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F.No.11-48/2009-IA.III
Government of India
Ministry of Environment & Forests
(IA Division)

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

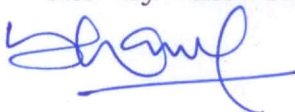
Dated: 6th June, 2011

To
The President (CEO),
Udangudi Power Corporation Ltd.,
TNEB Complex, 144 Anna Salai,
Chennai - 600002.

Subject: Environmental and CRZ Clearance for establishing captive coal jetty for 2 x 800 MW upgrading Super Thermal Power Project at Udangudi, Thoothukudi District, Tamil Nadu by M/s. Udangudi Power Corporation Ltd. -Reg.

This has reference to your application No: 359/DGM/C&GI/UPCL dated 21.12.2010 and 31.03.2011 seeking prior Environmental and CRZ Clearance for the above project under the EIA Notification - 2006 and Coastal Regulation Zone (CRZ) Notification, 1991/2011. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification - 2006 and Coastal Regulation Zone Notification, 1991/2011 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, recommendation of State Coastal Zone Management Authority, 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 5th - 6th April, 2011 and on 11th -12th May, 2011.

2. It is interalia, noted that the proposal involves establishing captive coal jetty for 2 x 800 MW upgrading Super Thermal Power Project at Udangudi. The Udangudi Power Corporation Limited, a joint venture of TANGEDCO (successor to Tamil Nadu Electricity Board) and Bharat Heavy Electricals Limited, is establishing 2x800 MW Super Critical Thermal Power Project (A CDM Project) at Udangudi, Thoothukudi District, Tamil Nadu. Tamil Nadu Government has alienated 305 ha of Government land and administrative sanction has been accorded for compulsory acquisition of 114 ha of private lands and the final Gazette Notification for taking over of land is being published. The project site is 1.2 Km away from the HTL on East coast. The Feasibility Report for establishment of the Coal Jetty and Pipe Conveyor has been carried out by the IIT-M, Chennai. The Mathematical Modelling Studies for the Cooling Water intake & out fall systems and Coal Jetty have been carried out by the National Institute of Oceanography, Goa (NIO). The



comprehensive Marine Environmental Impact Assessment and Environmental Management Plan (Marine EIA & EMP) has been done by the Institute of Ocean Management, Anna University, Chennai. The Centre of Advance Study in Marine Biology, Annamalai University has undertaken the Marine Environmental Survey for the Project. Based on the above studies, the location of the cooling water intake and outfall pipelines are proposed at 5.4 km and 1.06 km respectively from the shore. The Coal Jetty has been proposed at 7.5 Km from the shore. The Coal Jetty will have two berths at 15m depth at sea and designed to handle Panamax vessels for unloading coal. To avoid coal spillage and dust pollution, it is proposed to establish Pipe Conveyor system from the Coal Jetty to the Power Plant by providing trestles with height 6m to 8m. No ash or ash water is let into the sea. Since the Power Project is proposed with Cooling Towers for circulation water system, 13,790 m³/hr make up water will be drawn from Sea (including water for OM plant). About 7,800 m³/hr of blow down water will be let into the sea to maintain the cycle of concentration at 1.30. R.O reject of about 1,090 m³/hr will be mixed and diluted with the blow down water and let into the sea. NIO, Goa has considered intake of 21000 m³/hr and outfall discharge of 13500 m³/hr for the model studies. 5.0. CRZ mapping has been completed by IRS (Anna University, Chennai). There is no mangroves and sand dunes in the project area. There is no coral reef, pearl bank within 10 km from the disposal point.

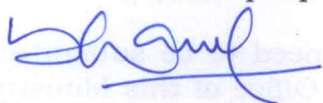
3. The proposal was considered by the EAC in its meeting held on 20th -22nd July, 2009 and finalised ToR. The Public Hearing for the Power Project including the Coal Jetty component was held on 07.02.2009. The State Coastal Zone Management Authority (SCZMA) has recommended the infrastructural facilities in CRZ area (Coal Jetty, Pipe Conveyor, Cooling Water intake and outfall systems) to the Ministry vide letter no. 17249/EC-3/2009 dated 12.10.2009. Tamil Nadu Maritime Board has given in-principle approval for establishing Coal Jetty, Pipe Conveyor and Cooling Water intake & out fall systems on 06.07.2009. The Government of Tamil Nadu has notified the Minor Port at Udangudi for the captive use of UPCL to handle coal vide G.O.Ms.No.282 (Highways & Minor Ports (HF2) Department dt.16.09.2010.

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 Environmental and CRZ Clearance for the project. Accordingly, the Ministry hereby accord necessary Environmental Clearance for the above project as per the provisions of Environmental Impact Assessment Notification - 2006 and Coastal Regulation Zone Notification, 2011, subject to strict compliance of the terms and conditions as follows:



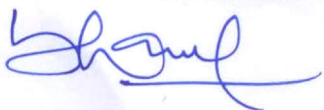
5. SPECIFIC CONDITIONS :

- (i) The jetty shall be of adequate size to facilitate deployment of equipment connected with repair and maintenance of the material handling equipment planned for cargo operations.
- (ii) Lighting of trestle (both side) to avoid accident of moving boats shall be provided.
- (iii) The outfall location shall be 1.06 km and intake is at 5.4 m depth 2.05 km, away from the shore line and regular monitoring of dispersion of the effluent shall be carried out to ensure no adverse impact to the neighbouring eco-sensitive environments.
- (iv) The gap between the trestle supports (piles if it is a piled structure) shall be a minimum of 30 m and 7.0 m height to facilitate navigation/movement of fishing and other such vessels.
- (v) Oil Spill Contingency Management Plan including necessary oil spill combating equipment like tug with booms and skimmer and sorbent pads shall be provided as appropriate.
- (vi) Sea bed levels shall be regularly monitored at the location of trestle.
- (vii) Protective measures for the piles /foundation against hitting of moving boats shall be provided.
- (viii) Tugs to be provided shall have dual functions-one for navigation purposes and the other for firefighting operations.
- (ix) A copy of the DPR shall be submitted to the Ministry in due course so as to have full details of the proposed facilities and their impact on marine environment.
- (x) No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (xi) 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.
- (xii) 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.
- (xiii) 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) Adequate provision for infrastructure facilities including water supply, fuel and sanitation must be ensured for construction workers during the construction phase of the project to avoid any damage to the environment.
- (ii) Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.
- (iii) 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.
- (iv) 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.
- (v) Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.
- (vi) Full support shall be extended to the officers of this Ministry/Regional Office at Bangaluru 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.
- (vii) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bangaluru regarding the implementation of the stipulated conditions.

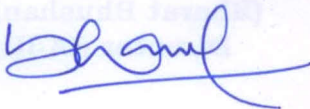


- (viii) Ministry of Environment & Forests or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.
- (ix) The Ministry reserves the right to revoke this clearance if any of the 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) The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.
- (xii) A copy of the clearance letter shall be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/representation has been made received while processing the proposal.
- (xiii) 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 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 Bangaluru.

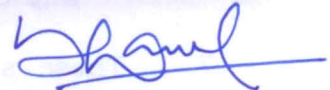


10. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.

11. Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.

12. 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.

13. 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)

06.06.2011

Copy to:

- 1 The Principal Secretary, Department of Environment and Forests, First Floor, Panagal Building, Saidapet, Chennai - 600 015, Tamil Nadu.
- 2 The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32.
- 3 The Director, Department of Environment, Government of Tamilnadu, Panagal Building, Ground Floor, Saidapet, Chennai-15.
- 4 The Chairman, Tamil Nadu Pollution Control Board, No. 76, Mount Salai, Gundy, Chennai.
- 5 The Chief Conservator of Forests, Ministry of Environment and Forests, Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No. 3, Ravishankar Nagar, Bangalore - 462016.
- 6 Guard File.
- 7 Monitoring Cell.

(Bharat Bhushan)
Director (IA-III)