

Government of India  
Ministry of Environment and Forests  
(I.A. Division)

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

E-mail: [plahujarai@yahoo.com](mailto:plahujarai@yahoo.com)

Tele/fax: 011 – 2436 3973

Dated: 25<sup>th</sup> April, 2011

To,

The Managing Director,  
M/s M.B. Smelters Pvt. Limited  
Site No. 72, Manesamudram Area, 9<sup>th</sup> km,  
Ananthapur Road, Hindupur - 515 212,  
Andhra Pradesh

E-mail: [infor@mbsmelters.com](mailto:infor@mbsmelters.com) / [info@pioneerenvirolabs.com](mailto:info@pioneerenvirolabs.com)

**Sub:** Expansion of Ferro Alloy Plant near Villages Manesamudram and Malguru, Mandal Hindupur, District Ananthapur in Andhra Pradesh by **M/s M.B. Smelters Pvt. Limited - regarding Environmental Clearance**

Sir,

This has reference to your letter no. MBS:MOEF:NF:10-11: 381 dated 19.01.2011 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 M.B. Smelters Pvt. Ltd. have proposed to install a 2 x 9 MVA + 2 x 2 MVA furnaces (Phase - 1) and 1 x 9 MVA + 1 x 16.5 MVA furnaces (Phase - 2) in addition to the existing 1 x 1.0 MVA & 1 x 1.5 MVA Submerged Arc furnaces near Villages Manesamudram and Malguru, Hindupur Mandal, Anantapur District, Andhra Pradesh. Nearest Village is Manesamudram which is at a distance of 1.0 Km from the plant site. No National Parks / Wild life sanctuaries are situated within 10 Km. radius of the plant site. Errakonda RF is situated at a distance of 8.8 Kms. from the plant site. No forest land is involved in the proposed project site. River Penna flows at a distance of 1.8 Kms. from the plant site. The total project area for the proposed expansion is 150.68 acres of which 50 acres will be developed under green belt. Manganese ore, Quartz, Metallurgical Coke, Fluxes, Scrap, Petcoke, Calcium Flourspar will be used as raw materials. Met coke (44, 800 TPA) will be sourced from Bellary / Dharwad / Goa and Imports. Calcined pet coke (17,076 TPA) will be obtained from indigenous refineries. The capital investment for the proposed expansion project is Rs. 120 Crores [Phase - 1: 57 Crores & Phase-2: 63 Crores]. Out of which Rs. 8.5 Crores and Rs. 75 Lakhs / annum will be earmarked towards capital cost and recurring cost for environmental pollution control measures.

3. Details of the plant configuration along with production capacity are given below::

	Units	Products	Quantity (TPA)
<b>Existing</b>			
	1 x 1.5 MVA 1 x 1.0 MVA	Fe-Mn Low Carbon Ferro Alloys (SiMn & FeMn)	4,270 2,445
<b>Expansion</b>			
Phase 1	2 x 9 MVA 2 x 2 MVA	Fe-Mn OR Si-Mn Low Carbon Ferro Alloys (Fe-Mn)	59,730 2,055
Phase 2	1 x 9 MVA 1 x 16.5 MVA	Fe-Mn OR Si-Mn OR Si Alloys Fe-Si OR Si metal Slag wool from waste slag	25,200 14,200 20,000
<b>Total</b>	<b>50 MVA</b>		

4. The fugitive emissions from the Submerged Electric Arc furnaces will be sucked through hoods and will pass through a fume extraction system comprising of bag filters and then let out through 4 nos. of stacks each of 30 m height. The flue dust will be pneumatically carried to covered bins, sprayed with water mist and later briquetted and reused in the process as raw material. The out let dust emission will be less than 50 mg/Nm<sup>3</sup>. The main sources of dust pollution are crushing operations of raw materials (such as, Mn Ore, Quartz, etc) and their transfer points. A separate de-dusting system will be provided to control the dust from various material transfer points by means of suitable ducting connected to an Induced draught fan. The dust drawn from various points will pass through bag filters.

5. It is noted that water requirement of 500m<sup>3</sup>/day will be supplied by APIIC. Rainwater harvesting structures will be constructed to harvest the run-off water from roof tops by laying a separate storm water drainage system for recharging of ground water. The water conserved will be used to meet the plant water requirement. Closed circuit cooling system is envisaged. Domestic effluent (8m<sup>3</sup>/day) will be treated in septic tank followed by soak pit. No effluent will be discharged outside the premises and Zero discharge will be adopted. Power required for the proposed plant is 50 MW and same will be sourced from AP state grid.

6. Fe-Mn slag will be used in manufacture of Si-Mn as it contains high MnO and Silica. Si-Mn slag will be used for making slag wool and in road construction / crushed & after recovery of mineral given to brick manufactures. Fe-Si slag will be used in cast iron foundries.

7. The ferro alloy plants have been listed at S.No. 3(a) under primary metallurgical industry under category 'A' and appraised by the Expert Appraisal Committee at Central level.

8. The proposal was considered by the Expert Appraisal Committee-1 (Industry) in its 19<sup>th</sup> meeting held during 22<sup>nd</sup> - 23<sup>rd</sup> February, 2011. 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 15.09.2010.

9. Based on the information submitted by you, presentation made by you and consultant, M/s Pioneer Enviro Laboratories & Consultants Pvt. Ltd., Hyderabad, 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. No charcoal should 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 should 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 should 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 should be followed.
- 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 should be met from other sources.
- vi. Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated wastewater should meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 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 Bangalore, SPCB and CPCB.
- vii. The total water requirement should not exceed 500m<sup>3</sup>/day. 'Zero' effluent discharge shall be strictly followed and no wastewater should be discharged outside the premises.
- viii. All the ferro alloy slag should 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.

- ix. Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silico Manganese (Si-Mn).
- x. No Ferro Chrome shall be manufactured without prior approval from the Ministry of Environment & Forests.
- xi. Risk & Disaster Management Plan along with the mitigation measures and Slag management plan should be prepared and a copy submitted to the Ministry's Regional Office at Bangalore, SPCB and CPCB within three months of issue of environment clearance letter.
- xii. All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 15<sup>th</sup> September 2010 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 Bangalore.
- xiii. As proposed, green belt should be developed in at least 33 % of the project area. Selection of plant species should be as per the CPCB guidelines in consultation with the DFO.
- xiv. At least 5 % of the total cost of the project shall be earmarked towards the enterprise social commitment based on Public Hearing & social responsibility and item-wise details along with time bound action plan (need based) should be prepared and submitted to the Ministry's Regional Office at Bangalore. 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, 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 Andhra Pradesh Pollution Control Board (APPCB) 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 SPM, SO<sub>2</sub> and NO<sub>x</sub> are anticipated in consultation with the APPCB 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 Bangalore and the APPCB / 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 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.
- 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. 8.5 Crores and Rs. 75 Lakhs/annum 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 **APPCB**. 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.
  - 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 Bangalore, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore / CPCB / **APPCB** shall monitor the stipulated conditions.
  - xiii. 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.
  - 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 APPCB 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 Bangalore.
  - 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.
10. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
  11. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.
  12. 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.

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

**Copy to:-**

1. The Secretary, Department of Environment and Forests, Govt. of Andhra Pradesh, Mantralaya, Hyderabad, A.P.
2. The Chairman, Central Pollution Control Board Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi ? 110032.
3. The Chairman, Andhra Pradesh Pollution Control Board, Paryavaran Bhawan, A-3, Industrial Estate, Sanathnagar, Hyderabad 500 018, A. P.
4. The Chief Conservator of Forests (Central), Ministry of Environment & Forest, Regional Office (SZ), Kendriya Sadan, IV<sup>th</sup> Floor, E & F Wing, 17<sup>th</sup> Main Road, Koramangla, Bangalore - 560 034, Karnataka.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi-110003.
6. Guard file / Record file / Monitoring file.

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

