

पर्यावरण मन्त्र,
PARYAVARAN BHAWAN, C.O.O. BLDG.
लोदी रोड, नई दिल्ली-110003
LODI ROAD, NEW DELHI-110003

09
Dated 4th May, 1989.

J-14011/1/88-IA

OFFICE MEMORANDUM

Subject: Nuclear Power Station at Kudamkulam in
Tamil Nadu (2x1000 MW)

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The above proposal has been examined.

2. Approval of this Ministry from environmental
angle is accorded subject to the following conditions:-

- (i) Special exemption from the present ban on undertaking any construction within 500 metres from high tide line (HTL) is accorded to this project subject to the condition that (a) in such area only the plant and essential associated structures may be put up and nothing else should come up in this area; (b) attempts should be made to keep such construction within 500 metres of high tide line as far way from high tide line as possible; (c) adequate measures and environmental safeguards will be taken for ensuring preservation of the ecology of the beach; (d) since this area has been declared as a bio-sphere reserve, the project authorities should take special precautions to avoid any damage to the coral reefs or changes in the water quality near the shore; and (e) an Environmental Management Plan (EMP) for the area upto 500 metres from HTL should be submitted to this Ministry for review.
- (ii) The temperature of the condenser water should not exceed 5° C over and above the ambient temperature of the water at the point of discharge in the sea.
- (iii) The liquid effluents emanating from the different plants of the power station should be treated to conform to the standards stipulated by Central/State Pollution Control Board and International Commission for Radiological Protection (ICRP)/AERB. Steps should be taken to prevent ground water

pollution. Adequate number of coastal water quality monitoring stations should be setup.

- (iv) Radio-active wastes (solids and semi-solids) generated during various operations, both low level and high level, should be properly treated and disposed of after proper containment to fix the radio-activity as per the standards/guidelines prescribed by ICRP/AERB.
- (v) No radio-active emissions, fugitive or otherwise, will be permitted beyond the safety standards prescribed by AERB.
- (vi) The location/alignment of the off-shore berth/jetty should be selected in such a way that no damage is caused to the coral reefs. Such construction should be kept at the minimum.
- (vii) The route of the pipeline from Pechiparai reservoir to the Power Station should preferably be so selected that it does not affect forest areas.
- (viii) Efforts should be made to avoid forest areas to be affected due to the proposed transmission corridors and power evacuation system.
- (ix) Adequate precautionary measures should be taken in transportation of radioactive fuel/spent fuel/radioactive wastes, in/out of the country.
- (x) Periodical environmental surveillance and monitoring for radioactive emissions should be undertaken for measuring radioactivity and record maintained.
- (xi) Necessary steps may be taken for educating local people about the project to allay their apprehensions due to the proposed power station.
- (xii) All the vacant lands within the project zone should be afforested with a tree density of 1000 per acre. The type of tree species should be so selected that they will be able to give maximum density of canopy.
- (xiii) From the initial stages of the project the environmental surveillance and monitoring of this particular area including the health status of the population around the power station location should be carried out and records maintained. This activity should continue in future also.

(xiv) On-site and off-site Disaster Management Plan (DMP), should be prepared as per the guidelines stipulated by ICRP/AERB and approved by the National Emergency Response Committee (NERC) of Department of Atomic Energy, Government of India.

(xv) Necessary approval under the Forest (Conservation) Act, 1980 and the Wildlife (Protection) Act, 1972 will be obtained, when applicable.

(xvi) A committee will be set up by the Department of Atomic Energy consisting of Additional secretary, Department of Atomic Energy, Additional Secretary, Ministry of Environment and Forests, Project Director, Kudankulam Atomic Power Project, representative of AERB, Director NEERI, representative of Government of Tamil Nadu and two prominent public persons for review of the rehabilitation programmes, environmental protection measures and public awareness concerning the project.

(xvii) A detailed rehabilitation plan should be prepared covering the affected persons within a radius of 2 kms exclusion zone. It will also be necessary to provide for some package of benefits for the people residing in the sterilised zone as there will be some restriction on the activities of this area. These should be submitted to this Ministry for review after examination by the Committee.

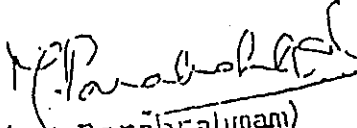
3. There should be an environmental cell with suitable personnel and a laboratory in the project.

4. Adequate financial provisions should be made for implementation of the above conditions.

5. Conditions may be varied or new conditions imposed in the interest of environmental protection.

6. The stipulations will be implemented among others, under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution)

Act, 1981 and the Environment(Protection) Act, 1986.


(M. Parābralanam)
Director

Secretary,
Department of Atomic Energy
Government of Maharashtra,
Anushakti Bhavan,
BOMBAY

Copy to:-

1. Shri S.L. Kati,
Managing Director,
Nuclear Power Corporation
Homi Bhabha Road, Colaba
Bombay- 400005
2. Secretary,
Environment Control Department,
Government of Tamil Nadu,
Fort St. George,
Madras- 600009
3. Chairman,
Pollution Control Board,
Madras.
4. Chief Conservator of Forests
Southern region,
Bangalore.
5. Shri B.S. Parsheena,
Monitoring Cell,
Ministry of Environment and Forests,
6. Guard File.

No. J.F.(011)/2001-CA.11(01)
 Government of India/Bharat Sarkar
 Ministry of Environment and Forests
 (Paryavaran Aur Van Vibhag)

Paryavaran Bhavan,
 C.G.O. Complex,
 Lodi Road,
 New Delhi-110003.

September 6, 2001.

**Subject: 2x1000 MW Kudankulam Atomic Power Plant,
 Kalhaporam Taluka, Tamilnadu of M/s Nuclear Power
 Corporation.**

This has reference to communication No. NPCIL/DIR/KK/2001/M/945 dated 7th August, 2001 enclosing amongst others the communication dated 21st June, 2001 from Tamil Nadu Pollution Control Board regarding the above mentioned project.

Ministry has noted the chronology of events of appraisal of the project, the progress made on implementation of the project, both in construction activities as well as the compliance to stipulations made in our environmental clearance letter of even number dated 9th May, 1989. The undersecretary has also visited the site on 31st August, 2001. It was observed during the visit that land acquisition has been completed and construction work on various components such as township, Environmental and Health Research Centre, RO Plant etc. is in progress. The afforestation programme undertaken by I.I.S. Swaminathan Research Foundation for introduction of crop varieties with greater tolerance to salinity and enhancement of soil fertility and crop productivity including reclamation of saline soils in coastal area was also taken note of. In pursuance of the discussions at site, NPCIL has submitted vide its letter of 5th September, 2001 details of expenditure and commitment made till August, 2001 to the tune of Rs. 3777.36 lakhs for Kudankulam Atomic Power Project.

Keeping in view the steps already taken to implement the project, the environmental clearance issued in May, 1989 stands valid and there is no need to conduct public hearing and seek fresh environmental clearance. The

project authorities, however, should ensure strict compliance of terms and conditions of environmental clearance. It is also requested that progress on the project be regularly submitted to the Ministry for monitoring purposes.

N.B.
(Nalini Bhat)
Director

Shri S.K. Jain,
Director (KK-LWR),
Nuclear Power Corporation,
Kudankulam Directorate,
New NPCIL Building, 3rd floor,
Entrance Block, Anu Shakti Nagar,
Mumbai-400 094.

Copy to :

1. Smt. Sheela Rani Chankathi, Chairperson, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
2. Shri S. Kumaraswamy, Tehsildar, Revenue Department, Radhapuram, Tamilnadu.

(Nalini Bhat)
Director