

F. No. J-11011/49/2010-IA-II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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New Delhi – 110 003
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Tele/fax: 011 – 2436 3973
Dated: 3rd September, 2012

To,

M/s Hira Concast Limited
33-Chittaranjan Avenue, 2nd Floor
Kolkata-700 012
West Bengal

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Sub: Expansion of Ferro Alloy Plant (Fe-Mn & Si-Mn) by installing 5.5 MVA SAF at Mouza Nakrajoria, PS Salanpur, Dist. Burdwan, West Bengal by M/s. Hira Concast Limited - **Environmental Clearance**

Sir,

This has reference to your letter no. dated along with copies of EIA/EMP and public hearing reports 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 Hira Concast Limited have proposed to expand its existing plant by installing 1 X 5.5 MVA Ferro Alloy Plant at Mouza : Nakrajoria, P.S. : Salanpur, District : Burdwan in West Bengal. The expansion will be carried within the existing plant premises of 6.68 acres and green belt will be developed in 2.20 acres of area. No R & R is involved. No National Park/Wild Life Sanctuary/Reserve Forest is located within 10 km radius of the project site. Manganese ore, Fe-Mn slag, coke breeze, quartz & dolomite will be used as raw materials. Total cost of the proposed project is Rs. 10.63 Crores. Rs. 80.0 Lakhs and Rs. 10.0 Lakhs/Annum will be earmarked towards total capital cost and recurring cost for environmental pollution control measures.

3. Following are the details of existing facilities and proposed facilities to be installed:

	Units	Existing	Additional	Total
Main	Submerged Arc Furnace (SAF)	1 X 7.5 MVA	1 X 5.5 MVA	1 X 7.5 MVA and 1 X 5.5 MVA
	Induction Furnace	2 X 7 T	---	2 X 7 T
Installed	Ferro Manganese	15,225 TPA	12,330 TPA	27,555 TPA
	Silico Manganese	11,455 TPA	9,280 TPA	20,735 TPA
	Ingots	53,000 TPA	---	53,000 TPA

4. The smoke and fumes collected from SAF by the hood will be passed through bag filter before discharging through a stack of adequate height. Fugitive emissions from raw material handling section will be suppressed by dry fogging system / water sprinkling.

5. Make up water requirement for the proposed plant will be 4 m³/d in addition to existing consumption of 24 m³/d which will be sourced from borewell/rainwater harvesting pond. Maximum recycling of wastewater will be carried after proper treatment towards zero discharge. Treated wastewater will be used for dust suppression and green belt development. Effluent streams such as cooling tower blow down, floor washings, etc. will be used for fugitive dust suppression, water sprinkling etc. Sewage will be treated in septic tanks. Power requirement (existing: 14 MVA; additional : 5.5 MVA) will be met from Damodar Valley Corporation. DG set of capacity 1 X 250 kVA will be installed and used during power failure only.

6. Fines and Bag Filter dust will be recycled in the process. Fe-Mn slag will be utilized in Si-Mn production. Slag from Si-Mn production will be used in land / road / area development / manufacturing of coloured glass / insulated bricks. All pumps and motors will be selected from less noise generating types. Ear plugs will be provided to employees working in high noise prone areas. DG set will be provided with silencer.

7. The proposal was considered by the Expert Appraisal Committee-1 (Industry) in its 35th meeting held during 26th - 27th April, 2012. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public hearing for the project was held on 17.11.2011.

8. Based on the information submitted by you, presentation made by you and your consultant, M/s 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:

- i. No charcoal shall be used as fuel. Pet coke shall be used as fuel instead of charcoal from unknown sources.
- ii. Continuous monitoring facilities for all the major stacks and sufficient air pollution control equipments viz. fume extraction system with bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions below 50 mg/Nm³.
- iii. The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- iv. 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.
- v. 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 E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.

- vi. The make up water requirement shall not exceed 28 m³/day. 'Zero' effluent discharge shall be strictly followed and no wastewater should be discharged outside the premises.
- vii. Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources.
- viii. Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silico Manganese (Si-Mn). All the other ferro alloy slag shall be used in the preparation of building materials.
- ix. No Ferro Chrome shall be manufactured without prior approval from the Ministry of Environment & Forests.
- x. Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB within 3 months of issue of environment clearance letter.
- xi. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 17th November, 2011 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.
- xii. As proposed, green belt should be developed in at least 33 % of the project area. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xiii. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program shall be ensured accordingly in a time bound manner.
- xiv. 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 authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board (WBPCB) 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. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM, SO₂ and NO_x are anticipated in consultation with the WBPCB including one ambient air quality monitoring station in the downwind direction. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the WBPCB / CPCB once in six months.

- iv. Industrial wastewater shall be properly collected, 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.
- 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- 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. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.
- ix. As proposed, Rs. 2.5 Crores and Rs. 0.7 Crores shall be earmarked towards the capital cost and recurring cost/annum for environmental protection measures and judiciously utilized 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. 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.
- xi. 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.
- xii. 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 Regional Office of MOEF at Bhubaneswar, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / **WBPCB** shall monitor the stipulated conditions.
- xiii. 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.

- xiv. 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 WBPCB and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall 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.
- xv. 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.

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

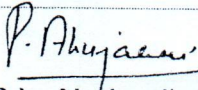
10. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

11. 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, 2003 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

(Dr. P. L. Ahujarai)
Scientist 'F'

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, Chandrashekharapur, Bhubaneswar - 751 023, Orissa
5. Guard File / Monitoring File / Record File.


(Dr. P. L. Ahujarai)
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