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F. No. J-11011/208/2010-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: November 23rd, 2010

To,

The Managing Director
M/s Shri Ramakrishna Ferro Alloys (India) Pvt. Limited
115, 5th Cross, 5th Main, NGEF Layout,
RMV IInd Stage, Bangalore- 560 094

Sub: Ferro Alloy Plant (Ferro Silicon - 15 TPD / Silico Manganese - 30 TPD / Ferro Manganese - 40 TPD) at Plot No. 5 & 6 Industrial Park, Village Gollapuram, Mandal Hindupur, District Ananthapur in Andhra Pradesh by M/s Sri Ramakrishna Ferro Alloys (India) Pvt. Limited - Environmental Clearance regarding.

Sir,

This has reference to your letter no. nil dated 16th September, 2010 received in the Ministry on 23rd September, 2010 along with a copy of EIA/EMP report seeking environment clearance under the provisions of EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the application for the above project. It is noted that M/s Sri Ramakrishna Ferro Alloys (India) Pvt. Ltd. have proposed to install a Ferro-silicon (15 TPD) / Silico manganese (30 TPD) / Ferro manganese (40 TPD) plant at Industrial Park (APIIC, Plot No. 5 and 6), Village Gollapuram, Mandal Hindupur, District Ananthapur in Andhra Pradesh. The total area of the plant is 17.79 Acres of which green belt will be developed in 33 % of total area. There are no national parks/wild life sanctuary/reserved forest within 10 km radius of the proposed industry. The River Penna flows at a distance of 3.5 km from the proposed industry. The total cost of the project is 9.75 crores of which Rs. 50 Lakhs and Rs. 14.25 Lakhs will be earmarked towards total capital cost and recurring cost/annum for environmental pollution control measures. About 5% of total cost of the project (Rs. 48.75 lakhs) is earmarked towards the corporate social responsibility for social upliftment in the adjoining villages.

3. The particulate emissions will be controlled below 50 mg/Nm³ by providing bag filters. The gaseous emissions will be dispersed through a stack. Fugitive emissions will be controlled by providing water sprinkler at raw material transfer points.

4. Water requirement of 24m³/day will be supplied by APIIC both for cooling of SEAF, drinking and sanitation. The cooling water will be recycled and boiler blow down will be utilized for dust suppression & greenbelt development. No effluent will be discharged outside the factory premises. Domestic waste water will be treated in septic tank and finally discharged into the soak-pit. The total power requirement is 6.5 MVA, which will be supplied by APTRANSCO. A 125 KVA D.G. set will be provided to meet the emergency power requirement.

5. The slag generated from the production process would be sold to cast iron foundries for further utilization. Rejects generated during the cleaning process will be recycled back into the production process. Dust from the bag filters will be sold to brick/cement manufacturers. Waste oil and used batteries would be sold to authorized recyclers/reprocessors.

6. All the Ferro Alloy Plants are listed at S. No. 3(a) under Primary Metallurgical Industries under Category 'A' and appraised at the Central level. It is noted that no public hearing/consultation is required due to project being located in notified industrial area as per Section (iii), Stage (3), Para (i)(b) of EIA Notification 2006. (p.164-167/c).

7. The proposal was considered by the Expert Appraisal Committee-1 (industry) in its 15th meeting held during 25th- 27th October, 2010 (p. 165-167/c). The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions.

8. Based on the information submitted by you, presentation made by you and consultant, M/s Richardson and Cruddas (1972) Ltd., Chennai, 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 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. Trace element analysis of Raw Materials shall be carried and report submitted to the Ministry's Regional Office at Bangalore within 3 months of issue of environment clearance letter.
- vi. 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.
- vii. 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 Bangalore, SPCB and CPCB.
- viii. The total water requirement shall not exceed 25 m³/day. 'Zero' effluent discharge shall be strictly followed and no wastewater should be discharged outside the premises.
- ix. 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.
- x. Slag produced in Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silico Manganese (Si-Mn).
- xi. No Ferro Chrome shall be manufactured without prior approval from the Ministry of Environment & Forests.
- xii. Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Bangalore, SPCB and CPCB within 3 months of issue of environment clearance letter.
- xiii. 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.
- xiv. At least 5 % of the total cost of the project should be earmarked towards the corporate 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 shall 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 State Pollution Control Board 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. 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 State 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 PM₁₀, SO₂ and NO_x 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 Bangalore 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 19th May, 1993 and 31st 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 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).
- 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 amount 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 Bangalore. 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 Bangalore. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, 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.
- 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 Bangalore/ CPCB / SPCB shall monitor the stipulated conditions.
- xiv. 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 Office of the MOEF at Bangalore by e-mail.

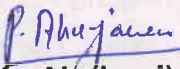
xv. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at <http://envfor.nic.in>. This shall 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 Bangalore.

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.

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.


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

Copy to:

1. The Secretary, State Department of Environment, Government of Andhra Pradesh, Mantralaya, Hyderabad.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
3. The Chairman, Andhra Pradesh State Pollution Control Board, 2nd Floor, HUDA Complex, Maitrivaram, S.R.Nagar, Hyderabad- 500 038.
4. The Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangala, Bangalore-560034.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
6. Guard file / Record file/Monitoring file.

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