



Ref.: AA/E&S/2026/1513

Date: 14/08/2026

To

The Regional Officer

State Pollution Control Board,
Plot No.1070, Hospital Road, Modipara,
Sambalpur – 768 002, Odisha

Sub.: Submission of Environmental Statement (Form – V) for the FY 2025 – 26.

Ref.: Environment Clearance (EC) Letter No. J-11011/136/2009-IA-I (1) dated 29th Nov.
2012 and amendments dated 14/06/2013, 14/08/2018 and dated 07/06/2025.

Dear Sir,

With reference to the Clause No. XIII, General Conditions of the Environmental Clearance, please find attached herewith the Annual Environment Statement for the year 2025-26 in Form-V.

We request for acknowledgement of receipt of the letter.

Thanking you,

Yours faithfully,
For Aditya Aluminium


Jagannath Prasad Nayak
President & Unit Head

Copy to:

1. The Member Secretary, State Pollution Control Board, A/118, Nilakanthanagar, Bhubaneswar.
2. The Director, Eastern Regional Office, MoEFCC, A/3, Chandrasekharpur, Bhubaneswar.
3. The Regional Director, Central Pollution Control Board, Southernd Conclave, 1582 Rajdanga Main Road, Kolkata -700107

Hindalco Industries Limited

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Registered Office: 21st Floor, One Unity Center, Senapati Bapat Marg, Prabhadevi, Mumbai - 400013, India
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Corporate ID No.: L27020MH1958PLC011238

FORM – V

(See rule 14)

Environmental Statement for the financial year ending the 31st March 2026**PART – A**

Name and address of the owner/ occupier of the industry operation or process.	Mr. Satish Pai 21st Floor, One Unity Center, Tower 4, Senapati Bapat Marg, Prabhadevi, Mumbai-400013
Industry category	Large scale Industry (Red Category)
Production capacity	6x150 MW CPP & 0.48 MTPA Aluminium Smelter
Year of establishment	2013-14
Date of the last environmental statement submitted	13 th September 2025

PART – B**(1) Water Consumption (m3/Day):**

Process:	} 28633 m3/day (avg.)
Cooling:	
Domestic:	1824 m3/day (avg.)

Sl. No.	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	Aluminium Metal	1.61 m3/ MT	1.61m3/ MT
2	Power	1.94 m3/MWH	1.82 m3/MWH

ii) Raw Material Consumption

Sl. No.	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
1	Coal	Power	0.735 Kg/KWH	0.725 Kg/KWH
2	Alumina	Aluminium metal	1.931 ton / ton of metal	1.931 ton / ton of metal
3	Carbon		0.411 ton/ ton of metal	0.409 ton/ ton of metal
4	Energy (electricity)		14,266 KWH/ ton of metal	14147 KWH/ ton of metal
5	AlF ₃		11.99 kg / ton of metal	12.15 kg / ton of metal

PART – C

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

1) Pollutants	Units & Parameters		Quantity of pollutants discharged (mass/day)	Concentrations of pollutants in discharges (mass/volume)	% of variation from prescribed standards with reasons
a) Water			Nil	NA	NA
b) Air	UOM		Kg/Day	mg/Nm3	
	CPP Unit -1	PM	673.26	43.28	Within the prescribed limits
		SOx	15250.84	977.46	
		NOx	4191.72	268.76	
	CPP Unit -2	PM	594.81	42.7	
		SOx	14810.47	1065.58	
		NOx	3279.40	210.4	
	CPP Unit -3	PM	715.07	43.55	
		SOx	18403.25	1170.2	
		NOx	3958.38	251.6	
	CPP Unit -4	PM	461.46	43.06	
		SOx	12611.84	1180.4	
		NOx	2730.04	256.79	
	CPP Unit -5	PM	562.20	43.06	
		SOx	16136.11	1260.6	
		NOx	3742.69	280.8	
	CPP Unit -6	PM	562.10	31.13	
		SOx	13032.38	1086.6	
		NOx	4709.67	210.4	
	GTC -1	PM	175.66	3.36	
		Total Fluoride	28.89	0.55	
	GTC -2	PM	151.26	2.95	
		Total Fluoride	28.43	0.55	
	FTC -1	PM	21.94	7.64	
		Total Fluoride	1.63	0.56	
	FTC -2	PM	13.21	8.20	
		Total Fluoride	0.90	0.56	

Note: All the emission values are expressed as annual average value.

PART – D**Hazardous Wastes**

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

Hazardous Waste	Waste category	UOM	Total Generated Quantity	
			During the previous financial year 2024-25	During the current financial year 2025-26
a) From Process	Used Oil	MT	84.67	87.28
	Waste containing Oil	MT	9.78	12.81
	Spent Pot lining (Cathode Residues)	MT	9828.8	7553.17
	Pot Lining Scraps and Wastes	MT	0	0
	Rejected lining of furnace (Refractory)	MT	298.15	0
	Shot Blasting Dust (Containing Fluoride)	MT	1124	1125
	Ladle Cleaning Residue	MT	150.16	134.75
	Rejected AlF3 Bags	MT	7.21	26.42
	Aluminium Dross	MT	3843.43	2929.15
	Aluminium Dross Residue*	MT	695.94	1344.29
	Fluoride contaminated waste (Spilled waste from pot line)	MT	2409.31	1691.43
	Drain cleaning sludge	MT	0	4.34
	Floor sweeping/house-keeping waste	MT	142.20	147.72
	ETP sludge	MT	114.80	240.23
	Used anode Butts of Aditya	MT	48054.04	46,753.38
	Pre-processed Used Anode Butts received from M/s Hindalco Industries Ltd, Hirakud.	MT	20618.9	20,258.59
	Discarded containers/ Liners used of storage	MT	9.01	17.90

	of Hazardous Chemicals			
	Spent Resin	MT	Nil	NIL
	Spent Pot Lining (Fines/Mix dust)	MT	87.15	0
	Silicon Carbide (SiC) from Pot Lining(cathode Residue)	MT	83.48	90.46
	Rubber waste	MT	59.59	117.69
	Waste pneumatic and other tyres	MT		
	Waste Parings and Scarp of Rubber	MT		
	Insulated Copper wire Scarp or Copper with PVC sheathing including (SR) code material namely "Druid"	MT	109.13	26.63
	Damaged Insulation materials	MT	4.71	84.96
b) From pollution control facilities	Tar containing waste (from FTC)	MT	11.93	11.69
	Rejected filter bags (GTC & FTC)	MT	79.99	29.07

* Aluminium Dross Residue is generated during recycling of aluminium dross in the dross processing unit.

PART – E (Solid Wastes)

	Category	UOM	Total Quantity	
			During the previous financial year 2024-25	During the current financial year 2025-26
(a)From process	Fly ash and Bottom Ash Generated	MT	1656640.8	1599002.62
(b)From pollution control facility	Supplied to Cement industries	MT	1417574.45	1404352.83
(c)	Utilized for road making	MT	87.05	156653.74
(1) Quantity recycled or re-utilized within the unit	Utilized for low lying area development/filing	MT	162814.31	65328.51
(2) Sold	Supplied to Bricks Manufacturing	MT	7078	446.56
(3) Disposed	Sent to Ash Pond/ present in Silo	MT	0	0

PART – F

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

Sr. No.	Name of Hazardous Waste	UOM	Qty. of generation in 2025-26	Qty. of Disposal FY 2025 -26	Mode of Disposal
1	Used Oil	MT	87.28	97.78	Sold to authorize recyclers.
2	Waste containing Oil	MT	12.81	12.81	Co-processing in cement Kiln
3	Spent Pot lining (Cathode Residues)	MT	7553.17	7553.17	SPL Carbon supplies to authorize Re-processing units i.e. Regrow Tanso Private Limited & SPL Silicon Carbide sent to Tekno Processor LLP. SPL Refractory Disposed to Tekno Processor LLP for recycling & CHWTSDf site of Re Sustainability Limited for landfill.
4	Pot Lining Scraps and Wastes	MT	0	0	Not generated
5	Rejected lining of furnace (Refractory)	MT	0	0	Not generated
6	Shot Blasting Dust (Containing Fluoride)	MT	1125.0	1190.51	Disposed in CHW-TSDF
7	Ladle Cleaning Residue	MT	134.75	139.91	Disposed in CHW-TSDF
8	Rejected AlF ₃ Bags	MT	26.42	14.9	Burnt inside the electrolytic pots & Sent to CHW-TSDF for Co-incineration.
9	Aluminium Dross	MT	2929.15	275799	In-house recycling in dross Processing unit. Sold to authorized recycler or pre-Processor.
10	Aluminium Dross Residue*	MT	1344.29	1344.12	Send to recycler or pre-Processor
11	Fluoride contaminated waste (Spilled waste from pot line)	MT	1691.43	1651.88	Disposed in CHW-TSDF
12	Drain cleaning sludge	MT	4.34	4.34	Disposed in CHW-TSDF

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13	Floor sweeping/house-keeping waste	MT	147.72	148.41	Disposed in CHW-TSDF
14	ETP sludge	MT	240.26	248.98	Disposed to Co-processing in cement Kiln
15	Used anode Butts of Aditya	MT	46753.38	47015.99	Reused in green anode making
16	Pre-processed Used Anode Butts received from M/s Hindalco Industries Ltd, Hirakud.	MT	20258.59	21318.59	Reused in green anode making
17	Discarded containers/ Liners used of storage of Hazardous Chemicals	MT	27.15	27.15	Supply to authorized party & disposal through original supplier
18	Spent Resin	MT	0	0	Not Generated
19	Spent Pot Lining (Fines/Mix dust)	MT	0	0	Disposed to Co-processing in cement Kiln
20	Silicon Carbide (SiC) from Pot Lining (cathode Residue)	MT	90.46	90.46	Send to recycler or pre-Processor
21	Rubber waste	MT	117.69	117.69	Sold to authorized recycler or pre-Processor
22	Waste pneumatic and other tyres	MT			Not Generated
23	Waste Parings and Scarp of Rubber	MT			Not Generated
24	Insulated Copper wire Scarp or Copper with PVC sheathing including (SR) code material namely "Druid"	MT	26.63	26.63	Sold to authorized recycler or pre-Processor.
25	Damaged Insulation materials	MT	84.96	84.82	Disposed in CHW-TSDF
26	Tar containing waste (FTC Conditioning Dust)	MT	11.69	11.69	Reused in green anode making
27	Rejected filter bags (GTC & FTC)	MT	29.07	29.24	Burnt inside the electrolytic pots.
Sr. No.	Solid Waste		Quantity of generation in FY 2025-26	Quantity of disposal FY 2025-26	Mode of Disposal
1	Fly Ash and Bottom Ash	MT		1404352.83	Supplied to Cement industries
		MT		156653.74	Utilized for road making

		MT	1599002.62	65328.52	Utilized for low lying area development/filing
		MT		446.56	Supplied to Bricks Manufacturing

PART – G

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

Pollution abatement measures taken on conservation of natural resources are as follows:

A. Water Pollution Control Measures:

1. We have implemented integrated wastewater management system first time in the country by mixing both the wastewater of CPP & Smelter areas which are collected in a Guard Pond of 65,000 m³ capacity and then treated with a RO based ETP of 300 cum/hr capacity and the permeate water is send back to the Power Plant for reuse.
2. Separate drainage system constructed for collection of initial rainwater & wastewater and the guard pond of 65,000 cum capacity is constructed close to the ETP, to store wastewater and storm water from Smelter and wastewater from CPP.
3. The Effluent Treatment Plant (ETP) of 300 Cum/hr capacity is coupled with double Staged Reverse Osmosis system and is the latest ETP plant in the Odisha.
4. Two nos. of Sewage treatment plants (STP) established in Plant and Township separately for 600 KLD and 300 KLD respectively. The treated water from STPs is used for greenbelt and gardening purposes.
5. All the wastewater generated from Smelter and CPP are completely recycled in ETP, the treated effluent reused in CPP.
6. The water consumption in power plant is reduced by adopting the Dry bottom ash collection system for PF boilers for the first time in Odisha and increased CoC of Cooling water which reduces the generation of wastewater.
7. Ash pond is lined with HDPE liners to prevent contamination of ground water.
8. As a water conservation initiative, we have installed High Concentrated slurry disposal (HCSD) system and dry bottom ash collection system and the recovery water from the ash pond is returned for reuse in ash mixing, resulting in complete recycling & reuse
9. The decanted water from the ash pond is reused in ash handling.
10. Rainwater harvesting pond capacity of 72,000 m³ established inside the township for reuse in gardening/horticulture purposes
11. Rainwater recharge structures made in the township buildings/multi facility complexes.

12. Surface Run-off treatment system Tube Settler Capacity of 1200 KLD installed in Coal Handling Plant.
13. Training & awareness session conducted in the shop floor for the employee & workmen.
14. Connectivity of CPP boilers blow down water to the cooling water.
15. Internal water audit conducted at shop floor inline to water utilization & its management.
16. The capacity enhancement of the CHP water lagoon has been completed, and its storage capacity has now been increased to 45,000 m³.
17. 200 KLD ZLD plant (MVR System) installed for treatment of ETP RO reject water.

B. Air Pollution Control Measures:

1. ESPs having two parallel gas paths of 99.9% efficiency installed in each unit of CPP to achieve the emission level within 50 mg/Nm³. One ESP path in maintenance while the plant is in operation is a unique procedure developed in Aditya Aluminium to improve overall efficiency of ESP.
2. We have installed the High Frequency Transformer Rectifier (HFTR), 3 phase transformer rectifier and improved pulse controller in suitable combination in both passes of ESPs in all 6 units of CPP.
3. Semi-dry Flue Gas De-Sulphurisation system installed in CPP U-6 for SO₂ control from Stack.
4. The Unit has complied with the state fuel policy. HFO has been replaced with cleaner fuel i.e PNG (Piped Natural Gas) through installing dual fuel firing system in Anode Baking Furnace of Smelter.
5. Tri-Flue Stacks with 275 m height installed for wider dispersion of pollutants.
6. 12 nos. of Bag filters installed in Coal Handling Plant & Ash Handling Plant for fugitive dust control.
7. Installed pipeline length of around 1500 mtr. to cover coal roads for water sprinkling to control the fugitive emission
8. 20 nos. of Dust suppression & DFDS system installed in coal handling/conveying circuit (Excluding Coal yard) & 4 nos. of dust suppression & dry Fog System installed in ash silo areas.
9. Dedicated water tankers deployed for road sprinkling to reduce fugitive dust
10. Miyawaki Plantation has been carried out in different area of plants for controlling the dust emission.
11. Awareness training programmed conducted in the shop floor inline to Air Pollution Control Measures.
12. Gas Treatment Center (GTC) with dry scrubbing system installed in Pot Line for recycling of fluoride and venting out clean air through the stack having 100 m height.
13. Hyper dense phase system for dust free alumina transfer installed in pot room, Consistent Quality of Alumina & Process optimization resulting us one of the 2nd lowest alumina consumption Smelter plant in the country.
14. Fume Treatment Center (FTC) installed and attached to ABF for recovery of Fluoride and vents out clean air to atmosphere.
15. Pneumatic Alumina Conveying system which transports Alumina without spillage.
16. 63 nos. of De-dusting system installed at Alumina Handling, Coke Handling, Green Anode Plant, Anode Rodding Shop, Bath Recycling Shop, Carbon Recycling Shop, Anode Baking Furnace and

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- other areas of Smelter for control for fugitive emission and recycling of the dust collected in the bag filters. Vacuum cleaning system installed in the Green Anode Plant makes the Plant very much clean.
17. Mechanized road sweeping machine deployed for cleaning of all internal roads and shop floors to minimize fugitive dust emission from roads.
 18. Performance evaluation monitoring of pollution control equipment (ESPs & Bag filters) is being carried out on annual basis through external agencies.
 19. Track hopper & Wagon tippler installed in CHP for coal transportation to reduced Scope -3 emission.
 20. Full Body vehicle washing system installed in CPP Ash Silo area for fugitive Emission Control.
 21. Wheel washing system has been installed in Coal Handling Plant and SPL storage area.
 22. Total-66 Nos AC equipment's using Ozone depleting Substances R-22 gases replaced with non ODS gas equipment's in FY-2026
 23. Retrofitting Emission control devices (RECD) for 2 no's DG sets in Smelter and 3 no's DG set in Township has completed in FY-2025-2026.
 24. Dust catchers' systems are installed at the CPP stage-01 bottom silo area for fugitive dust control.
 25. Two nos mist cannons installed in the CHP coal yard area for fugitive dust control.
 26. One Truck-Mounted Water Mist Fog Cannon Machine has been deployed for dust suppression and control of fugitive emissions within the plant premises

C. Solid Waste Management Practice:

1. The Ash utilization in FY 2025-26 is 101.74 % to comply with the Fly Ash Notification, 2021.
2. Fly ash dispatched through BOXN Wagon in Rakes to various cement manufacturing units (Dalmia Cement, Ultratech, ACC, Ambuja, etc.) for cement manufacturing. This has resulted increase in ash utilization.
3. High Concentrated Slurry Disposal System installed for ash disposal to the ash pond.
4. 100% Tarpaulin cover during transportation of ash and coal in trucks is being ensured.
5. One Bio-digester and one Bio-composter installed for management of biodegradable waste in plant and colony.
6. All Municipal Solid Waste (MSW) generated from Plant & Township segregated & collected in designated place and MSW plastic waste, paper and other incinerable materials being sent to Cement Plant for co-processing in Cement kiln.
7. EV bulkers deployed for the transporting of fly ash to various cement plants.

D. Hazardous Waste Management Practice:

1. All the hazardous waste is being kept inside covered storage shed with display of SOPs and MSDS and maintaining record in Form - 3 for all the hazardous waste generated and dispatch for recycling to the authorized recyclers/disposal in CHW-TSDF.

2. Exploring maximum recycling of Hazardous Waste generated from Smelter like Shot blasting dust, Aluminium Dross, Skimmed coke, GTC/FTC and Other DE system used filter bags, Alf3 bags and tar containing waste etc.
3. Anode generated is completely recycled in Green Anode Plant for making green anode and the pre-processed used anode butt received from Hirakud Smelter is also reused in green anode making.
4. Dross generated at present is being recycled in the in-house dross recycling unit and reject generated from this process is sell out to authorized recyclers for making of synthetic Slag.
5. Specific Covered storage sheds developed for storage of all the hazardous waste generated in the plant
6. SOP & MSDS displayed at various locations of waste handling and storage areas.
7. Manifest System followed in HW disposal to CHW-TSDF and other authorized recyclers.
8. Pre-processed used anode butt from Hirakud Smelter also reused in making green anode in Green Anode Plant.
9. ETP sludge being disposed to Cement Plant for co-processing in the cement kiln to achieve the target of Zero Waste to Landfill.
10. Third Party Hazardous Waste Management Audit conducted through EcoKart technologies Pvt. Ltd.
11. The SPL refractory waste was sent to Tekno- Processor LLP, Lapanga for Recycling.

E. Green Belt Development:

1. Thick green belt developed around the plant boundary, with a density of approx. 2000 tree/Hecter and more than 9,83,230 no's of trees planted within an area of 446 ha. till FY 2025-26.
2. We have adopted Miyawaki plantation method for green belt development & density enhancement inside plant.
3. High-rise plantation has also been undertaken along the boundary wall to enhance the green belt and improve environmental aesthetics.

PART – H

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

Areas	Investment made till 31.03.2026 (lakhs)
Water pollution control system	6,357.15
Air pollution control system	85,581.6
Solid Waste Management System	21,212.21
Hazardous Waste Management System	1,9061.06
Biomedical Waste Management System	188.8
Total (Lakhs)	1,13,845.82

1. A solar power project of 30 MW (DC) capacity (PV Based) is established inside the plant for generation of green energy (renewable).

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2. Food waste is being managed through Bio Composter in colony areas for conversion of food waste & organic waste for generation of manure and which is being used in gardening purposes.
3. Four no's of Mechanized housekeeping machine used for cleaning of internal roads to keep control on the fugitive dust emission from roads during vehicle movement

PART – I

Any other particulars for improving the quality of environment:

1. Implemented Integrated Management System (ISO 9001 & ISO 14001) for better quality & environmental management system and control, ISO 45001 & ISO 50001 certification is also completed.
2. Environmental laboratories are established for monitoring and analysis of environmental pollutants.
3. Celebrating Environmental promotional activities like World Environment Day, Van Mahotsav, World Ozone Day, World Water Day and National Safety Day/Week, etc.
4. Promote the principles of waste prevention, reduction, reuse, recycling, and recovery to minimize waste generation and strengthen the practices for management of wastes through "Value from Wastes Program" and Circular economy principles.
5. Our Unit has been certified for the Single Use Plastic Free Plant from Confederation of Indian Industry (CII).
6. Raise environmental awareness at all levels of our operations, through training and effective communication, participation, and consultation.
7. Aditya Aluminium honored with the Pollution Control Excellence Award- 2025 from OSPCB on 15th September 2025.
8. Aditya Aluminium was honored with the ESG Award 2025 by IBAAS and Cetizion Verifica for outstanding sustainability performance.
9. Aditya Aluminium has been awarded the "Water Neutral Plant" certification and has won the "National Award for Excellence in Water Management 2025" at the 11th Water Innovation Summit- 2025 organized by CII.
10. Aditya Aluminium received the "ASSOCHAM National Award 2025" at the ASSOCHAM India Water Leadership Conclave 2025, held in New Delhi.



(Authorized Signatory)