

**State Environment Impact Assessment Authority, M.P.  
(Government of India, Ministry of Environment & Forests)**

**Research and Development Wing**  
Madhya Pradesh Pollution Control Board  
Paryavaran Parisar, E-5. Arera Colony  
Bhopal-4620 16  
visit us <http://www.mpseiaa.nic.in>  
Tel:0755-2466970, 2466859  
Fax : 0755-2462136

No: 843 / EPCO-SEIAA /11  
Date: 15.12.2011

To,  
M/S Trimula Industries Ltd.  
H. No. 45, Ward No. 5,  
Main Road, Singrauli  
Distt. Singrauli, M. P.

Phone No. : 07805-268677,268722  
Fax : 07805-266598  
Website : [www.trimulaindustries.com](http://www.trimulaindustries.com)

**Sub: Case no. 511/2010**, Prior Environmental Clearance for 20 MW (viz 1 x 20 MW ) (AFBC) captive power plant in its existing of premises of sponge iron having capacity of 350 T/day unit of M/S Trimula Industries at village Godwali & Bastali, Tehsil Devassar & Chitrangi, Distt. Singrauli by M/S Trimula Industries Ltd.

This has reference to your letter No. Nil dated 22.02.2010 and subsequent letters seeking Prior Environmental Clearance for the above project under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., the Form I and pre-feasibility report, ToR and subsequently submission of EIA, public hearing documents and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) and State Environment Impact Assessment Authority (SEIAA) constituted by the competent Authority.

2. It has been noted that the proposal is for construction of captive thermal power plant in its existing premises of sponge iron unit of 350 T/day capacity by M/S Trimula Industries at village Godwali & Bastali, Tehsil Devassar & Chitrangi, Distt. Singrauli. The total area is 61.61 acres covering 34 Khasra Numbers. The protected forest is 1.4 km away from the site. No wild life and sanctuary is located within 10 km radius of the unit. The distance of the proposed unit from the various clusters of Singrauli critically polluted area is as follows :-

|   |         |
|---|---------|
| i. Singrauli Municipal Corporation area | = 15 km |
| ii. Malhori                             | = 11 km |
| iii. Vindhyachal Nagar                  | = 19 km |
| iv. Jyaant                              | = 16 km |
| v. Naghanin                             | = 13 km |
| vi. Duduchuha                           | = 20 km |
| vii. Dhingurda                          | = 19 km |

Thus all the clusters are more than 10 km away from the project site. The Bijula water body is 600 m away while that of nearest human habitation Godawali is 800 m.

The production of captive power generation of 38.6 MW capacity has been proposed. Out of this 20 MW shall be generated from Char and coal and 18.5 MW from waste

heat recovery. As per the MoEF, GoI Guideline, the sponge iron units are required the solid waste (coal/Char) and utilize waste heat for power generation. In compliance to the same, present case in related power generation of 38.5 MW power. The coal linkage is not required as proposed plant is within existing sponge iron unit. Bottom ash of 3,642 T/year and fly ash of 20,235 T/year shall be generated. The total water requirement is 1835 m<sup>3</sup>/day and the same shall be met from Bijula river and Gorbi pond. The water from these sources shall be stored in tanks provided in the plant. For withdrawal of water from river/pond necessary permission has obtained from Water Resource Department. The waste water of 132 KLD after treatment shall be used for ash quenching, dust suppression and green belt development. The domestic waste water of 12 KLD shall be treated and use for green belt. The existing green belt is 11.33 acres. An additional area of 10 acres shall be covered for green belt . The public hearing was conducted in 25.10.2010.

3. The project has been considered in accordance with the provisions of the EIA notification issued by the Ministry of Environment & Forests vide S.O. 1533 (E), dated September 14, 2006.
4. Based on the information submitted by you, as at Para 2 above and others, the State Level Environment Impact Assessment Authority (SEIAA) considered the case in its 71<sup>st</sup> meeting held on 09.10.11 and decided to accept the part of recommendations of 75<sup>th</sup> SEAC meeting held on 06.01.11. Hence Prior Environmental Clearance is accorded for captive power plant consisting of 20 MW coal/Char based project under the provisions of EIA notification dtd. September 14, 2006, subject to the compliance of the following Specific and General conditions.

**A. Specific conditions**

- (i) The capacity of existing sponge iron ore should not exceed 350 T/day. Any expansion of the sponge iron ore project will required prior Environmental Clearance as per EIA notification, 2006.
- (ii) Coal with ash content not exceeding 42% and sulphur content not exceeding 0.5% shall be used.
- (iii) The water requirement shall not exceed 1835 m<sup>3</sup>/day. No ground water shall not be extracted for the project without permission of the Competent Authority.
- (iv) High efficiency Electrostatic Precipitator (ESPs) shall be installed so as to ensure that particulate emissions do not exceed 50 mg/Nm<sup>3</sup>.
- (v) Space provision shall be made for installation of FGD of requisite efficiency of removal of SO<sub>2</sub>, if required at a later stage.
- (vi) Fly ash shall be collected in dry from and its utilization shall be ensured in accordance with the provision of the Notification of September, 1997 on Fly Ash Utilization and its amendment of August, 2003. The unutilized fly ash and bottom ash shall be disposed in the existing ash pond.
- (vii) Closed Cycle Cooling system with cooling towers shall be provided.
- (viii) The treated effluents conforming to the prescribed standards shall be re circulated and reused within the plant boundary. There shall be zero discharge outside the plant boundary.
- (ix) Regular monitoring of ground water quality including heavy metals shall be under taken in the project area and around the ash pond to ascertain the change, if any, in the water quality due to leaching of contaminants, if any, from the ash disposal area.

- (x) 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.
- (xi) Greenbelt shall be developed in 33% of the project area. Plants of local species shall only be planted in greenbelt.
- (xii) Concrete measures shall be taken for prevention of solid waste from the premises into nearby land.
- (xiii) Height of stack should be as per the norms of CPCB with provision of appropriate sampling port and spiral ladder. It shall be provided with continuous online monitoring system.
- (xiv) The industry has to keep strict vigilance on the Fugitive emission and shall ensure that the ambient air quality is well within the prescribed norms.
- (xv) Industry should submit the CDM project design document to MoEF.
- (xvi) Compliance of CREP charter prescribed for Sponge Iron units has to be ensured.
- (xvii) Area around the STP / ETP should be surrounded with dense green belt.
- (xviii) Use of Solar Energy should be ensured in the plant where ever possible
- (xix) Occupational health and safety measures for the workers including identification of work related health hazards, training on malaria eradication, HIV, and health effects on exposure to mineral dust etc. shall be carried out. Periodic monitoring for exposure to respirable mineral dust on the workers shall be conducted and records maintained including health records of the workers. Awareness programme for workers on impact of mining on their health and precautionary measures like use of personal equipments etc. shall be carried out periodically. Review of impact of various health measures shall be conducted followed by follow up action wherever required.
- (xx) Commitment towards CSR have to be followed strictly.
- (xxi) Four ambient air quality-monitoring stations shall be established for RSPM, SPM, SO<sub>2</sub>, NO<sub>x</sub> monitoring. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board. The monitored data for criteria pollutants shall be regularly up loaded on the company's website and also displayed at website.

#### **B. General conditions**

- (i) Expansion of the captive power plant and expansion of existing sponge iron plant (350 T/day) capacity, change in technology, modernization and scope of working shall again required prior environmental clearance as per EIA notification, 2006.
- (ii) Data on ambient air quality (RPM, SPM, SO<sub>2</sub>, NO<sub>x</sub>) should be regularly submitted to the Regional office, MoEF, GoI, Bhopal and the State Pollution Control Board / Central Pollution Control Board once in six months.
- (iii) Ambient air quality at the boundary of the mine premises shall conform to the norms prescribed in MoEF notification no. GSR/826(E) dtd. 16.11.09.
- (iv) Fugitive dust emissions from all the sources shall be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points shall be provided and properly maintained.

- (v) The waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May, 1993 and 31<sup>st</sup> December, 1993 or as amended from time to time. Oil and grease trap shall be installed.
- (vi) Personnel working in dusty areas shall be provided with protective respiratory devices and they shall also be imparted adequate training and information on safety and health aspects.
- (vii) A separate Environmental Management Cell with suitable qualified personnel shall be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- (viii) Project Proponent has to strictly follow the direction/guidelines issued by MoEF, CPCB and other Govt. Agencies from time to time.
- (ix) The Project Proponent shall inform to the Regional Office, MoEF, Gol, Bhopal regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (x) The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year wise expenditure shall be reported to the MoEF, Gol, and its Regional Office located at Bhopal.
- (xi) The Regional Office, MoEF, Gol, Bhopal shall monitor compliance of the stipulated conditions. A complete set of documents including Environment Impact Assessment Report, Environmental Management Plan, Public hearing and other documents information should be given to Regional Office of the MoEF, Gol at Bhopal.
- (xii) A copy of the environmental clearance shall be submitted by the Project Proponent to the Heads of the Local Bodies, Panchayat and Municipal Bodies as applicable in addition to the relevant officers of the Government who in turn has to display the same for 30 days from the date of receipt.
- (xiii) The Project Proponent shall advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the State Level Environment Impact Assessment Authority (SEIAA) website at [www.mpseiaa.nic.in](http://www.mpseiaa.nic.in) and a copy of the same shall be forwarded to the Regional Office, MoEF, Gol, Bhopal.
- (xiv) The project proponent has to strictly follow directions/guideline issued by the MoEF, Gol, CPCB and other Govt. agencies from time to time.
- (xv) Action plan with respect to suggestion/improvement and recommendations made and agreed during public hearing consultation shall be submitted to the Regional office of the MoEF, Bhopal and to the competent authority of the State Government within six months.
- (xvi) The Project Proponent has to submit half yearly compliance report of the stipulated prior environmental clearance terms and conditions in hard and soft copy to the Regulatory Authority, viz. CPCB, MPCB and Regional office of MoEF, Gol at Bhopal on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.
- (xvii) 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.

5. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
6. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
7. The prior EC is valid for period of 5 years from the dated of issue as per EIA notification 2006
8. Any appeal against this prior environmental clearance shall lie with the Green Tribunal, if necessary, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
9. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with amendments and rules.

Sd/-  
(Manohar Dubey)  
Member Secretary

Endt No. 844 / SEIAA / EPCO/ 11 Dated: 15.12.2011

Copy to:-

1. Principal Secretary, Department of Environment, Government of Madhya Pradesh, Mantralaya, Bhopal.
2. Chairman, State Environment Impact Assessment Authority, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5. Arera Colony Bhopal-4620 16
3. Member Secretary, SEAC, Research and Development Wing Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5. Arera Colony Bhopal-4620 16
4. Member Secretary, Madhya Pradesh Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal-462016
5. Collector, Distt-Singrauli-M.P.
6. Division, Monitoring Cell, MoEF, Gol, Paryavaran Bhawan, CGO Complex, Lodhi Road, New Delhi- 110 003
7. Regional Officer, Regional Office of the Ministry of Environment & Forest, Gol, Near Arera Petrol Pump, Arera Colony, Bhopal.
8. Guard file

Sd/-  
(Dr. R. P. Singh)  
Officer-in-Charge