

Rp/12-1/858/AP

Fax to Mr. Ajay Jain, IAS,
M.D. APGENCO, HYDERABAD for
information pl. With regards.

BY SPEED POST

S. B. HUSSAINI 5/5/08
No. J-13011/76/2007-IA-II (T)
Government of India
Ministry of Environment & Forests
CONSULTANT (LIAISON)
APGENCO, N. DELHI



Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110003

Dated: 1st May, 2008

To

dir (env) / ce/c/ae/ae
Pl. reply
A. on

M/s Andhra Pradesh Power Generation Corporation Ltd.
Vidyut Soudha,
Hyderabad- 500 082
Andhra Pradesh.

**Sub: 1x210 MW Rayalseema Thermal Power Project Stage-III near VV
Reddy Nagar, District Kadapa, Andhra Pradesh by M/s
APPGENCO- Environmental Clearance regarding.**

The undersigned is directed to refer to your communication no.
CE/C/GS/AM/AEE(Env)D.No.575/07 dated 19.11.2007 on the above mentioned subject.
Subsequent information furnished vide letter dated 28.02.2008 has also been
considered.

2. It is noted that the proposal is for grant of environmental clearance for setting
up of a 210 MW coal based thermal power plant as an expansion stage-III where four
units of 210 MW each are already under operation. About 994 ha of land was acquired
for this power complex in 1989. The proposed unit will be accommodated within the
available land and no additional land is to be acquired for this project. There will be no
additional ash pond created as part of this project. Coal requirement will be 1.06 MTPA
and will be sourced from MCL mines. Water requirement will be 20232 m³/day and will
be available from Mylavaram Reservoir. No ecologically sensitive area is located within
10 Km of the project site. Public hearing was held on 6th November, 2007. Total cost of
the project is Rs 996.27 crores, which includes Rs 73.00 crores for environmental
protection measures.

3. The proposal has been considered and Ministry of Environment & Forests hereby
accords environmental clearance to the said project under the provisions of
Environment Impact Assessment Notification, 2006 subject to implementation of the
following terms and conditions:-

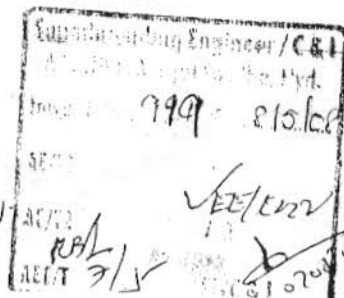
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- (i) No additional land shall be acquired for any activity/facility of this expansion project.
- (ii) Sulphur and ash contents in the coal to be used in the project shall not exceed 0.5% and 34% respectively.
- (iii) A stack of 220 m height shall be provided with continuous online monitoring equipments for Sox, NOx and Particulate. Exit velocity of flue gases shall not be less than 20 m/sec.
- (iv) High efficiency Electrostatic Precipitator (ESPs) shall be installed to ensure that particulate emission does not exceed 100 mg/Nm³.
- (v) Space provision shall be kept for retrofitting of FGD, if required at a later date.
- (vi) Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
- (vii) Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% fly ash utilization shall be ensured from day one of the commissioning of the expansion plant. Unutilized bottom ash shall be disposed off in the ash pond in the form of conventional slurry mode.
- (viii) No ash pond shall be created for this expansion project. Existing ash pond shall be used for bottom ash disposal in emergency.
- (ix) Water requirement of 20232 m³/day shall be met from Mylavaram Reservoir only.
- (x) Closed cycle cooling system with cooling towers shall be provided. The effluent shall be treated as per the prescribed norms.
- (xi) The treated effluents conforming to the prescribed standards shall be recirculated and reused within the plant. There shall be no discharge outside the plant boundary except during monsoon for storm water. Arrangements shall be made that effluents and storm water do not get mixed.
- (xii) A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.
- (xiii) Rainwater harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.
- (xiv) Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Details of these measures along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry at Bangalore.
- (xv) Existing storage facilities for liquid fuel such as HFO and LDO shall be used. No additional facilities for liquid fuel shall be created. Existing Disaster

Management Plan should be so modified to take care of the risk management of this expansion unit also. Mock drills shall be conducted regularly as planned.

- (xvi) Regular monitoring of ground water in and around the ash pond area shall be carried out, records maintained and periodic reports shall be furnished to the Regional Office of this Ministry.
- (xvii) The existing green belt shall be expanded with additional land to take care of the expansion project. The expanded greenbelt shall be developed around the plant periphery preferably with local species. The total area under greenbelt (existing and expansion) shall cover about 287 ha of area.
- (xviii) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (xix) Leq of Noise levels emanating from gas and steam turbines shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as steam and gas turbines, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.
- (xx) Regular monitoring of ground level concentration of SO₂, NO_x, SPM and RSPM shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry
- (xxi) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter 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>.
- (xxii) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxiii) Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/ Regional Office/CPCB/SPCB.
- (xxiv) Regional Office of the Ministry of Environment & Forests located at Bangalore will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.
- (xxv) Separate funds shall be allocated for implementation of environmental protection measures along with Item-wise break-up. These cost shall be included as part of

the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.

(xxvi) The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.

(xxvii) Full cooperation shall 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.

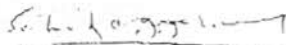
4. The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. MOEF may impose additional environmental conditions or modify the existing ones, if necessary.

5. The environmental clearance accorded shall be valid for a period of 5 years to start of production operations by the power plant.

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 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the Public Liability Insurance Act, 1991 and its amendments


8. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.


(Dr. 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, Government of Andhra Pradesh, Sectt. 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, Ministry of Environment & Forests, Regional Office(SZ), Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, II-Block, Koramangla, Bangalore-560034.
7. The Director (EI), MOEF.
8. Guard file.
9. Monitoring file.


(Dr. S.K. AGGARWAL)
DIRECTOR