INDIAN METALS & FERRO ALLOYS LIMITED

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Ref. No. IMFA(CCP-UNIT-II)/ENV/2026/370 Date:14.09.2026

The Member Secretary,
State Pollution Control Board, Odisha,
Paribesh Bhawan,A/118,
Nilakanthanagar, Unit VIII,
Bhubaneswar – 751 012.

Sub: Environmental Statement of High Carbon Ferro Chrome / Charge Chrome plant, Unit-II (2x30 MVA Furnace) for the financial year 2025-26.

Dear Sir,

We are sending herewith Annual Environmental Statement of High Carbon Ferro Chrome/Charge Chrome Plant, Unit-II for the financial year 2025-2026 for your kind information and record.

Thanking you,

Yours faithfully,
for INDIAN METALS AND FERRO ALLOYS LTD.

(B. Agarwalla)
Vice President, Head-Power Business Unit

Encl: As above.

CC : The Regional Officer,
State Pollution Control Board, Odisha,
586, Surya Vihar, Link Road,
Cuttack – 753 012

ENVIRONMENTAL STATEMENTS

FORM-V
(See Rule 14)

Environmental Statement for the financial year ending the 31st March 2026
(FOR HIGH CARBON FERRO CHROME PLANT, UNIT-II)

PART - A

i. Name & address of the owner/occupier of the industry operation or process	Bijayananda Mohapatra Wholetime Director & Chief Operating Officer, Indian Metals & Ferro Alloys Ltd., Rasulgarh, Bhubaneswar - 751010
ii. Industry Category	Primary (STC Code), Major, CK- 650 Secondary (STC Code)
iii. Production Capacity	High Carbon Ferro Chrome (HCFC): 2x30 MVA Furnace - 96,000 MT/Annum
iv. Year of Establishment	2005 (CCP-2 Furnace)/ 2010 (CCP-3 Furnace)
v. Date of the last environmental statement submitted	18-09-2025

PART - B

Water and Raw Material Consumption:

i. Water Consumption (For 2x30 MVA): (M^3/day)

Process	Nil
Cooling	438.14 M^3/day
Domestic (IMFA, Choudwar)	1136.24 M^3/day

Name of the products/ Generation	Process water consumption per product output	
	During the previous financial year 2024-25	During the current financial year 2025-26
High Carbon Ferro Chrome (HCFC)	Water is not used in the process	Water is not used in the process

ii. Raw Material Consumption (CCP-2 Furnace):

Name of the product	Name of the raw material	Consumption of raw material per unit output (in MT)	
		During the previous financial year 2024-25	During the Current financial year 2025-26
High Carbon Ferro Chrome (HCFC)	i. Chrome Ore	2.200	2.36634
	ii. Coke & Coal	0.469	0.50438
	iii. Quartzite	0.102	0.10417
	iv. Bauxite	0.187	0.24287
	v. Magnesite	0.000	0.000
	vi. Molasses	0.071	0.0636
	vii. Lime	0.032	0.03214
	viii. Carbon Paste	0.014	0.01378

iii. Raw Material Consumption (CCP-3 Furnace):

Name of the product	Name of the raw material	Consumption of raw material per unit output (in MT)	
		During the previous financial year 2024-25	During the current financial year 2025-26
High Carbon Ferro Chrome (HCFC)	i. Chrome Ore	2.263	2.4052
	ii. Coke & Coal	0.474	0.50751
	iii. Quartzite	0.102	0.10503
	iv. Bauxite	0.189	0.24795
	v. Magnesite	0.000	0.000
	vi. Molasses	0.070	0.06067
	vii. Lime	0.031	0.02633
	viii. Carbon Paste	0.014	0.01356

PART – C

Pollution discharged to environment per unit of output (Parameters as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants discharged (mass/volume)	Percentage of variation from prescribed standard with reason
a) Water: Cooling water is completely recycled. Since the gas cleaning plant attached to the furnace is dry system having bag filters to clean process gas, there is no generation of effluent from the industry.			
b) Air (CCP-2 Furnace):			
i. Particulate Matter	166.93 kg/day	45.15 mg/Nm^3	N.A
ii. Sulphur Dioxide	N.A	N.A	N.A
Air (CCP-3 Furnace):			
i. Particulate Matter	171.45 kg/day	35.99 mg/Nm^3	N.A
ii. Sulphur Dioxide	N.A	N.A	N.A

PART - D

Hazardous Wastes (CCP-2 and CCP-3 Furnaces) as specified under Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and amendment thereof.

Hazardous Wastes	Total Quantity	
	During previous financial year 2024-25	During current financial year 2025-26
a. From process	Used Oil: Nil Balance qty: Nil Waste or residue containing oil: 200 kg generated, and 100 kg disposed during furnace charging. Balance 100 kg in storage.	Used Oil: 3.56 MT (4000 litres) generated and disposed of 3.56 MT (4000 litres) Balance qty: Nil. Waste or residue containing oil: 155 kg generated, and 255 kg disposed. Balance qty: Nil.

	Discarded containers contaminated with hazardous wastes: Nil .	Discarded containers contaminated with hazardous wastes: 0.510 MT & given to the recycler 0.510 MT.
b. From pollution control facilities	GCP residue: 3412 MT (dry basis) and completely recycled	GCP residue: 3889 MT (dry basis) and completely utilized during manufacturing of chrome ore briquettes.

PART - E

Solid Waste: (CCP-2 and CCP-3)	Total Quantity	
	During previous financial year 2024-25	During current financial year 2025-26
a) From process	Ferro Chrome Slag 115976 MT.	Ferro Chrome Slag 119361 MT.
b) From pollution control facilities	N.A	N.A
c) 1. Quantity re-cylced or re-utilized within the unit	1900 MT (in making roads, concrete yard etc.)	2100 MT (in making roads, concrete yard etc.)
2. Sold	Nil	Nil
3. Disposed	1,15,976 MT (including previous stock)	117230 MT (including previous stock)

PART – F

A. Hazardous wastes are disposed as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and amendment thereof.

B. Characteristics (in terms of concentration and quant um) of solid waste.
Ferro chrome slag which is in lumpy form dumped in dump yard of Unit outside plant premises.
Characteristics:
Ferro chrome slag

Parameters	Result (%)
Cr_2O_3	10-12
SiO_2	27-32
MgO	23-29
Al_2O_3	22-25
CaO	5-7
FeO	3-5

PART – G

Impact of pollution control measures on conservation of natural resources and consequently on the cost of production. Full-fledged gas cleaning plant of modern design with adequate capacity has been installed at both the furnaces to clean the process gas generated from the furnace. Bag filters were installed at Briquette plants on the furnace to control dust emission during operation.

Final dust of gas cleaning plant is collected from silo through telescopic chute to control fugitive emission and transported to Briquette plants for recycling with chrome ore fines in manufacturing of chrome ore briquettes.

In-plant control measures, Dut Extraction System and De-Dusting System with Bag Filters, Dry-fog dust suppression system, Fume Extraction system have been installed at vulnerable sources of fugitive emission.

Wastewater utilization is continuing in regular activities like metal and slag cooling, product processing, Jigging operation, road sprinkling, dust suppression, gardening etc.

Cooling water is completely recycled and cooling towers blow-down is treated in ETP and recycled.

The following measures have been taken in the financial year 2025-26 for improvement of environmental performance.

1. Mist canon is used for material storage yard and slag storage yard.
2. Road sweeping machine was operated regularly to check on fugitive emission during vehicular movement.
3. High-capacity blowers were procured and oriented with CCP-2 & CCP-3 tapping fume extraction systems for efficient removal of fume generated during tapping process.
4. Water sprinkling systems & rain guns were provided at Truck Parking Area to minimize dust emission during vehicular movement.
5. Drum pallets were procured for safe and leak-proof storage of used oil. Spill kits were provided to concerned department for effective containment of spilled oil.
6. Various saplings and trees were planted on timely basis inside Plant premises.
7. 504 nos of various saplings were planted inside company premises & 5566 nos various saplings were planted outside the company premises.

PART – H

Additional measure/investment proposal during FY 2026-27 for environmental protection including abatement of pollution and prevention of pollution.

1. New sheds for raw material storage and handling will be constructed to reduce direct dust dispersion during machinery operation and vehicle movement.
2. Green area will be developed within the plant premises to enhance greenery and support environmental sustainability.
3. Plantation activities will be carried out both inside and outside the plant premises to increase green cover, improve the local environment, and support sustainable development.
4. Plantation will be carried out around the vehicle parking plaza to help suppress dust and reduce fugitive dust emissions.
5. Environmental awareness programs will be conducted in schools and within the plant premises to promote environmental awareness.