

F.No.11-25/2013-IA-III
Government of India
Ministry of Environment & Forests

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

Dated: 10th May, 2013

To
The Site Director,
M/s Koodankulam Nuclear Power Project,
Radhapuram Taluk, Kudankulam (P.O.),
Tirunelveli District, Tamil Nadu - 627 106

Subject: CRZ Clearance for setting up of the Desalination plant at Kudankulam, Radhapuram Taluk, Tirunelveli District by M/s Koodankulam Nuclear Power Project - Reg.

This has reference to your proposal forwarded by Additional Chief Secretary, Forests & Environment Department, Govt. of Tamil Nadu vide letter No. 28/EC3/2013-1 dated 04.02.2013 seeking prior CRZ Clearance for the above project under the CRZ Notification, 2011. The proposal has been appraised as per prescribed procedure in the light of provisions under the CRZ Notification, 2011 on the basis of the mandatory documents enclosed with the application viz., the Questionnaire, recommendation of State Coastal Zone Management Authority, 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 25th - 26th March, 2013.

2. It is interalia, noted that the the project was granted clearance on 9.5.1989 prior to the CRZ Notification, 1991. Prior to 1991, there were guidelines/ restrictions on development within 500m along Coast. On 19.4.1989, when the then Prime Minister approved an exemption of the 500 metre norm specifically for the Kudankulam project, fresh water was proposed to be drawn from Pechiparai Dam, which is situated at about 65Km from the plant site. However, in view of the involvement of forest areas as well as apprehensions expressed by the local villagers on withdrawal of the water from Pechiparai Dam that the rapidly depleting and scarce natural resource in the drought prone regions of Kanyakumari and Tirunelveli Districts may hamper the irrigation and their livelihood, NPCIL decided in the year 2004 to establish a desalination plant to provide adequate fresh water supply for domestic water requirements and for the plant. Desalination plant was established as an ancillary system of the total project. On 17.1.2006, NPCIL informed the Tamil Nadu Pollution Control Board (TNPCB) for inclusion of this facility which was not included in the original application for Consent to operate. TNPCB considered this aspect and accorded "Consent to Operate" on 28.8.2012, which includes the desalination plant as well. Desalination plant is a permissible activity within the CRZ area.

3. The Desalination plant functions on Distillation (Mechanical Vapour Compression) principle. Seawater will be drawn from the sea and will be fed to the Desalination plant. At KKNPP the desalination plant consists of four streams each having a capacity of 106.66 Cubic meter per hour. Out of the four installed



streams, only three will be operating and one will be in standby mode. Cumulative feed flow for all three operating streams is 670 Cubic meter per hour and cumulative reject flow is 350 Cubic meter per hour, balance 320 cubic meter per hour is purified water. There will be generation of brine reject from the desalination process. The reject is nothing but the concentrated seawater, which remains after desalination process and does not contain external elements. The rejects will have concentration of 69,000 parts per million (ppm) which will be mixed with condenser cooling water of 2,50,000 cubic meter per hour and discharged through the outlet channel in sea. This would give a dilution of 700 times and reduce the reject to the ambient seawater concentration of 35,000 parts per million.

4. The Tamil Nadu SCZMA has recommended the project vide letter No. 28/EC3/2013-1 dated 04.02.2013.

5. 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, 2011, subject to strict compliance of the terms and conditions as follows:-

6. SPECIFIC CONDITIONS:

- (i) "All the condition stipulated by the Pollution Control Board as well as Tamil Nadu CZMA shall be complied with.
- (ii) Periodical monitoring of the sea water quality near the outfall shall be monitored.
- (iii) No construction work other than those permitted in Coastal Regulation Zone Notification shall be carried out in Coastal Regulation Zone area.
- (iv) All the recommendation of the EMP shall be complied with letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF along with half yearly compliance report to MoEF-RO.
- (v) 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.
- (vi) The funds earmarked for environment management plan shall be included in the budget and this shall not be diverted for any other purposes.

7. GENERAL CONDITIONS:

- (i) 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.

- (ii) 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.
- (iii) 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.
- (iv) The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.
- (v) 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.
- (vi) 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.
- (vii) 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.
- (viii) State 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.

8. 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.

9. 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.

10. 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 CRZ 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.

11. This 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.



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

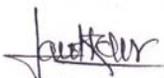
13. Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

14. 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.

15. The proponent shall upload the status of compliance of the stipulated Clearance 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 project proponent shall also submit six monthly reports on the status of compliance of the stipulated Clearance 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.

17. 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 Clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.


(Lalit Kapur)
Director (IA-III)

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 – 110032.
- (3) The Director, Department of Environment, Government of Tamilnadu, Panagal Building, Ground Floor, Saidapet, Chennai-15, Tamil Nadu.
- (4) The Chairman, Tamil Nadu Pollution Control Board, No. 76, Mount Salai, Gundy, Chennai, Tamil Nadu.
- (5) The CCF, Regional Office, MoEF (SZ), Kendriya Sadan, IVth floor, E&F wings, 17th Main Road, Koramangala II Block, Bangalore – 560 034.
- (6) Guard File.
- (7) Monitoring Cell.

(Lalit Kapur)
Director (IA-III)