

F.No. 11-44/2011-IA-III
Government of India
Ministry of Environment & Forests
(IA Division)

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


Dated: 9th April, 2012

To,
M/s NCC Power Projects Ltd,
NCC House, 6th Floor, S.No. 64, Madhapur,
Hyderabad-500 081.

Subject: CRZ clearance for construction of seawater Intake and outfall pipeline facilities, coal corridor, bridge over Buckingham Canal, Power evacuation Corridor and approach road from Painapuram, Nellore District, Andhra Pradesh by M/s NCC Power Projects Ltd -Reg.

This has reference to letter No: 636/CZMA/2011 dated 04.06.2011 seeking prior CRZ Clearance for the above project under the Coastal Regulation Zone (CRZ) Notification, 2011. The proposal has been appraised as per prescribed procedure in the light of provisions under the Coastal Regulation Zone Notification, 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 meeting held on 13th - 15th July, 2011.

2. It is interalia, noted that the proposal involves construction of seawater Intake and outfall pipeline facilities, coal corridor, bridge over Buckingham Canal, Power evacuation Corridor and approach road from Painapuram, Nellore District, Andhra Pradesh. NCC Power Projects Ltd is setting up a 2 x 660 MW supercritical thermal power project near Krishnapatnam in the villages of Eduru, Pynampuram, Sivaramapuram and Anantapuram villages in Muthukur and T.P. Gudur mandals of SPSR Nellore District. The total area of the plant site is 1015 acres (865 Acres for the Main Plant & 150 Acres for the Coal- corridor, Sea Water piping, approach road & township). The distance of seaward boundary from the project site is 550 m, Buckingham Canal flows at a distance of 100 m to the west of the project boundary and traverses in North-South direction and the Barren land on the north of the project. The general elevation of the main plant area varies between 2.0 m to 6.0 m above MSL and it is a more or less a flat plain and sandy terrain. The entire Power Plant facility is located outside the CRZ area. The Land Fall Point (LFP) is located



at Latitude 140 21' 45.69" N and Longitude 800 10' 09.55" E which is in the north eastern part of the coastal front.

3. The requirement of seawater for cooling and processing purposes is 3,08,880 cum per day (12,870 cum/hour). The seawater intake well is located at a distance of 2,000 m from the shoreline at (-) 7.6 m depth of water. The water will be transported through submarine pipeline of 2000 mm diameter. The coordinates of the intake system is 140 21' 45.93" N Latitude, 800 11' 18.53" E Longitude. The quantum of warm water released into the sea is indicated as 2,33,760 cum per day (9,740 cum/ hour). The outfall diffuser will be located at a distance of 1000 m from the Shoreline at 6.0 m depth and conveyed through 1800 mm diameter submarine pipeline provided with multiple port (10X500 mm dia) diffuser arrangement system to facilitate dissipation of temperature. The coordinates of the outfall system is 140 21' 45.82" N Latitude, 800 10'45.93" E Longitude. Desalination plant will be set up to meet sweet water requirement. The estimated quantum of discharge from the Desalination plant into the sea is 24,000 cum per day (1,000 cum/hour). The coal conveyance corridor crosses the Nelatur creek and enters into the plant site at the SE with Latitude 140 19' 35.31" N, Longitude 800 8'4.82" E. An approach road to the plant site is proposed from Painapuram Village at Latitude 140 20' 21.67" N, Longitude 800 8'5.42" E. The pipelines are laid through the dedicated corridor earmarked for this purpose and the Land Fall Point is planned in such a way to avoid disturbance to the sand humps. The operational constructions for Thermal power plants, which includes Construction of seawater Intake, and Outfall pipeline facilities, Coal Conveyor Corridor, Bridge over Buckingham Canal, Approach road to the Plant site and Power Evacuation Corridor Total project cost is Rs 7046.9 Cr.

4. The Institute of Remote Sensing, Anna University, Chennai has carried out the demarcation of LTL, HTL and CRZ. The area earmarked for the proposed power project does not fall or contain any environmentally sensitive and important ecosystem in its vicinity. The entire Power Plant facility is located outside the CRZ area. The area of intake and outfall of corridor within CRZ is 16.65 acres. The coverage of CRZ area for approach road is 5.08 acres. The length of coal corridor in CRZ is 44.76 acres. The development area does not fall or contain in its vicinity, any environmentally sensitive and important ecosystem. Public hearing for the Power project was conducted on 6/1/2010 and Ministry of Environment and Forests, has accorded environmental clearance to the proposed power project. The Company has also obtained Consent to establish from Andhra Pradesh Pollution Control Board.



5. The Andhra Pradesh Coastal zone Management Authority has recommended the project vide letter dated 636/CZMA/2011 dated 04.06.2011.

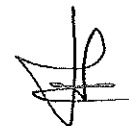
6. The Expert Appraisal Committee, after due consideration of the relevant documents submitted by the project proponent and additional clarifications furnished in response to its observations, have recommended for the grant of Environmental and CRZ Clearance for the project. Accordingly, the Ministry 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:

7. SPECIFIC CONDITIONS :

- (i) "Consent for Establishment" shall be obtained from State Pollution Control Board under Air and Water Act and a copy shall be submitted to the Ministry before start of any construction work at the site.
- (ii) A revised map showing the coordinates of HTL, 200m line, 500m boundary at discrete intervals 25m/50m etc as appropriate shall be submitted to the Ministry prior to commencement of the work, in place of mere lines shown in the map prepared by authorized agency so as to enable verification of installations and compliance thereof on the ground later when the work is in progress.
- (iii) Periodic monitoring of water quality in terms of temperature, chlorine content if applicable, salinity etc at the outfall location shall be carried out. If the impact of temperature and salinity is found significant in future, necessary remediation measures shall be taken by extending the outfall as well as the intake lines and/or providing augmentation in inland cooling facilities
- (iv) The proposed village road shall be extended up to seashore in order to provide access to the public to the seafront.
- (v) Recreational park/ Amusement park, approach road etc for public use shall be developed in consultation with user community.
- (vi) Installation of trash bar/screen shall be put in place at the intake well to avoid fish entrapment.



- (vii) The intake and outfall shall be buried pipelines and no open channel/cutting is permissible in CRZ areas.
- (viii) The outfall pipe shall be extended further by at least by 200m into the sea and also it shall be ensured that the intake is properly located to avoid any re-circulation.
- (ix) The proponent shall commit himself to be one of the partners/ proponents (who have undertaken/will be undertaking similar power projects in the close proximity of site) as and when instructed by the MOEF/State government authorities in preparing an comprehensive EIA report comprising both terrestrial/ marine EIA components for the region and share the cost of the study and proposed mitigation measures for the coastal stretch as decided by the authorities in the interest of protecting the environment in its entirety.
- (x) Best possible dredging technology shall be adopted to minimize coastal impact Zero discharge from ash pond shall be ensured as proposed.
- (xi) All the conditions laid by the State level Committee shall be strictly adhered to.
- (xii) Construction activity shall be carried out strictly as per the provisions of CRZ Notification, 2011. No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (xiii) The project shall be executed in such a manner that there shall not be any disturbance to the fishing activity.
- (xiv) It shall be ensured that there is no displacement of people, houses or fishing activity as a result of the project.
- (xv) 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.
- (xvi) The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.



8. GENERAL CONDITIONS:

- (i) Appropriate measures must be taken while undertaking digging activities to avoid any likely degradation of water quality.
- (ii) Full support shall be extended to the officers of this Ministry/Regional Office at Bengaluru 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.
- (iii) A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry at Bengaluru regarding the implementation of the stipulated conditions.
- (iv) 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.
- (v) The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.
- (vi) 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.
- (vii) 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.
- (viii) 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.
- (ix) State Pollution Control Board shall display a copy of the clearance letter at the Regional Office, District Industries Centre and Collector's Office/Tehsildar's office for 30 days.

9. 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.



10. 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.

11. 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.

12. 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.

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

14. A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/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.

15. 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.

16. 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.


(Lalit Kapur)
Director (IA-III)

Copy to:

- 1 Smt Janaki R.Kondapi, Chairman, Andhra Pradesh Coastal Zone Management Authority, IAS, Special Chief Secretary to Government,

- E.F.S & T. Department Government of Andhra, Pradesh Secretariat,
Hyderabad- 500 002
- 2 The Chairman, CPCB, Parivesh Bhawan, CBD-cum-Office Complex,
East Arjun Nagar, Delhi - 32.
 - 3 The Member Secretary, Andhra Pradesh Coastal Zone Management
Authority, IAS, Special Chief Secretary to Government, E.F.S & T.
Department Government of Andhra, Pradesh Secretariat, Hyderabad-
500 002
 - 4 The Chairman, Andhra Pradesh Pollution Control Board, Paryarana
Bhawan, A-III, Industrial Area , Sanathnagar, Hyderabad - 500 018,
Andhra Pradesh.
 - 5 The C.C.F., Regional Office (SZ), Ministry of Environment & Forests,
Kendriya Sadan, IV Floor, Environment & Forests Wings, Office (SZ),
7th Main Road, II Block, Koramangala, Bangalore - 560 034.
 - 6 Guard File.
 - 7 Monitoring Cell.

(Lalit Kapur)
Director (IA-III)