

BY SPEED POST

No.J-13011/58/2006-IA-II (T)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110003

Dated: 20th July, 2007

To

The Director
Raj West Power Ltd.,
308 - 311, Geetanjali Tower,
Ajmer Road, Jaipur- 302 006

**Sub: 1000 MW (8x125 MW) Lignite based Thermal Power Plant at
Barmer, District Barmer, Rajasthan of M/s Raj West Power Ltd -
Environmental Clearance - regarding.**

Sir,

The undersigned is directed to refer to your communication no. RWPL/MOEF/528 dated 25.11.2006 on the above mentioned subject. Subsequent information furnished vide letter no. RWPL/Project/06-07/712 dated 22.02.2007 has also been considered.


2. It is noted that the proposal is for grant of environmental clearance under the provisions of EIA Notification, 1994 for setting up of a 1000 MW (8x125MW) lignite based power plant at Barmer, Rajasthan. The land requirement for the project is 468 ha. It is a pit head power station. Lignite requirement is estimated as 7.00 million TPA which will be obtained from adjacent mines and transported through conveyor belt. Lime requirement will be 0.7 million TPA for the project which will be obtained from the mines in Jaisalmer and will be transported by road. The water requirement is estimated as 35.5 cusecs, which will be obtained from Indira Gandhi Canal at Mohangarh at a distance of 184 km through pipeline. CFBC boilers with lime injection will be provided. There is no displacement of people due the project; however land oustees are involved. Public hearing was held on 16.10 2006. Total cost of the project is Rs 4804.00 crores which includes Rs 120.00 crores for environmental protection measures.

3. The proposal has been considered in accordance with para 12 of the EIA Notification dated 14th September, 2006 read with para 2.2.1 (i) (a) of the Circular No. J-11013/41/2006-IA.II(I) dated 13.10.2006. The Ministry of Environment & Forests hereby accords environmental clearance subject to implementation of the following terms and conditions:-

- (i) No land in excess of 468 ha shall be acquired for any activity of the project.
- (ii) The water requirement for the project shall not exceed 35.5 cusecs. No ground water shall be abstracted for any activity of the project.
- (iii) Closed Circuit Cooling System with induced draft cooling towers shall be installed.
- (iv) Treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. No effluents shall be discharged outside the plant boundary
- (v) Lignite with ash content not exceeding 20% and sulphur content not exceeding 2.0% shall be used.
- (x) Space provision for FGD shall be made, if required at a later stage.
- (vii) Four stacks of 122 m height each with exit velocity of at least 20 m/s shall be provided with continuous online monitoring system.
- (viii) Low NOx burners shall be installed.
- (ix) High efficiency Electrostatic Precipitator (ESPs) having efficiency of 99.9% shall be installed so as to ensure that particulate emissions do not exceed 100 mg/Nm³.
- (x) Fly ash shall be collected in dry form and its 100% utilization shall be ensured within 3 years from the day of the commissioning of the plant. Ash to be disposed off in the ash pond shall be through HCSD system.
- (xii) Ash pond shall be lined with 0.5 mm thick HDPE geo-membrane lining.
- (xiii) Details of compensation to be paid to the land oustees along with number of land oustees shall be worked out and submitted to this Ministry within three months from the date of issue of this letter or before the start of work on the project whichever is earlier.
- (xiv) Necessary prior clearance from NHAI shall be obtained before laying the pipeline.

- (xv) Necessary prior clearance from Indian Air Force shall be obtained for construction of stacks of requisite height before starting the work on the project.
- (xvi) Adequate measures shall be taken up to maintain the sanctity and protection from any adverse impact from the proposed power project to the temple of Sant Ishardas Samadhi.
- (xvii) Regular monitoring of ground water quality including heavy metals shall be undertaken in the project area to ascertain the change, if any, in the water quality due to leaching of contaminants from the ash disposal area.
- (xviii) Noise levels shall be limited to 75 dBA. For people working in the high noise area, protective devices such as earplugs etc. shall be provided.
- (xix) A greenbelt shall be developed all around the plant boundary and ash pond covering an area of 154 ha.
- (xx) Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be finalized in consultation with SPCB. Six monthly reports shall be submitted to this Ministry.
- (xxi) For controlling fugitive dust, regular sprinkling of water in lignite handling area and other vulnerable areas of the plant shall be ensured.
- (xxii) The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which should be in the vernacular language of the locality concerned, informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Board/Committee and may also be seen in the Website of the Ministry of Environment and Forests in the <http://envfor.nic.in>.
- (xxii) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
- (xxiv) Half yearly report on the status of implementation of the conditions and environmental safeguards should be submitted to this Ministry, its Regional Office, CPCB and SPCB.
- (xxv) Regional Office of the Ministry of Environment & Forests located at Lucknow will monitor the implementation of the stipulated conditions. Complete set of Environmental Impact Assessment Report and Management Plan along with additional information submitted to this Ministry should be forwarded to the Regional Office for their use during monitoring.

- (xxvi) Separate funds should be allocated for implementation of environmental protection measures along with item-wise break-up. These cost should be included as part of the project cost. The funds earmarked for the environment protection measures should not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
- (xxvii) Full cooperation should be extended to the Scientists/Officers from the Ministry and its Regional Office at Lucknow /the CPCB/the SPCB during monitoring of the project.
4. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.
5. The environmental clearance accorded shall be valid for a period of 5 years to the 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.


 (DR. S.K. AGGARWAL)
 DIRECTOR

Copy to:-

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
2. The Secretary, Deptt. of Forests & Environment, Government of Rajasthan, Secretariat, Jaipur.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.

4. The Chairman, Rajasthan Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur - **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, Regional Office (CZ), Kendriya Bhandar, 5th Floor, Sector-H, Aliganj, Lucknow-226 020, Uttar Pradesh.
7. Director (EI), MOEF.
8. Guard file.
9. Monitoring file.



(Dr. S.K. AGGARWAL)
DIRECTOR