



A. ENVIRONMENT CLEARANCE

■ As of March 2009, there were 9,400 mining leases (MLs) in India covering an area of about half a million hectare (ha). Private sector has 70 per cent of the total area under MLs while the public sector has 30 per cent of the area under MLs in the country.

■ Over the last five years or in the 11th five year plan (FYP) period (till August 2011), 361 mines (including projects that applied for capacity expansion) were given environment clearance (EC) by the Ministry of Environment and Forests (MoEF) (*see Table 1: Mining and environment clearance during 11th FYP*). A hundred and eighty six of these projects are greenfield, rest are expansion. Rajasthan (79) and Odisha (68) have the maximum number of projects that have been given EC during 11th FYP.

Table 1: Mining and environment clearance during 11th FYP

State	Number of mines
Andhra Pradesh	27
Chhattisgarh	13
Goa	35
Gujarat	31
Haryana	1
Himachal Pradesh	2
Jammu & Kashmir	1
Jharkhand	17
Karnataka	29
Madhya Pradesh	32
Maharashtra	10
Meghalaya	2
Odisha	68
Rajasthan	79
Tamil Nadu	3
Uttarakhand	11
Total	361

■ The ML area of these 361 projects together is about 113,420 ha (*see Table 2: State-wise mine lease area granted environment clearance during 11th FYP*). Rajasthan and Odisha, together account for more than 50 per cent of the total ML area granted EC during the 11th FYP.

■ The top five districts where maximum ML area has been granted together account for 35 per cent of the total ML area (*see Table 3: Top 5 mining districts*). Twenty seven mines with a ML area of 13,218 ha were granted EC in Keonjhar district of Odisha. Next in line is Nagaur of Rajasthan with an ML area of 7,565 ha.

Table 2: State-wise mine lease area granted environment clearance during 11th FYP

State	ML area (in ha)	Major minerals given environment clearance
Rajasthan	34134.53	limestone, copper, lead, zinc
Odisha	27624.84	iron, manganese, chromite, bauxite
Gujarat	11359.22	limestone, bauxite
Chhattisgarh	10343.50	iron, limestone
Madhya Pradesh	6326.19	limestone, manganese
Andhra Pradesh	5219.02	limestone, iron
Karnataka	4329.35	iron, manganese, gold
Uttarakhand	3561.62	minor minerals, aggregates
Jharkhand	3556.69	bauxite, iron, aggregates, minor minerals
Goa	3257.82	minor minerals, aggregates, iron, manganese
Haryana	1348.61	minor minerals (sand)
Maharashtra	1279.83	iron
Meghalaya	430.12	limestone, uranium
Himachal Pradesh	404.90	limestone
Tamil Nadu	199.41	limestone
Jammu & Kashmir	48.00	limestone
India	120053.88	

Table 3: Top 5 mining districts

State	District	ML area (in ha)
Odisha	Keonjhar	13217.72
Rajasthan	Nagaur	7564.83
Gujarat	Kutch	7078.65
Odisha	Sundargarh	5838.14
Rajasthan	Udaipur	4997.33
Total		38696.65

B. IRON ORE

■ There were 316 iron mines in India during 2008-2009 with a capacity of 215 MTPA. India produced 213 million tonnes of iron ore in 2010-11 and 100 million tonnes of this was exported.

■ During the 11th FYP, 113 iron mines (including projects that applied for capacity expansion) were given EC by MoEF (see Table 4: State-wise iron ore mines granted environment clearance during 11th FYP). The ML area granted EC is about 32,500 ha with a capacity of 162 MTPA. Goa (43) and Odisha (32) account for more than 60 per cent of the total iron mining projects granted EC during the 11th FYP. Odisha (89 MTPA; 17,116 ha) also accounts for half of the total iron ore mining capacity granted EC during 11th FYP.

■ The iron ore capacity granted EC during the 11th FYP period (till August, 2011), i.e. 162 MTPA, is 75 per cent of the existing capacity of iron ore mining in the country. Most of this will be for exports as well.

Table 4: State-wise iron ore mines granted environment clearance during 11th FYP

State	Number of mines	Capacity (in MTPA)	ML area (in ha)
Andhra Pradesh	4	5.64	826.04
Chhattisgarh	4	26.25	6601.28
Goa	32	12.50	2398.50
Jharkhand	9	8.99	2451.00
Karnataka	15	18.74	2403.43
Madhya Pradesh	1	0.04	17.01
Maharashtra	4	1.30	648.94
Odisha	43	88.81	17115.87
Rajasthan	1	0.04	24.60
Total	113	162.32	32486.67

C. LIMESTONE

■ There were 574 limestone mines present in India during 2008-2009 with a capacity of 204 MTPA. India produced 240 million tonnes of limestone in 2010-11.

■ During the 11th FYP, 101 limestone mines (including projects that applied for capacity expansion) were given EC by MoEF (*see Table 5: State-wise limestone mines granted environment clearance during 11th FYP*). The capacity of limestone granted EC was 137 MTPA with a ML area of 34,400 ha. Gujarat has the maximum cleared limestone capacity (23 MTPA) followed by Rajasthan (21 MTPA). The latter also has the maximum ML area granted EC, over 15,000 ha, followed by the former (7,200 ha).

Table 5: State-wise limestone mines granted environment clearance during 11th FYP

State	Number of mines	Capacity (in MTPA)	ML area (in ha)
Andhra Pradesh	10	20.05	2986.32
Chhattisgarh	4	6.06	1062.29
Gujarat	18	23.17	7169.55
Himachal Pradesh	2	3.07	404.90
Jammu & Kashmir	1	0.44	48.00
Jharkhand	1	0.04	12.33
Karnataka	4	1.66	588.05
Madhya Pradesh	19	12.07	4975.04
Meghalaya	1	0.44	139.67
Odisha	6	4.54	1711.56
Rajasthan	33	21.31	15141.24
Tamil Nadu	2	1.07	121.91
Total	101	93.91	34360.84

■ The capacity granted EC during the 11th FYP period, 94 MTPA, is half of the total capacity existing in the country at present.

D. BAUXITE

- There were 189 bauxite mines present in India during 2008-2009 with a capacity of about 16 MTPA. India produced about 13 million tonnes of bauxite in 2010-11.
- During the 11th FYP, 29 bauxite mines (including projects that applied for capacity expansion) were given EC by MoEF with a capacity of 21 MTPA and covering a ML area of 11,500 ha (see Table 6: State-wise bauxite mines granted environment clearance during 11th FYP). Odisha with five mines and production of over 12 MTPA accounts for 59 per cent of the total production capacity of bauxite granted EC during the 11th FYP.

Table 6: State-wise bauxite mines granted environment clearance during 11th FYP

State	Number of mines	Capacity (in MTPA)	ML area (in ha)
Andhra Pradesh	3	2.50	702.00
Chhattisgarh	3	1.60	2484.05
Goa	1	0.90	826.16
Gujarat	7	2.30	1229.87
Jharkhand	4	0.56	284.72
Karnataka	2	0.04	178.06
Maharashtra	3	0.59	525.06
Odisha	5	12.07	5160.13
Rajasthan	1	0.003	123.20
India	29	20.56	11513.24

- The bauxite capacity granted clearance during the 11th FYP period (till August 2011) is 1.3 times the existing capacity in the country.