

No. J-14011/1/2007-IA.II(T)
Government of India
Ministry of Environment & Forests

BY SPEED POST

Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110 003

To

Dated: 23rd September, 2008

M/s Nuclear Power Corporation of India Limited
C-2-7, Nabhikiya Urja Bhawan
Anushaktinagar,
Mumbai- 400 094.

**Sub: Kudankulam Nuclear Power Project Expansion Units 3 & 4
(2x1000 MW) at Kudankulam, Tamil Nadu by M/s Nuclear Power
Corporation Ltd – Environmental clearance regarding.**

The undersigned is directed to refer to your communication no. NPCIL/KK 3&4/M/2007/16 dated 18.2.2007 regarding the subject mentioned above. Subsequent information furnished vide letter No.KKNPP/PD(KK 3 & 4)/2008/S/195 dated 30.5.2008 has also been considered.

2. It is noted that the proposal is for grant of environmental clearance for expansion of existing Nuclear project (2x1000 MW) by adding 2x1000 MW units 3 & 4. The land required for locating the proposed unit is already available within the Kudankulam Nuclear Power Complex and no additional land would be acquired for expansion project. The water for the condenser cooling system will be drawn from the sea and the sweet water requirement will be met from the desalination plant. It has been stated that no forestland is involved in the project. The Gulf of Mannar Marine National Park is about 87 km from the site; however, Gulf of Mannar Biosphere Reserve Boundary is at a distance of about 20 -50 m. No displacement of population is envisaged. The project is stated to be located in CRZ-III. It is noted that an exemption from 500 m norm in respect of CRZ for the Kudankulam Power Project was obtained from the Govt. of India as far back as in 1989. The public consultation was held on 2.6.2007. Total cost of the project is Rs 14000.00 crores, which includes Rs 307.5.00 crores for environmental protection measures.

3. The proposal has been considered in accordance with para 12 of the EIA Notification, 2006 read with para 2.2 sub clause 2.2.1 (i) (a) of circular no. J-11013/41/2006-IA-II(I) dated 13.10.2006 and the Ministry of Environment & Forests

hereby accords environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:-

- (i) On-line continuous monitoring of the temperature of the discharged cooling water shall be carried out at the discharge point. It shall be ensured that the temperature differential of the discharged water w.r.t. the receiving water does not exceed 7^o C at any given point of time.
- (ii) Necessary prior clearance under the provisions of CRZ Notification, 1991 for the activities to be located in CRZ shall be obtained from the Competent Authority.
- (iii) No additional land shall be acquired for any activity/ facility of project.
- (iv) AERB clearance for the site shall be obtained before starting any construction work and a copy of the same shall be provided to the Ministry of Environment & Forests.
- (v) A scheme for rain water harvesting shall be prepared in consultation with an expert agency/ State Ground Water Board and details furnished within 3 months of the issue of the environment clearance letter.
- (vi) Greenbelt shall be developed all around the project boundary covering an area of 180 ha preferably with local species.
- (vii) Noise levels shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided.
- (viii) Regular monitoring of conventional gaseous pollutants, radioactive pollutants in the air as well in the discharged water shall be monitored regularly as per AERB standards.
- (ix) Regular monitoring of ambient air quality shall be carried out in and around the power plant and records maintained. The location of the monitoring stations and frequency of monitoring shall be decided in consultation with SPCB. Periodic reports shall be submitted to the Regional Office of this Ministry. Besides air quality, water, food samples and soil shall also be monitored regularly for radioactive levels in the surrounding areas and records maintained.
- (x) A Disaster Management Plan and Emergency Preparedness Plan shall be prepared and put in place as per the norms of AERB. Regular mock drills shall be undertaken and based on the same, any modification required, if any, shall also be incorporated.
- (xi) The radioactive waste shall be managed as per the norms prescribed by AERB.
- (xii) The non radioactive waste water generated from the plant premises will be suitably treated in STP and the treated effluents shall be recycled and reused within the plant premises for greenbelt etc.
- (xiii) The radioactive liquid waste emanating from the plant will be treated and managed as per the guidelines of AERB/ICRP in this regard.

- (xiv) 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.
- (xv) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.
- (xvi) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xvii) Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/ Regional Office/CPCB/SPCB.
- (xviii) 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 and Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring.
- (xix) Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
- (xx) Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Chandigarh /the CPCB/the SPCB who would be monitoring the compliance of environmental status.
4. The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. MOEF may impose additional environmental conditions or modify the existing ones, if necessary.
5. The environmental clearance accorded shall be valid for a period of 5 years to 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.

8. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.


(Dr. S.K. AGGARWAL)
DIRECTOR

Copy to:-

1. The Secretary, Department of Atomic Energy, Anushakti Bhawan, Mumbai.
2. The Secretary, Department Environment & Forests Department, Secretariat Chennai- 600 009.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.
4. 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.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
6. 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.
7. The Director (EI), MOEF.
8. Guard file.
9. Monitoring file.


(Dr. S.K. AGGARWAL)
DIRECTOR