



### A. ENVIRONMENT CLEARANCE

■ The installed capacity of cement in India in 2011-12 is estimated at 331 million tonnes per annum (MTPA) and production 248 million tonnes (MT). (see Table 1: Capacity and production of cement).

**Table 1: Capacity and production of cement**

XI Plan	Capacity (MTPA)	Production (MT)
2007-2008	209.2	174.31
2008-2009	230.61	187.61
2009-2010	276.77	201.1
2010-2011	323	228.3
2011-2012	331	248

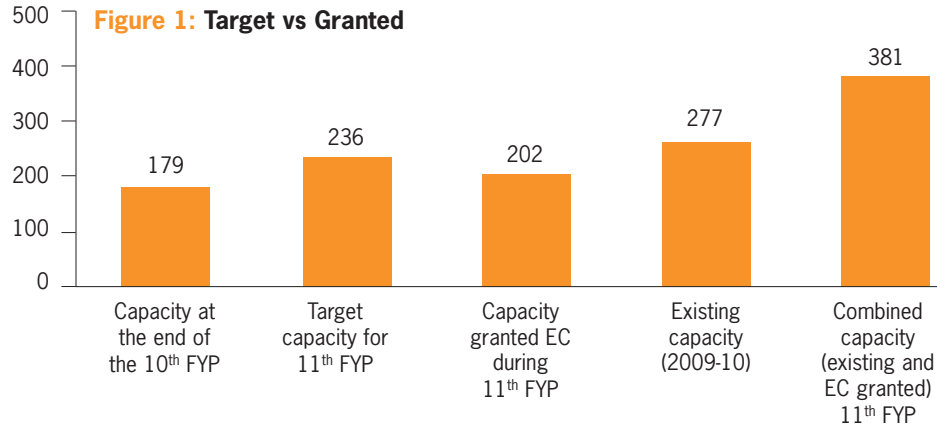
■ During the 11<sup>th</sup> Five Year Plan (FYP) (April 2007 – March 2012), 112 cement plants were granted environmental clearances (EC) (including those that applied for expansion) (see Table 2: Environment clearances granted to cement plants during 11<sup>th</sup> FYP period). The total capacity of the 112 cement plants is about 202 MTPA with a total land requirement of 16,344 hectare (ha) and water requirement of 256,948 m<sup>3</sup>/day.

**Table 2: Environment clearances granted to cement plants during 11<sup>th</sup> FYP period**

State	Number of cement plants granted EC	Capacity (MTPA)
Andhra Pradesh	25	44.739
Assam	11	0.7221
Chhattisgarh	9	25.19
Gujarat	4	8.10125
Haryana	1	0.033
Himachal Pradesh	1	3
Jammu and Kashmir	3	0.379
Jharkhand	3	1.5105
Karnataka	10	37.74
Madhya Pradesh	4	10.3264
Maharashtra	4	8.1
Meghalaya	4	7.79
Orissa	2	0.918
Rajasthan	22	40.087
Tamil Nadu	8	10.761
Uttar Pradesh	1	2.5
<b>Total</b>	<b>112</b>	<b>201.90</b>

■ At the end of the 10<sup>th</sup> FYP, the installed capacity of cement plants in the country was 179 MTPA. Thus the clearances granted to cement capacity in the 11<sup>th</sup> FYP (202 MTPA) is more than the capacity of cement production the country had at the beginning of the plan.

The 11<sup>th</sup> FYP target was to reach 236 MTPA capacity by the end of the plan period. With the clearances granted in the 11<sup>th</sup> FYP period, the combined capacity has become 381 MTPA, 1.6 times the target set for the 11<sup>th</sup> FYP (see Figure 1: Target vs Granted)



- The maximum number of clearances has been granted in Andhra Pradesh (25) with production capacity of 45 MTPA followed by Rajasthan – 22 cement plants with 40 MTPA capacity.

- The maximum number of clearances were granted in 2007 (30), but for highest capacities was granted in 2009 (60.25 MTPA) (see Table 3: Year-wise EC granted during 11<sup>th</sup> FYP).

**Table 3: Year-wise EC granted during 11<sup>th</sup> FYP**

Year	2007 (April- December)	2008	2009	2010	2011	2012 (till March)
Number of Cement Plants	30	28	28	12	11	3
Capacity (MTPA)	41.84	38.46	60.25	24.90	32.32	4.13

- Gulbarga district of Karnataka dominates with a cleared cement capacity of 29.33 MTPA followed by Nalgonda of Andhra Pradesh with 14.3 MTPA capacity (see Table 4: Top 10 cement districts).

**Table 4: Top 10 cement districts**

District	Number of plants	Capacity (MTPA)
Gulbarga	7	29.33
Nalgonda	8	14.30
Durg	2	12.75
Chittorgarh	8	11.80
Jhunjhunu	3	11.02
Cudappah	7	10.58
Raipur	6	10.44
Anantpur	4	9.60
Chandrapur	4	8.1
Jaintia Hilla	4	7.79

- Another 8 cement plants were cleared between April 2012 – September 2012 bringing the total cleared capacity to 227 MTPA.