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FACOR

Ref. No: FACL/BDK/SPCB/091/2025-26
Date: 29.09.2025

To,

The Member Secretary,
State Pollution Control Board,
Paribesh Bhawan, A/118,
Nilakantha Nagar, Unit-VIII,
Bhubaneswar.

Sub: **Submission of Environmental Statement for the year 2024-25 by M/s Ferro Alloys Corporation Limited (Power Plant), Randia, Bhadrak.**

Sir,

With reference to the above cited subject, please find enclosed copy of Environmental Statement for the financial year ending 31st March,2025 in **Form-V** by M/s Ferro Alloys Corporation Limited (Power Plant) for your kind perusal.

Thanking you,

Yours faithfully,
For **Ferro Alloys Corporation Limited**

Girish Chandra Mohanty
Factory Manager-PP

Encl: As above

Copy to: The Regional Officer, SPCB, Balasore.

M/s. Ferro Alloys Corporation Ltd. (A subsidiary of Vedanta Ltd.)
Registered Office:
D.P.Nagar, PO : Randia, Dist.: Bhadrak, Odisha, India - 756 135
T +91-6784 240320/240347, Email: facor.mines@vedanta.co.in / facor.ccp@vedanta.co.in
Website: www.facorgroup.in, CIN: U45201OR1955PLC008400.

ENVIRONMENTAL STATEMENT REPORT

FOR THE FINANCIAL YEAR 2024-25

IN RESPECT OF

FERRO ALLOYS CORPORATION LIMITED
(POWER PLANT)

Randia, Bhadrak,
Odisha.

FORM – V
(See Rule – 14)

ENVIRONMENTAL STATEMENT FOR THE FINANCIAL YEAR 2024-25

PART - A

01.	Name and address of the owner/occupier of the industry operation	:	**Mr. Pankaj Kumar Sharma** **Chief Executive Officer** **M/s. Ferro Alloys Corporation Limited** **(Power Plant)** At:D.P.Nagar, PO:Randia, District – Bhadrak-756135, Odisha.
02.	Industry Category Primary (STC Code) Secondary (SIC code)	: :	Red category
03.	Production Capacity	:	Captive Power Plant - 100 MW
04.	Year of Establishment	:	July'2011
05.	Date of last Environmental Statement submitted	:	28.09.2024

PART - B

WATER CONSUMPTION & RAW MATERIAL CONSUMPTION

1.	**Water Consumption**	**M^3/day (Max.)**
	Process	102
	Industrial Cooling	3806
	Domestic (Potable)	59

2. Process Water Consumption

Name of the Products	Generation		Process water consumption / unit of Output	
	23-24	24-25	23-24	24-25
Power	290536 MWH	438682 MWH	3.31 m^3/MW	3.35 m^3/MW

3. Raw Material Consumption

Name of raw materials	Name of the product	Consumption of raw materials / unit of product output	
		23-24	24-25
Coal	Power	0.924 MT/MW	0.955 MT/MW
HSD	Power	32 KL	67.05 KL

PART - C

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

A: WATER

No pollutant is discharged with water as the plant follows Zero Liquid Discharge Facility.

B. AIR

Sl.No.	Location	Pollutant concentration		
		PM (mg/Nm^3)	**SO_2 (mg/Nm^3)**	**NOx (mg/Nm^3)**
1	ESP outlet of CFBC Boiler	43	160	126
		CO2 (%)	**CO (%)**	**Hg (%)**
		8.1	<0.001	0.012

PART – D

HAZARDOUS WASTE

(As specified under hazardous waste management and handling rules, 1989)

Hazardous Waste	Total Quantity	
	23-24	24-25
Used Oil	0 KL	10.19 KL
Waste containing Oil	0T	0T
Spent Resin	0 KL	0 KL
ETP Chemical Sludge	0 MT	0 MT
Empty Containers	0.98 MT	0.98 MT

PART- E

SOLID WASTE

Source	Total Quantity (MT)	
	23-24	24-25
Fly ash from Silos	100607	166029
Bottom ash from Boiler	16151	29568

PART - F

Please specify characterization (in terms of composition and quantum) of hazardous as well as solid waste and indicate disposal adopted for both these categories of waste.

Solid Waste	Total Quantity (24-25)	Characteristics of fly ash	Remarks
Fly ash & Bottom Ash	195597 MT	Al2O3 – 23.9% Arsenic (As) - <0.005 Mg/Kg Cadmium <0.005 Mg/kg Calcium (As CaO)- 7.5% Chromium (as Cr) – 2.1 Mg/kg Fe2O3 – 4.25% Lead (Pb) – 0.13 Mg/kg MgO – 1.6% Beryllium (as Be) <0.005 Mg/kg Mercury (as Hg) <0.005 Mg/kg SiO2 – 60.6 % Barium (as Ba) <0.005 Mg/kg Nikel (as Ni)-0.17 Mg/kg	We have provided 3 nos. of ash silo of 800M^3 volume each & 1 no bed ash silo for pneumatic ash conveying to control fugitive emission. Then ash is moist with 15 to 20% of recycle water in ash silo and unloaded from silo into trucks. Fly ash is being utilized in ash brick manufacturing plants and bottom ash is being used for low-lying development.

PART-G

Impact of the pollution abatement measures taken for the conservation of natural resources and on the cost of production.

1. Ferro Alloys Corporation Ltd. (Power Plant) has taken adequate pollution control measures at source level, so that the operation of the plant does not have any adverse impact on natural resources and the environment.
2. High efficiency electro-static precipitators have been installed in CFBC boiler to control the particulate matter emission within the permissible limit.
3. We have installed 10KLD STP for sewage water treatment and recycling the water in greenbelt development.
4. Similarly, 1000KLD Surface Runoff Treatment Plant has been installed to treat all runoff water inside the power plant and charge chrome plant to achieve Zero Liquid Discharge.
5. To ensure cleanliness of outside public roads as well as internal roads, a Wheel washing system is in operation to clean the wheel of vehicles.
6. Adequate green belt has been developed inside the plant premises to act as a barrier for noise and dust pollution.
7. All internal roads have been concreted to reduce the fugitive dust emission inside the plant premises.
8. In power plant, fixed and flexible water sprinkling systems have been provided at various dusts generating areas such as raw material carrying conveyer, coal circuit, rotary breaker etc. and also 1 no of mist canyon attached with fire tender (capacity of 3KL) has been engaged for sprinkling of water at raw material yard, ash disposal site and inside & outside the road of the factory.
9. Housekeeping has been taken on top priority and specific manpower has been engaged on daily basis for maintaining neat & clean environment in the plant premises.
10. One Mechanical Road Sweeping Machine has been deployed for effective cleanliness of inside roads.

FERRO ALLOYS CORPORATION LTD. POWER PLANT RANDIA BHADRAK

PART- H

Additional measures / investment proposal for environmental protection

Including abatement of pollution

Expenditure for Environmental Protection FY 2024-25

Sl. No.	Project Description	Amount (INR)
i	AMC for AAQMS & CEMS & data communication	4,92,000
ii	Operation & Maintenance expenditure on ESP	14,00,000
iii	Energy consumption cost for ESP, CHP Dust Extraction & Dust Suppression System	35,85,615
iv	Performance Improvement and maintenance of Effluent Treatment Plant	14,75,408
v	Labor Engagement for housekeeping & Plantation maintenance work	13,05,404
vi	Engagement of Truck mounted Mist cannon	25,48,661
vii	Operational & Maintenance of Road sweeping machine	18,28,926
viii	Ash Handling expenses	21,97,777
ix	Operation & Maintenance of STP	1,98,781
x	Environment Monitoring Expenses (Air, Water, Waste, Noise etc)	2,46.389
xi	AMC for surveillance system (HD IP Camera)	1,21,200
xii	Calibration of Flowmeters	2,00,000

PART – I

Any other particulars for improving the quality of the environment

Ferro Alloys Corporation Limited (Power Plant) has taken various initiatives for abatement of pollution control and environment protection measures. We have installed 10KLD STP for sewage water treatment and recycle the water in greenbelt development. Similarly, 1000KLD Surface Runoff Treatment Plant has been installed to treat all runoff water inside the CPP & CCP plant to achieve Zero Liquid Discharge. Power Plant is continuously putting effort into achieving 100% ash utilization for making fly ash bricks and low-lying area development. Fly ash

Fly ash bricks are utilized in our construction activities to promote circular economy. We have engaged mist canyon and mechanized road sweeping machine to control fugitive emissions. We are continuously developing greenbelt wherever open space is available to improve plant beautification as well to act as a barrier for prevention and control of pollution.

FERRO ALLOYS CORPORATION LTD POWER PLANT RANDIA BHADRAK