

**BY SPEED POST**

**No. J- 13011/ 6/2002.IA-II(T)**  
**Government of India/ Bharat sarkar**  
**Ministry of Environment & Forests**  
**(Paryavaran Aur Van Mantralaya)**

Paryavaran Bhawan.  
CGO Complex, Lodi road,  
New Delhi-110003  
**Dated: 22<sup>nd</sup> June, 2004**

To,

**The Chief Executive Officer,**  
**Maithon Power Limited,**  
**3<sup>rd</sup> Floor, NBCC Towers,**  
**15, Bhikaji Cama Place,**  
**New Delhi-110066**

**Sub: 4x250 MW Maithon Right Bank Thermal Power Plant At village Danbhum, district Dhanbad, Jharkhand of M/s Maithon Power Limited.(MPL) - Environmental clearance reg.**

Sir,

The undersigned is directed to refer to your communications no.MPL/207.MOEF/1064 dated 15.5.02,04.4.03,22.5.03,06.10.03,18.12.03 & 08.5.04 and EDCON/EM&PC/ CT (Extn)7 & 8/674 dated 09.02.2004 on the above mentioned subject.

2. The proposal is regarding setting up of Maithon Right Bank Power Plant by installation of four units of 250 MW each at village Danbhum Dist. Dhanbad. The project site covering an area of 1112.18 acres including 436.41 acres of forest land has been identified on the Right Bank of the River Barakar. No ecologically sensitive area is involved. Coal requirement will be 4.864 MTPA and will be met from BCCL mines. Ash and sulphur content shall be 33 % and 0.41% respectively. A total of 1.77 MTPA of ash will be generated, fly ash shall be 3390 TPD. Fly ash utilisation shall be done as per MOEF notification dated 14.4.1999 and its subsequent amendments. Water requirement will be 4800 m<sup>3</sup>/hr and will be met from Maithon Reservoir. Displacements 150 homesteads is involved. Capital cost of the project will be Rs. 4500.00 Crores which include 140.00 crores for environmental protection measures.

3. The environmental clearance for the above project is hereby accorded subject to implementation of following terms and conditions:

- i) All the conditions stipulated by Jharkhand Pollution Control Board vide their letter no. N-194 dated 1.10.2003 should be strictly implemented.
- ii) Land requirement should not exceed 1112.18 acres including 436.41 acres of forest land
- iii) Coal requirement is estimated at 4.864 MTPA having 33% ash content and 0.41% Sulphur content.
- iv) Two twin flue stacks of 275 m height each shall be provided with continuous online monitoring equipment. Exist velocity of 23 m/sec should be maintained.
- v) High efficiency Electrostatic Precipitator(ESP) having efficiency of 99.8% should be installed to limit outlet SPM emission 100 mg/Nm<sup>3</sup>.
- vi) Ash generation will be 1.77 MTPA. Ash shall be utilised in cement production, brick manufacturing and the remaining for filling up abandoned mines. Ash generated should be used in a phased manner as per provisions of the notification on Fly Ash Utilisation issued by the Ministry in September, 1999 and its amendment. By the end of 9<sup>th</sup> year full fly ash utilisation should be ensured.
- vii) Water requirement should not exceed 4800 m<sup>3</sup>/hr. Waste water should be recycled and used in the plant.
- viii) Central Groundwater Authority/ Board shall be consulted for finalisation of appropriate water harvesting technology within a period of two months from the date of clearance.
- ix) Regular monitoring of water quality including heavy metals should be undertaken around ash dyke and the project area to ascertain the change in the water quality, if any, due to leaching of contaminants from ash disposal area.
- x) Noise level should be limited to 75 Leq and regular maintenance of equipment be undertaken. For people working in the area of generator and other high noise area, earplug should be provided.
- xi) Greenbelt should be developed covering an area of 95 ha and as per the recommendations of Institute of Forest Productivity, ICFR&E, Ranchi. An undertaking to abide by the recommendations of the consultant i.e IFP, Ranchi and any direction issued by MOEF be submitted immediately.

- xii). A self-contained note on list of abandoned mines, distance, mode of transport, fugitive dust suppression measures, order of filling alongwith MOU from the Mine authorities should be submitted to the Ministry within three months.
- xiii). Mitigation measures as approved by the Chief Wildlife Warden, Jharkhand must be taken for migratory birds in Maithon reservoir and a report on the measures taken be submitted to the Ministry within six months.
- xiv). Regular monitoring of the air quality should be carried out in and around the power plant and records be maintained. Periodic six monthly report should be submitted to this Ministry.
- xv). For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant should be ensured.
- xvi). All other mitigative measures shall be taken as enumerated in Chapter 7 of the EIA report.
- xvii). The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.
- xviii). A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
- xix). Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry/ Regional Office/CPCB/SPCB.
- xx). Regional Office of the Ministry of Environment & Forests located at Bhubaneswar will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact assessment Report and Management Plan should be forwarded to the Regional Office for their use during monitoring.
- xxi). Separate funds should be allocated for implementation of environmental protection measures alongwith item-wise break-up. These cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.

xxii). Full cooperation should be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bhubaneswar/the CPCB/the SPCB who would be monitoring the compliance of environmental status.

4. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.
5. The environmental clearance accorded shall be valid for a period of 5 years for construction/operation of the power plant. In case, if the project authorities fails to do so within this stipulated period, this environmental clearance shall stand lapsed automatically.
6. In case of any deviation or alteration in the project proposed from those submitted to this Ministry for clearance, a fresh reference should be made to the Ministry to assess the adequacy of the condition( s) imposed and to add additional environmental protection measures required, if any.
7. The above stipulations would be enforced among others under the Water(Prevention and Control of Pollution) Act,1974, the Air(Prevention and Control of Pollution) Act,1981,the Environment (Protection) Act,1986, Hazardous Wastes (Management and Handling) Rules,1989, the Public Liability Insurance Act,1991, the Environment Impact assessment Notification of January,1994 and its amendments.

  
( S.BHOWMIK)

ADDITIONAL DIRECTOR

Copy to:

1. Secretary,Ministry of Power,Shram Shakti Bhawan,Rafi Marg,New Delhi-110001.
2. Secretary(Environment & Forests),Government of Jharkhand, Ranchi.
3. Chairman, Central Electricity Authority, Sewa Bhawan,R.K.Puram,New Delhi-110066.
4. Chairman, Jharkhand Pollution Control Board, TA Building, HEC Complex,P.O. Dhurwa, Distt. Ranchi with respect to display a copy of the clearance letter at the Regional Office,District Industries Centre and Collector's office for 30 days.

5. Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. Chief Conservator of Forests, Eastern Regional Office, Ministry of Environment & Forests, 194, Kharvela Nagar, Bhubaneswar-751001.
7. Director(EI), MOEF.
8. Guard file.
9. Monitoring file.

*S. Bhowmik*  
( S.BHOWMIK)

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