

By Speed Post

No. J – 13011/31/08-IA.II(T)
Government of India
Ministry of Environment & Forests

Paryavaran Bhawan
CGO Complex, Lodi Road
New Delhi-110 003

Dated: 18th Feb, 2009

To

M/s Arasmeta Captive Power Company Pvt. Ltd.
2nd floor, Sony Apartments, 19, Rebello Road
Bandra (W), Mumbai – 400 050.

Sub: 1x43 MW Coal Based Power Plant (Phase-II) at Gopalnagar, District
Janjgir- Champa by M/s Arasmeta Captive Power Company Private Ltd
-Environmental clearance regarding.

Sir,

The undersigned is directed to refer to your communication no. MoEF,ND/KAS/296 dated 12.4.2008 regarding the subject mentioned above. Subsequent information furnished vide letter no. MOEF/ND/Rajore/1050104 dt. 27.11.2008 and 16.12.2008 has also been considered.

2. It is noted that the proposal is for grant of environmental clearance for setting up of a 43 MW Coal based Thermal Power Project (Phase-II) at Gopalnagar, District Janjgir- Champa, Chhattisgarh. The project will be located as an expansion Phase-II to its existing power plant to meet requirement of captive users. The land requirement for the project is 3.5 ha. No additional land will be acquired for the expansion project. Water requirement of 520 kld will be met out of the allocation made under Phase-I from river Lilagarh. Air cooled condensers will be provided. The coal for the project will be obtained through e-auction. It was also stated that an amount of Rs 25 lakhs per year will be spent for CSR activities. The public hearing was held on 19.3.2008. No National Park and Wildlife Sanctuary is located within 10 Km of the project area. Total cost of the project is Rs. 185.92 crores which includes Rs. 10.97 crores for environmental protection measures.

3. The proposal has been considered and Ministry of Environment & Forests hereby accords environmental clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:-

- (i) No additional land in excess of 3.5 ha shall be used for any activity/ facility of this project.
- (ii) Sulphur and ash contents in the coal to be used in the project shall not exceed 0.4% and 45% respectively at any given time.
- (iii) The height of the stack shall be as per the standards prescribed in this regard or 85 m whichever is more and shall be fitted with continuous online monitoring equipments for SO_x, NO_x, Hg and Particulate. Exit velocity of flue gases shall not be less than 20 m/sec.
- (iv) High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 50 mg/Nm³.
- (v) Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
- (vi) Fly ash shall be collected in dry form and storage facility (silos) shall be provided. 100% ash utilization (fly ash and bottom ash) shall be ensured from day one . There shall be no ash pond for this expansion project.
- (vii) Air cooled condensers shall be provided.
- (viii) The treated effluents conforming to the prescribed standards shall be re-circulated and reused within the plant. There shall be no discharge outside the plant boundary. Arrangements shall be made that effluents and storm water do not get mixed.
- (ix) A sewage treatment plant shall be provided and the treated sewage shall be used for raising greenbelt/plantation.
- (x) Rainwater harvesting should 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.

- (xi) Adequate safety measures shall be provided in the plant area to check/minimize spontaneous fires in coal yard, especially during summer season. Details of these measures along with location plant layout shall be submitted to the Ministry as well as to the Regional Office of the Ministry at Bhopal.
- (xii) Storage facilities for auxillary liquid fuel such as LDO and/ HFO/LSHS shall be made in the plant area where risk is minimum to the storage facilities. Disaster Management Plan shall be prepared to meet any eventuality in case of an accident taking place. Mock drills shall be conducted regularly and based on the same, modifications required, if any shall be incorporated in the DMP. Sulphur content in the liquid fuel will not exceed 0.5%.
- (xiii) Regular monitoring of ground water in and around the existing ash pond area, if any, including heavy metals (Arsenic, Mercury, Cr, lead etc.) shall be carried out, records maintained and six monthly reports shall be furnished to the Regional Office of this Ministry.
- (xiv) A green belt of adequate width and density shall be developed around the plant periphery covering 1/3 of total area preferably with local species.
- (xv) First aid and sanitation arrangements shall be made for the drivers and other contract workers during construction phase.
- (xvi) Noise levels emanating from turbines shall be so controlled such that the noise in the work zone shall be limited to 75 dBA. For people working in the high noise area, requisite personal protective equipment like earplugs/ear muffs etc. shall be provided. Workers engaged in noisy areas such as turbine area, air compressors etc shall be periodically examined to maintain audiometric record and for treatment for any hearing loss including shifting to non noisy/less noisy areas.

- (xvii) Regular monitoring of ground level concentration of SO₂, NO_x, SPM and RSPM 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 so monitored shall also be put on the website of the company.
- (xviii) 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.
- (xix) The project proponent shall advertise in at least two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality , / office of Municipal Corporation/Gram Panchayat concerned within seven days from the date of this clearance letter, informing that the project has been accorded environmental clearance and copies of clearance letter are available with the State Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>.
- (xx) A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- (xxi) Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry/ Regional Office/CPCB/SPCB.
- (xxii) 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

Environment Management Plan along with the additional information submitted from time to time shall be forwarded to the Regional Office for their use during monitoring. Project proponent will up-load the compliance status in their website and up-date the same from time to time at least six monthly basis. Criteria pollutants levels (stack and ambient levels) will be displayed at the main gate of the power plant.

- (xxiii) Separate funds shall be allocated for implementation of environmental protection measures along with item-wise break-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall not be diverted for other purposes and year-wise expenditure should be reported to the Ministry.
- (xxiv) The project authorities shall inform the Regional Office as well as the Ministry regarding the date of financial closure and final approval of the project by the concerned authorities and the dates of start of land development work and commissioning of plant.
- (xxv) Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry at Bhopal /the CPCB/the SPCB who would be monitoring the compliance of environmental status.

4. The Ministry of Environment and Forests reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the Ministry. MOEF may impose additional environmental conditions or modify the existing ones, if necessary.

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

6. In case of any deviation or alteration in the project proposed including coal transportation system 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.

8. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred, within 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.


(LALIT KAPOOR)

DIRECTOR

Copy to:

1. The Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi -110 001.
2. The Secretary, Department of Environment, Dau Kalyan Singh Bhawan, Raipur-492001.
3. The Chairman, Central Electricity Authority, Sewa Bhawan, R.K. Puram, New Delhi-110 066.
4. The Chairman, Chhattisgarh Environment Conservation Board, Nanak Niwas, Civil Lines, Raipur - 492001 - 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-110 032.
6. The Chief Conservator of Forests, Central Regional Office, Ministry of Environment & Forests, E-3/240, Arera Colony, Bhopal-462 016.
7. Director (EI), MOEF.
8. Guard file.
9. Monitoring file.


(LALIT KAPOOR)

DIRECTOR