



J 13012/52/2006-IA.II(T)  
Government of India  
Ministry of Environment & Forests

Paryavaran Bhawan  
CGO Complex, Lodi Road  
New Delhi-110 003  
Dated: April 16, 2010

To

M/s JSW Energy (Ratnagiri) Ltd.  
Ambassador Plaza, 1<sup>st</sup> Floor, Mal Naka  
Ratnagiri- 415 612  
Maharashtra.

*Sub: 4x300 MW Coal Based TPP at Jaigad, in Distt. Ratnagiri, in  
Maharashtra - reg. Environmental Clearance.*

Sir,

The undersigned is directed to refer to your letter dated 12.10.2009 and to inform you that the environmental clearance accorded for the above mentioned project was placed before the Expert Appraisal Committee for its review in its 58<sup>th</sup>, 60<sup>th</sup> and 62<sup>nd</sup> Meetings held during November 2009, December 2009 and January 2010 respectively.

2. It is further to inform that in acceptance of the recommendations of the Expert Appraisal Committee (Thermal) made in the 62<sup>nd</sup> Meeting held during January 11-12, 2010, the Ministry hereby upheld the environmental clearance earlier accorded for the aforesaid project issued vide this Ministry's letter of even no. dated 17.05.2007 subject to compliance of the following additional conditions:

- i) Flue Gas De-Sulphurisation (FGD) system shall be installed before commissioning the project and action in this regard shall be submitted **within three months** to the Ministry.
- ii) Continuous monitoring of ambient air quality and marine / estuarine environment, plant health parameters and fisheries shall be carried out regularly for the entire life of the power plant and data submitted to the Regional Office of the Ministry and the concerned Department in the state government. The data shall be evaluated periodically by a third party viz. College of Fisheries, Konkan Krishi Vidyapeeth, Ratnagiri.
- iii) It shall be ensured that no spillage of sea water on the land from the pipelines of intake and outfall takes place. RCC Lined Channels along the Pipelines shall be provided to avoid any possible contamination of land with sea water.
- iv) Dense plantation of density not less than 2500 trees/shrubs per ha (and survival rate not less than 70 %) including plantations of Alphonso mango and cashew interspersed with native plant species, shall be raised within and outside the study area to act as buffer. Also plantation of coconut and casuariana all along the coast line shall be provided to serve as shelter belt. Sufficient funds earmarked for the same and schedule of implementation shall be submitted **within six months** to the Ministry.

- v) Ash dyke for the pond ash shall be lined with impermeable membrane all along the sides and the bottom. A 50 m wide green belt of native species shall be raised all along the Ash Dyke.
- vi) Hydro-geological study of the area shall be reviewed annually and results submitted to the Ministry and concerned agency in the State Govt. In case adverse impact on ground water quantity and quality is observed, immediate mitigating steps to contain any adverse impact on ground water shall be undertaken.
- vii) Mercury and other heavy metals (As, Hg, Cr, Pb etc.) shall be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. No ash shall be disposed off in low lying area.
- viii) Rainwater harvesting shall be adopted. Central Groundwater Authority/ Board shall be consulted for finalization of appropriate rainwater harvesting technology within a period of three months from the date of clearance and details shall be furnished.
- ix) Regular monitoring of ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>2.5</sub> and PM<sub>10</sub> and Hg shall be carried out in the impact zone and records maintained. If at any stage these levels are found to exceed the prescribed limits, necessary control measures shall be provided immediately. 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. The data shall also be put on the website of the company.
- x) As part of CSR programme the company shall conduct need based assessment for the nearby villages to study economic measures with action plan which can help in upliftment of poor section of society. Income generating projects consistent with the traditional skills of the people besides development of fodder farm, fruit bearing orchards, vocational training etc. can form a part of such programme. Company shall provide separate budget for community development activities and income generating programmes. This will be in addition to vocational training for individuals imparted to take up self employment and jobs.
- xi) 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.
- xii) The proponent shall upload the status of compliance of the conditions stipulated in the environmental clearance, including results of the continuously monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely RSPM (PM<sub>2.5</sub> & PM<sub>10</sub>) SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain.

- xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.
- xiv) The environment statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.
- xv) The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Office, Central Pollution Control Board and State Pollution Control Board. **The project proponent shall upload the status of compliance of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forests.**
3. All other conditions earlier prescribed vide this Ministry letters of even no. dated 17.05.2007 shall remain the same.

Yours faithfully,

(LALIT KAPUR)  
DIRECTOR

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi 110001.
2. The Secretary (Environment), Forests and Environment Department Government of Maharashtra, Mumbai - 400 032, Maharashtra.
3. The Chairman, Maharashtra Pradesh State Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> & 4<sup>th</sup> Floors, Sion Matunga Scheme Road No. 6, Opp. cine Planet, Sion Circle, Sion (E), Mumbai - 400 022
4. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi- 110032.
5. The Chief Conservator of Forests, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, Arera Colony, Ravishankar Nagar, Bhopal - 462016.
6. The District Collector, Ratnagiri District, Govt. of Maharashtra.
7. The Director (EI), MOEF.
8. Guard file.
9. Monitoring file.

  
(LALIT KAPUR)  
DIRECTOR