

BY SPEED POST

No. J- 13012/68/2006-IA-II (T)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110003

Dated: 13th June, 2007

To

The Section Officer (CPAM)
Government of India
Ministry of Coal
Shastri Bhawan
New Delhi- 110001.

**Sub: 2x500 MW Tuticorin Thermal Power Project, District Tuticorin,
Tamil Nadu of M/s Neyveli Lignite Corporation Ltd-
Environmental clearance reg.**

Sir,

The undersigned is directed to refer to Ministry of Coal's communication no. 43011/139/2006-CPAM dated 27.11.2006 on the above mentioned subject. Subsequent information furnished by M/s Neyveli Lignite Corporation vide letter no. GM-P&BD/EIA-EMP/TTPP/1042/2007 dated 21.3.2007 has also been considered.

2. It is noted that the proposal is for grant of environmental clearance under the provisions of EIA Notification, 1994 for setting up of a 1000 MW (2x500 MW) power plant adjacent to the existing Tuticorin Thermal Power Station. The coordinates of the project site are 8° 45' 38.09" N latitude and 78° 10' 15.85" E longitude. Site elevation is 1.46 m above sea level. The land requirement for the plant is estimated as 133 ha which includes 25 ha for the colony. In addition, 150 ha of land will be required for ash storage area out of which 25 ha will be within Tuticorin Port Trust land out side the CRZ area and another 125 ha at either of the two places namely; one near Mel Thattaparai Railway Station and the other near Maniyatchi Railway Station at a distance of 19 km and 35 km respectively. It is estimated that 15,360 tonnes per day of coal will be used. The coal will be sourced from Mahanadi Coalfields Limited. Imported coal, based on commercial viability and need, will be used up to 30%. Washed coal with ash content up to 34% will be used. Sea water to the extent of 10148 m³/hr will be used for the condenser cooling system and

desalination plant. Gulf of Mannar Marine National Park is at 6.2 km distance from the plant boundary. The project site does not fall within CRZ. Public hearing was held on 7.12.2006. Total cost of the project is Rs 4654.43 crores which includes Rs 377.04 crores for environmental protection measures.

3. The proposal has been considered by the Expert Appraisal Committee in accordance with para 12 of the EIA Notification dated 14th September, 2006 read with para 2.2.1 (i) (a) of the Circular No. J-11013/41/2006-IA.II(I) dated 13.10.2006. Based on the recommendations of the Expert Appraisal Committee for Thermal Power and Coal Mine Projects, Ministry of Environment & Forests hereby accords environmental clearance to the said project under the provisions of EIA Notification 2006, subject to implementation of the following terms and conditions:-

- (i) Environmental clearance is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the Competent Authority.
- (ii) Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.
- (iii) No activities in CRZ area shall be taken up without obtaining requisite prior clearance under the provisions of the CRZ Notification, 1991.
- (iv) No ash shall be dumped in the CRZ area. The location of the ash pond will be outside the CRZ area.
- (v) Washed coal with ash content not exceeding 34% and sulphur content not exceeding 0.5% shall be used.
- (vi) Space provision shall be made for installation of FGD of requisite efficiency of removal of SO₂, if required at a later stage.
- (vii) A single bi-flue stack of 275 m height with exit velocity of at least 21 m/s shall be provided with continuous online monitoring system.
- (viii) High efficiency Electrostatic Precipitator (ESPs) having efficiency of 99.9% shall be installed so as to ensure that particulate emissions do not exceed 100 mg/Nm³.
- (ix) Low NOx burners shall be provided.
- (x) It shall also be ensured that the air quality in the marine national park is not affected adversely due to the power plant and that the air quality standards prescribed for sensitive area are not exceeded in the marine national park due to the power plant.

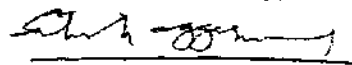
- (xi) Desalination plant shall be installed for meeting the water requirement of the project.
- (xii) Closed Cycle Cooling system with natural draft cooling towers shall be provided.
- (xiii) Treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be minimal discharge outside the plant boundary.
- (xiv) Rain water harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rain water harvesting technology within a period of three months from the date of clearance.
- (xv) Fly ash shall be collected in dry form and its 100% utilization shall be ensured from the day of the commissioning of the plant. Unutilized bottom ash shall be disposed off at the proposed ash disposal site/sites. No ash shall be dumped in the CRZ area or in the sea. Borrow earth shall not be taken from ash pond area for construction of ash dyke etc.
- (xvi) Regular monitoring of ground water quality including heavy metals shall be undertaken around ash dyke and the project area to ascertain the change, if any, in the water quality due to leaching of contaminants from ash disposal area.
- (xvii) Noise levels shall be limited to 75 dBA. For people working in the high noise area, protective devices such as earplugs etc. shall be provided.
- (xviii) A greenbelt shall be developed all around the plant boundary and ash dyke covering an area of at least 32.20 ha.
- (xix) Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with State Pollution Control Board. Six monthly reports shall be submitted to this Ministry.
- (xx) For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured.
- (xxi) 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 in the Website of the Ministry of Environment and Forests in the <http://envfor.nic.in>.

- (xxii) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
 - (xxiii) Half yearly report on the status of implementation of the conditions and environmental safeguards should be submitted stipulated to this Ministry, the Regional Office, CPCB and 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, Environment Management Plan and the additional information/clarifications submitted subsequently should be forwarded to the Regional Office for their use during monitoring.
 - (xxv) 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 other purposes and year-wise expenditure should be reported to the Ministry.
 - (xxvi) Full cooperation should be extended to the Scientists/Officers from the Ministry and its Regional Office at *Bangalore*/the CPCB/the SPCB during monitoring of the project.
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 to the 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.

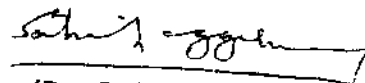
Yours faithfully,



(Dr. S.K. Aggarwal)
Director

Copy to:-

- ✓ 1. The Director (Planning & Projects), M/s Neyveli Lignite Corporation Ltd., Corporate Office, Block-I, Neyveli-607801
2. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
3. The Secretary, Department Environment & Forests Department, Secretariat Chennai- 600 009.
4. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
5. The Chairman, Tamil Nadu Pollution Control Board, No. 100, Mount Salai, Guindy, Chennai- 600 032 - **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.**
6. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
7. 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.
8. The Director (EI), MOEF.
9. Guard file.
10. Monitoring file.



(Dr. S.K. Aggarwal)
Director