

Ref.: HZL/ZM/CPP/ENV/2026 **1292**

Date -21.08.2026

By Registered

The Member Secretary
Rajasthan State Pollution Control Board
4- Institutional Area, Jhalana Dungri
JAIPUR-302004 (Raj.)

Sub.: Environmental Statement for the year 2025-26 for Zawar CPP

**Ref: F(Mines)/Udaipur(Sarada)/50(1)/2016-2017/2021-2023 dated
21.06.2023**

Sir,

Please find attached herewith the **Environmental Statement** for the year
2025-26 for **Zawar Captive Power Plant.**

Thanking you

Yours Faithfully



Mohammad Parvez
(Head - ZAWAR CPP)

UNIT HEAD
HINDUSTAN ZINC LTD.
90MW CPP ZAWAR
P.O.-ZAWAR MINES
DISTT.-SALUMBER-313901

Encl.: As above

- CC: 1. The Deputy Director (S), Scientist- C, Ministry of Environment, Forest & Climate Change, Integrated Regional Office, B-213 & 216, Aranya Bhawan, Jhalana Institutional Area, Jaipur (Rajasthan)- 302004
2. The Regional Officer, Rajasthan State Pollution Control Board, F-470, Near UCCI Building, Madri Industrial Area, Udaipur-313003 (Raj.)
→ 3. Office Copy Env. Cell/CPP Zawar

FORM – V**(See Rule- 14)****Environmental Statement for the financial year ending the 31st March 2026****PART – A**

(i)	Name and Address of the Owner / Occupier of the Industry / Operation and Process	Sh. Amarendu Prakash (Occupier) CEO & Whole Time Director Hindustan Zinc Limited, Yashad Bhawan, Udaipur-313001 (Raj)
		Mohammad Parvez (Factory Manager) Head CPP ZAWAR Hindustan Zinc Limited, Zawar Mines Dist.- Udaipur- 313901 (Raj)
(ii)	Industry category	Red
(iii)	Production capacity	90 MW Power Generation
(iv)	Year of establishment	16.12.2008
(v)	Year of last environment statement submitted.	29.08.2025

PART – B**Water and Raw Material Consumption**(i) Water consumption m³/day

Process- 4001.76

Cooling- NA

Domestic- NA

Name of Products		Process water consumption per unit of product output	
		During the previous financial year (2024-25)	During the current financial year (2025-26)
		(1)	(2)
(1) Power		2.23 m ³ /MWh	2.25 m ³ /MWh
(ii) Raw material consumption			
Name of raw materials	Name of Products	Consumption of Raw material per unit of output	
		during the previous financial year (2024-25)	during the current financial year (2025-26)
Coal Consumption	Power	528.45 gm/kwh	553.63 gm/kwh

Increase in coal consumption is due to the use of lower GCV coal.

PART – C

Pollution discharged to environment/unit of output.

(Parameter as specified in the consent issued)

(1) Pollution	Quantity of pollutants discharged (m ³ /day)	Concentration of pollutants in discharges (m ³ /day)	Percentage of variation from prescribed standards with reasons
(a) Water	Zero Discharge	Within the limits as prescribed by RSPCB in Consent to Operate	NIL
(b) Air	Less than 50 mg/Nm ³ of SPM	Within the limits as prescribed by RSPCB in Consent to Operate	NIL

PART – D

HAZARDOUS WASTES

(as specified under Hazardous Wastes (Management, Handling & Transboundary Movement) Rules 2016)

Hazardous wastes	Total quantity during the year (MT)	
	during the previous financial year (2024-25)	during the current financial year (2025-26)
(a) From Process		
Used/Spent Oil Sold	0.98	0
(b) From pollution control facility	Nil	Nil

Note: Used oil from entire location is collected and sold from central store of Zawar Mines. As Zawar Mines complex (including CPP) is having common HWs authorization, quantity of oil sold from central store has been mentioned in Environment statement submitted for Zawar mines that includes for entire location including CPP.

PART – E

Solid Wastes

	Total Quantity (MT)			
	during the previous financial year (2024-25)		during the current financial year (2025-26)	
(a) From process				
(b) From Pollution control facility	Fly Ash	Bottom Ash	Fly Ash	Bottom Ash
(c) (1) Quantity recycled or re-utilized within the unit.	-	126.52	-	8.0
(2) Sold	81944.31	11185.23	88123.85	13145.06
(3) Disposed	-	-	-	-

PART – F

Please specify the characteristics (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice for both of these categories of wastes.

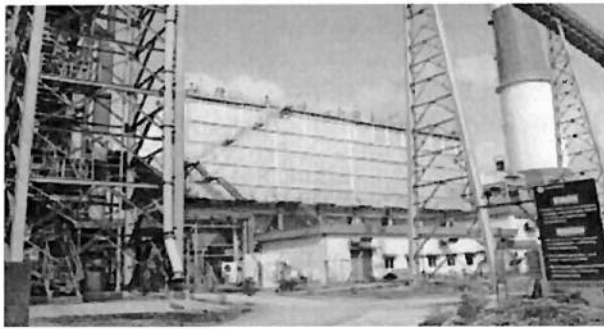
1. The Hazardous Waste generated is used / spent oil which is stored in 220 litre drums and then disposed to registered/ authorized recyclers.
2. Solid wastes generated are Fly Ash and Bottom Ash. These are sold to Cement Plants/ brick manufacturers in suitably designed bulkers owned by the cement plants. Also, bottom ash is partially recycled.

PART – G

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

It may be noted that higher production of power is achieved taking following measures:

- Better capacity utilization of plant and equipment;
- Better maintenance practices resulting in lesser downtime and increased plant availability.
- 8 field ESP to arrest SPM going through chimney to maintain the emission below specified limit.
- Online monitoring system at stack for continuous monitoring of pollutants.
- Zero Discharge is followed. 100% blow down water reused for dust suppression as well for reuse in beneficiation plant
- STP water after treatment is pumped to blow down tank of CPP and utilized in CPP
- Cyclone separators and Bag filters at the transfer points so as to ensure minimum fugitive emission.
- Covered Coal conveyers for conveying of coal.
- Dust suppression and Dust extraction system installed to improve emissions within the plant premises.
- Regular care of the plantation is being taken.



8 Field ESP



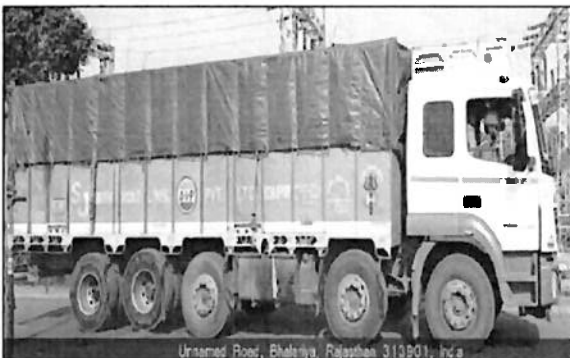
Ash Transportation via Bulker



Covered conveyor belt



Covered Conveyor Belt



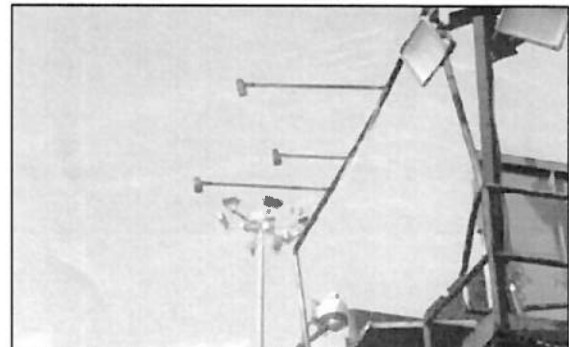
Transportation via covered trucks



Concrete roads in Plant



Mist sprinkling system in coal yard



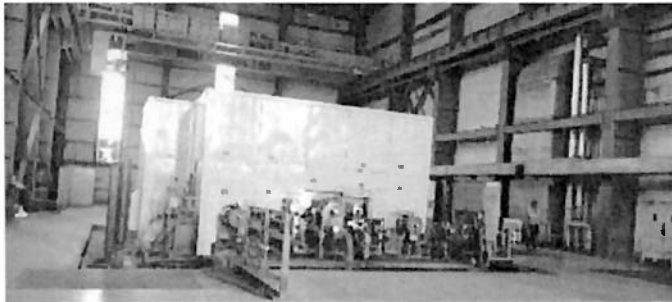
Water sprinkling system at coal yard



Coal Crusher Building



CAAQMS



Acoustic Enclosure for Turbine



Plantation Near Boiler Plant



Plantation Near Crusher House



Plantation Near DM Plant



Plantation Near Switch Yard



CAAQMS Station



Stack Mercury Monitoring Station

PART – H

Additional measures/investment for environmental protection abatement of pollution, prevention of pollution.

1. Water spraying on approach roads, coal yard to minimize fugitive dust outside the plant.
2. Monitoring of ambient air quality on regular basis at four locations, monitoring of both the stacks as well as water sample analysis
3. Proper training given to employees on various environment aspects like waste management, water awareness, climate change management and environment rules and regulation etc.
4. Zawar location including Captive Power Plant is certified for **ISO-9001:2015(QMS)**, **ISO-14001:2015 (EMS)**, **ISO-45001:2018 (OHSMS)**

PART – I

Any other information for improving the quality of the environment.

1. **World Environment Day Celebration:** World Environment day was celebrated on 5th June. Various competitions for employees and children were conducted. Prizes were given to the winners on spot.



2. Safety Week was celebrated in CPP premises.



3. Energy Conservation Week Celebration: Celebrated energy conservation week in which various events like poster, slogan & crossword competition were organized. Conserve to preserve hour organized in office premises. Organized **No Vehicle Day** on 13th December.



HINDUSTAN ZINC LIMITED					
STACK MONITORING (in mg/Nm3), CPP ZAWAR					
Stacks	ESP				Coal Crusher
Parameters	PM	SOx	Nox	Hg	PM
Limits	50	-	450	0.03	50
Apr-25	26.2	853.5	250.7	0.0194 (Online data) (Average Value)	25.2
May-25	28	890.1	272.4	0.0153 (Online data) (Average Value)	29.4
Jun-25	27.7	840.6	265	0.0148 (Online data) (Average Value)	28.3
Jul-25	25.5	785.6	261.4	0.0148 (Online data) (Average Value)	27.9
Aug-25	27.4	752	269.8	0.0145 (Online data) (Average Value)	26.6
Sep-25	28	785.6	250.6	0.012 (Online data) (Average Value)	27.5
Oct-25	28.7	762.8	283.3	0.0097 (Online data) (Average Value)	25.1
Nov-25	28.3	766.3	280.7	0.009 (Online data) (Average Value)	27.5
Dec-25	28.4	735.8	252.9	0.012 (Online data) (Average Value)	26.0
Jan-26	25.9	728.3	269.5	0.011 (Online data) (Average Value)	26.1
Feb-26	28.7	745.3	254.6	0.009 (Online data) (Average Value)	28.8
Mar-26	26.5	749.9	238.7	0.009 (Online data) (Average Value)	25.4

Ambient Air average values (in µg/m3) for 2025-26

Location	Parameters	Limits	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26
Ashok Nagar	PM 10	100	55.5	59.2	50.75	50.65	47.55	52.5	57.4	55.15	53.55	53.85	55.35	55.9
	PM 2.5	60	33.35	35.75	29.7	30.05	27.7	31.6	34.5	33.3	31.95	31.55	33.8	33.05
	SOx	80	6.4	6.8	6.05	6.4	6.1	6.55	6.8	6.6	6.65	7.2	6.7	6.75
	NOx	80	8.75	9.8	8.2	9.9	8.4	9.7	10.5	10.3	9.4	9.3	8.5	9.65
	CO	4000	687.5	802	573	630	515.5	687	744.5	744.5	630	742.5	744.5	744.5
Weigh Bridge	PM 10	100	60.55	61.5	58.5	55.5	51.3	56.15	61.9	59.2	58.95	57	58.55	59.5
	PM 2.5	60	35.75	36.6	34.55	33.35	30.3	33.4	37.55	37.15	35.4	34.15	35.1	36.75
	SOx	80	7.35	7.45	7.4	7.25	6.75	7.25	7.7	7.4	7.05	7.3	7.95	7.6
	NOx	80	11.15	11.25	10.1	10.65	9.65	11.15	11.3	12.25	12	12	12.25	11.65
	CO	4000	744.5	802	744.5	687.5	687	802	859	916	744.5	800	859	859
Main Gate	PM 10	100	68.8	66.85	60.95	60.55	55.5	59.5	65.85	66.15	67.15	63.8	67.25	66.7
	PM 2.5	60	41.35	39.85	36.35	34.9	32.7	35.8	39.65	40.65	39.5	38.2	40.6	39.3
	SOx	80	8.3	8.35	7.9	7.7	7.15	7.8	8.3	8.45	8.1	8.45	8.85	8.3
	NOx	80	12.05	11.6	11.05	13.8	11.45	12.8	14.3	15.3	13.05	12.4	13.3	13.75
	CO	4000	1088	1031	916.5	801.5	687.5	916	916.5	1088	859	916.5	973.5	973.5
MAS Office	PM 10	100	60.85	60.45	55.35	54.8	50.05	57.05	63.15	56	65.4	65.4	61.95	62.8
	PM 2.5	60	35.95	36.05	32.95	32.65	30.6	34.05	37.5	34	38.65	39.2	36.4	37.8
	SOx	80	7.5	7.7	7.1	7.15	6.65	7.45	7.6	7.05	7.7	7.25	7	7.4
	NOx	80	10.9	11.45	9.6	10.15	9.35	11.7	10.95	10.7	11.9	12.45	11.2	10.8
	CO	4000	744.5	859	744.5	630	573	801.5	859	687	973.5	800	859	916

Day time Noise Levels [in dB(A)] for 2025-26

Location	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan- 26	Feb- 26	Mar- 26
Near Main Gate	58.9	57.2	64.3	62.7	59.5	58.4	58.1	57.9	58.6	56.9	61.0	64.2
Near STP	62.8	63.1	66.7	67.2	63.7	62.2	62.8	61.9	62.6	63.7	64.5	66.6
Near Weigh Bridge	64.9	63.7	61.8	66.8	60.9	62.5	64.1	71.2	62.3	64.3	62.2	60.9
Mass Office	63.7	63.2	65.5	65.5	73.1	63.6	63.5	62.6	63.4	62.1	64.7	66.8
Permissible Limit	75											

Night time Noise Levels [in dB(A)] for 2025-26

Location	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan- 26	Feb- 26	Mar- 26
Near Main Gate	50.4	52.5	51.4	53.2	50.5	52	50.3	52.0	48.5	49.9	52.4	54.1
Near STP	58.5	60.4	63.5	64.8	60.6	61	61.4	62.0	50.5	50.8	54.0	54.7
Near Weigh Bridge	55	56.2	51.6	53	55	56.3	48.6	62.1	49.7	49.2	51.0	52.5
Mass Office	54.2	54.7	57.3	54.1	60.2	56	52.7	54.3	52.0	51.0	54.6	54.8
Permissible Limit	70											

Final Treated Water Analysis Report for 2025-26

Parameters	Limits	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26
TSS mg/lt	100	5	15	12	9	12	18	7	8	20	45	13	13
BOD mg/lt	30	7	8	9	8	9	27	6	6	7	9	7.5	7.5
COD mg/lt	250	38	43	40	37	46	140	30	35	35	44	34	34
pH	6.5-8.5	7.29	7.24	7.26	6.76	7.20	7.51	7.13	7.28	7.45	7.32	7.64	7.64
Phosphate as P mg/lt	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Oil & Grease mg/lt	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Free Available Chlorine mg/lt	0.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	<0.2
Copper mg/lt	1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Iron mg/lt	1	0.03	0.04	0.04	0.03	0.04	0.26	0.03	0.05	0.05	0.04	0.05	0.05
Total Chromium Cr+6 mg/lt	0.2	<0.01	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc mg/lt	1	0.04	0.05	0.04	0.03	0.05	0.16	0.02	0.03	0.1	0.07	0.05	0.05
Sulphide mg/lt	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Ashok Nagar STP Analysis Report for 2025-26

Except pH all value are in mg/ltr

Parameters	Limits As per CTO	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan- 26	Feb- 26	Mar- 26
Total Suspended Solids	100	<5	7	8	13	14	18	10	19	14	12	16	16
pH Value	5.5-9.0	7.04	7.37	6.96	6.87	6.85	7	7.58	7.21	7.22	7.04	7.43	7.26
Oil and Grease	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Residual Chlorine	1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Ammonical Nitrogen (as N)	50	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Total Kjeldahl Nitrogen (as N)	100	<5	5.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Biochemical Oxygen Demand (3 days at 27°C)	30	6	9	7	9	8	9	8	8	8.5	7.6	8	7
Sulphide (as S)	2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Chlorides	1000	137.9	157.9	123.9	141.9	119.9	58	66.0	123.9	73.9	69.0	129.9	73.9
Sulphates	1000	215.4	245.3	210.9	218.5	185.7	22.9	28.2	194.5	92.1	36.7	244.1	92.1
Chemical Oxygen Demand	250	35	48	35	46	44	49	45	47	44	40	45	40

Total Expenses for 2025-26

Particulars	Amount in Rs.
Plantation/Monitoring/Ash/RSPCB/Other Env Exp	24,85,912.25