

To,  
The Director  
M/s Maithan Steel & Power Limited  
3F, East India House, 3<sup>rd</sup> Floor,  
20, British India Street  
Kolkata- 700 069, West Bengal

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E-mail [maithan\\_steel@rediffmail.com](mailto:maithan_steel@rediffmail.com)

Sub: Steel Melting Shop (MBF, IF, EAF, Rolling Mill) at Mouza Nakra Joria, P.O. Salanpur, District Burdwan, West Bengal by M/s Maithan Steel & Power Limited - Environmental Clearance req.

Sir,  
This has reference to your letter No. Nil dated 24<sup>th</sup> September, 2009 along with copies of EIA/EMP and public hearing reports and subsequent communications dated 17.12.2009 and 8.6.2010 seeking environmental clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined your application. It is noted that M/s Maithan Steel & Power Ltd proposes to set up steel plant with capacity of 4,65,000 TPA of Billets and 1,80,000 TPA of TMT bars in district Burdwan in West Bengal. The project will be set up in an area of 25.4 acres of which 33% will be developed under green belt. No National Park/Wildlife sanctuary/Tiger Reserve etc. is located within 10 Kms radius of the proposed project. The cost of the project is Rs. 92.59 Crores.

3. The details of the plant configuration along with production capacity is given below:

S.N.	Plant(s)	Capacity	Products
1	Induction Furnace with matching Ladle Furnace and CCM with Billet Caster	(2x15T & 2x25T)	1,35,000 TPA (Billets)
2	Electric Arc Furnace with matching Ladle Furnace, vacuum degassing unit and CCM	(1x20 T & 1x40 T)	3,30,000 TPA (Billets)
3	Rolling Mill (with Producer Gas plant)	1,80,000 TPA (TMT bars) (2x300 TPD)	1,80,000 TPA (TMT bars)

4. It is noted that the make water requirement of 1680 m<sup>3</sup>/day will be met from the Kalyaneshwari Water Works which supplies water from the nearby Barakar River. The Central Water commission vide letter No. 06540-274263/274214 dated 13.1.2007 has allocated 1680 m<sup>3</sup>/day of water. The total power requirement of 54 MW will be met from the DVC. The plant will be designed for zero discharge. The process effluent will be re-circulated through cooling and after treatment. Emissions will be generated from the steel melting shop. Bag filters will be installed to control the

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particulate emissions from the steel melting shop before dispersion into the atmosphere. The fugitive emissions from the SMS will be controlled by high efficiency pulse jet bag filters. Dry fog dust suppression system will be provided to control fugitive dust emissions. The solid waste will be generated in the form of EAF Slag (25250 TPA) and IF Slag (29835 TPA) which will be used for road construction and filling of low lying areas. The company has proposed to recover metal from the SMS Slag. About 66% of the metal would be separated from the slag and the balance metal entrapped in the slag will be crushed and passed through the magnetic separator to enrich iron content from 40% to 90%.

5. All the Integrated Steel Plants are listed at Sl. No. 3 (a) under Primary Metallurgical Industries under of EIA Notification, 2006 and appraised at Central level.

6. The proposal was considered by the Expert Appraisal Committee-1 (industry) in its meeting held during 22<sup>nd</sup> December, 2009. The Committee sought additional information for reconsideration of the project. On submission of information, the proposal was placed for consideration of EAC in its meeting held on 26-28 July, 2010. The Committee recommended the project for environmental clearance subject to stipulation of environmental safeguards. Public hearing of the project was held on 26<sup>th</sup> August, 2009.

7. Based on the information submitted by you, presentation made by you and consultant, Envirotech East Pvt. Limited, Kolkata the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006 subject to strict compliance of the following Specific and General conditions:

#### A. SPECIFIC CONDITIONS :

i. Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. Electrostatic precipitator (ESP), bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm<sup>3</sup> by installing energy efficient technology. Fume extraction system shall be provided to induction furnaces to control the emissions within the prescribed standards.

ii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed.

iii. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored. Guidelines/Code of Practice issued by the CPCB shall be followed. Standards for the sponge iron plant issued by the Ministry vide G.S.R. 414(E) dated 30<sup>th</sup> May, 2008 shall be followed.

iv. The total makeup water requirement shall not exceed 1680 m<sup>3</sup>/d. The water consumption shall not exceed as per the standard prescribed for the steel plants. Efforts shall further be made to use maximum water from the rain water harvesting sources. All the effluent shall be treated and used for dust suppression and green belt development. No effluent shall be discharged and 'zero' discharge shall be adopted.

v. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.

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vi. Regular monitoring of influent and effluent surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent.

vii. In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading, handling and storage of raw materials etc.

viii. Vehicular pollution due to transportation of raw material and finished products shall be controlled. Proper arrangements shall also be made to control dust emissions during loading and unloading of the raw material and finished product.

ix. Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste should be submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.

x. Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar SPCB and CPCB within 3 months of issue of environmental clearance letter.

xi. As proposed, green belt shall be developed in 33 % of plant area as per the CPCB guidelines in consultation with the DFO.

xii. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Steel Plants should be implemented.

xiii. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 26<sup>th</sup> August, 2009 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhopal.

xiv. At least 5 % of the total cost of the project should be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program should be ensured accordingly in a time bound manner.

xv. The company shall provide housing for 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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.

#### B. GENERAL CONDITIONS:

i. The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government.

ii. No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.

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iii. The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19<sup>th</sup> May, 1993 and standards prescribed from time to time. The WBPCB 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. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.

iv. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).

v. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

vi. All the environment management measures given in the EIA/EMP shall be implemented and complied with.

vii. The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.

viii. Proper house keeping and adequate occupational health programmes shall be taken up as per the Factory Act.

ix. The company shall undertake eco-development measures including community welfare measures in the project area.

x. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.

xi. As proposed, Rs. 150.00 Lakhs shall be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures and 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.

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 commencing the land development work.

xiii. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.

xiv. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the WBPCB. The criteria pollutant levels namely; SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

xv. 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 WBPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/WBPCB shall monitor the stipulated conditions.

The environmental statement for each financial year ending 31<sup>st</sup> 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.

The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the W. B. Pollution Control Board and may also be seen at the Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This should be advertised within seven days from the date of issue of the clearance letter at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bhubaneswar.

7. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

8. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

9. 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.

10. The above conditions shall 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, Hazardous Wastes (Management and Handling) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

(Dr. P.L.Ahujara) Scientist-

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Copy to:

1. The Secretary, Department of Environment, Govt. of West Bengal, Kolkata, West Bengal.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, West Bengal Pollution Control Board, Parivesh Bhavan, 10A Block-LA, Sector-III, Salt Lake, Kolkata - 700091, West Bengal.
4. The Chief Conservator of Forests, Regional Office (EZ), Ministry of Environment and Forests A-3, Chandrashekharpur, Bhubaneswar - 751 023, Orissa
5. Adviser (IA-II), 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.
8. Monitoring File.
9. Record File.

(Dr. P.L.Ahujara) Scientist-