

No. 11-22/2009-IA.III
Government of India
Ministry of Environment & Forests
(IA Division)

Paryavaran Bhawan,
CGO Complex, Lodhi Road,
New Delhi - 110 003.

Dated: 14th July, 2009.

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To
The Managing Director,
M/s. NTPC Tamil Nadu Energy Company Ltd.,
Vallur Thermal Power Project,
123, "G" Block, Anna Nagar (East),
Chennai - 600 102.

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Subject: **CRZ Clearance for the construction of facilities such as pipelines Bridge, conveyer and development of green belt, proposed 1000 MW Vallur Thermal Power Project at Vallur, Tamil Nadu by M/s. NTPC Tamil Nadu Energy Company Ltd.**

CEO/324
27.7.09

This has reference to your application No: 1154/EC.3/2009-1, dated 24.02.2009 forwarded by Environment and Forests (EC3) Department, Government of Tamil Nadu, seeking prior CRZ Clearance for the above project under Coastal Regulation Zone (CRZ) Notification, 1991. The proposal has been appraised as per prescribed procedure in the light of provisions under the Coastal Regulation Zone Notification, 1991 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, EIA, EMP and the additional clarifications furnished in response to the observations of the Expert Appraisal Committee constituted by the competent authority in its meetings held on 21st-22nd May, 2009.

2. It is interalia, noted that the proposal involves construction of facilities for the transportation of coal through conveyer from NCTPS to Vallur Thermal Power Project, construction of pipelines for the transportation of sea water from intake water channel of NCTPS, Pipeline carrying treated effluent into the existing outlet channel of NCTPS, construction of bridge across the Creek to carry the above facilities and development of green belt in connection with the proposed Vallur Thermal Power Project. The project comprises of 2x500 MW units under Stage-I, Phase-I and 1x500MW unit under Stage-I Phase-II. Environmental Clearance for Stage-I Phase-I was issued on 18.04.2007. Vallur Thermal Power Project is coal based and coal is transported from the Mahanadi coal fields. The sweet water requirement will be met through desalination of sea water. The project area fall in latitude and longitude 13 13' 45" N and 80 18' 05" E (S.F. Nos. 1556 of Vallur Village and 16/1 of Ennore village) covering the total area of 1184 acres, out of

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which 112.35 acres area falling in Coastal Regulation Zone and another 1.65 acres across Ennore Creek. The construction of pipelines and conveyors are between Ennore creek and Pulludivakkam village of Ponnneri taluk of Thiruvallur district. Further the length of the bridge is 800 mts approximately, width is 10.5 mts, diameter of pier is 2 mts, depth 10-15 mts and dia of the well foundation is 8 mts. No dredging is proposed as it is only well foundation. The total cost of the project is Rs. 268 crores.

3. The site falls in Coastal Regulation Zone – I (ii) and Coastal Regulation Zone – III and the study was undertaken through Anna University Chennai to demarcate CRZ line. As per para 2 (viii) of CRZ Notification 1991, reclamation, bunding or disturbing the natural course of sea water for the construction of bridges are not prohibited activities. As per para 3 (2) (iii) of Coastal Regulation Zone Notification 1991, the foreshore facilities for transport of raw materials, for intake of cooling water and outfall for discharge treated waste water / cooling water, require clearance. Further, as per para 3(2) (v) all activities with investment of five crore rupees or more require environmental clearance. The facilities which are falling in the CRZ area are- conveyor belt transporting coal from Ennore Port to the project site, pipeline carrying sea water from intake water channel of NCTPS and effluent discharge from project site to the lagoon by pipeline. Tamil Nadu State Coastal Zone Management Authority has considered the project in its 49th meeting held on 12.01.2009 and recommended the project for the issue of Clearance, which was communicated vide letter No.1154/EC.3/2009-1, dated 24.02.2009 by the Principal Secretary, Environment and Forests (EC.3) Department, Government of Tamil Nadu.

4. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of CRZ Clearance for the project. Accordingly, the Ministry hereby accord necessary CRZ Clearance for the above project as per the provisions of Coastal Regulation Zone Notification, 1991 and its subsequent amendments, subject to strict compliance of the terms and conditions as follows:

5. SPECIFIC CONDITIONS :

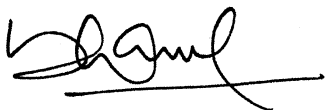
- (i) Sufficient passage distance shall be maintained below the proposed bridge across the creek on the basis of navigational norms.
- (ii) Necessary measures shall be taken in the ash storage pond to prevent the leachate/ overflows during rainy season.
- (iii) The proposal shall have an impervious tank for treatment of Leachate from Coal yard.



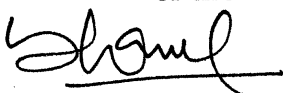
- (iv) All the conditions as stipulated by the Principal Secretary, Environment and Forests (EC.3) Department, Government of Tamil Nadu vide their letter No. 1154/ EC.3/2009-1, dated 24.02.2009 shall be strictly complied.
- (v) No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (vi) Washing from paved area/Sewage shall be treated and the Treatment Facility shall be provided in accordance with the Coastal Regulation Zone Notification, 1991. The disposal of treated water shall confirm the regulation of Tamil Nadu State Pollution Control Board.
- (vii) Oil spills if any shall be properly collected and disposed as per the Rules.
- (viii) The project proponent shall set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.
- (ix) The project proponent shall take up mangrove plantation/green belt in the project area, wherever possible. Adequate budget shall be provided in the Environment Management Plan for such mangrove development.
- (x) The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.

6. GENERAL CONDITIONS :

- (i) The construction of the structures should be undertaken as per the plans approved by the concerned local authorities/local administration, meticulously conforming to the existing local and Central rules and regulations including the provisions of Coastal Regulation Zone Notification dated 19.2.1991 and the approved Coastal Zone Management Plan of Tamil Nadu.
- (ii) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.



- (iii) Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.
- (iv) Borrow sites for each quarry sites for road construction material and dump sites must be identified keeping in view the following:
 - (a) No excavation or dumping on private property is carried out without written consent of the owner.
 - (b) No excavation or dumping shall be allowed on wetlands, forest areas or other ecologically valuable or sensitive locations.
 - (c) Excavation work shall be done in close consultation with the Soil Conservation and Watershed Development Agencies working in the area, and
 - (d) Construction spoils including bituminous material and other hazardous materials must not be allowed to contaminate water courses and the dump sites for such materials must be secured so that they shall not leach into the ground water.
- (v) The construction material shall be obtained only from approved quarries. In case new quarries are to be opened, specific approvals from the competent authority shall be obtained in this regard.
- (vi) Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.
- (vii) Full support shall be extended to the officers of this Ministry/ Regional Office at Bangalore by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.
- (viii) Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (ix) The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.



- (x) In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment and Forests.
- (xi) Tamil Nadu Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Center and Collector's Office/Tehsildar's office for 30 days.

7. These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 1994, including the amendments and rules made thereafter.

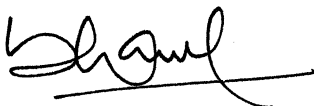
8. All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.

9. The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Tamil Nadu State Pollution Control Board and may also be seen on the website of the Ministry of Environment and Forests at <http://www.envfor.nic.in>. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Bangalore.

10. 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.

11. Any appeal against this Environmental Clearance shall lie with the National Environment Appellate Authority, if preferred, within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

12. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parisad/Municipal Corporation, Urban Local Body and the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.



13. The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

14. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.

15. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.



(Bharat Bhushan)
Director (IA-III)

14.07.2008

Copy to:

1. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110 032.
2. The Chairman, Tamil Nadu Coastal Zone Management Authority and Principal Secretary, Govt. of Tamil Nadu, Environment and Forests (EC.3) Department, Secretariat, Chennai - 9.
3. The Chairman, Tamil Nadu State Pollution Control Board, Chennai.
4. The Secretary, Environment & Forests Department, Govt. of Tamil Nadu, Saint Geroge Port, Chennai.
5. The Director, Environment Department, Govt. of Tamil Nadu, Chennai.
6. The CCF, Regional Office, Ministry of Environment & Forests(SZ), Kendriya Sadan, IVth floor, E&F wings, 17th Main Road, Koramangala II Block, Bangalore - 560 034.
7. Guard File.
8. Monitoring File.

(Bharat Bhushan)
Director (IA-III)