

No. J- 13011/ 14/2002.1A-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: 23rd June, 2004

To ,

**The Chief Engineer/Civil/Environment,
APGENCO,
Vidyut Soudha,
Hyderabad-500 082,
Andhra Pradesh.**

Sub: 1x660 MW Vijaywada Thermal Power Station(VTPS) stage IV
Expansion Project at village Ibrahimpatnam, A.P. of M/s Andhra
Paradesh Power Generation Corporation Ltd.- Environmental
clearance reg.

Sir,

The undersigned is directed to refer to your communications no.
CE/C/ENV/EE(ENV)/F dated 28.9.02, 15.11.02, 18.12.02, 2.5.03, 1.9.03,
27.10.03, & 6.4.04 on the above mentioned subject.

2. The proposal is regarding augmentation of power by installation of one unit of 660 MW in the premises of existing power plant. No additional land is required except 45 ha for greenbelt development and Switch yard area. No forest land is involved. No ecologically sensitive area is involved. Kondapalli reserve forest is at 1 Km away. Washed coal requirement will be 8424 TPD. Ash generation will be 2880 TPD. Water requirement will be 1630 m³/hr and will be met from river Krishna. Public hearing was held on 2.11.2002 and NOC was issued by A.P. Pollution Control Board on 17.12.2002. Capital cost of the project will be Rs. 2706.00 Crores which includes 108.00 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 Andhra Pradesh Pollution Control Board vide their letter no. CFE/APPCB/ HO/R00/ CFE/ 2002/47-1963 dated 17.12.2002 should be strictly implemented.

- ii) Land already in possession of the project authorities. No additional should be acquired except 45 ha for greenbelt development and switch yard area.
- iii). Coal requirement is estimated at 8424 TPD for the expansion scheme having calorific value of 4150 K.Cal/kg with 34 % ash content and 0.58% sulphur content. The coal shall be washed coal and will be supplied from Mahanadi Coalfields Ltd.,Orissa. Copy of coal linkage approval , commitment for use of washed coal only and the arrangements for getting washed coal should intimated to the Ministry within six months.
- iv). A single flue stack height of 275 m shall be provided with continuous online monitoring equipment. Exist velocity of 30 m/sec should be maintained.
- v). High efficiency Electrostatic Precipitator(ESP) should be installed to limit outlet SPM emission 115 mg/Nm³.
- vi). Space provision should be made for Flue Gas De-sulphurisation (FGD) unit.
- vii). Ash generation will be 2304 TPD fly ash and 576 TPD bottom ash . 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 subsequent amedments . By the end of 9th year full fly ash utilisation should be ensured.
- viii). Water requirement should not exceed 1630 m³/hr. Copy of permission for withdrawal of water for this expansion unit should be submitted to the Ministry within three months.
- ix). Central Groundwater Authority/ Board shall be consulted for finalisation of appropriate size and location of the water harvesting pond and water harvesting technology within a period of two months from the date of clearance.
- x). 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.
- xi). 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.

- xii). Greenbelt should be developed in and around the plant and ash pond area covering an area of 40 ha. Tree density of 1500-2000 trees per ha should be maintained. A revised map identifying the 40 ha area should be submitted within three months.
- xiii). Regular monitoring of the air quality should be carried out in and around the power plant and records be maintained. Periodic six monthly reports should be submitted to this Ministry.
- xiv). For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant should be ensured.
- xv). All other mitigative measures shall be taken as enumerated in Chapter 5 of the EIA report.
- 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. A senior Officer should also be appointed to look after environmental aspects.
- xviii). Half yearly reports on the status of implementation of the stipulated conditions and environmental safeguards should be submitted to this Ministry/ Regional Office/CPCB/SPCB.
- 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 should be forwarded to the Regional Office for their use during monitoring.
- xx). 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.
- 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 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 and its amendments, the Public Liability Insurance Act,1991 and its amendments, 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 Andhra Pradesh,Hyderabad.
3. Chairman, Central Electricity Authority, Sewa Bhawan,R.K.Puram,New Delhi-110066.
4. Chairman, Andhra Pradesh Pollution Control Board, 2nd floor,Maitrivanam,HUDA Complex,S.R.Nagar,Hyderabad-500038 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 Coservator of Forests, Southern Regional Office, Ministry of Environment & Forests, Kendriya Sadan, ivth Floor, E&F wing, 17th Main Road, II block, Koramangla, Bangalore-560034
7. Director(EI), MOEF.
8. Guard file.
9. Monitoring file.



(S.BHOWMIK)
ADDITIONAL DIRECTOR