

# State Level Environment Impact Assessment Authority



**Madhya Pradesh  
Government of India  
Ministry of Environment & Forests**

## **Madhya Pradesh Pollution Control Board**

E-5. Arera Colony  
Bhopal-4620 16  
visit us <http://www.mpseiaa.nic.in>  
Tel: 0755-2466970

No: 05/EPCO-SEIAA/09

Date:-04-04-09

To,

M/s Arya Energy Ltd,  
D-1, Maruti Enclave  
Tatibandh  
Raipur (C.G)  
Pin-492 001

**Sub:- Environmental clearance for the proposed 12 MW capacity biomass based power plant at vill- Gohandra, Dongratola, Teh- Kotma, Distt- Anuppur M.P. Case No.174/2008**

This has reference to your letter no. AEL/TOR/059/035/07-08 dated 24-11-2007 along with the application in the prescribed format (Form-1) and a copy of the project report to prescribe the ToRs for undertaking detailed EIA study for the purpose of obtaining environmental clearance under the provisions of the EIA Notification, 2006 in respect of the above mentioned project. After due consideration of the documents submitted by the project proponent and the presentation made before the EAC of MOEF on 11<sup>th</sup> to 13<sup>th</sup> February 2008, TORs were issued. Project Proponent submitted final EIA & Public hearing report vide letter no AEL/2008-09/064 dt 19/07/08 to the State Level Environment Impact Assessment Authority of Madhya Pradesh. Expert Appraisal Committee of M P considered the proposal on 24<sup>th</sup> September 2008, 14<sup>th</sup> November 2008 and 30<sup>th</sup> January 2009 for granting environmental clearance.

2. It is noted that the proposal is for grant of environmental clearance for setting up of a 12 MW biomass based thermal power plant at village Gohandra Dongratola, Teh- Kotma Distt-Anuppur (M.P.) The project is proposed on an area of 7.048 hact. barren land. 80831 TPA rice husk, rice straw, lantana Eueklyptus branches and other woody biomass and 8981 TPA coal will be used as fuel for the proposed plant. Water requirement will be 150 KLD and will be sourced from ground water. Public Hearing was held on 04/07/08. No ecologically sensitive area is reported in 10 km radius of the plant boundary.
3. The proposal has been considered and the State Level Environment Impact Assessment Authority (SEIAA) 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 7.048 ha shall be acquired for any activity/facility of this project.
  - ii. The plant boundary should be at a distance of at least 500 m from HFL of Kevai river and highway in conformity with the sitting guidelines.
  - iii. A stack of 58 m height shall be provided with stack monitoring facility for SO<sub>2</sub>, NO<sub>x</sub> and particulates. Exit velocity of flue gases shall not be less than 15 m/sec. The data collected shall be analyzed and submitted regularly to the Ministry.
  - iv. High efficiency Electrostatic Precipitators (ESPs) shall be installed to ensure that particulate emission does not exceed 100 mg/Nm<sup>3</sup>.
  - v. Adequate dust extraction and dust suppression system in dusty areas such as in fuel handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.
  - vi. Water requirement shall not exceed 150 MLD.
  - vii. Closed cycle cooling system with cooling towers shall be provided.

- viii. 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 except in monsoon. Arrangements shall be made that effluents and storm water do not get mixed.
- ix. 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.
- x. Regular monitoring of ground water in and around the project area shall be carried out, records maintained and six monthly reports shall be submitted to the Regional Office of the Ministry at Bhopal.
- xi. Noise levels emanating from turbines shall be limited to 75 dBA. For people working in the high noise areas, 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 and audiometric records shall be maintained. Treatment for any hearing loss including shifting to non noisy/less noisy areas shall be undertaken.
- xii. Dry ash collection system shall be provided. 100% ash utilization shall be ensured from the day one of the commissioning of the plant. It shall be ensured that the hot biomass ash is not disposed outside the plant boundary.
- xiii. Appropriate safeguard measures to guard against fire hazards shall be undertaken.
- xiv. A green belt of adequate width and density shall be developed around the plant periphery covering an area of at least 2.326 ha. of project 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. Regular monitoring of ground level concentration of SO<sub>2</sub>, NO<sub>x</sub>, SPM and RSPM including chlorine at work zone 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. Six monthly reports shall be submitted to the Regional Office of this Ministry at Bhopal.
- xvii. The project proponent shall publish 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 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 State Level Impact Assessment Authority at [www.mpseiaa.nic.in](http://www.mpseiaa.nic.in).
- xviii. A separate environment management cell with qualified staff shall be set up for implementation of the stipulated environmental safeguards.
- xix. Half yearly report on the status of implementation of the stipulated conditions and environmental safeguards shall be submitted to this Ministry's Regional office at Bhopal.
- xx. 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.

- xxi. 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 Regional Office at Bhopal.
  - xxii. The project authorities shall inform the Regional Office at Bhopal 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.
  - xxiii. 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.
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- 4. The State Level Environment Impact Assessment Authority (SEIAA) reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the monitoring authority. SEIAA 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 of production operations by the power plant.
  - 6. In case of any deviation or alteration in the project proposed from those submitted to the State Level Environment Impact Assessment Authority (SEIAA) for clearance, a fresh reference should be made to the SEIAA 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 a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

Sd/-  
**(Deepti Gaur Mukerjee)**  
Member Secretary, SEIAA

Endt No. 06 /SEIAA/EPCO/09

Dated:-04-04-09

Copy to:-

1. Principal Secretary, Govt. of MP, Housing and Environment Deptt., Mantralaya , Bhopal.
2. Chairman M P Pollution Control Board, Paryavaran Parisar, E-5 Sector, Aera Colony , Bhopal.
3. E I Division, Ministry of Environment and Forest, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi.
4. Regional Office, MOEF, Link Road No 3, Bhopal.
5. Guard File.

Sd/-  
**(Deepti Gaur Mukerjee)**  
Member Secretary, SEIAA