



MAP/ENV/EAS/2025-26/236

23rd September 2025

To,
The Member secretary,
M.P. Pollution Control Board,
E-5, Area Colony Bhopal
(Madhya Pradesh)-462016

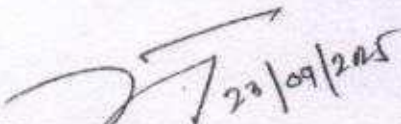
Subject: - Submission of Environmental Statement (Form-V) for FY' 2025.

Dear Sir,

Please find the herewith enclosed Environmental Statement (Form-V) for the financial year ending 31st March-2025 as per Substituted by Rule 2(a) (i) of the Environment (Protection) Amendment Rules, 1993 vide notification G.S.R. 386(E), dated 22.4.1993(29 of 1986).

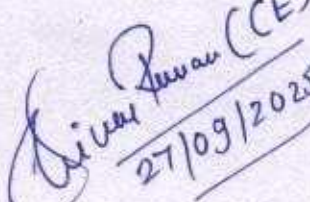
Thanking you,

for- Hindalco Industries Limited, Unit-Mahan Aluminium


(Manoj Kumar Tiwari)
Environment Cell

Cc:
The Regional Officer
M.P. Pollution Control Board
Bhakuar, Naugadh,
Singrauli, (M.P.)

Received


Anil Kumar (CE)
27/09/2025

Hindalco Industries Limited

Unit Office: Mahan Aluminium, NH-75-E, Singrauli-Sidhi Road, P.O. Bargawan 486 886, District: Singrauli, Madhya Pradesh, India | T: +91 78052 61052
Registered Office: 21st Floor, One Unity Center, Senapati Bapat Marg, Prohadevi, Mumbai - 400012, India | T: +91 22 69477000 / 69477150 | F: +91 22 69477001/69477090
W: www.hindalco.com | E: hindalco@adityabirla.com | Corporate ID No.: L27020MH1958PLC011238



HINDALCO INDUSTRIES LIMITED
MAHAN ALUMINIUM, BARGAWAN, SINGRAULI (M.P.)

FORM-V
(See Rule 14)

Environment Audit Statement For the Financial Year Ending 31st March 2025

PART - A

1	Name & Address of the owner/occupier of the Industry, Operation or Process	Mr. Satish Pai M/S Hindalco Industries Ltd. Mahan Aluminium Off: NH-75E, Bargawan Distt: Singrauli (M.P.) 486886
2	Industry category	Large / Red
3	Production Capacity	3.98 LTPA - (Aluminium Smelter) 6 X 150 MW - Power Plant (1 X 150 MW stand by unit)
4	Year of establishment	2009
5	Date of the last Environment Audit Statement submitted	27.09.2024

Part - B
Water Consumption

i)	Water Consumption in m3/ day		Please refer Annexure - 1		
			Current year (2023-24)	Current year (2024-25)	Remarks
	Process	:	37942	35362	
	Cooling	:	-	-	
	Agriculture	:	-	-	
	Domestic	:	1707	1815	Including Township consumption

	Water Consumption per unit product (KL/Unit product)	UOM	Current year (2023-24)	Current year (2024-25)	Remarks
	Name of the Product				
	Electricity	KL/MWH	2.40	2.27	Calculation as per actual meter reading has separated the water consumption between Power plant and Smelter (recycled water not included).
	Primary Aluminium	KL/MT	1.044	0.585	

Raw Material Consumption

ii)	Raw Material Consumption Per unit Product	UOM	Previous year (2023-24)	Current year (2024-25)	Remarks
	Name of Raw Materials				
	Alumina	MT/ T of Al	1.932	1.943	
	Aluminium fluoride	MT/ T of Al	0.013	0.013	
	Coal	MT/ MWH	0.615	0.627	
	CP coke	MT/ T of Al	0.376	0.382	
	Fuel Oil CPP	KL/ MWH	0.0001	0.0001	
	Fuel Oil Smelter	KL/ T of Al	0.030	0.033	
	Pitch	MT/ T of Al	0.080	0.081	

Part -C
Pollution Discharged to environment per unit of output
(Parameter as specified in the consent issued)

Sl. No.	Pollution	UNIT #	Qty of pollutants discharged (kg/day)	% of variation from prescribed standards with reason	Remarks
a)	Water		We are recycling all treated effluent within the premises.		
b)	Air				
	Power Plant				
	PM ₁₀ (Kg/day)	Unit 1	456	NIL	
		Unit 2	1131	NIL	
		Unit 3	962	NIL	
		Unit 4	947	NIL	
		Unit 5	1057	NIL	
		Unit 6	1011	NIL	
	SO ₂ (Kg/day)	Unit 1	4343	NIL	
		Unit 2	6579	NIL	
		Unit 3	5550	NIL	
		Unit 4	4339	NIL	
		Unit 5	5577	NIL	
		Unit 6	5291	NIL	
	NO _x (Kg/day)	Unit 1	3145	NIL	
		Unit 2	4369	NIL	
		Unit 3	3614	NIL	
		Unit 4	2885	NIL	
		Unit 5	4340	NIL	
		Unit 6	4022	NIL	
	Aluminium Smelter				
	PM ₁₀ (Kg/day)	GTC 1	720.70	NIL	
		GTC 2	608.14	NIL	
		FTC	26.40	NIL	
	HF (Kg/day)	GTC 1	19.11	NIL	
		GTC 2	19.90	NIL	
		FTC	0.61	NIL	

Part -D

Hazardous Wastes

As specified under Hazardous and other Wastes (Management and Transboundary movement) Rules, 2016

Generation Quantity

S.N.	Hazardous Wastes	UOM	Current year (2023-24)	Current year (2024-25)	Remarks
a)	From Process				
i	Used oil / Spent oil (5.1)	MT	111.65	100.42	
ii	wastes / residues containing oil (5.2)	MT	8.91	8.10	
iii	cathod residues including pot lining wastes (11.2)	MT	7299.21	8300.09	
iv	Aluminium Drosses (11.5)	MT	4622.99	4517.20	
v	Used anode butts (11.6)	MT	50538.63	51917.34	
vi	Spent ion exchange resin containing toxic chemicals (35.2)	MT	0.00	0.00	
vi	Tar Containing Waste (11.3)	MT	3.16	3.07	
viii	Flue Gas Dust and Other Particulates (11.4)	MT	3067.52	839.36	
ix	Empty Barrels/ Containers/ Liners Contaminated with Hazardous Chemical/ waste(33.1)	MT	7.16	9.96	
x	Contaminated Cotton Rags or other Cleaning Materials (33.2)	MT	4.39	8.15	
xi	Cat. A72(Sch-II): Fluoride		0.00	0.00	
xii	Cat. 15.2: Discarded Asbestos	MT	0.00	0.00	
b)	From Pollution Control facilities				
i	Chemical Sludge From Waste Water Treatment (35.3)	MT	95.00	97.50	

Part -E

Solid Wastes

i)	Total Quantity	UOM	Previous year (2023-24)	Current year (2024-25)	Remarks
a)	From Process				
i	Fly ash	LMT	9.74	10.13	
ii	Bottom ash	LMT	1.08	1.13	
b)	From Pollution Control facilities	LMT	--	--	
c) 1)	Qty recycled or reutilised within the unit	LMT	--	--	
i	Fly ash	LMT	14.20	9.72	Includes internal use as well as supplied to Cement Industries, Brick manufacturing, Road Construction and low lying area
ii	Bottom ash	LMT	1.14	2.44	Disposed from ash dyke

Part - F

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

Hazardous Wastes:

1. All the hazardous wastes generated, are safely stored in identified storage sheds as well as proper display of identification. We have received the authorization under Hazardous and Other waste (Management and Transboundary Movement) Rules-2016.

Part - G

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

1. To maintain constant vigil on environmental compliance, environmental reviews are carried out in all section and remedial measures have been taken wherever necessary. Such periodic Environmental reviews and extensive monitoring of the facilities carried out in all over plant have helped comply with the environmental norms.
2. Carbon sequestration study was completed as well as for flora and fauna by CII team score was 64%.
3. Construction of check dam in surrounding villages to benefit the local farmers and improve the water level.
4. Survey done by MNIT Prayagraj for strengthen the Rain Water harvesting system.

Part - H

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

1. All internal roads within the plant premises are either concreted or blacktopped to minimize fugitive dust emissions from vehicle movement.
2. Miyawaki plantation is being developed along the boundary wall and in open spaces inside the plant. Additionally, lawns and gardens have been established in select areas of the plant premises and township to enhance beautification. A plan is in place to cover 33% of the total land area with greenery.
3. In addition to the dust extraction system at the dry fly ash loading silo, water sprinklers have been installed at the loading bay to control any fugitive emissions during loading.
4. Good housekeeping practices are consistently maintained across the premises.
5. Water sprinkling arrangements are in place at the coal handling area to reduce fugitive dust emissions.
6. All stacks are equipped with Continuous Emission Monitoring Systems (CEMS).
7. Continuous Ambient Air Quality Monitoring Stations (CAAQMS) have been installed in all four direction.
8. State of the art dry scrubbing systems have been commissioned at the pot line and anode baking facilities to minimize the impact on environment as well on human health.
9. The pot line is equipped with latest microprocessor-based control systems.
10. Proper arrangements are in place for the safe storage of hazardous waste, effluent and ecofriendly disposal practices adopted.
11. High-efficiency Electrostatic Precipitators (ESPs) are installed and connected with boilers to minimize the particulate matter emission.

Part - I

Any other particulars for improving the quality of the environment

1. During the reporting period, we planted 29,749 saplings, bringing the total plantation inside the premises up to 11.64 lakh saplings till FY 2024-25. Out of these, 8.64 lakh plants have survived, achieving a survival rate of 74.25%. Efforts are ongoing to further enhance greenbelt development and beautification within the plant premises and township area.
2. Adequate water sprinkling arrangements have been made at the ash dyke to control fugitive emissions.
3. Flue Gas Desulfurization (FGD) systems have been installed for desulfurization of flue gas emissions.
4. Mechanical sweeping machines have been deployed for regular road clearing throughout the plant area.

(Dr. Vinod Kumar)

Assist. Manager - Environment

(Manoj Kumar Tiwari)

Manager - Environment

Date : 23.09.2025

e-File Returns/Periodical Compliance

Select Report Year

2025-2026

Select Compliance Documents
Type

Environment Statement (Form-V)

Remark

Environment Statement Form-V FY 2024-25

Upload document

Choose File

No file chosen

Submit

S.No.	Compliance Documents	Year	DateTime	Remark	Comments	View
1	Environment Statement (Form-V)	2025-2026	26/09/2025 10:30:12	Environment Statement (Form-V) FY-2024-25	Comments	View (../openpdf.aspx?id=28812)
2	HW Intimation Letter	2025-2026	25/09/2025 17:17:24	Intimation letter Regarding Hazardous Waste (AI Dross) Category 11.5 Transportation	Comments	View (../openpdf.aspx?id=28810)
3	HW Intimation Letter	2025-2026	24/09/2025 18:00:37	Intimation letter Regarding Hazardous Waste Cat. 11.4, Transportation	Comments	View (../openpdf.aspx?id=28772)
4	HW Intimation Letter	2025-2026	22/09/2025 17:16:21	Intimation letter Regarding Hazardous Waste (AI Dross) Category 11.5 Transportation	Comments	View (../openpdf.aspx?id=28742)
5	HW Intimation Letter	2025-2026	22/09/2025 17:15:51	Intimation letter Regarding Hazardous Waste (Cat. 11.2- Cathode Residues Including Pot Lining Wastes) Transportation...	Comments	View (../openpdf.aspx?id=28741)
6	HW Intimation Letter	2025-2026	17/09/2025 14:37:33	Intimation letter Regarding Hazardous Waste (AI Dross) Cat. 11.5 Transportation	Comments	View (../openpdf.aspx?id=28640)
7	HW Intimation Letter	2025-2026	15/09/2025 15:14:28	Intimation letter Regarding Hazardous Waste (AI Dross) Category 11.5 Transportation	Comments	View (../openpdf.aspx?id=28577)
8	HW Intimation Letter	2025-2026	15/09/2025 15:14:05	Intimation letter Regarding Hazardous Waste (Cat. 11.2- Cathode Residues Including Pot Lining Wastes) Transportation....	Comments	View (../openpdf.aspx?id=28576)
9	HW Intimation Letter	2025-2026	13/09/2025 10:25:07	Intimation letter Regarding Hazardous Waste (Aluminum Dross Cat. 11.5) Transportation	Comments	View (../openpdf.aspx?id=28544)
10	HW Intimation Letter	2025-2026	12/09/2025 17:20:54	Intimation letter Regarding Hazardous Waste (Aluminum Dross Cat. 11.5) Transportation	Comments	View (../openpdf.aspx?id=28543)