

F. No. J-11011/180/2010-IA-II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

Paryavaran Bhawan  
CGO Complex, Lodhi Road  
New Delhi - 110 003  
E-mail: ms.industry-mef@nic.in  
Tele/fax: 011 - 2436 3973  
Dated: 13<sup>th</sup> July, 2011

To,

M/s Jai Prabhuj Iron and Steel (P) Ltd  
23-A, NS Road, 6<sup>th</sup> Floor, Room no. 18,  
Kolkata 70001

Sub: Expansion of MS ingots manufacturing from 21,600 TPA to 36,000 TPA and installation of Submerged Arc furnace to manufacture 15,000 TPA of Silico Manganese at Kandra Industrial Area in District Dhanbad in Jharkhand by M/s. Jai Prabhuj Iron & Steel (P) Ltd - regarding Environmental Clearance

Sir,

This has reference to your letter no. nil dated 24.03.2011 along with copies of EIA/VEMP 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. Jai Prabhuj Iron & Steel (P) Ltd have proposed for expansion of induction furnace plant from 72 TPD to 120 TPD and installation of Submerged Arc furnace for Silico-Manganese (50 TPD) at Kandra Industrial Area, P.O. Bhitia, District - Dhanbad, Jharkhand. Total project area acquired is 5.38 acres (existing 3.38 + additional 2.0 acres) of which green belt will be developed in 1.8 acres of plant area. No R & R is involved as the plant is located in the notified industrial area. No wild life sanctuary/national park is within 10 km radius of the unit. Rivers Khudliya flows at a distance of 2 Km and Juria Nala at 4.2 Km from the project site. Total cost of the project is Rs. 1547.58 lakhs. Rs. 57.10 lakhs and Rs. 23.45 lakhs has been earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures.

3. The details of products along with their capacity are given below:

SL No	Units	Configuration	CAPACITY PER DAY	CAPACITY ANNUAL
1	Induction Furnace Existing - 72 TPD Expansion - 48 TPD	Existing - 1x3T & 1x6 T Addition - 1x6 T	120 TPD	36,000 TPA
2	Submerged Arc Furnace Addition	2 x 5 MVA	50 TPD	15,000 TPA

4. Sponge iron, steel scrap and cast iron will be used as raw material for MS Ingot manufacturing while Manganese ore, Fe-Mn slag, coal, coke (reductant), quartz, electrode paste, etc. will be used as raw materials for Silico-Manganese production. Sponge iron (28,000 TPA), Steel scrap (3,860 TPA), Cast iron (7,920 TPA) for MS Ingot and Mn ore (24,000 TPA), Fe-Mn Slag (13,500 TPA), Coal (5,250 TPA), coke (7,500 TPA), and Quartz (2,250 TPA) for Si-Mn will be used as raw materials. No charcoal will be used as reducing agent or in any other process. Billets manufactured will be sold to rolling mills.

5. It is noted that for control of air pollution in the existing unit, one ventury scrubber has been provided. It is proposed to install additional pulse jet type bag filters to Induction furnace and ferro alloy plant. The emission will be passed through a chimney of adequate height of 30 m. Fume extraction system with spark arrester and bag filter system would be installed to control emission from the induction furnace. Bag filter system to control the emissions from the ferro alloy plant. Dust extraction system and water sprinklers will be provided in the plant to control fugitive emissions. The waste collected in control equipments will be recycled in the process.

6. Make-up water requirement for the proposed plant will be 51.0m<sup>3</sup>/day which would be met from industrial area supply and rain water harvesting. There will be no wastewater generation due to the process. The waste water will be recycled for sprinkling and horticulture application. Domestic effluent will be routed to a septic tank and soak pit and used for green belt development. No effluent will be discharged and zero discharge will be adopted.

7. The slag generated from the production of Ingot will be used in metal recovery units. The slag generated from Si-Mn will be used as construction material, base layer for road laying and land filling. Waste oil and used batteries will be sold to authorized recyclers / reprocessors. Total power requirement of 20 MW will be met from JSEB.

8. All the secondary metallurgical industries above capacity of 30,000 TPA are listed in Category 'B' while ferro alloys plants are listed at S. No. 3(a) under Category 'A' of the Schedule of EIA Notification 2006 and appraised at the Central level. Public hearing is not required as the unit is located in Notified Industrial Area.

9. The proposal was considered by the Expert Appraisal Committee-1 (Industry) in its 24<sup>th</sup> meeting held during 19<sup>th</sup> - 20<sup>th</sup> May, 2011. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. Public hearing is not required as per Para 7(i) III (b) of EIA Notification, 2006 as the project is located in notified industrial area.

10. Based on the information submitted by you, presentation made by you and consultant, M/s Eco Care, Asansol, 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. As per the commitment submitted, 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 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/Nm<sup>3</sup>.
- iii. 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.

- 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. Make up water requirement shall not exceed 51m<sup>3</sup>/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. All the 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 three months of issue of environment clearance letter.
- xi. 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.
- xii. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on locals need and item-wise details along with time bound action plan (need based) 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.
- xiii. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, 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 Jharkhand State Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the unit shall be carried out without prior approval of the Ministry of Environment and Forests.
- 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 State Pollution Control Board may

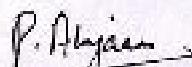
specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.

- iv. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM<sub>10</sub>, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.
- v. Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May, 1993 and 31<sup>st</sup> 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 cement grinding unit 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 EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).
- vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- viii. The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.
- ix. 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.
- x. Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.
- xi. 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.
- xii. 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 at Bhubaneswar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, 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.

- xiii. 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, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar / CPCB / SPCB shall monitor the stipulated conditions.
  - xiv. 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 Office of the MOEF at Bhubaneswar by e-mail.
  - 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 SPCB 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 should be forwarded to the Regional office at Bhubaneswar.
  - xvi. 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.
11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
  12. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
  13. 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, Handling and Transboundary Movement) Rules, 2008 and the Public (Insurance) Liability Act, 1991 along with their amendments and rules.

  
(Dr. P.L. Ahujara)  
Scientist -F

**Copy to:-**

1. The Secretary, Department of Forest, Govt. of Jharkhand, Nepal House, Ranchi.
2. The Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office, (EZ) A-3, Chandrashekharpur, Bhubaneswar-715023.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar New Delhi - 110 032.
4. The Chairman, Jharkhand State Pollution Control Board, T.A Division Building (Ground Floor) HEC Campus, Dhurwa, Ranchi -834004.
5. The Director (Monitoring Cell), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File/Monitoring File/Record File.

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