

F. No. J-11011/533/2008- IA II (I)
Government of India
Ministry of Environment and Forests,
(I.A. Division)

Paryavaran Bhawan
CGO Complex, Lodhi Road
New Delhi – 110 003

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Dated 11th December 2008

To,

The Director
M/s Hira Concert (Pvt.) Ltd.
Mouza _Nacrajoria, P.S. Salanpur
District Burdwan – 713357.
West Bengal

E-mail : ??? ; Fax No. : 033 - 22110011

Subject : Setting up of Ferro Alloy Plant (High Carbon Ferro Manganese, 15,225 TPA & Silico Manganese 11,455 TPA) in existing M.S. Ingot Plant at Mouza Nacrajoria, P.S. Salanpur, District Burdwan, West Bengal by M/s Hira Concast (Pvt.) Ltd. – Environment clearance reg.

Ref. : Your letter no. nil dated 17th June, 2008.

Sir,

Kindly refer your letter no. nil dated 17th June, 2008 alongwith project documents including Application in Form I, draft Terms of References (TORs) and Pre-feasibility Report and subsequent clarifications furnished vide letters 12th August, 2008 and 7th October, 2008 regarding above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for setting up of Ferro Alloy Plant (High Carbon Ferro Manganese, 15,225 TPA & Silico Manganese 11,455 TPA) in existing M.S. Ingot Plant at Mouza Nacrajoria, P.S. Salanpur, District Burdwan, West Bengal by M/s Hira Concast (Pvt.) Ltd. The proposed expansion by installation of submerged Arc Furnace (7.5 MVA) will be carried out in the existing campus and no additional land will be required. Total land acquired is 6.68 acres. Total cost of the project is Rs. 1,544.39 Lakhs. Following will be manufactured:

Product	Installed Capacity (TPA)	1 st Year	2 nd Year	3 rd year
High Carbon Ferro Manganese	15,225	12,180	12,941	13,702
Silico Manganese	11,455	9,164	9,737	10,310

2.0 Bag filters will be provided to the submerged arc furnace to control gaseous emissions within 150 mg/Nm³. Smoke hood, heat exchanger, bag filter, inducted dust (ID) fan and stack will be provided. Dust suppression system will be provided to control fugitive emissions. Total

ground water requirement will be 6 m³/day. No water will be discharged from the cooling system due to use for slag cooling, dust suppression etc. Softener back wash will be neutralized and used for dust suppression. No industrial waste will be generated due to recycle/reuse of the treated wastewater. Slag will be generated as solid waste and disposed by filling low lying area and making roads within the factory premises. Dust collected from bag filter will be collected and recharged in the furnace.

3.0 Public hearing is not required due to expansion of the proposed unit in the same campus as per Section 7 (ii) of EIA Notification, 2006.

4.0. The Ministry of Environment and Forests hereby accords environmental clearance to the above project under EIA Notification dated 14th September, 2006 subject to strict compliance of the following conditions:

A. SPECIFIC CONDITIONS :

- i) 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 emissions below 100 mg/Nm³. The West Bengal Pollution Control Board (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. The monitoring reports shall be submitted to the Ministry's Regional Office at Bhubaneswar, CPCB and WBPCB.
- ii) Gaseous emissions from Submerged Arc Furnace shall be controlled by providing smoke hood, heat exchanger, bag filter, inducted draft fan etc. A water-cooled cover around the furnace and fume collectors hood shall also be provided. Clean gas shall be vented to atmosphere through a chimney of adequate height as per CPCB guidelines.
- iii) 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. Data on fugitive emissions shall be submitted to Ministry's Regional Office at Bhubaneswar, CPCB and WBPCB
- iv) In-plant control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Dust collection system shall be provided for arresting dust and outlet dust emission shall not exceed 100 mg/Nm³. Dust suppression system like water spraying shall be provided at unloading and raw material handling areas, storage yards, conveyor belts and bucket elevators to control fugitive dust emissions to meet the WBPCB norms. Covered conveyor belts shall be provided. Water spraying shall also be done to prevent the dust emanation due to vehicular movement.
- v) Total ground water requirement shall not exceed 6 m³/day. The softener back wash water shall be neutralized and used for dust suppression. All the other treated wastewater shall be recycled and reused in the process, slag cooling and green belt development. No process water shall be discharged outside the premises and 'Zero'

discharge shall be adopted. Domestic wastewater shall be treated in septic tank followed by soak pit system and used for plantation.

- vi) Prior permission for the drawl of 6 m³/day ground water shall be obtained from State Ground Water Board/Central Ground Water Authority (SGWB/CGWA).
- vii) 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 Bhuvanewar, WBPCB and CPCB. Waste oil shall be sold to authorized recyclers as per the Hazardous Waste (Management & Handling) Rules, 1989 and subsequent amendments.
- viii) 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 shall be recovered from the slag and output waste and be disposed in secured landfill as per CPCB guidelines. Dust collected from bag filter shall be collected and recharged in the furnace.
- ix) Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture Silico Manganese (Si-Mn).
- x) As proposed, green belt shall be developed in at least 33 % area 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.
- xi) All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro Alloy Units shall be strictly implemented.
- xii) 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. 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. Monitoring of ambient air quality shall be carried out regularly in consultation with WBPCB and data submitted to the CPCB and WBPCB regularly. The instruments used for ambient air quality monitoring shall be calibrated time to time.
- v. 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).
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii. All the environment management measures given in the EIA/EMP shall be implemented and complied with.
- viii. 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.
- ix. Proper house keeping and adequate occupational health programmes shall be taken up as per the Factory Act.
- x. The company shall undertake eco-development measures including community welfare measures in the project area.
- xi. A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.
- xii. Adequate funds shall be earmarked towards the capital cost and recurring cost/annum for environment pollution control measures shall be used 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.
- xiii. The Regional Office of this Ministry at Bhubaneswar/CPCB/WBPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data alongwith statistical interpretation shall be submitted to them regularly.
- xiv. 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.
- xv. 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.

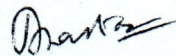
5.0 The Ministry or any other competent authority may stipulate any further condition(s) on receiving reports from the project authorities. The above conditions shall be monitored by the Regional Office of this Ministry located at Bhubaneswar.

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

7.0 Any other conditions or alteration in the above conditions shall have to be implemented by the project authorities in a time bound manner.

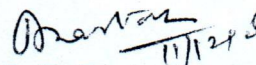
8.0 Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Act, 1997.

9.0 The above conditions shall be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of Pollution) Act, 1981 the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Dr. P. B. Rastogi)
Director

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 Bhawan, 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. B. Rastogi)
Director