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SPEED POST

F.No. J- 13011/26/2005-IA.II(T)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110 003

Dated 16th February, 2006

To

The Chief Engineer/Civil/General Services
Andhra Pradesh Power Generation Corporation Ltd. (APGENCO),
Vidyut Soudha,
Hyderabad – 500 082.

Sub : 1x500 MW Bhoopalapally Thermal Power Station at Chelpur village, Warangal District, A.P. by M/s Andhra Pradesh Power Generation Corporation Limited – Environmental clearance reg.

Sir,

The undersigned is directed to refer to your communication no. CE/C/GS/AEE(Env)/D. No. 269/2K5 dated 22.12.2005 on the above mentioned subject. Subsequent information furnished vide letter no. CE/C/GS/AEE(Env)/D.No.13/2k6 dated 6.1.2006 has also been considered.

2. It is noted that the proposal is to set up a 1x500 MW thermal power station at Chelpur village of District Warangal in Andhra Pradesh. The land requirement is 375 ha. out of which 5 ha. is for ash pond and 170 ha is for greenbelt development. No forestland and no ecologically sensitive area is involved in the project. About 342 families would be affected due to the project for which R&R will be carried out as per the norms of State Government. Tadicharla reserved forest is at a distance of 3.3 km from the project site. The coal requirement will be 7296 TPD and will be obtained from Kakatiya Coal Mine of SCCL which is at a distance of about 4.5 km. Coal shall be transported through closed conveyer belt. Water requirement for the project is 2031 m³/hr. which will be obtained from River Godavari. Public hearing for the project was held on 16.12.2005 and NOC was issued by Andhra Pradesh Pollution Control Board (APPCB) on 04.01.2006. The capital cost of the project is Rs 2077.18 Crores including Rs. 192.00 crores for environmental protection measures.

3. On the basis of information submitted and after its consideration by the Expert Committee for Thermal Power Projects, Ministry of Environment & Forests hereby accords environmental clearance for setting up of 1x500 MW Bhoopalapally Thermal Power Station at Chelpur subject to effective implementation of following conditions and safeguards:

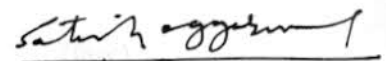
- (i) The conditions stipulated by Andhra Pradesh Pollution Control Board vide their letter no. APPCB/HYD/WGL/1019/CFE/HO/2005 dated 04.01.2006 shall be strictly implemented.
- (ii) The total land requirement for the project shall not exceed 375 ha. Only 5 ha. of land shall be used for ash pond and 170 ha for raising of green belt.
- (iii) Ash and Sulphur content in the coal shall not exceed 38.5% and 0.6 % respectively.
- (iv) R&R plan shall be finalized within three months in accordance with the norms to be decided by the State Govt which shall not in any case, be less than the norms prescribed in the National R&R policy. A copy of the same shall be furnished to this Ministry within six months.
- (v) A single stack of 275 m height with an exit velocity of not less than 22 m/sec shall be provided with continuous On-line monitoring system. Data collected shall be analyzed and submitted regularly to the Regional Office of this Ministry at Bangalore.
- (vi) Electrostatic Precipitators (ESPs) with an efficiency of not less than 99.9% shall be installed to limit particulate emission within 100 mg/Nm³. A system for automatic shutdown of Power Plant in the event of non functioning of ESPs shall be installed.
- (vii) For controlling fugitive dust, regular sprinkling of water in coal storage area and other vulnerable areas of the plant shall be ensured. Dust extractors and suppressors shall also be installed to minimize fugitive emission.
- (viii) Leq of Noise should be limited to 75 dB(A). For people working in the high noise area, personal protection devices like earplug etc. shall be provided.
- (ix) Regular monitoring of the air quality shall carried out in and around the power plant and records shall be maintained. Six monthly reports shall be submitted to this Ministry and its Regional Office at Bangalore.

- (x) Requirement of water shall not exceed 2031 m³/hr. Natural draft cooling tower shall be provided. Measures shall be adopted to reduce the water demand and meeting part of the demand through recycling and reuse of waste water, increasing COC and rain water harvesting so that the demand of fresh water from river Godavari is reduced. A minimum COC of 4 shall be maintained.
- (xi) The effluents to be discharged into the nalla shall conform to the standards prescribed by the State Pollution Control Board.
- (xii) Rain water harvesting shall be adopted. A detailed scheme for rain water harvesting to recharge the ground water aquifer shall be prepared in consultation with Central Ground Water Authority/State Ground Water Board and a copy of the same shall be submitted within three months to the Ministry.
- (xiii) Fly ash shall be collected in dry form and bottom ash only be disposed in the ash pond area. 100% ash (fly ash + bottom ash) utilization shall be ensured from the day of operation of the plant.
- (xiv) Green belt of 200 m width shall be developed all around the power plant boundary and 50 m around ash pond area. Greenbelt will be raised in an area of 170 ha. Green belt development shall start simultaneously with the construction activity.
- (xv) First aid and sanitation arrangements shall be made available for the Drivers and contract labour.
- (xvi) 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>.
- (xvii) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
- (xviii) 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.

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- (xix) Regional Office of the Ministry of Environment & Forests located at Bangalore will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment Report and Management Plan shall be forwarded to the Regional Office, if not provided already for their use for monitoring.
 - (xx) Separate funds should be allocated for implementation of environmental protection measures along with 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 any other purposes and year-wise expenditure should be reported to the Ministry.
 - (xxi) Full cooperation should be extended to the Scientists/Officers from the Ministry/Regional Office of the Ministry at Bangalore /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 starting 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 as under the Water(Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, MSI Rules 1989, Hazardous Wastes (Management and Handling) Rules, 1989, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification of January, 1994 and their amendments.


(S.K. Aggarwal)
DIRECTOR

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.

2. The Principal Secretary, Department of Environment, Science & Technology, Govt of Andhra Pradesh, Sect. Building, Hyderabad- 500 022
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. The Chairman, Andhra Pradesh Pollution Control Board, Paryavaran Bhawan, A-3, Industrial Estate, Sanathnagar, Hyderabad- 500 018 with a request to display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's office for 30 days.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. The Chief Conservator of Forests, Regional Office(SZ), Kendriya Sadan, 4th Floor, E&F wing, 17th Main Road, 2nd Block, Koramangla, Bangalore -560 034.
7. Director(EI), MOEF.
8. Guard file.
9. Monitoring file.



(S.K. Aggarwal)
DIRECTOR