



REGD.POST WITH ACK.DUE

6/9

CONSENT ORDER FOR ESTABLISHMENT

Order No. 187/PCB/CFE/RO-KNL/HO/2011 3059

Dt.19.12.2011

Sub: PCB – CFE - **M/s Sri Ramakrishna Ferro Alloys (India) Pvt Ltd, Plot No.5 & 6, IDA, Gollapuram(V), Hindupur (M), Anantapur District** – Consent for Establishment of the Board under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 - Issued - Reg.

Ref: 1) Environmental Clearance dt.23.11.2010  
2) Industry's application received through SWCC on 22.9.2011 & Addl. Information received on 29.9.2011 & 10.10.2011  
3) R.O's inspection report dt. 10.10.2011  
4) CFE Committee meeting held on 24.11.2011  
5) Industry's lr.dt. 01.12.2011 paying the balance fee.  
6) T.O. Lr.dt. 02.12.2011  
7) Industry's lr.dt. 02.12.2011 and Fax letter received on 14.12.2011

1. In the reference 2<sup>nd</sup> cited, an application was submitted to the Board seeking Consent for Establishment (CFE) to produce the following products with installed capacities as mentioned below, with a project cost of Rs. 9.50 Crores.

Sl. No.	Products	Capacity
1	Ferro Manganese (or)	16,100 TPA (40TPD)
2	Silico Manganese (or)	12,600 TPA (30 TPD)
3	Ferro Silicon	4,900 TPA (15 TPD)

2. As per the application, the above activity is to be located at Plot No.5 & 6, IDA, Gollapuram(V), Hindupur (M), Anantapur District in an area of 71,870 Sq.m (17.79 acres)
3. The above site was inspected by the Environmental Engineer, Regional office, Kurnool, A.P Pollution Control Board on 2.10.2011 and found that the site is surrounded by

North : 60' APIIC road  
South : Plot No. 6A  
East : Plot No. 5  
West : 100' APIIC road.

4. The Board, after careful scrutiny of the application and verification report of Regional Officer, hereby issues **CONSENT FOR ESTABLISHMENT** to your unit under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

5. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

Encl: Schedule 'A'  
Schedule 'B'

Sd/-  
**MEMBER SECRETARY**

To,  
M/s Sri Ramakrishna Ferro Alloys (India) Pvt. Ltd.,  
D.No.115, 5th Cross, Main NGEF Layout,  
RMV 2nd stage, Sanjaynagar,  
Bangalore - 560 094.

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JOINT CHIEF ENVIRONMENTAL ENGINEER(CFE)

## SCHEDULE - A

1. Progress on implementation of the project shall be reported to the concerned Regional Office, A.P. Pollution Control Board once in six months.
2. Separate energy meters shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed.
3. The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
4. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec.27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such modification as deemed fit and stipulate any additional conditions by the Board.
5. The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the information of the inspecting officers of different departments.
6. Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.
7. Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. The industry shall maintain a good housekeeping. All pipe valves, sewers, drains shall be leak proof. Dyke walls shall be constructed around storage of chemicals.
8. Rain Water Harvesting (RWH) structure (s) shall be established on the plant site. The proponent shall ensure that effluent shall not enter the Rain Water harvesting structure.
9. The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.
10. **This order is valid for period of 5 years from the date of issue.**

## SCHEDULE - B

### Water:

1. The source of water is ground water and the maximum permitted water consumption is 25.0 KLD

S. No.	Purpose	Quantity (KLD)
a)	Process & Washings	19.5
b)	Gardening / Irrigation	3.0
c)	Domestic (Drinking & Sanitation)	2.5
	<b>Total</b>	<b>25.0</b>

2. The maximum Waste Water Generation shall not exceed the following:

Sl. No.	Source	Quantity (KLD)	Treatment & disposal
a)	Cooling Tower Blowdown	5.0	Shall be recycled.
b)	Domestic	1.5	Septic tank followed by soak pit
	<b>Total</b>	<b>6.5</b>	

3. Closed circuit cooling system shall be adopted. No waste water shall be discharged outside the factory premises under any circumstances.
4. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
- Industrial cooling.
  - Domestic purposes.
  - Processing, whereby water gets polluted and pollutants are easily bio-degradable.
  - Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.
5. The industry shall install flow meters for quantify the utilization of treated effluents for each purpose.

**Air:**

6. The Air pollution Control equipment shall be installed along with the commissioning of the activity and shall comply with the following for controlling air pollution.

Sl. No.	Details of Stack	Stack 1	Stack 2
a)	Attached to	Submerged electric arc furnace	D.G set
b)	Capacity	8 MVA	125 KVA
c)	Stack height	30 m	As per CPCB norms
d)	Diameter	0.6 m	0.2 m
e)	Control Equipment.	Bag filters	Acoustic enclosures & Silencers

7. Continuous online monitoring facilities for the stack and sufficient air pollution control equipments viz., fume extraction systems with bag filters, ID fan and stack of adequate height to submerged arc furnace shall be provided to control emissions.
8. The air pollution control equipment shall be designed such that the emissions of particulate matter from the stacks shall be below 50 mg/Nm<sup>3</sup>. The proponent shall provide 25% of additional bags as spare in the Bag house to meet the emergency requirements.
9. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoE&F, GoI vide notification No. GSR 826(E), dated. 16.11.2009 during construction and regular operational phase of the project.

10. Ambient Air quality shall be regularly monitored at the industry premises and in the predominant wind direction. The location of continuous monitoring stations shall be fixed in consultation with concerned R.O., APPCB.
11. The industry shall always place the hood over the furnaces to suck the emissions, except during charging of raw materials into the furnace.
12. The industry shall provide dust suppression system at all the discharge and feed points.
13. All the conveyors shall be covered with G.I sheets to prevent fugitive emissions.
14. All the internal roads shall be concreted / asphalted to control fugitive emissions.
15. The industry shall install dust extraction system and dry fogging system at raw material handling areas, stock piles, ash handling points, transfer areas and other vulnerable dusty areas to control dust emissions.
16. The air pollution control equipment shall be designed such that the emissions of particulate matter from the stacks **shall be below 50 mg/Nm<sup>3</sup>**. The proponent shall provide 25% of additional bags as spare in the Bag house to meet the emergency requirements.
17. The proponent shall provide interlocking system between air pollution control equipments / continuous online monitoring system and raw material feeding system so that the feeding of raw material would be stopped automatically incase the air pollution control equipment fails/ emission levels exceed the prescribed standards.
18. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
19. The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.

**Solid Waste:**

20. The proponent shall comply with the following.

Sl. No.	Type of waste	Quantity	Method of Disposal
1	Alloy melting slag:		Cooled for easy handling and sold to cast iron foundries
	a. Ferro silicon slag (or)	0.525 TPD	
	b. Silico Manganese slag (or)	28.62 TPD	
	c. Ferro Manganese slag	32.44 TPD	
2	Cleaning process Rejects	1.6 TPD	Recycled into production process
3	Lead acid batteries	30 – 35 No.s/year	Manufacturers / approved vendors
4	Dust from Air pollution control systems	---	Brick and Cement manufacture 50% recycled and rest utilized for brick

21. Proper handling, storage, utilization and disposal of all the solid waste should be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid / hazardous waste shall be submitted to the Regional office.
22. Bag filter dust shall be reused in the ferro alloys manufacturing as raw material.
23. Ferro Manganese slag shall be reused in the production of Silico Manganese production as raw material. The proponent shall maintain the log registers on solid waste generation and disposal mode for each stream.
24. The following rules and regulations notified by the MoE&F, GoI shall be implemented.
  - a) Hazardous waste (Management, Handling and Transboundary Movement) Rules, 2008 and amendments thereof.
  - b) Manufacture, Storage & Import of Hazardous Chemicals Rules, 1989.
  - c) Batteries (Management & Handling) Amendment Rules, 2010.

**Other Conditions:**

25. The industry shall comply with all the conditions stipulated in the Environmental Clearance dt. 23.11.2010 issued by MOE&F, GOI including Greenbelt development.
26. The proponent shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.
27. The proponent shall comply with all the directions issued by the Board from time to time.
28. Concealing the factual data or submission of false information/ fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attracts action under the provisions of relevant pollution control Acts.
29. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order in the interest of environment protection.

Sd/-  
MEMBER SECRETARY

To,  
M/s Sri Ramakrishna Ferro Alloys (India) Pvt. Ltd.,  
D.No.115, 5th Cross, Man NGEF Layout,  
RMV 2nd stage, Sanjaynagar, Bangalore – 560 094.

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