

Forest and Environment Clearances: Problems for economic growth or problems for environmental protection

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Our questions:

- 1. What has been the scale of clearances granted in the country?
- 2. Are environmental regulations the impediment for economic growth?
- 3. What is the cumulative impact of these individual projects?
- 4. What is the monitoring done to ensure that the projects, once cleared, meet environmental conditions and safeguards?
- 5. What needs to be done?



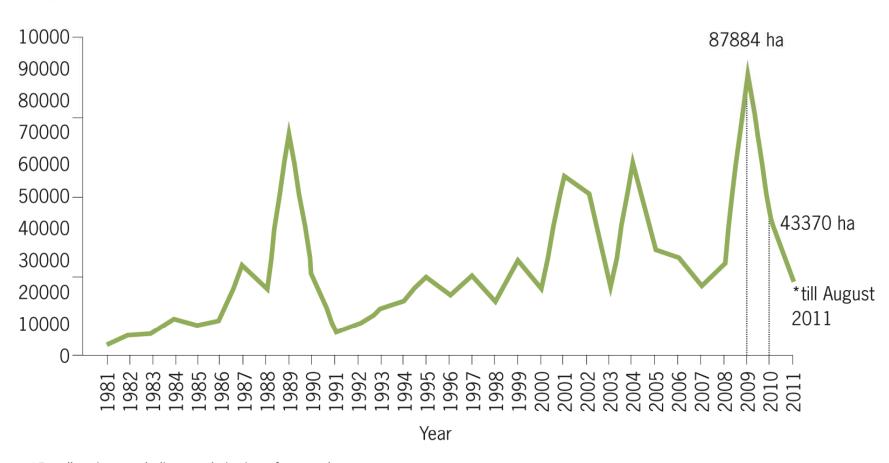
Scale of forest clearance

- 1. Unprecedented rate of clearance in the last five years;
- 2. In the last five years 8,284 projects were granted forest clearance and 2,03,576 hectare (ha) of forest land was diverted -- 25 per cent of all forest land diverted for development projects since 1981. **Pace of clearance doubled**
- 3. In one single year 2009 as much as 87,884 ha of forest was granted clearances **highest in any one year** since 1981
- 4. The area diverted is equal to the average area of two tiger reserves. It is about four times the area of a Panna or a Sahyadri or a Tadoba tiger reserve.

Trend of forest land diverted: 1980-2011



Figure 2: Forestland diverted*



^{*}For all projects excluding regularisation of encroachments

Pace of forest land cleared in last years unprecedented



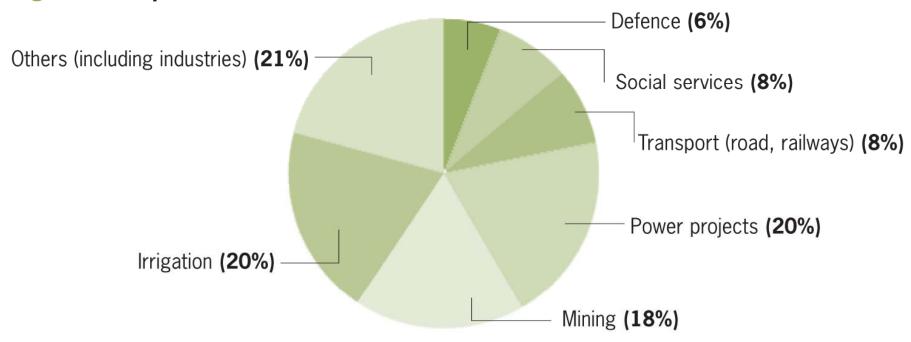
Period/Year	Forestland diverted* (in ha)	
1981-92 198421.19		
8 th FYP (1992-97) 84587.07		
th FYP (1997-2002) 147397.57		
10 th FYP (2002-2007) 196262.32		
2007	22033.78	
2008	28509.45	
2009	87883.67	
2010	43370.38	
2011 (till August)	22627.78	
11 th FYP (2007-2012)	FYP (2007-2012) 204425.06	
Total forestland diverted		
for development projects	830244	

153881 ha — 19% of all forestland diverted for development projects from 1981 till August 2011



Forest clearances: last 30 years.

Figure 3: Purpose-wise forestland diversion*#



^{*} For all projects excluding regularisation of encroachments

[#] For the period 1981- August 2011

Forest clearances in 11th FYP

One-fourth of all forest diversion was for mining

	Forest area diverted (in ha)	Percentage of total forest	
		diverted (%)	
Defence	13137.9	6.4	
Social services, rehabilitation	3405.8	1.7	
and human settlement			
Transport (Road, Railways)	24387.3	11.9	
Power projects	18898.9	9.2	
Hydel	5553.7	2.7	
Thermal	2199.1	1.1	
Wind	2760.4	1.4	
Transmission lines	8385.6	4.1	
Mining	49904.6	24.4	
Irrigation	26839.6	13.1	
Others (including industries)	67851.1	33.2	
Total area diverted	2,04,425.01	100	



Environment clearances

Coal

- 181 coal mines given environment clearance; the combined production capacity is at least 583 million tonnes per annum (MTPA).
- In 2010, India produced about 537 million tonnes coal.
- So, during last five years, MoEF has granted EC to double the coal production capacity in the country.



Cleared..cleared..gone...

• Thermal power plants:

© 267 thermal power plants adding up to 2.1 lakh MW capacity granted environment clearances. Current thermal power capacity is 1,18,409 MW.

Coal-thermal power plants:

© 200 coal-based thermal power plants adding up to 1.76 lakh MW installed capacity granted environmental clearance. Current coal-based power plant capacity is 99,503 MW.



..Gone..

Steel

- .188 steel plants were granted environment clearance; adding 29 million tonnes per annum (MTPA) of sponge iron capacity and 89 MTPA of steel capacity.
- In 2010, India produced about 65 million tonnes of steel and 21 million tonnes of sponge iron.
- More than doubled the capacity in the last 5 years



..gone

Cement:

- .106 cement plants with a production capacity of 190 MTPA granted environment clearance. At the end of the 10th FYP, the installed capacity was 179 MTPA.
- The clearances will double this capacity, taking it to 369 million tonnes per annum, which is double the target set for the 11th FYP.



Impediment to growth?

- It is said and said that environment is holding up economic growth
- "India's credit rating slipping because of green regulations"
- "Can't build and supply energy because of environmental delays"
- "Coal mining held up..."



All go. No no-go

- There is huge pressure to dismantle the current environmental regulations
- The Chaturvedi Committee (for the GOM) wants forest clearances for coal mining to go
- The Draft Manufacturing policy wants environmental clearances and regulations to go in manufacturing zones
- © Call is to clear projects, dilute procedures because environment "holding up growth"



True or False?

False

In all cases, environment clearances given beyond what is operational or even planned or targeted

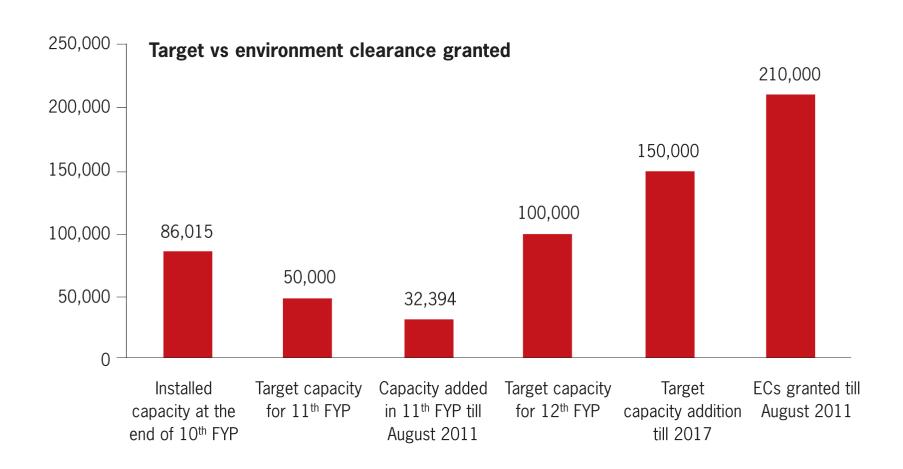


Take thermal power

- OProjected target for additional thermal power capacity:
- 11th FYP: 50,000 mw
- **12th FYP: 100,000 mw**
- In the last five years (till August 2011), MoEF has granted environmental clearance: 210,000 mw
- © Cleared 60,000 mw than what is proposed till the end of 2017

Cleared but not built: whose fault? Only 32,000 mw built

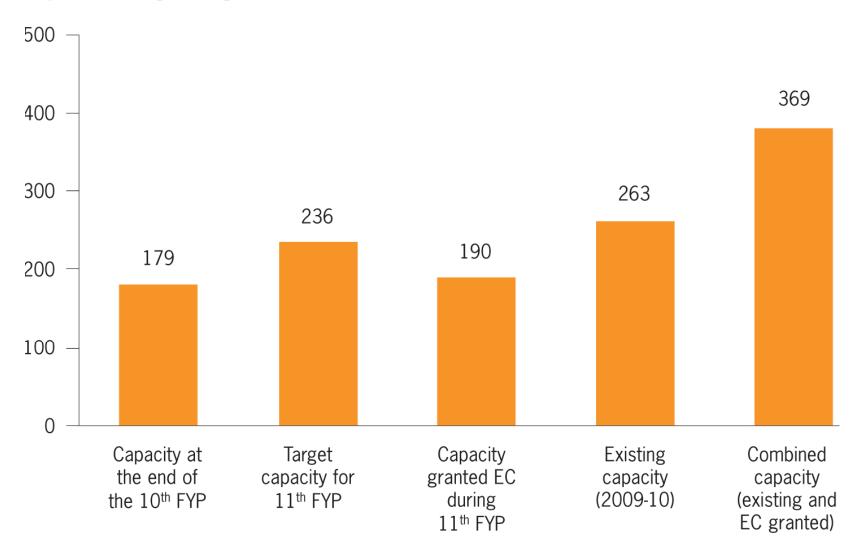






Cement: why new projects?

Figure 1: Target vs granted





Take coal mining

- ©CIL produces 90% coal; 2 lakh ha of mine lease area (including 50,000 ha of forests)
- OCIL reserves are 64 billion tonnes
- ©CIL produces 500 million tonnes annually
- MoEF has cleared 583 million tonnes in addition
- Why is there a shortage?

Land, water and license to pollute



Land and water:

We are seeing huge protest against this takeover across the country;

The game is:

Get land (at throwaway prices); then get water allocation (from state); then apply and get permit to pollute



Water allocation

Sector-wise water allocation

Sector	Water (in million m ³ /annum)	
Cement	88.84	
Coal mining	ning 58.3	
Iron and steel 1098.08		
Thermal power plants 7000		
Mining	90.43	
Total	8335.65	

Scam: any different from telecom?



Land allocated for the projects cleared:

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3.8 lakh ha

Water allocated for the projects cleared:

8.3 billion m3 of water per year

= water needs of 250 million people

Re-allocation of water: displacing livelihoods



- Water allocated to industry/ cities
- Chhattisgarh: Mahanadi
- Amravathi: Upper Wardha project
- Orissa: Hirakud dam water
- Sompeta
- Nirma
- OAll struggles against takeover of water



Mahanadi: over-sold?

- ULifeline of Chhattisgarh and Odisha:
- Last 5 years: 24 thermal power projects of 19,500 mw installed capacity granted EC
- Water will be drawn from Mahanadi and tributaries
- Allocated 1.55 million m3 per day
- Where will it come from?

Top 10 thermal districts: living hell



Top 10

Districts Capacity of coal-based		Remark	
	TPP (in MW)		
Nellore	12260	Impact on marine ecology likely	
Kutch	10195	Impact on marine ecology likely	
Singrauli	10080	Critically polluted area	
Cuddalore	8020	Critically polluted area	
Nagpur-Chandrapur	7260	Critically polluted area	
Janjgir-Champa	6043	Emerging coal-based power and steel industry hub	
Angul	5734	Critically polluted area	
Nagapattinam	5510	Fishing as the main occupation, the impact of sea discharge	
		will be immense	
Jharsuguda	5095	Critically polluted area	
Korba	4220	Critically polluted area	

Cumulative impact: coal+ thermal and no CEPI



Projects granted environment clearance during 11th FYP in critically polluted coalfields

District	Coal mining capacity	Coal-based thermal power capacity (in MV	
	(in MTPA)		
Korba	77.64 +	4220	
Angul-Talcher	72.17 +	5734	
Hazaribagh-Chatra	97 (20% of India's current production)	4135	
Singrauli	48.375 +	10080	
Chandrapur	25.576 +	7260	
Raigarh	19.2 +	4200	
Jharsuguda	16.5 +	5095	



What needs to be done?

A. Forest clearances

- The present system not working. Forest clearances are being granted at an unprecedented rate without considering the impact of forest diversion on forests, wildlife, water and the community
- No impact assessment reports are prepared. No system in place to check the veracity of information based on which forest clearances are granted.
- There should be a complete stop to this process until a transparent and effective system is put into place.



Moratorium

B. Environment clearances

- In all cases coal, iron ore, bauxite, limestone, thermal power projects, steel, cement where clearances exceed targets there should be a moratorium on further clearances.
- In the case of thermal power and coal projects, there should be an assessment of why so much of the cleared capacity is awaiting commissioning. Projects cancelled can be considered as a swap. This swap can be done with other sectors as well.



Reform and strengthen

- MoEF must use this moratorium period to strengthen and improve regulatory procedures as per the recommendations of the Supreme Court in the recent Lafarge judgement
- MoEF must deepen the process of public assessment and scrutiny of all projects. This can be done by **greatly strengthening the public hearing process.** All filming made available on a real-time basis through streaming on the Internet
- MoEF must revise its Environmental Impact Assessment Notification to stipulate that it will only clear projects after considering the **cumulative impact**



Environment is development

MoEF must strengthen, not dismantle, the **Comprehensive Environmental Pollution Index** (CEPI), which allows it to scrutinize projects based on cumulative impact.

MoEF must strengthen its **monitoring procedures** so that affected people can scrutinise the compliance with conditions.

Environment is not against growth. Growth is not possible with environmental safeguards