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भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS
पर्यावरण भवन, सी. जी. ओ. कॉमप्लेक्स
PARYAVARAN BHAWAN, C.G.O. COMPLEX
लोदी रोड, नई दिल्ली-110003
LODI ROAD, NEW DELHI-110003

No. J-14011/6/89/IA-I

January 15, 1993

To

The Managing Director
Nuclear Power Corporation
World Trade Centre
Cuffe Parade
Bombay - 400 005

Subject : Environmental Clearance to Rajasthan Atomic Power Project Units 5-8 (4x500 MW) to be set up at Rawatbhata, Rajasthen.

Sir,

Reference is invited to the above proposal which has been examined and accorded environmental approval subject to effective implementation of the following conditions:

i) All the stipulations of Atomic Energy Regulatory Board (AERB) pertaining to safety and related aspects shall be implemented and it will also be ensured that:

a) The liquid effluents emanating from different plants of the power station are treated to conform to the standards stipulated by Central/State Pollution Control Boards and International Commission for Radiological Protection (ICRP)/AERB.

b) Radio-active wastes (solid and semi-solid) generated during various operations are properly treated and disposed off after proper containment in accordance with the standards/guidelines prescribed by ICRP/AERB.

c) Radio-active emissions, fugitive or otherwise are maintained within the safety standards prescribed by AERB.

d) For transportation of radio-active fuel/wastes, adequate precautions are taken in accordance with the guidelines prescribed by ICRP/AERB.

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e) Adequate steps are taken to prevent ground water pollution and sufficient number of water quality monitoring stations are set up for periodic monitoring.

ii) Action Plans included in the approved environmental Management Plan relating to air, water including ground water, land , noise, solid wastes, socio-economic aspects, green-belt development, forest management and environmental surveillance during as well as post-construction phase shall be implemented as per schedule and reported to the Ministry every six months. Non-compliance may even result in revoking of approval.

iii) The modelling studies in progress regarding mixing of thermal discharges taking into consideration biological aspects should be completed early and the report submitted to MOEF.

iv) Epidemiological/toxicity studies to be undertaken within 20 Kms of the project site to determine baseline status and to ascertain any epidemiological changes arising out of the project. These studies should be completed within one year preceded by a well planned community awareness programme. The report should be furnished to the Ministry of Environment & Forests and the exercise to be repeated periodically.

v) a) For risk assessment, studies at level I, II & III will be carried out taking into consideration available Indian data. Subsequently, data generated from epidemiological/toxicity studies should also be suitably incorporated in risk assessment studies. The report should be submitted to MOEF within one year.

b) Taking into consideration the results of risk assessment at level I, II & III, Disaster Management and Emergency Preparedness Plans will be prepared and submitted to MOEF within one year.

vi) Studies on the decision making and evaluation in environmental impact assessment for minimising ambiguities and uncertainities need to be continued on the basis of recent systems of evaluation including fuzzy set theory and result communicated to Ministry of Environment & Forests within six months.

vii) Close circuit system of cooling shall only be used. The temperature differencial between condenser water at the discharge point and the ambient temperature of the receiving water body shall under no circumstances be more than 5°C and this differential should get dissipated within a thermal wedge of 200 m.

viii) The project authorities shall give a firm commitment about use of make up water which constitutes 2.8%

(6/17)

of originally envisaged withdrawal from Rana Pratap Sagar Reservoir alongwith the water balance figure of the Reservoir including competing commitments during lean months within 45 days.

ix) Reasons for abnormal increase in Tritium levels in lake water during 1982 and 1988 need to be investigated and report incorporating remedial measures should be submitted to MOEF within 2 months.

x) The location and arrangements of the control room should be so planned that in the event of any abnormal leakages of Hydrogen Sulphide Gas from Heavy Water Plant, its habitability is not adversely affected.

xi) Periodical environmental surveillance covering all major parameters and monitoring for radio-active emissions should be undertaken for measuring radio-activity and records maintained.

xii) All the vacant lands within the project zone should be aforested with indigenous species and sufficient tree density.

xiii) Periodic monitoring of the health studies of the workers to assess occupational hazard as well as of the local population in the surrounding areas of the power plant should be carried out and records maintained for taking additional safety measures if so dictated.

2. There should be an environmental cell with suitable personnel and a laboratory at site.

3. Adequate financial provisions should be made itemwise for implementation of the above provisions and there must be no diversion of such specified funds.

4. A Monitoring Committee be set up with the representatives of AERB, State Pollution Control Board, State Department of Environment and atleast two prominent public persons/NGOs of the area to oversee effective implementation on the suggested safeguards and suggest mid-course corrections, if any.

5. NPC will prepare a note on the details of the studies to be undertaken alongwith time-frame for their completion and implementation keeping in view that implementation of the studies has to be done before commencement of the plant. The note should be submitted to MOEF within 45 days.

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.

Yours faithfully,

(S.K. Aggarwal)
Joint Director

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Contd,...4....

Copy to :

1. Secretary, Department of Atomic Energy, Government of India, Anushakti Bhawan, Chatrapati Shivaji Maharaj Marg, Bombay - 400 039.

2. Secretary, Department of Environment, Government of Rajasthan, Secretariat, Jaipur.

3. Scientist Incharge, Regional Office (Western Zone), Ministry of Environment & Forests, E-3/240, Arera Colony, Bhopal - 462 016.

L.W.P
15/11/93

ANNEXURE

No.14011/6/89-IA.I
Government of India/Bharat Sarkar
Ministry of Environment and Forests
(Paryavaran Aur Van Mantralaya)

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

March 1, 2002.

To

Shri P.M. Wagh,
Director (Health, Safety, Environment & Public Awareness).
Nuclear Power Corporation of India Limited,
Vikram Sarabhai Bhavan,
Central Avenues, Anushakti Nagar,
Mumbai-400 094.

Subject : Change of capacity of Units 5 and 6 of Rajasthan Atomic Power Project at Rawatbhata, Rajasthan of M/s Nuclear PowerCorporation of India Limited.

Sir,

This has reference to your letter No.NPCIL/HSE&PA/PMW/M/2001/1848 dated 25th February, 2002 requesting amendment in respect of capacities of Units 5 and 6 at Rajasthan Atomic Power Station (RAPS).

2. It is noted that environmental clearance for installation of four units (5-8) of 500 MW capacity each at RAPP was accorded vide Ministry's letter of even number dated 15th January, 1993. NPCIL is now proposing to install units 5 and 6 with 220 MW PHWR. It is further noted that

- Due to down sizing in the capacity from 500 MW to 220 MW, there will be reduction in land and water requirement as also the radiological releases.
- Existing facilities would take care the requirements of process waste arising from these units.
- The type of reactor is the same as originally envisaged i.e. PHWR.

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- Land required for the project and its exclusion zone has already been acquired

3. - Keeping in view the above, Ministry has no objection to the installation of two units (5 and 6) of 220 MW capacity each subject to implementation of safeguard measures stipulated in the clearance letter.

Yours faithfully,

(Nalini Bhat)
Director

Copy for information to :-

1. The Chairman and Managing Director, Nuclear Power Corporation of India Limited, Vikram Sarabhai Bhavan, Central Avenues, Anushakti Nagar, Mumbai-400 094.

2. The.Chief Conservator of Forests, Regional Office, Western Region, Ministry of Environment and Forests, E-3/240, Arera Colony, Bhopal-462 016.

(Nalini Bhat)
Director

J-14011/6/89-IA.II
Government of India
Ministry of Environment & Forests

Paryavaran Bhavan,
CGO Complex, Lodi Road,
New Delhi-110003.
Tel./Fax: 2436 2434

Dated the 21st October, 2003

To

The Chief Conservator of Forests (C),
Ministry of Environment & Forests,
Regional Office (CZ),
Kendriya Bhawan, C.G.O. Complex,
5th Floor, Sector-H,
Aliganj, Lucknow – 226 024

Sub: Rawatbhata Atomic Power Project, Units 5-8 – Regarding.

Sir,

Reference is invited to the letter no. IV/ENV/Thermal-7/45/93/729 dated 6th August , 2003 from Dr. P.B. Rastogi, Additional Director regarding the above mentioned project. In this regard, it may be informed that the proposal of Nuclear Power Corporation to install units 5 and 6 with reduced capacity of 220 MW each was agreed to by this Ministry vide letter of even no. dated 1st March, 2002 (copy enclosed). This is for your information, records and further necessary action.

Yours faithfully,

Encl.: As above.

(S.K. Aggarwal)
Director

Copy to:-

Shri P.M. Wagh, Director (Heath, Safety, Environment & Public Awareness), Nuclear Power Corporation of India Ltd., Vikram Sarabhai Bhawan, Central Avenue, Anushakti Nagar, Mumbai-400 094.

(S.K. Aggarwal)
Director