

F. No. J-11011/77/2007- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003
E-mail: ahuja.rai@nic.in
Tele/fax: 011 – 2436 3973
Dated: 1st March, 2012

To,

M/s Jindal Steel & Power Limited
1st Floor, DCM Building, Plot NO. 94,
Sector-32, Gurgaon - 122 001

Ph: 0124- 6689000 Fax: 0124-6689176

Sub: Integrated Steel Plant (6.0 MTPA) and Captive Power Plant (1,000 MW) at Balkudra, Pataru, Hazaribagh in Jharkhand by M/s Jindal Steel & Power Limited- regarding change in configuration of Captive Power Plant from 3x350 MW from 1,000 MW (3 x 330 MW sub-critical units) to 1,320 MW (2 x 660 MW supercritical units)

Sir,

This is in continuation of this Ministry's letter of even no. dated 22.09.2008 subsequent communication dated 21.09.2011 requesting the Ministry for amendment of environmental clearance dated 22.09.2008 due to change in the configuration of captive power plant from 3x350 MW from 1,000 MW (3 x 330 MW sub-critical units) to 1,320 MW (2 x 660 MW supercritical units).

2. The proposal was placed before Expert Appraisal Committee -1 (Industry) in its 30th meeting held on 28th - 29th November, 2011. The Committee noted that the following:

- There will be no change in land requirement for the project.
- Supercritical technology entails like better plant efficiency, lower GHG emissions, CDM benefits, lower specific coal consumption (0.64 Kg/Kwh to 0.61 Kg/Kwh) and reduction in water consumption from 4788 kl/hour to 4000 kl/hour.
- Waste water generation will reduce from 1008m³/hr to 800m³/hr.
- It is proposed to drop high concentration slurry disposal system (HCSD) fro disposal of ash. There will be slight increase in the ash generation from 2.3772 TPA to 2.7594 TPA. The fly ash will be used for cement, brick, block, tiles and aggregates manufacturing. Part of the fly ash will be used for filling of abandoned mines in Argada and Kuju area near Patratu thermal power plant and also in the Piparwar area of CCL for which in- principle approval from CCL has been obtained. There will be 100% ash utilization in 4 years.
- Amarkonda - Murgadangal Captive Coal Block for the proposed CPP was allotted by the Ministry of Coal. The coal requirement of the works out to be 6.5 MTPA and the coal reserves are sufficient for the plant life of 25 years.

- Twin-flue stack of 275 m will be provided to disperse particulate emission.

4. The Committee recommended the proposal for amendment in environmental clearance dated 22.09.2008 i.e. for changing the captive power plant configuration from 1,000 MW (3 x 330 MW sub-critical units) to 1,320 MW (2 x 660 MW supercritical units).

5. The Ministry accepts the recommendation of the Expert Appraisal Committee-1 (Industry) for changing the captive power plant configuration from 1,000 MW (3 x 330 MW sub-critical units) to 1,320 MW (2 x 660 MW supercritical units) subject to stipulation of following additional safeguards:

- (i) The particulate emissions shall be controlled below 50 mg/Nm³ by installation of ESP from the captive power plant. A twin-flue stack of 275 m height shall be installed for dispersion of gaseous emissions.
- (ii) The disposal of ash in the abandoned mines shall be carried after carrying geo-hydrological studies only. Measures shall be taken to prevent leaching of heavy metals in the ground water.
- (iii) Data on ambient air, stack and fugitive emissions shall be regularly submitted online to Ministry's Regional office at Bhubaneswar, SPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO₂ and NO_x outside the premises at the appropriate place for the general public.
- (iv) The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16th November, 2009 shall be followed.
- (v) The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar /CPCB/SPCB shall monitor the stipulated conditions.
- (vi) The environmental statement for each financial year ending 31st 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 alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- (vii) At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program

should be ensured accordingly in a time bound manner. The action plan shall include major items like school, vocational training etc.

- (viii) The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to bring into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.

6. The company shall comply with all the conditions stipulated vide Ministry's letter of even number dated 22.09.2008. In future, in case of change in the scope of the project, the company shall obtain fresh environmental clearance.

This issues with the approval of the Competent Authority.

Yours faithfully,


(Dr. P.L. Ahujarai)
Scientist 'F'

Copy to:-

1. The Secretary, Department of Forest, Govt. of Jharkhand, Nepal House, Ranchi.
2. The Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office, (EZ) A-3, Chandrashekharpur, Bhubaneswar-715023.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar New Delhi – 110 032.
4. The Chairman, Jharkhand State Pollution Control Board, T.A Division Building (Ground Floor) HEC Campus, Dhurwa, Ranchi -834004.
5. Guard File/Monitoring File/Record File.


(Dr. P. L. Ahujarai)
Scientist 'F'