3	11.48
		Steatite	2	5.01
		Total	23	958.72
4.	Cuddalore	China clay	2	9.33
		Fire clay	10	86.78
		Lignite	1	25,900.00
		Limeshell	1	33.28
		Total	14	26,029.39
5.	Dharmapuri	Limestone	1	132.68
		Quartz	4	75.09
		Total	5	207.77
6.	Dindigul	Bauxite	1	388.66
		Limestone	17	876.59
		Quartz	10	494.04
		Total	28	1,759.29
7.	Erode	Limestone	1	1.82
		Quartz	24	49.85
		Total	25	51.67
8.	Kanchipuram	Limeshell	2	316.29
		Silica sand	1	4.63
		Total	3	320.92

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
9.	Kanyakumari	Garnet	5	258.31
		Total	5	258.31
10.	Karur	Limestone	10	31.88
		Quartz	20	36.38
		Total	30	68.26
11.	Madurai	Barytes	1	6.00
		Graphite	1	14.51
		Limestone	7	56.86
		Quartz	3	165.35
		Total	12	242.72
12.	Nagapattinan	Silica sand	5	7.88
		Total	5	7.88
13.	Namakkal	Bauxite	5	255.71
		Felspar	1	3.64
		Limestone	29	178.99
		Magnesite	2	599.20
		Quartz	6	11.42
		Steatite	3	39.44
		Total	46	1,088.40
14.	Perambalur	Fire clay	8	154.99
		Gypsum	8	1156.02
		Limestone	8	150.65
		Total	24	1,461.66
15.	Periyar	Quartz	15	11.88
		Total	15	11.88
16.	Ramnathapuram	Limeshell	1	539.05
		Limestone	4	279.16
		Total	5	818.21
17.	Salem	Bauxite	1	190.91
		Felspar	3	153.34
		Limestone	62	694.69
		Magnesite	11	1,195.65
		Quartz	22	75.90
		Steatite	5	35.90
		Total	104	2,346.39
18.	Sivaganga	Graphite	4	250.59
		Gypsum	1	257.09
		Total	5	507.68
19.	Theni (Madurai)	Limestone	3	6.77
		Total	3	6.77
20.	Thiruvallur	China clay	2	6.81
		Quartz	1	28.35
		Silica sand	1	3.28
		Total	4	38.44

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
21.	Tiruchirapalli	China clay	2	167.67
		Dolomite	1	62.07
		Felspar	1	17.86
		Garnet	1	19.06
		Gypsum	7	611.87
		Limestone	21	321.84
		Quartz	1	0.61
		Steatite	1	4.90
		Total	35	1,205.88
22.	Tirunelveli	Garnet	28	169.53
		Gypsum	2	75.71
		Limestone	42	896.49
		Vermiculite	1	1.00
		Total	73	1,142.73
23	Tuticorin	Garnet	1	16.93
		Limestone	4	106.13
		Total	5	123.06
24.	Vellore	Quartz	2	40.88
		Steatite	1	28.26
		Vermiculite	2	47.42
		Total	5	116.56
25.	Villupuram	China clay	2	41.10
		Fire clay	1	3.23
		Silica sand	1	12.15
		Total	4	56.48
26.	Virudhunagar	Limestone	13	1,945.21
		Total	13	1,945.21

(xxii) UTTARANCHAL

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Almoda	Steatite	2	6.20
		Total	2	6.20
2.	Bageshwar	Magnesite	1	53.20
		Steatite	26	500.51
		Total	27	553.71
3.	Dehradun	Limestone	2	97.75
		Phosphorite	2	222.05
		Total	4	319.80
4.	Nainital	Gypsum	1	30.75
		Limestone	1	161.87
		Total	2	192.62

(Contd.)

Annexure-I (Contd.)

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
5.	Pithoragarh	Magnesite	4	1,359.79
		Steatite	10	83.98
		Total	14	1,443.77
6.	Tehri Garhwal	Dolomite	2	29.13
		Gypsum	2	186.15
		Limestone	3	25.77
		Total	7	241.05

(xxiii) UTTAR PRADESH

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Allahabad	Silica sand	59	1623.39
		Total	59	1,623.39
2.	Banda	Ochre	1	39.80
		Silica sand	13	397.32
		Total	14	437.12
3.	Hamirpur	Diaspore	2	28.22
		Pyrophyllite	6	20.54
		Total	8	48.76
4.	Jhansi	Diaspore	4	107.53
		Total	4	107.53
5.	Lalitpur	Diaspore	3	70.84
		Phosphorite	1	874.00
		Pyrophyllite	5	785.74
		Total	9	1,730.58
6.	Mirzapur	Silica sand	1	87.41
		Total	1	87.41
7.	Sonbhadra	Limestone	4	2,706.15
		Total	4	2,706.15

(Contd.)

(xxiv) WEST BENGAL

Sl. No.	District	Mineral	No. of Leases	Lease area (hect.)
1.	Bankura	China clay	15	154.89
		Felspar	2	4.53
		Fire clay	3	36.71
		Quartz	3	9.09
		Quartzite	1	4.70
		Total	24	209.92
2.	Birbhum	China clay	23	343.89
		Fire clay	2	137.09
		Total	25	480.98
3.	Burdwan	Fire clay	6	9,882.58
		Moulding sand	3	120.29
		Total	9	10,002.87
4.	Jalpaiguri	Dolomite	2	927.00
		Limestone	1	129.50
		Total	3	1,056.50
5.	Midnapur	Ochre	1	5.76
		Total	1	5.76
6.	Purulia	China clay	2	332.29
		Fire clay	1	1.19
		Limestone	2	13.22
		Moulding sand	3	20.80
		Phosphorite	1	29.13
		Pyrophyllite	1	2.19
		Quartz	4	16.49
		Sand (others)	2	253.12
		Total	16	668.43
	Grand Total	8,882	6,24,125.48	

ANNEXURE -II

**Reconnaissance Permits Approved by Ministry of Mines and Granted/Executed by
Various State Governments, 2001-02**

Sl. No	Name and address of the permit holder	Location		Mineral (s)	Area in sq. km.	Date of approval/ grant/ permission	Date of execution	Period in years
		State	District (s)					
1.	AMIL Mining India Pvt. Ltd., D-19, Press Enclave, Saket, New Delhi-110 017.	Andhra Pradesh	Anantapur	Diamond, gold and associated minerals	65.00	i) 06.06.2001 ii) 27.07.2001	25.10.2001	3
2.	AMIL Mining India Pvt. Ltd., D-19, Press Enclave, Saket, New Delhi-110 017.	Andhra Pradesh	Anantapur and Cuddapah	Diamond, base metals and associated minerals	1,427.00	i) 21.01.2002 ii) 06.02.2002	01.05.2002	3
3.	AMIL Mining India Pvt. Ltd., D-19, Press Enclave, Saket, New Delhi-110 017.	Andhra Pradesh	Anantapur and Cuddapah	Diamond, base metals and associated minerals	1,764.00	i) 21.01.2002 ii) 06.02.2002	01.05.2002	3
4.	AMIL Mining India Pvt. Ltd., D-19, Press Enclave, Saket, New Delhi-110 017.	Andhra Pradesh	Anantapur and Cuddapah	Diamond, base metals, precious minerals and associated minerals	1,757.00	i) 11.02.2002 ii) 26.02.2002	01.05.2002	3
5.	AMIL Mining India Pvt. Ltd., D-19, Press Enclave, Saket, New Delhi-110 017.	Andhra Pradesh	Anantapur	Diamond	481.00	i) NA ii) 05.03.2001	07.04.2001	3
6.	ACC RIO TINTO Exploration Ltd., RCD, ACC-CRS Complex, Lal Bahadur Shastri (LBS) Marg, Thane (West) - 400 604.	Karnataka	Bellary, Koppal and Raichur	Diamond, gold and associated minerals	2,087.31	i) 15.10.2001 ii) 14.12.2001	14.03.2002	3
7.	ACC RIO TINTO Exploration Ltd., RCD, ACC-CRS Complex, Lal Bahadur Shastri (LBS) Marg, Thane (West)- 400 604.	Karnataka	Bellary and Raichur	Diamond, gold and associated minerals	1,206.25	i) 19.12.2001 ii) 02.03.2002	07.05.2002	3

(Contd.)

Annexure-II(Contd.)

Sl. No.	Name and address of the permit holder	Location		Mineral (s)	Area in sq. km.	Date of approval/ grant/ permission	Date of execution	Period in years
		State	District (s)					
8.	ACC RIO TINTO Exploration Ltd., RCD, ACC-CRS Complex, Lal Bahadur Shastri (LBS) Marg, Thane (West)- 400 604.	Karnataka	Raichur	Diamond, gold and associated minerals	766.00	i) 19.12.2001 ii) 02.03.2002	07.05.2002	3
9.	Anglo American Exploration (India) Pvt. Ltd., 214, South Ex-Plaza-1, 389, Masjid Moth, South Ext. Part-II, New Delhi - 110 049.	Rajasthan	Bhilwara	Lead, zinc, copper, gold and associated minerals	460.75	i) 28.02.2002 ii) 09.04.2002	08.07.2002	3
10.	De Beers India Survey Pvt. Ltd., Advance Business Centre, 83, Maker Chamber VI, Nariman Point, Mumbai 400 021.	Karnataka	Chitradurga, Hassan and Tumkur	Diamond and associated minerals	1,981.82	i) 15.10.2001	-	3
11.	De Beers India Survey Pvt. Ltd., Advance Business Centre, 83, Maker Chamber VI, Nariman Point, Mumbai 400 021.	Karnataka	Hassan, Mandya and Tumkur	Diamond and associated minerals	1,989.69	i) 15.10.2001	-	3
12.	Diamond Prospecting Pvt. Ltd.	Karnataka	Chitradurga, Davangere and Shimoga	Diamond and associated minerals	1,733.44	i) 15.10.2001	-	3
13.	Diamond Prospecting Pvt. Ltd.	Karnataka	Bellary, Chitradurga and Davangere	Diamond and associated minerals	1,819.50	i) 15.10.2001	-	3
14.	Diamond Prospecting Pvt. Ltd.	Karnataka	Belgaum, Dharwad and Gadag	Diamond and associated minerals	1,856.00	i) 15.10.2001	-	3

(Contd.)

Annexure-II(Contd.)

Sl. No.	Name and address of the permit holder	Location		Mineral (s)	Area in sq. km.	Date of approval/ grant/ permission	Date of execution	Period in years
		State	District (s)					
15.	Geomysore Services (India) Pvt. Ltd., 120/45, 3rd Block, 6th Cross, 6th 'A' Main, Thyagaraja Nagar, Bangalore-560 028.	Andhra Pradesh	Chittoor	Gold, copper, lead, zinc, silver, nickel, antimony, tungsten, bismuth, arsenic, cobalt, molybdenum, platinum group of metals and diamond	105.00	i) 30.01.2002 ii) 18.02.2002	04.04.2002	3
16.	Geomysore Services (India) Pvt. Ltd., 120/45, 3rd Block, 6th Cross, 6th 'A' Main, Thyagaraja Nagar, Bangalore-560 028.	Andhra Pradesh	Palachuchru Block, Chittoor	Gold, silver, copper, lead, zinc, nickel, tungsten, antimony, bismuth, arsenic, cobalt, molybdenum and platinum group of metals	80.00	i) 19.12.2001 ii) 08.01.2002	02.03.2002	3
17.	Geomysore Services (India) Pvt. Ltd., 120/45, 3rd Block, 6th Cross, 6th 'A' Main, Thyagaraja Nagar, Bangalore-560 028.	Karnataka	Dharwad and Uttar Kannada	Diamond, gold and associated minerals	664.88	i) 26.09.2001 ii) 28.12.2001	22.03.2002	3
18.	Geomysore Services (India) Pvt. Ltd., 120/45, 3rd Block, 6th Cross, 6th 'A' Main, Thyagaraja Nagar, Bangalore-560 028.	Karnataka	Kolar	Gold and associated minerals	125.00	i) 08.02.2002 ii) 19.09.2002	13.12.2002	3
19.	Hindustan Zinc Ltd., Yashad Bhavan, Udaipur-313 001.	Rajasthan	Ajmer	Copper, lead, zinc, gold and associated minerals	471.00	i) 20.04.2001 ii) 13.06.2001	23.08.2001	3
20.	Hindustan Zinc Ltd., Yashad Bhavan, Udaipur-313-001.	Rajasthan	Ajmer and Bhilwara	Copper, lead, zinc, gold and associated minerals	880.79	i) 11.03.2002 ii) 19.04.2002	26.08.2002	3

(Contd.)

Annexure-II(Contd.)

Sl. No.	Name and address of the permit holder	Location		Mineral (s)	Area in sq. km.	Date of approval/ grant/ permission	Date of execution	Period in years
		State	District (s)					
1.	Hindustan Zinc Ltd., Yashad Bhavan, Udaipur-313 001.	Rajasthan	Bhilwara	Copper, lead, zinc, gold and associated minerals	132.40	i) 28.02.2002 ii) 02.11.2002	-	3
2.	Lake Resources Holdings India Pvt. Ltd., Himalaya House, 23, Kasturba Gandhi Marg, New Delhi-110 001.	Rajasthan	Ajmer	Copper, lead, zinc, cadmium, silver, gold and associated minerals	1,413.00	i) 19.11.2001 ii) 20.12.2001	-	3
23	Lake Resources Holdings India Pvt. Ltd., Himalaya House, 23, Kasturba Gandhi Marg, New Delhi-110 001.	Rajasthan	Ajmer and Tonk	Copper, lead, zinc, gold and associated minerals	774.59	i) 27.04.2001 ii) 23.06.2001	-	3
24.	Lake Resources Holdings India Pvt. Ltd., Himalaya House, 23, Kasturba Gandhi Marg, New Delhi-110 001.	Rajasthan	Bhilwara	Copper, lead, zinc, gold and associated minerals	2,312.60	i) 12.04.2001 ii) 19.05.2001	-	3
25.	Metmin Finance & Holdings Pvt. Ltd., 161/162, Mittal Court, 'A' Wing, Nariman Point, Mumbai-400 021.	Rajasthan	Jhunjhunu	Gold, copper, lead, zinc, nickel, silver and associated minerals	150.00	i) 20.08.2001 ii) 29.09.2001	20.11.2001	3
26.	Metmin Finance & Holdings Pvt. Ltd., 161/162, Mittal Court, 'A' Wing, Nariman Point, Mumbai-400 021.	Rajasthan	Nagaur and Sikar	Copper, lead, zinc, nickel, gold and associated minerals	714.69	i) 27.03.2002 ii) 04.05.2002	-	3
27.	Metmin Finance & Holdings Pvt. Ltd., 161/162, Mittal Court, 'A' Wing, Nariman Point, Mumbai-400 021.	Rajasthan	Sirohi	Gold, copper and associated minerals	942.87	i) 10.04.2001 ii) 20.12.2001	28.12.2001	3

(Contd.)

Annexure-III (Contd.)

Sl. No.	Name and address of the permit holder	Location		Mineral (s)	Area in sq. km.	Date of approval/ grant/ permission	Date of execution	Period in years
		State	District (s)					
28.	National Mineral Development Corpn. Ltd., 10-3-311/A, Casile Hills, Masab Tank, Hyderabad-500 028.	Karnataka	Chitradurga	Gold	702.00	i) 26.09.2001 ii) 20.12.2001	-	3
29.	Pasminco Exploration Pvt. Ltd., A/320, Defence Colony, New Delhi-110 024.	Rajasthan	Alwar and Bharatpur	Copper, lead, zinc, cadmium, silver, gold and associated minerals	2,801.39	i) 15.10.2001	-	3
30.	Pasminco Exploration Pvt. Ltd., A/320, Defence Colony, New Delhi-110 024.	Rajasthan	Bharatpur, Jaipur and Karauli	Copper, lead, zinc, cadmium, silver, gold and associated minerals	3,168.63	i) 15.10.2001 ii) 01.12.2001	-	3
31.	Pasminco Exploration Pvt. Ltd., A/320, Defence Colony, New Delhi-110 024.	Rajasthan	Nagaur and Sikar	Gold, copper and associated minerals	1,330.00	i) 09.05.2001 ii) 23.06.2001	04.10.2001	3
32.	Pheips Dodge Exploration India Pvt. Ltd. B-1, Defence Colony, New Delhi-110 024.	Andhra Pradesh	Kurnool	Copper, lead, zinc, gold, silver, barytes, diamond and associated minerals	327.00	i) 31.12.2001 ii) 21.01.2002	-	3
33.	Pheips Dodge Exploration India Pvt. Ltd., B-1, Defence Colony, New Delhi-110 024.	Andhra Pradesh	Prakasam	Copper, lead, zinc, gold, silver, barytes, diamond and associated minerals	1,283.00	i) 18/24.07.2001 ii) 23.08.2001	-	3
34.	Pheips Dodge Exploration India Pvt. Ltd., B-1, Defence Colony, New Delhi-110 024.	Rajasthan	Alwar, Bharatpur and Sawai Madhopur	Copper, lead, zinc, gold, silver and associated minerals	2,064.07	i) 21.06.2001 ii) 18.08.2001	-	3

Note : i) Approved by Central Government.
ii) Grant by State Government.

