

No. J-13012/52/2006-IA-II (T)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110003

Dated: 17th May, 2007

To

The Director & Vice President
M/s JSW Energy (Ratnagiri) Limited
Ambassador plaza, 1st Floor, Mal Naka
Ratnagiri- 415 612
Maharashtra.

**Sub: 4x300 MW Thermal Power Plant at Jaigad, District Ratnagiri,
Maharashtra of M/s JSW Energy (Ratnagiri) Ltd. - Environmental
clearance reg.**

Sir,

The undersigned is directed to refer to your communication no. Nil dated 06.11.2006 on the above mentioned subject. Subsequent information furnished vide letter dated 27.02.2007 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 1200 MW (4x300 MW) coal based thermal power plant at Jaigad, Maharashtra. The land requirement for the project is 350 ha 11000 TPD of imported coal with sulphur content of 0.6% and ash content of upto 12% will be used. Sea water will be used for cooling system. Water will be drawn by pipeline. Low NO_x burners will be provided. An area of about 120 ha will be used for greenbelt. The discharge water temperature will not be more than 5^o C with respect to the intake water temperature. No ecologically sensitive area is reported within 15 km. Public hearing for the project was held on 12.09.2006. Total cost of the project is Rs 4500.00 crores which includes Rs 181.50 Crores.

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 and environmental clearance is hereby accorded under the provisions thereof subject to implementation of the following terms and conditions:-

- (i) No activities in CRZ area will be taken up without requisite clearance under the provisions of the CRZ Notification, 1991.
- (ii) The detailed study regarding the impact of the project, if any, on Alphanso mango and marine fisheries as recommended in the report of Dr. B.S. Konkan Krishi Vidyapith shall be undertaken. Based on the same, additional safeguard measures as may be required will be taken by the proponent with prior approval of the Ministry of Environment & Forests. A copy of the report will be submitted to the Ministry. The cost towards undertaking the study and implementation of safeguard measures, if any, will be borne by the project.
- (iii) Space provision shall be made for installation of FGD of requisite efficiency of removal of SO₂, if required at later stage.
- (iv) Cooling water blow down will be discharged from the cold water side and not from the hot water side.
- (v) Coal with ash content not exceeding 12% and sulphur content not exceeding 0.6% shall be used.
- (vi) Rain water harvesting should be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rain water harvesting technology within a period of three months from the date of clearance.
- (vii) Two bi-fue stacks of 220 m height each with exit velocity of at least 21 m/s shall be provided with continuous online monitoring system.
- (viii) 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.
- (ix) Fly ash shall be collected in dry form and its 100% utilization shall be ensured from the day of the commissioning of the plant. In case of emergency, fly ash may be disposed in the ash pond through HCSD system. Borrow earth shall not be taken from ash pond area for construction of ash dyke etc.
- (x) Regular monitoring of ground water quality including heavy metals shall be undertaken around ash dyke and the project area to ascertain the change, if any, in the water quality due to leaching of contaminants from ash disposal area.

(xxi) Full cooperation should be extended to the Scientists/Officers from the Ministry and its Regional Office at Bhopal/the CPCB/the SPCB during monitoring of the project.

4. The environmental clearance is subject to the decision of the Hon'ble High Court of Bombay in the W.P. No. 131/06 filed by Ratnagiri Zila Jagruk Manch & Ors Vs Govt of Maharashtra & Ors and any other matter in the Supreme Court /High Court relating to this project.

5. The Ministry reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry.

6. The environmental clearance accorded shall be valid for a period of 5 years to the start of production operations by the power plant.

7. 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.

8. 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.

Yours faithfully,



(DR. S.K. AGGARWAL)
DIRECTOR

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-110001.
2. The Secretary, Department of Energy and Environment, Govt. of Maharashtra, Mantralaya, Mumbai-400032, Maharashtra.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110066.

- (vi) 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.
- (vii) A greenbelt shall be developed all around the plant boundary and ash dyke covering an area of 120 ha.
- (viii) Adequate protection measures shall be taken to protect the Jaigarh Fort, a notified Archeological site, from the adverse impact of the power plant, if any, in consultation with Archeological Survey Of India (ASI).
- (ix) Regular monitoring of the air quality shall be carried out in and around the power plant and records shall be maintained. Six monthly report shall be submitted to this Ministry.
- (x) For controlling fugitive dust, regular sprinkling of water in vulnerable areas of the plant shall be ensured.
- (xi) 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>.
- (xii) A separate environment monitoring cell with suitable qualified staff should be set up for implementation of the stipulated environmental safeguards.
- (xiii) Half yearly report on the status of implementation of the conditions and environmental safeguards should be submitted stipulated to this Ministry, the Regional Office, CPCB and SPCB.
- (xiv) Regional Office of the Ministry of Environment & Forests located at Bhopal will monitor the implementation of the stipulated conditions. A complete set of documents including Environmental Impact Assessment Report and Management Plan should be forwarded to the Regional Office for their use during monitoring.
- (xv) 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.

4. The Chairman, Maharashtra Pollution Control Board, Kalptaru point 3rd & 4th Floor Sion Matunga Scheme, Road No. 8, Opp. Cine Planet Cinema, near Sion Circle, Sion (East), Mumbai-400022 - with 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, Western Regional Office, Ministry of Environment & Forests, E-3/240, Arera Colony, Bhopal-462016.
7. Director (EI), MOEF
8. Guard file.
9. Monitoring file.

(DR. S.K. AGGARWAL)
DIRECTOR