

F. No. J-11011/378/2009- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated: June 21, 2010

To,

The Director
M/s Shree Ambey Ispat Pvt Limited
4-B, B.D. Bagh (East), 5th Floor, Room no.90
Stephen House, Kolkata -700020
West Bengal, India
E mail: saipil.ferro@gmail.com

Sub: Ferro Alloy Plant (1x9 MVA Submerged Arc Furnace (SAF) at Survey Nos. 104-108, 267 and Dag No. 857, 932-934, 936-956, 961, 964-970, 1033-1066-1076, 1077, 1080-1086, 1172, 1173, Mouza Basudebpur (North), P.S. Barjora, District Bankura, West Bengal by M/s Shree Ambey Ispat Pvt Ltd reg environmental clearance

Sir,

This has reference to your letter no.nil dated 08th January, 2010 along with copies of final EIA report and public hearing report seeking environment clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that M/s Shree Ambey Ispat Pvt Ltd have proposed to install Submerged Arc furnace (1X9 MVA) to produce 22,600 TPA of Ferro Manganese, 17,400 TPA of Silico Manganese and 7600 TPA of Ferro Silicon. Total land requirement for the project is 15 acres. The unit is located at a distance of 16km from Durgapur which has been identified as severely polluted area. Permission from the Gram Sabha Panchayat is obtained vide letter dated 16th July, 2009. No R & R is involved. No national park/wild life sanctuary/reserve forest is located within 10 km radius of the proposed project site. River Damodar flows at a distance of 5 km from the proposed site. Cost of the proposed expansion is Rs. 1721.00 Lakhs and Rs. 0.80 Crores has been earmarked for pollution control measures as capital cost and Rs. 0.10 Crores /annum recurring cost.

3. It is noted that total water requirement will be reduced from 40 KLD to 20 KLD due to recycling of effluent and will be supplied by Barjora Panchayat Samity. There will be zero discharge of effluent and effluent will be recycled after treatment and used for green belt development. To control the particulate emissions, cyclone separator and bag filters will be installed and bag filter dust will be recycled in the process. Rain water harvesting structure will be constructed to recharge the ground water. Ferro-Manganese slag will be utilized in Silico-Manganese production. Silico-Manganese slag will be utilized as boulders in land/area/ road development. Green belt will be developed in 4.9 acres, out of total plant area of 15 acres. Acoustic

enclosures will be provided to mitigate the noise from the noise generating equipments. Ear plugs/ear muffs will be provided to personnel working in high noise prone areas. Total power requirement (9.3 MVA) will be met from West Bengal State Electricity Distribution Company Limited (WBSEDCL). DG set (1x100 kVA) will be installed to meet the emergency power requirement. Diesel (24 LPH) will be used as fuel in DG sets.

4. The Ferro Alloy plants have been listed at S.N. 3(a) under primary metallurgy industry under category 'A' of EIA Notification, 2006 and appraised by the Expert Appraisal Committee(Industry) in the Ministry

5. The proposal was considered by the Expert Appraisal Committee -1 (Industry) in its meeting held on 17th -18th May,2010, and recommended the proposal for environmental clearance. Public hearing / Public consultation meeting was held on 30.11.2009.

6. Based on the information submitted by you, presentation made by you and consultant, Environ India , Kolkata, the Ministry of Environment and Forests hereby accords environmental clearance to the above project under the provisions of EIA Notification dated 14th September 2006 subject to strict compliance of the following Specific and General conditions:

A. Specific conditions

1. Continuous monitoring facilities for all the stacks and sufficient air pollution control equipments viz. fume extraction system with bag filters, I D fan and stack of adequate height to submerged arc furnace shall be provided to control particulate emissions below 50 mg/Nm³. 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.
2. Ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the WBPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. The instruments used for ambient air quality monitoring shall be calibrated time to time.
3. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
4. 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 SPCB. The criteria pollutant levels namely; PM 10, SO₂, NO_x (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.

5. 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.
6. In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Highly efficient bag filters shall be provided at all material transfer points. Dust suppression system like water spraying shall be provided at unloading and raw material handling areas, storage yards, to control fugitive dust emissions to meet the WBPCB norms.
7. No charcoal shall be used as fuel. Pet coke shall be used as fuel instead of charcoal from unknown sources.
8. Prior permission for the drawl of 20 m³/day water from competent authority should be obtained. Total water requirement shall not exceed 20m³/d. Entire process water shall be kept in closed circuit to reduce water consumption. The wastewater from all the sources shall be collected and treated and treated wastewater shall be recycled/ reused in the process and/or used for dust suppression and green belt development. No process water shall be discharged outside the premises and zero discharge shall be strictly followed.
9. 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.
10. Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB.
11. Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silico Manganese (Si-Mn).
12. All the ferro alloy slag shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, hazardous substances should be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines.
13. No Ferro chrome shall be manufactured without prior approval of the Ministry.
14. 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 shall be submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB.

15. As proposed, green belt shall be developed in 4.9 acres out of total 15 acres land available in and around the plant premises to mitigate the effects of fugitive emissions all around the plant as per the CPCB guidelines in consultation with DFO.
16. Risk and Disaster Management Plan alongwith the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB within 3 months of issue of environment clearance letter.
17. Recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro Alloy Units shall be strictly implemented.
18. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 30th November, 2009 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.
19. At least 5 % of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details alongwith time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.
20. 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, crèche 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.
- iii. 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 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, SO₂, NO_x (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.
- xvi. The environmental statement for each financial year ending 31st 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.
- xvii. 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-F