

F. No. J-11011/480/2010-IA-II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

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Dated: 5<sup>th</sup> March, 2012

To,

The Director,  
M/s Sundaram Alloys Limited  
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West Bengal- 700 069

Fax: 033- 22324525 / 22314526

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**Sub: Ferro Alloy Plant (5x9 MVA) to produce Fe-Mn, Si- Mn & Fe-Si of 75,000 TPA and Sinter Plant (90,000 TPA) at Plot no. 13, APSEZ- Atchutapuram, District Visakhapatnam in Andhra Pradesh by M/s Sundaram Alloys Limited - regarding Environmental Clearance**

Sir,

This has reference to your letter No. Nil dated 29<sup>th</sup> August, 2011 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 Sundaram Alloys Limited have proposed for a Ferro Alloys Manufacturing Unit (5 X 9 MVA SEAF to produce Fe-Mn, Si-Mn & Fe-Si of 75,000 TPA & Sinter Plant(90,000 TPA)) at plot No. 13, Andhra Pradesh Special Economic Zone - Achutapuram (Village and Mandal), Visakhapatnam (District), Andhra Pradesh. Total land requirement is 20 acres of which green belt will be developed in 6.7 acres of plant area. No National park/ wildlife sanctuary / eco-sensitive area is located within 10 km radius of the project. However, Panchdarla Reserve Forest (7.5km, NW), Rambill Reserve Forest (9.5 km, SW), Pudimadku Reserve Forest (5.5km, S) and Doperla Reserve Forest (6.0 km, NE) are located within 10 km radius of the project. Manganese ore, coal/coke, dolomite, quartz, electrode paste will be used as raw materials. Total cost of the proposed project will be Rs. 98.29 Crores and Rs. 5 Crores is allocated for EMP.

Following will be the facilities and products from the proposed site:

S.No	Facility	Plant configuration	Product	Capacity
1	Submerged Arc furnace	5 X 9 MVA	Ferro Manganese Silico Manganese Ferro Silicon	30,000 TPA 30,000 TPA 15,000 TPA
2.	Sinter Plant			90,000 TPA

3. It is noted that fume extraction system with pulse jet bag filters will be provided to submerged arc furnace to control particulate emissions < 50 mg/Nm<sup>3</sup>. Water sprinkling system will be provided to control fugitive dust emissions at material handling areas.

4. Total water requirement will be 200 m<sup>3</sup>/d which will be sourced from APSEZ. No process wastewater will be generated. Maximum recycling of wastewater will be done after proper treatment. The treated wastewater will be used for green belt development. Zero effluent discharge will be maintained. Domestic wastewater generated will be sent to septic tank followed by soak pit. Rain water harvesting structures will be constructed to harvest the run-off water from the roof tops to recharge the ground water.

5. Bag filter dust will be used in brick/cement manufacturing and possibility of its use in the sinter plant will be explored. Ferro-Manganese slag will be reused in Silico-Manganese manufacturing and the remaining slag will be used in construction works. Si-Mn and Ferro Silicon slag will be supplied to the local consumers for land filling and road paving purposes. Domestic and commercial solid waste will be collected, segregated and disposed for reuse. Noise absorbing materials will be used in the construction of buildings etc. and less noise generating machinery will be installed. Total power requirement will be met from the APEPDCL

6. The Ferro alloy plants are listed at S.No. 3(a) under Primary Metallurgy Industry of the Schedule of EIA Notification 2006 under Category 'A' and appraised by the Expert Appraisal Committee (Industry-1) in the Ministry.

7. The proposal was considered by the Expert Appraisal Committee-1 (industry) in its 29<sup>th</sup> meeting held during 24<sup>th</sup> - 25<sup>th</sup> October, 2011. The Committee recommended the proposal for environmental clearance subject to stipulation of specific conditions along with other environmental conditions. The project is exempted from the public hearing as per 7(i) III (b) of EIA Notification, 2006, as it is located in Andhra Pradesh Special Economic Zone developed by Andhra Pradesh Industrial Infrastructure Corporation.

8. Based on the information submitted by you, presentation made by you and consultant, M/s Sri Sai Manasa Nature Tech 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 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 Bangalore, SPCB and CPCB.

- vi. The total water requirement shall not exceed 200 m<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. 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 Bangalore, SPCB and CPCB within 3 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 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.
- 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 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. Requisite amount 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

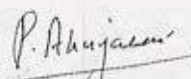
Bangalore, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bangalore / CPCB / **APPCB** shall monitor the stipulated conditions.

- 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.

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, Handling and Transboundary Movement) 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 and Forests, Govt. of Andhra Pradesh, Mantralaya, Hyderabad, A.P.
2. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi ? 110032.
3. The Chairman, Andhra Pradesh Pollution Control Board, Paryavaran Bhavan, 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. Guard file / Record file / Monitoring file.

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