

भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS **BY SPEED POST**

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File No. J-11011/169/2006-IA-II (I)

Date: 28th June 2007

To,

Shri Mahesh Kumar Agrawal
Managing director
Shree Metaliks Limited
Gurudwara Road
Barbil, Keonjhar
Orissa

Subject: Modernization of Sponge Iron Plant by way of Waste Heat Recovery Boiler and No Increase in Pollution Load Basis at Loidapada, Guali, Keonjhar, Orissa by M/s Sree Metaliks Ltd. - TORs Regarding.

Sir,

Kindly refer to your application No. SML/EC/MoEF/2007 dated 24th January 2007 seeking environmental clearance for the above-mentioned project.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that proposed project is for Modernization of existing Sponge Iron manufacturing plant (DRI) at Loidapada, near Barbil, in Guali, Keonjhar, Orissa by installing a Waste Heat Recovery Boiler for producing 20 MW Power for Captive use. The existing kilns are connected to waste heat recovery boilers and producing 8 MW of Power for its captive consumption. The flue gases generated from the present 300 TPD kiln will be utilized for energy production. A 38 TPH capacity WHRB will be installed to generate 9.7 MW. In addition, an AFBC Boiler of 41 TPH will also be installed to utilize the char and coal fines generated from the Sponge Iron Plant. The power thus available will be utilized for captive consumption. The modernization will be undertaken at the existing site and no tree felling is involved.

3. The Project was received under EIA Notification, 2006. The Project activity is listed at 3(a) in the Schedule of EIA Notification 2006 and attracts the provisions under Para 2 (ii) of this Notification.

4. Based on the information submitted by you, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the



जहाँ है हरियाली।
वहाँ है खुशहाली।।

पर्यावरण भवन, सी.जी.ओ. कॉम्प्लेक्स, लोदी रोड, नई दिल्ली - 110 003
PARYAVARAN BHAWAN, C.G.O. COMPLEX, LODHI ROAD, NEW DELHI - 110 003

provisions of ETA Notification, 2006, subject to the compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS:

- (i) The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The State Board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission level shall go beyond the prescribed standards. On-line Continuous monitoring system for particulate emissions, SO₂ and NO_x shall be provided with sponge iron unit and CPP and shall make necessary arrangements for submission of On-line real time emission data to CPCB website. Interlocking facility shall be provided between pollution control equipment and the process operation so that in the event of the pollution control equipment not working, the respective unit (s) is shut down automatically.
- (ii) The environmental standards and guidelines prescribed by CPCB for sponge iron plants shall be followed.
- (iii) The modernization project will reduce particulate emission load by 78 % and solid waste by 48%. There will be no additional pollution source from the proposed new units of CPP.
- (iv) AFBC boiler will be based on Char and Coal fines. Air emissions from the boiler will be controlled using ESPs to limit the SPM to 50 mg/Nm³. Height of the Stack will be as per the prevailing norms.
- (v) In plant control measures for checking fugitive emissions from all the vulnerable sources like spillage/raw materials/coal handlings etc. shall be provided. Further, specific measures like provision of dust extraction and suppression system consisting of water sprinkling, suction hoods, fans, cyclones, bag filters, ventury scrubber etc. shall be installed at material transfer points, furnace stack house and other enclosed raw material handling areas. Centralized dedusting system i.e. collection of fugitive emissions through suction hood and subsequent treatment through bag filter or any other device and finally emitted through a stack of appropriately designed height, as prescribed above, shall be provided for kiln and waste heat recovery boiler.
- (vi) Fugitive emissions, especially in the work zone area shall be regularly monitored and records be maintained as per CPCB guidelines.
- (vii) Raw material will be stored in covered yards. Water sprinkling arrangement should be made in the raw material stock yard to control fugitive emissions.



Materials will be transported in tippers, covered trucks, covered containers, covered rail wagons etc.

- (viii) Windbreakers will be installed to restrict fugitive dust.
- (ix) The total water requirement will not exceed than 241 m³/hr.
- (x) There will be no wastewater discharge from the unit and 'Zero' discharge shall be followed strictly.
- (xi) Char produced from the DRI kiln and Coal rejects and fines will be utilized in AFBC Boiler. Coal Washery Rejects and Fines will be stored in the premises for use in the AFBC Boiler. These will be stored properly to avoid any fugitive dust and impact to the environment.
- (xii) The fly ash shall be utilized by making bricks for which an additional brick manufacturing unit will be installed. Fly ash utilization shall be as per the Fly Ash Utilisation Notification of the Ministry.
- (xiii) Acoustic enclosures will be installed to limit the noise levels below 85 dBA.
- (xiv) Minimum Cycle of Concentration (COC) for the CPP will be 5.0.
- (xv) 33% of the total area shall be developed as green belt.
- (xvi) The company shall harvest surface as well as rainwater from the rooftops of the buildings proposed in the expansion project and storm water drains to recharge the ground water and use the same water for the various activities of the project to conserve fresh water.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the concerned State Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.
- iii. Regular Ambient Air Quality Monitoring shall be carried out. The monitoring stations will be set up in consultation with the SPCB. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the SPCB. It will be ensured that at least one monitoring station is set up in up-wind & in down-wind direction along with those in other directions. On-line data for air emissions shall be transferred to the



CPCB and SPCB once in six months. The instruments used for ambient air quality monitoring shall be calibrated regularly.

- iv. Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the SPCB. Regular monitoring shall be carried out for relevant parameters.
- v. Industrial wastewater shall be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31st December, 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.
- vi. The overall noise levels in and around the plant area shall be limited within the prescribed standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- vii. Proper House keeping and adequate occupational health programs shall be taken up. Regular Occupational Health Surveillance Programme for the employees and contract workers shall be carried as per the Factories Act and records shall be maintained properly for at least 30-40 years.
- viii. A separate environment management cell with full fledged laboratory facilities to carry out various management and monitoring functions shall be set up under the control of a Senior Executive.
- ix. Rs. 07.00 Crores shall be earmarked for the environmental protection measures and shall be used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.
- x. The concerned Regional Office of this Ministry /SPCB/ Central Pollution Control Board shall monitor the implementation of the stipulated conditions. Six monthly compliance status report and monitoring data along with statistical interpretation shall be submitted to them regularly.
- xi. The Project Proponent should 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 concerned informing that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry and Forests at <http://envfor.nic.in>. The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Ministry's Regional Office at Bhopal.



- xii. The Project Authorities shall inform the Regional Office as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.
6. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
7. The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.
8. 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, the Public Liability Insurance Act, 1991, Hazardous Waste (Management & Handling) Rules, 1989 and Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 along with their amendments and rules.


(Sanchita Jindal)

Additional Director

Copy to :

1. The Secretary, Environment & Forests Department, Government of Orissa, Bhubaneswar- 751 001, Orissa.
2. Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (EZ), A/3, Chandra Shekharpur, Bhubaneswar- 751 023, Orissa.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Orissa State Pollution Control Board, A-118, Nilkantha Nagar, Unit-8, Bhubaneswar- 751 012, Orissa.
5. Joint Secretary (CCI-I) Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File/Monitoring File/Record File.

(Sanchita Jindal)
Additional Director