ADITYA BIRLA
HINDALCO

Letter No: AAP/E&S/EC/2026/1458 Date: 22/05/2026

To,
The Director
Ministry of Environment, Forest & Climate Change
Integrated Regional Office
A/3, Chandrashekharpur
Bhubaneswar – 750 023 (Odisha)

Sub: Submission of Six-Monthly Compliance from October' 25 to March' 26.

Ref: Environmental Clearance Letter No: J-11011/136/2009-IA. I (I), dated 29/11/2012, J-11011/136/2009-IA. II (I), dated 14/06/2013, J-11011/136/2009-IA. II (I), dated 14/08/2018 & J-11011/136/2009-IA. I (I) dated 20/07/2020 &12/08/2022 and amendment dated 07/06/2025.

Dear Sir,

As a part of the compliance to the Environmental Clearance accorded by MoEF&CC to Aditya Aluminium for 0.74 MTPA Smelter and 1650 MW CPP at Lapanga in Sambalpur district, please find enclosed herewith the six-monthly compliance report of aluminium smelter and captive power plant for the period October' 25 to March' 26.

Kindly acknowledge receipt of the reports.

Thanking You

Yours faithfully
For Aditya Aluminium

Jagannath Prasad Nayak
President & Unit Head

Copy for kind information to:

1. The Member Secretary, SPCB, Bhubaneswar
2. The Regional Director, Zonal office of CPCB, Kolkata
3. The Regional Officer, SPCB, Sambalpur

Hindalco Industries Limited
Aditya Aluminium : At/P.O.: Lapanga, District : Sambalpur, Odisha, India
T: +91 663 2536 247 | Fax: +91 663 2536 499 | E: hindalco@adityabirla.com | W: www.hindalco.com
Registered Office: 21st Floor, One Unity Center, Senapati Bapat Marg, Prabhadevi, Mumbai - 400013, India
Tel: +91 22 6947 7000 / 6947 7150 | Fax: + 91 22 6947 7001 / 6947 7090
Corporate ID No.: L27020MH1958PLC011238

Aditya Aluminium: Six Monthly EC Compliance from October 2025– March 2026

Name of the Project	:	Aditya Aluminium (A Unit of Hindalco Industries Ltd.) at village: Lapanga, Tehsil: Rengali, District: Sambalpur (Odisha).
Environment Clearance Letter No and date	:	J-11011/136/2009-IA-I(I), dated 29th November 2012, letter no. J-11011/136/2009-IA II (I), dated 14th June 2013 and EC amendment letter no. J-11011/136/2009-IA.II (I), 14th August 2018, 20th July 2020, 12th August 2022 & 7th June 2025 For 7,40,000 TPA Aluminium Smelter & 1650 MW Captive Power Plant
Period of Compliance Report	:	October 2025 to March 2026

Sr. No.	Specific Conditions	Compliance Status
i)	The streams passing through the project site shall not be disturbed w.r.t their quantity and quality of flow.	The streams passing through the project site is not being disturbed.
ii)	Alumina shall be obtained from those refineries, which have been accorded environmental clearance by the Ministry of Environment and Forests.	Alumina is being obtained from refineries which have been accorded environmental clearance. At Present, the Alumina is being obtained from Utkal Alumina International Limited (UAIL), Rayagada Distt. and it has been accorded environmental clearance from MoEFCC.
iii)	The gaseous emissions (PM, SO_2, NOx, PAH, HC, VOCs and Fluoride) from various process units shall confirm to the standards prescribed by the concerned authorities from time to time. The SPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emissions level should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit should not be restarted until the control measures are rectified to achieve the desired efficiency. The particulate emissions from the bake oven plant shall not exceed 50 mg/Nm^3.	Online Monitoring equipment's have been installed at the outlet of the following stacks for monitoring of particulate matter and gaseous emissions. The online data has been connected to the Servers of OSPCB and CPCB. a) Smelter GTC 1 & 2- 2 Nos. b) Smelter FTC 1 & 2 - 2 Nos. c) CPP Unit 1 to 6 - 6 Nos. Particulate matter emission from the bake oven does not exceed the prescribed limit of 50 mg/Nm3. Monitoring report for the period of Oct-25 to Mar-26 enclosed as **Annexure-1**.
iv)	Particulate fluoride emissions should not be more than 0.65 mg/Nm3 and fugitive particulate fluoride emissions from pot room should not be more than 1.85 mg/Nm^3.	Online monitoring equipment at Gas Treatment Centre (GTC) and Fume Treatment Centre (FTC) installed for monitoring Hydrogen Fluoride (HF), Particulate Matter (PM). The particulate fluoride emission from the gas treatment Centre is within the prescribed standard. The average fugitive particulate fluoride emission from pot rooms during Oct-25 to Mar-26 is 0.046 kg/ton of metal produced.

		Monitoring report for the period of Oct-25 to Mar-26 enclosed as **Annexure-2.**
v)	The poly aromatic hydrocarbons (PAH) from the carbon plant (anode bake oven) should not exceed 2 mg/Nm^3. The data on PAH should be monitored quarterly and report submitted regularly to the Ministry/Regional Office at Bhubaneswar and SPCB.	The poly aromatic hydrocarbons (PAH) from the carbon plant (anode bake oven) are monitored on monthly basis and found within the standard. (Ref: **Annexure 1**).
vi)	In plant, control measures like fume extraction and dust extraction system for controlling fugitive emissions from all the materials handling/transfer points shall be provided to control dust emissions. Fugitive Fluoride emissions from the pot room and in the forage around the smelter complex and the data submitted regularly to the Ministry Regional Office at Bhubaneswar and SPCB. Further dry scrubbing system to control the emissions from the pot lines should be provided.	Fume Extraction Centre (FTC) in Anode Baking furnace, Gas Treatment Plant (GTC) in potlines and bag filters in raw material handling, GAP, Anode Baking, Roding areas, bath recycling, carbon recycling area, butts recycling area, cathode sealing shop etc in smelter area and coal handling, ash handling plant in captive power plant is installed to control fugitive dust emissions. Online Roof Top Monitoring analyzer installed for Fugitive fluoride (HF) monitoring in pot rooms, the concentration of hydrogen fluoride (HF) varies between 0.119 mg/m3 to 0.223 mg/m3 and average is 0.168 mg/m3 during Oct-25 to Mar-26. The daily average emission report during these periods is attached as **Annexure-3**. Forage fluoride analysis around the smelter is being carried out on quarterly basis and forage fluoride monitoring report enclosed as **Annexure-4.** Dry scrubbing system is being provided as gas treatment centre (GTC) to each of the pots in the pot room to control fugitive emission.
vii)	Electrostatic Precipitators (ESP) will be provided to Captive Power Plant (CPP) to control particulate emissions below 50 mg/Nm3. The company shall provide bag filters, dry scrubbing system and dust suppression system to control all the emissions including fluoride emissions from all melting and casting units. Tar, Dust and fluoride in the fumes shall be controlled in baking furnace by providing dry scrubber. The emissions shall conform to the standards prescribed by the Ministry CPCB/SPCB whichever is more stringent.	Electrostatic Precipitators (ESP) of adequate efficiency is installed in Captive Power Plant (CPP) to restrict particulate emissions within 50 mg/Nm^3. Two nos. of Gas Treatment Centre (GTC) provided and connected to each 180 pots. Besides, Bag filters are installed in all the material handling & transfer points in Smelter. Fume treatment centre (FTC) provided to each Anode Baking Furnaces to treat the tar fumes, dust, gaseous and particulate fluorides generated during Anode Baking. The standards prescribed by the Ministry/ CPCB/ SPCB is being adhered. The results of the stack emission from the CPP units for the period of Oct-25 to Mar-26 is enclosed as **Annexure-5.**

viii)	Provision for installation of FGD shall be provided for future use.	Installation & commissioning of Semi-dry flue gas desulphurization system has been completed in CPP Unit-6. Provision has been kept for the installation of FGD in other CPP units.
ix)	Three tri-flue and one bi-flue stack of 275 m height with flue gas velocity not less than 22 m/s shall be installed and provided with continuous online monitoring equipment's for SO_2, NO_x, and PM_{10}.	Two (02) numbers of tri-flue stacks of 275 m height is installed in phase-I. Continuous emission monitoring system (CEMS) installed for monitoring of SO_2, NOx, and PM in all the stacks of CPP and the velocity of the exit flue gas is being maintained above 22 m/s. The results of the stack emission from the CPP units for the period of Oct-25 to Mar-26 . Refer **Annexure-5.**
x)	Adequate dust extraction system such as cyclones/ bag filters and water spray system in dusty areas such as in coal handling and ash handling points, transfer areas and other vulnerable dusty areas shall be provided.	Dust extraction systems (DE), Dry fog dust suppression (DFDS) & Rain gun water sprinkling systems are installed in coal handling plant and ash handling system of Captive Power Plant. Details of bag filter given below- • 13 nos. of Bag filters installed in Coal Handling Plant & Ash Handling Plant of CPP. • 52 nos. of De-dusting system installed at Alumina handling, Coke Handling, GAP, Rodding, BRS, CRS, ABF and other areas of Smelter. • Dust suppression & dry Fog System installed in coal handling/conveying circuit, & ash silos etc. In addition to the above 3 nos. of mechanized sweeping machines are deployed for cleaning of roads & 10 nos of sweeping machine for shop floor areas to control the fugitive emission.
xi)	Utilization of 100% fly ash generated shall be made from 4th year of operation. Status of implementation shall be reported to the Regional Office of the Ministry from time to time.	The ash generated from the captive power plant is primarily supplied to cement plants and Road construction. Bottom ash is being utilized for filling low-lying areas inside the plant premises & Road construction. The low-lying area filling and development activity is being carried out with prior approval of the State Pollution Control Board (SPCB), Odisha following the guidelines. The ash generation and utilization status for the period of Oct-25 to Mar-26 is enclosed as **Annexure-6.**
xii)	Fly ash shall be collected in dry form and storage facility (silos) shall be provided. PP shall comply with the CPCB guidelines for handling, utilization and disposal of fly ash, including unutilized ash. Mercury and other heavy metals (As, Hg, Cr, Pb etc.) will be monitored in the bottom ash as also in the effluents emanating from the existing ash pond. Low Lying area	Fly ash & bottom ash are collected in dry form and 3x2500 MT Fly ash silo and 1x3000 MT bottom ash silo have been installed. We are exploring maximum utilization of Ash and unutilized ash is being discharged to the Ash Pond through High Concentration Slurry Disposal (HCSD) system, which is the most environment friendly conveying system at present. Monitoring of Mercury and other heavy

	filling with Fly ash shall be done accordance to the guidelines prepared by the Central Pollution Control Board (CPCB) for the disposal of fly ash in reclamation of low-lying areas and stowing/ backfilling of abandoned mines/ quarries.	metals (As, Hg, Cr, Pb etc.) is being done for the fly ash and bottom ash. The analysis report is enclosed as **Annexure-7.** The ash generated from the captive power plant is primarily supplied to cement plants and Road construction. Bottom ash is being utilized for filling low-lying areas inside the plant premises & Road construction. The low-lying area filling and development activity is being carried out with prior approval of the State Pollution Control Board (SPCB), Odisha following the guidelines.
xiii)	Fluoride (as F) consumption shall be less than 10 kg/ton of Aluminium produced as specified by the CREP.	The specific fluoride (as F) consumption for the period of Oct-25 to Mar-26 is 7.64 kg/ton of Aluminium produced.
xiv)	Anode butts generated from the pots shall be cleaned and recycled to the Anode Plant. The spent pot lining generated from the smelter shall be properly treated in spent pot lining treatment plant to remove fluoride and cyanide and dispose of in secured landfill / Shall be disposed off through actual users authorized by SPCBs/ Coprocessing in Cement kilns authorized by SPCBs /Disposal in CHW-TSDF, in line with the provisions of HOWM Rules, 2016 (as amended) and CPCB Guidelines. The location and design of the land fill site shall be approved by the SPCB as per the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008. Leachate collection facilities shall be provided to the secured land fill facilities (SLF). The dross shall be recycled in the cast house. STP sludge shall be utilized as manure for greenbelt development. All the used oil and batteries shall be sold to the authorized recyclers/ re-processors. As proposed, spent pot lining waste shall also be provided to cement and steel industries for further utilization. The project proponent shall develop in-house facilities for treatment of Spent Pot Lining (SPL) generated in the Aluminium smelter. Meanwhile, Refractory part may be sent to CHWTSDF as per the provisions of Hazardous and Other Waste Amendment Rules, 2016. The project proponent shall develop inhouse facilities for the treatment of SPL in 2 to 3 years.	Anode butts generated from the pots are being cleaned and recycled completely to make green anode. Spent Pot Lining (SPL) contains Carbon Part, Refractory Part and Silicon Carbide bricks. The Standard Operating Procedure (SOP) developed by Central Pollution Control Board (CPCB) for SPL requires detoxification before its end use applications. In accordance with the SOPs, the SPL Carbon part generated from Smelter is being sent to authorized recyclers, namely M/s Regrow Tanso Pvt Ltd, Jharsuguda, for detoxification and used for manufacturing of mineral fuel as a resource/energy recovery in cement plants, Steel and Ferrous alloy industries etc. SPL Silicon carbide bricks are being sent to authorized recyclers M/s Tekno-Processors LLP, Sambalpur for processing and sold to authorized users for manufacturing of refractory brick in line with CPCB SOP for Preprocessor of Waste Silicon Carbide refractory bricks generated from pot lining wastes from Primary Aluminium Smelter. The carbon part of spent pot lining is being disposed to actual users i.e. M/s Regrow Tanso Pvt. Ltd. Jharsuguda, the refractory part to M/s. Re-Sustainability Ltd (CHW-TSDF, Jajpur). In this way 100% SPL is being detoxified and recycled/disposed and no stock at the end of Mar-2026. The location and design of the land fill site has been prepared as per the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and approved from SPCB.

		The Aluminium dross generated in the process is re-processed in the inhouse dross processing unit /partly supplied to authorized recyclers and the residue generated from dross processing unit is being sent to OSPCB authorized recyclers for Alum/synthetic slag making. STP is in operation at township & Plant area separately, the sludge generated is being used for gardening/greenbelt development. The used oil and batteries are being sold/ supplied to authorized recyclers/reprocessors only.
xv)	Anode butts generated from the pots shall be cleaned and recycled to the Anode Plant. The spent pot lining generated from the smelter shall be properly treated in spent pot lining treatment plant to remove fluoride and cyanide and dispose of in secured landfill / Shall be disposed off through actual users authorized by SPCBs/Coprocessing in Cement kilns authorized by SPCBs /Disposal in CHW-TSDF, in line with the provisions of HOWM Rules, 2016 (as amended) and CPCB Guidelines. The location and design of the land fill site shall be approved by the SPCB as per the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008. Leachate collection facilities shall be provided to the secured land fill facilities (SLF). The dross shall be recycled in the cast house. STP sludge shall be utilized as manure for greenbelt development. All the used oil and batteries shall be sold to the authorized recyclers/ re-processors. As proposed, spent pot lining waste shall also be provided to cement and steel industries for further utilization. The project proponent shall develop in- house facilities for treatment of Spent Pot Lining (SPL) generated in the Aluminium smelter. Meanwhile, Refractory part may be sent to CHWTSDF as per the provisions of Hazardous and Other Waste Amendment Rules, 2016. The project proponent shall develop in-house facilities for the treatment of SPL in 2 to 3 years.	Anode butts generated from the pots are being cleaned and recycled completely to make green anode. Spent Pot Lining (SPL) contains Carbon Part, Refractory Part and Silicon Carbide bricks. The Standard Operating Procedure (SOP) developed by Central Pollution Control Board (CPCB) for SPL requires detoxification before its end use applications. In accordance with the SOPs, the SPL Carbon part generated from Smelter is being sent to authorized recyclers, namely M/s Regrow Tanso Pvt Ltd, Jharsuguda, for detoxification and used for manufacturing of mineral fuel as a resource/energy recovery in cement plants, Steel and Ferrous alloy industries etc. SPL Silicon carbide bricks are being sent to authorized recyclers M/s Tekno-Processors LLP, Sambalpur for processing and sold to authorized users for manufacturing of refractory brick in line with CPCB SOP for Preprocessor of Waste Silicon Carbide refractory bricks generated from pot lining wastes from Primary Aluminium Smelter. The carbon part of spent pot lining is being disposed to actual users i.e. M/s Regrow Tanso Pvt. Ltd. Jharsuguda, the refractory part to M/s. Re-Sustainability Ltd (CHW-TSDF, Jajpur). In this way 100% SPL is being detoxified and recycled/disposed and no stock at the end of Mar-2026. The location and design of the land fill site has been prepared as per the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and approved from SPCB. The Aluminium dross generated in the process is re-

		processed in the inhouse dross processing unit /partly supplied to authorized recyclers and the residue generated from dross processing unit is being sent to OSPCB authorized recyclers for Alum/synthetic slag making. STP is in operation at township & Plant area separately, the sludge generated is being used for gardening/greenbelt development. The used oil and batteries are being sold/ supplied to authorized recyclers/reprocessors only.
xvi)	Ash pond shall be lined with HDP/LDPE lining or any other suitable impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached. Ash pond water shall be recirculated and reused.	The ash pond has been lined with HDPE liner and adequate safety measures have been taken to minimize the risk to the ash dyke. The ash be disposal through HCSD system has been implemented. The decanted water from the ash pond is being completely recycled and reused for ash disposal. The existing ash pond over an area of 37 acres having fly ash quantity 9.44 lakh MT has been reclaimed. Certificate of closure and reclamation has been received from SPCB vide letter no. 14036/IND-I-CON-6120 dated 04-09- 2023. An emergency ash pond has been developed over an area of 30 acres adjacent to existing pond as per the design & drawings provided by NIT-Rourkela and is in operation.
xvii)	Cycle of concentration (CoC) of 5.0 shall be adopted.	We are maintaining the average CoC of cooling tower above 6.
xviii)	Regular monitoring of ground water shall be carried out by establishing a network of existing wells and constructing new piezometers. Monitoring around the ash pond area shall be carried out particularly for heavy metals (Hg, Cr, As, Pb) and records maintained and submitted to the regional office of this Ministry. The data so obtained should be compared with the baseline data so as to ensure that the ground water quality is not adversely affected due to the project.	Regular monitoring of ground water is being carried out through establishing a network of existing wells and constructing two nos. new piezometer wells near ash pond areas and the analysis report is enclosed as **Annexure-8**. Monitoring of heavy metals (Hg, Cr, As, Pb) around the Ash Pond area is being carried and record maintained. Please refer **Annexure-7** for the analysis report.
xix)	Regular ground water monitoring shall be carried out by installing Piezometers all around the secured landfill site, if any, in consultation with SPCB and data be submitted to the Ministry's Regional Office and SPCB.	Secured landfill (SLF) has not yet been established inside the plant. Therefore, ground water quality monitoring shall be carried out after the establishment of the SLF.
xx)	Total water requirement for the expansion from Hirakud Reservoir shall not exceed 5,200 m3/hr	No additional fresh water will be sourced from Hirakud Reservoir for the proposed expansion. The water

	and prior permission for the existing and proposed expansion shall be obtained from the concerned department before commissioning of the plant. All the effluent including from the cooling tower and de-mineralization plant shall be treated in the effluent treatment plant and treated effluent shall be recycled/reutilized in the process in smelter and CPP and also for fire protection, dust suppression, greenbelt development etc. Domestic effluent shall be treated in sewage treatment plant (STP) and treated domestic waste water will be used for greenbelt development.	requirement estimated for the expansion is within 52.73 cusec, as approved. The Effluent from the cooling towers and de-mineralization plant is being treated in Double Stage RO based effluent treatment plant and is being reused/reutilized in the process of CPP. Separate Sewage Treatment Plant (STP) is installed capacity 25 m^3/hr for Smelter & Captive Power Plant, STP of 300 KLD capacity is installed at Township area and 50 KLD for FRP plant and the treated water being used for greenbelt development.
xxi)	No effluent shall be discharged outside the premises of smelter during non-monsoon period and shall be discharged during the monsoon period only after treatment and meeting the norms of the OSPCB/CPCB.	We are operating a Double Stage Reverse Osmosis based effluent treatment plant (ETP) of 300 m^3/hr capacity & 200 KLD MVR system and one ETP of 450 KLD capacity for FRP plant. Therefore, no effluent water is being discharged to outside without treatment from Smelter.
xxii)	Greenbelt of adequate width and density around the project site shall be developed in 33% area in consultation with the DFO as per the CPCB guidelines having density of 2,000 trees/Ha.	Aditya Aluminium has developed >33% Greenbelt over an area of 446 Hectares inside the plant, ash pond area and township areas. Around 9,83,230 number of saplings planted till Mar-26.
xxiii)	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational Health Surveillance of the workers is being done as per the Odisha Factories Act. Periodical medical examinations for all employees are undertaken regularly. For the period of Oct-2025 to Mar-26 the health surveillance statistics are as follows: - Periodic Medical Health surveillance for permanent employees- 699 People. Periodic Medical Health surveillance for contractual employees-14154 People.
xxiv)	The company shall develop rainwater structures to harvest the runoff water for recharge of ground water in consultation with the Central Ground Water Authority/ Board or a reputed government institute specializing in rainwater harvesting.	We have conducted the Rainwater Harvesting Study for the project area through Andhra University, Visakhapatnam in December 2011. The rainwater harvesting scheme suggested in the report has been implemented in the township buildings, all the run off water comes to the rainwater harvesting pond (72,000 cum capacity) has been developed for ground water recharge purpose inside the township area.

<table>
<tr><td>xxv)</td><td>Rehabilitation and Resettlement Action Plan as prepared and submitted to the State Govt. shall be implemented as per the R & R Policy of the State Government.
All the recommendations mentioned in the R&R Plan shall be strictly followed, including suitable employment and other facilities to all the oustees.</td><td>Rehabilitation and Resettlement Action Plan is being implemented as per the R & R policy, 2006 of the State Govt.
All the recommendations mentioned in the R&R plan are being followed/complied.</td></tr>
<tr><td>xxvi)</td><td>All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Aluminium Sector shall be strictly implemented.</td><td>All the conditions of CREP guideline for Aluminium sector is being followed. The point wise compliance to the CREP guideline is attached as Annexure-9.</td></tr>
<tr><td>xxvii)</td><td>The company shall adopt well laid down corporate policy and identified and designate responsible officers at all levels of its hierarchy for ensuring adherence to the policy and compliance with environmental clearance, environmental laws and regulations.</td><td>The company has adopted a well-laid-down Corporate Environment Policy. The Environment policy has been revised and approved by the Board on 13th February 2024. The copy of the revised environment policy is attached as Annexure-10.</td></tr>
<tr><td>xxviii)</td><td>All the commitments made to the public during public hearing /public consultation meeting held on 2nd march 2012 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.</td><td>All the commitments made to the public during public hearing/public consultation meeting held on 2nd March 2012 is being complied. (The Status of implementation is enclosed as Annexure-11).</td></tr>
<tr><td>xxix)</td><td>At least 5% of the total cost of the project shall be earmarked for towards the Enterprise Social Commitment and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.</td><td>The 5% ESC of the total cost of the project (Phase-1) is around Rs.580 Crores is planned to be spent over the plant life span of 39 years period. Action Plan along with budgetary provisions and implementation schedule for the expenditure is given below-
<table>
<tr><th>First 9 years (FY 2016 -17 to 2024-25)</th><th>Next 10 yrs (FY 2025-26 to 2034-35)</th><th>Next 10 yrs (FY 2035-36 to 2044-45)</th><th>Last 10 yrs (FY 2045-46 to 2054-55)</th></tr>
<tr><td>Rs 5 Cr/ year</td><td>Rs 9 Cr/ year</td><td>Rs 16 Cr/ year</td><td>Rs 28 Cr/year</td></tr>
</table>
The expenses under Enterprise Social Commitment (ESC) till Mar-2026 is Rs 86.60 Crores.
The details of the expenditure made under Enterprise Social Commitment (ESC) till Mar-2026 is attached as Annexure-12.</td></tr>
<tr><td>xxx)</td><td>The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. the housing may be in the form of temporary structures to be ensured accordingly in a time bound manner.</td><td>The construction activities are completed after the plant is installed & commissioned. However, in case of any construction & maintenance activities from time to time we are providing all necessary infrastructure and facilities to the workers as per rules & guidelines.</td></tr>
</table>

xxxi)	The company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) standard operating process/procedure to being into focus any infringement/deviation/violation of environmental or forests norms/ conditions (ii) Hierarchical system or administrative order of the company to deal with environmental issues and ensuring compliance to the environmental clearance and (iii) system of reporting of non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	The Corporate Environment Policy prepared and approved by the company Board of Directors, Organizational Structure for Hindalco Corporate Environment, Deployment of Corporate Policy in manufacturing Plants & communication of Policy as regards Corporate Environment is already submitted to MoEF&CC vide our letter no. AAP/E&F/849, dated 26/02/2013.
	GENERAL CONDITIONS	
i)	The project authorities must strictly adhere to the stipulations made by the OSPCB and the State Government.	We have been following the stipulations made by OSPCB and the State Government. The compliance to CTO conditions is being submitted to OSPCB as per requirement.
ii)	No further expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	We have received the following approvals- As per the MoEFCC Gazette notification no S.O. 980(E), dated 2nd March 2021 and subsequent amendments, we have received No increase in pollution load certificate from OSPCB. 1. For addition of sheets, coils & Foil (product mix change): NIPL Letter No. 20489/IND-II-NOC-NIPL/20 dated 20.12.2021 and CTE for 340 KTPA FRP (170 KTPA in two phases): Letter No. 455/IND-II-CTE-6594 dated 06.01.2022. 2. CTO for FRP Phase-1 170 KTPA has been received from OSPCB vide letter no. 2850/IND-I-CON-6120 dated 13.02.2025. 3. For enhancement from 3.8 LTPA to 4.8 LTPA (addition of 1.0 LTPA purchased recycled metal) and addition of 0.9 LTPA White Fused Alumina: Letter No. 4108/IND-II-NOC-MISC-NIPL/74 dated 22.03.2024 and CTE for the same received from OSPCB vide letter no. 11493/IND-II-CTE, dated 25.07.2024. 4. CTO received for 3.8 to 4.8 LTPA (1.0 LTPA recycled molten metal from M/s CMR Aluminium Pvt Ltd): vide letter No. 4469/IND-I-CON-6120 dated 06.03.2025. 5. EC letter no: J-11011/136/2009-IA-I(I) dated 07.06.2025 and EC amendment dated 14.08.2025. for Aluminium Smelter from 3.8 LTPA to 6.8 LTPA [by

		addition of 1 LTPA (Recycled metal) & installation of 2 LTPA (Renewable Energy Based 180 Pots)] and Captive Power Plant from 900 MW to 1230 MW [by addition of 180 MW Combined Cycle Power Plant (Gas/ Oil fired) & 150 MW CPP (Coal fired) for Emergency Backup] within the existing plant premises.
iii)	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The SPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	We have noted and accepted the stipulated condition.
iv)	At least four number of ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO_2 and NO_x are anticipated in consultation with the OSPCB. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and Orissa State Pollution Control Board once in Six months.	Installation of four (04) CAAQM Stations completed and commissioned. Data connectivity established with the servers of OSPCB and CPCB. Installation of the continuous stack emission monitoring system in all the major stacks completed. All the CAAQMS & CEMS synchronized with the webserver of the SPCB & CPCB. Six-monthly compliance along with the monitoring data is being submitted to the concerned authorities regularly.
v)	The overall noise levels in and around the plant area should be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz 75 dBA (daytime) and 70 dBA (nighttime).	The overall noise levels in and around the plant area is within the prescribed standards and it is being made possible by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. Ambient Noise monitoring report attached as **Annexure-13.** The overall noise level is within the standard, regular monitoring is being done. All necessary PPEs are provided to the workers and engineers working in the factory. All the Mandatory PPEs including earmuffs and masks in PPE kits are being provided to workers. Year wise details of the PPEs i.e. earmuffs and masks supplied to workers for the period of Oct-2025 to Mar-26 are as given below- 1. Earmuff & Ear Plug- 5481 Nos. 2. Dust mask & Respirator-15677 Nos
vi)	Occupational Health Surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Occupational Health Surveillance of the workers is being done as per the Odisha Factories Act. Periodical medical examinations for all employees are

		undertaken regularly. For the period of Oct-25 to Mar-26 the health surveillance statistics are as follows: - Periodic Medical Health surveillance for permanent employees- 699 People. Periodic Medical Health surveillance for contractual employees-14154 People.
vii)	The company shall develop surface water harvesting structures to harvest the rainwater for utilization in the lean season besides recharging the ground water table.	The company has developed surface water harvesting structures to the tune of 22 lakhs cum to store water in the lean season and it will harvest the rainwater during rainy season in the same reservoirs.
viii)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA report. Further the company must undertake socio-economic development activities in the surrounding villages like community development programmes, drinking water supply and health care etc.	We have noted and accepted all the conditions and will comply in a time-bound manner. The economic development activities are going on regularly as a part of our corporate social responsibility. A team of personnel working dedicatedly for peripheral development work like conducting health camps, community developed programmes, formation SHG groups, supply of drinking water and other common infrastructural development works. Details of the CSR, R&R activities undertaken is attached as **Annexure-14**.
ix)	Requisite fund shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment & Forests as well the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to Regional Office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	Capital investment proposed for environment protection measures is Rs. 1984.22 Crores for the project (Phase-1 & Phase-2). Phase-1 implementation has been completed & Phase-2 not implemented. The details of the expenditure made on environmental management for Phase-1 Facility i.e. Smelter 0.38 MTPA & CPP-900 MW is around Rs. 1164.08 Crores. Total- 104.14 Crores expended for environmental protection measures in FY 2025-26.
x)	A copy of the clearance letter shall be send by the proponent to concerned Panchayat, Zillaparishad/Municipality corporation, urban local body and the local NGO, if any from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter also be put on the web site of the company by the proponent.	A copy of the clearance letter has already been communicated to all concerned as mentioned in the condition. A scanned copy of the letter is also displayed on our official website.
xi)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitoring data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of	The status of compliance to the EC conditions is being submitted to the Regional office of the MOEF regularly on 1stJune and 1stDec respectively with a copy to CPCB & OSPCB and the same is being uploaded into the Company website. (http://www.hindalco.com/sustainability/regulatory-

	the MoEF at Bhubaneswar. The respective zonal office of CPCB and SPCB. The criteria pollutant levels namely' PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	compliances). All the stack emission and ambient air monitoring stations are synchronized with the webserver of the SPCB & CPCB. The online monitoring data w.r.t. stack emission, ambient air quality and effluent water quality is being digitally displayed at the main entrance gate for information to the public.
xii)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitoring data (both in hard & soft copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Offices of CPCB and the SPCB. The Regional office of this Ministry at Bhubaneswar. CPCB/SPCB shall monitor the stipulated conditions.	We are submitting the six-monthly compliance reports of the stipulated environmental conditions (both in hard & soft copies as well as by e-mail) to the Regional Office of MoEF&CC, the respective Zonal Offices of CPCB and SPCB. Before 1st June and 1st December every year. Further, we are also submitting the EC compliance reports through Parivesh Portal accordance to MoEFCC office memorandum dated-14th June 2022. The monitoring data carried out through NABL Accredited Laboratory in respect of AAQ, water, soil, noise etc is enclosed as **Annexure-15.**
xiii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office at Bhubaneswar by e-mail.	The environmental statement for each financial year ending 31st March in Form-V is being submitted to the concerned authorities of SPCB and MoEF&CC. The last environmental statement report has been submitted vide our letter no. AA/E&S/2024/1328, dated 13.09.2025.
xiv)	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at website of the Ministry of Environment & Forest at http/www.envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar.	Information to Public has been made through advertisement of the environmental clearance in two widely circulated daily newspapers i.e. "The New Indian Express" on 04-12-2012 & "The Samaja" on 05-12-2012, within seven days of receiving the clearance letter. The copy of the advertisement was submitted to the Ministry's Regional Office at Bhubaneswar vide our office letter no. AAP/E&F/786, dated 07-12-2012.

xv)	The authorities shall inform the regional office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Financial closure for Phase-1 of the Project is completed on 17th September 2012 and Construction activities for Phase-I completed and operating 360 pots out of 360 pots in Smelter and 6 units (6x150 MW) in CPP.
Sr.N	**EC Amendment Additional Conditions**	**Compliance Status**
i)	Anode butts generated from the pots shall be cleaned and recycled to the Anode Plant. The spent pot lining generated from the smelter shall be properly treated in spent pot lining treatment plant to remove fluoride and cyanide and dispose of in secured landfill / Shall be disposed off through actual users authorized by SPCBs/ Coprocessing in Cement kilns authorized by SPCBs /Disposal in CHW-TSDF, in line with the provisions of HOWM Rules, 2016 (as amended) and CPCB Guidelines. The location and design of the land fill site shall be approved by the SPCB as per the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008. Leachate collection facilities shall be provided to the secured land fill facilities (SLF). The dross shall be recycled in the cast house. STP sludge shall be utilized as manure for greenbelt development. All the used oil and batteries shall be sold to the authorized recyclers/ re-processors. As proposed, spent pot lining waste shall also be provided to cement and steel industries for further utilization. The project proponent shall develop in- house facilities for treatment of Spent Pot Lining (SPL) generated in the Aluminium smelter. Meanwhile, Refractory part may be sent to CHWTSDF as per the provisions of Hazardous and Other Waste Amendment Rules, 2016. The project proponent shall develop inhouse facilities for the treatment of SPL in 2 to 3 years.	Anode butts generated from the pots are being cleaned and recycled completely to make green anode. Spent Pot Lining (SPL) contains Carbon Part, Refractory Part and Silicon Carbide bricks. The Standard Operating Procedure (SOP) developed by Central Pollution Control Board (CPCB) for SPL requires detoxification before its end use applications. In accordance with the SOPs, the SPL Carbon part generated from Smelter is being sent to authorized recyclers, namely M/s Regrow Tanso Pvt Ltd, Jharsuguda, for detoxification and used for manufacturing of mineral fuel as a resource/energy recovery in cement plants, Steel and Ferrous alloy industries etc. SPL Silicon carbide bricks are being sent to authorized recyclers M/s Tekno-Processors LLP, Sambalpur for processing and sold to authorized users for manufacturing of refractory brick in line with CPCB SOP for Preprocessor of Waste Silicon Carbide refractory bricks generated from pot lining wastes from Primary Aluminium Smelter. The carbon part of spent pot lining is being disposed to actual users i.e. M/s Regrow Tanso Pvt. Ltd. Jharsuguda, the refractory part to M/s. Re-Sustainability Ltd (CHW-TSDF, Jajpur). In this way 100% SPL is being detoxified and recycled/disposed and no stock at the end of Mar-2026. The location and design of the land fill site has been prepared as per the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and approved from SPCB. The Aluminium dross generated in the process is re-processed in the inhouse dross processing unit /partly supplied to authorized recyclers and the residue generated from dross processing unit is being sent to OSPCB authorized recyclers for Alum/synthetic slag making. STP is in operation at township & Plant area separately, the sludge generated is being used for

		gardening/greenbelt development. The used oil and batteries are being sold/ supplied to authorized recyclers/reprocessors only.
ii)	The PP shall ensure 100% utilization of Fly ash generated.	The ash generated from the captive power plant is primarily supplied to cement plants and Road construction. Bottom ash is being utilized for filling low-lying areas inside the plant premises & Road Construction. The low-lying area filling and development activity is being carried out with prior approval of the State Pollution Control Board (SPCB), Odisha following the guidelines. The ash generation and utilization status for the period from October 2025 to March 2026 is enclosed as **Annexure-6.**
iii)	All the measures proposed during the presentation and application shall be implemented.	We have noted and it will be implemented.
iv)	Sale of baked anodes; sale of bath material; and sale of molten metal is permitted following the provisions of Hazardous and Other Waste Management Rules, 2016, applicable if any.	We have noted and accepted.
v)	Anode butts generated from the pots shall be cleaned and recycled to the Anode Plant. The spent pot lining generated from the smelter shall be properly treated in spent pot lining treatment plant to remove fluoride and cyanide and dispose of in secured landfill / Shall be disposed off through actual users authorized by SPCBs/ Coprocessing in Cement kilns authorized by SPCBs /Disposal in CHW-TSDF, in line with the provisions of HOWM Rules, 2016 (as amended) and CPCB Guidelines. The location and design of the land fill site shall be approved by the SPCB as per the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008. Leachate collection facilities shall be provided to the secured land fill facilities (SLF). The dross shall be recycled in the cast house. STP sludge shall be utilized as manure for greenbelt development. All the used oil and batteries shall be sold to the authorized recyclers/ re-processors. As proposed, spent pot lining waste shall also be provided to cement and steel industries for further utilization. The project proponent shall develop inhouse facilities for treatment of Spent Pot Lining (SPL) generated	Anode butts generated from the pots are being cleaned and recycled completely to make green anode. Spent Pot Lining (SPL) contains Carbon Part, Refractory Part and Silicon Carbide bricks. The Standard Operating Procedure (SOP) developed by Central Pollution Control Board (CPCB) for SPL requires detoxification before its end use applications. In accordance with the SOPs, the SPL Carbon part generated from Smelter is being sent to authorized recyclers, namely M/s Regrow Tanso Pvt Ltd, Jharsuguda, for detoxification and used for manufacturing of mineral fuel as a resource/energy recovery in cement plants, Steel and Ferrous alloy industries etc. SPL Silicon carbide bricks are being sent to authorized recyclers M/s Tekno-Processors LLP, Sambalpur for processing and sold to authorized users for manufacturing of refractory brick in line with CPCB SOP for Preprocessor of Waste Silicon Carbide refractory bricks generated from pot lining wastes from Primary Aluminium Smelter. The carbon part of spent pot lining is being disposed to actual users i.e. M/s Regrow Tanso Pvt. Ltd. Jharsuguda, the refractory part to M/s. Re-

	in the Aluminium smelter. Meanwhile, Refractory part may be sent to CHWTSDF as per the provisions of Hazardous and Other Waste Amendment Rules, 2016. The project proponent shall develop in-house facilities for the treatment of SPL in 2 to 3 years.	Sustainability Ltd (CHW-TSDF, Jajpur). In this way 100% SPL is being detoxified and recycled/disposed and no stock at the end of Mar-2026. The location and design of the land fill site has been prepared as per the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and approved from SPCB. The Aluminium dross generated in the process is re-processed in the inhouse dross processing unit /partly supplied to authorized recyclers and the residue generated from dross processing unit is being sent to OSPCB authorized recyclers for Alum/synthetic slag making. STP is in operation at township & Plant area separately, the sludge generated is being used for gardening/greenbelt development. The used oil and batteries are being sold/ supplied to authorized recyclers/reprocessors only.
vi)	All the conditions prescribed in the environmental clearance letter No.J-11011/136/2009-IA-II(I) dated 29.11.2012 shall be strictly complied with.	It is being complied.
vii)	The Project Proponent shall take fresh environment clearance in case of any change in the scope of the project.	There is no change in the scope of the project.

Encl: As above

(Authorized Signatory)

MINISTRY OF ENVIRONMENT &FORESTS
EASTERN REGIONAL OFFICE, A/3, CHANDRASEKHARPUR, BHUBANESWAR-751023

FORMAT FOR PROVIDING PARTICULARS ON GREENBELT /PLANTATION UNDER F(C) ACT 1980 AND E(P) ACT 1986.

1	a) Name of the Project	Aditya Aluminium (A Unit of Hindalco Industries Limited)
	b) Environment/Forest Clearance Nos.	i. Env Clearance vide letter No: J-11011/136/2009-IA-II(I), Dated 29/11/2012, amendment dated 14 June 2013, 14 Aug 2018, 20 July 2020 & 12 Aug 2022 ii. Forest Clearance vide letter No: 8-27/2009-FC, 10.02.2011
2	Location/ Block/ Sub-Divn./ Dist/ State	Aditya Aluminium (A Div. of Hindalco Industries Limited) At/Po- Lapanga, Dist.- Sambalpur Pin - 768 212, Odisha
3	Address for communication	Aditya Aluminium (A Unit of Hindalco Industries Limited) At/Po- Lapanga, Dist.- Sambalpur Pin - 768 212, Odisha
4	Existing vegetation in the area/ region	At present several types of vegetation available in the area, however some of the names mentioned as follows- Aegle marmelo, Albizia lebbeck, Albizia procera, Alstonia scholaris, Annona squamosa, Artocarpus heterophyllus, Azadirachta indica, Bauhinia alba, Butea monosperma, Bauhinia purpurea, Cassia fistula, Dalbergia sissoo, Delonix regia, Ficus benghalensis, Ficus religiosa, Madhuca indica, Mangifera indica, Peltophorum ferrugineum, Pongamia pinnata, Syzygium cumini, Tectona grandis, Terminalia arjuna, Terminalia bellirica, Terminalia bellirica, Termanilia catappa, Thevetia peruviana, Mimusops elangi, Psidium gujava, Samanea saman, Anthocephalus kadamba, Casia seamea, Acasia , Neerium oleander, Anacardium occidentale, etc
5	a) Species: (trees/shrubs/grasses/climbers)	Aegle marmelo, Albizia lebbeck, Albizia procera, Alstonia scholaris, Annona squamosa, Artocarpus heterophyllus, Azadirachta indica, Bauhinia alba, Butea monosperma, Bauhinia purpurea, Cassia fistula, Dalbergia sissoo, Delonix regia, Ficus benghalensis, Ficus religiosa, Madhuca indica, Mangifera indica, Peltophorum ferrugineum, Pongamia pinnata, Syzygium cumini, Tectona grandis, Terminalia arjuna, Terminalia bellirica, Terminalia bellirica, Termanilia catappa, Thevetia peruviana, Mimusops elangi, Psidium gujava, Samanea saman, Anthocephalus kadamba, Casia seamea, Acasia , Neerium oleander, Anticardium occidental , Dalbergia latifolia, Heloptela, Thespesia , Bamboo, Butea monosperma etc species available.
	b) Major prevalent species of each type:	Anthocephallus cadambaTerminalia arjuna, Peltoferrumferrugenium, Gmelina arboria, AlberziaLebbeck, Delonix regiaetc are the prevalent species found. Butea monosperma, Madhuca indica etc
6	Land coverage by the project:	1347.35 Ha

	a. Name and number of tree/species felled	2002 nos of trees felled through OFDC, Sambalpur (CKL) Division.
	b. Name and number of plant species still available in the area	Plant species and number will be counted after completion of all the project activities and will be submitted to your good office
	c. By protecting the area will indigenous stock come up	Nil
	d. Extent of greenbelt developed	446 hectares covered under greenbelt.
7	Plantations required to be carried out as per	
	a) Conditions of Environmental Clearance in Ha/Nos.	33% of total project area
	b) Conditions of Forest Act (c) Clearance in Ha/Nos.	25 % of total project area
	c. Voluntarily in Ha/Nos.	NA

8. Details of plantation

a) Total area available for plantation in each category

Greenbelt	Dumps	Back filled area	Road sides	Block plantation
The >33% of the project area has been covered under greenbelt/green cover and the plant. The phase- I facilities completed, and Phase-II construction work not started. Till date 446 hectares of land has been covered under greenbelt.				

b) Plantation details (category wise &methodology used)

Year of plantation	Species Planted	Spacing	Height attained(feet)	Total area covered	Area still available
2010-11 & 2011-12	Aegle marmelo, Albizia lebbeck, Albizia procera, Alstonia scholaris, Annona squamosa, Artocarpus heterophyllus, Azadirachta indica, Bauhinia alba, Butea monosperma, Bauhinia purpurea, Cassia fistula, Dalbergia sissoo, Delonix regia, Ficus benghalensis, Ficus religiosa, Madhuca indica, Mangifera indica, Peltophorum ferrugineum, Pongamia pinnata, Syzygium cumini, Tectona grandis, Terminalia arjuna, Terminalia bellirica, Terminalia bellirica, Termanilia catappa, Thevetia peruviana, Mimusops elangi, Psidium gujava, Samanea saman, Anthocephalus kadamba, Casia seamea, Acasia , Neerium oleander, Anacardium occidentale, Dalbergia latifolia, Sterculia foetida Heloptela, Thespsia populenea Bamboo etc	2*2	32'-36'	14.7 Ha	>33% of the project area covered under Green Belt.
2012-13		3*3	25'-27'	38.2 Ha	
2013-14		3*3	22'-25'	11.2 Ha	
2014-15		3*3	20'-22'	16.8 Ha	
2015-16		4*4	18'-20'	24.36 Ha	
2016-17		2*2	17'-20'	20.0 Ha	
2017-18		2*2	14'-18'	46.8 Ha	
2018-19		2*2	13'-15'	45.0 Ha	
2019-20		2*2	10- 13'	82.96 Ha	
2020-21		2*2	9'-11'	80.94 Ha	
2021-22		2*2	8'-9'	63.67 Ha	
2022-23 2023-24		2*2 -	7'-8' 6-7'	Species Enhancement in existing plantation area	
2024-25		-	6'	Density Enhancement in existing plantation area	
2025-26		-	5 ft	Density Enhancement	
Total				446 Ha	

c) Survival of Plantation:

Total Plantation (No.)	9,83,230
Survival (No.)	8,85,000
Survival rate	Approx. 90%

9. Agency carrying out plantation and maintenance: NA

10. Financial details (year wise) plantation wise and item wise:

Sl. No.	Year	Fund allocated(Rs)	Expenditure made(Rs)	Average cost of each surviving plant in Rs.
1	2010-11	81,62,000	81,62,000.00	245.00
2	2011-12			
3	2012-13	46,21,600	46,21,600.00	121.00
4	2013-14	13,62,500	13,62,500.00	121.00
5	2014-15	18,53,000	18,53,000.00	115.00
6	2015-16	18,65,000	18,65,000	109.00
7	2016-17	49,00,000	49,00,000	100.00
8	2017-18	68,00,000	68,00,000	71.00
9	2018-19	70,00,000	70,00,000	77.00
10	2019-20	70,00,000	72,00,000	84.00
11	2020-21	75,00,000	75,00,000	70.00
12	2021-22	85,00,000	85,00,000	126.00
13	2022-23	85,00,000	85,00,000	188.00
14	2023-24	85,00,000	85,00,000	188.00
15	2024-25	85,00,000	85,00,000	67.00
16	2025-26	85,00,000	85,00,000	104.00

11. Inspection of plantation by field experts and their comments and follow up actions:

Forest officials from Divisional Forest Office, Sambalpur and Forest Range Office, Rengali are visiting to our location at periodic intervals and giving their technical guidance from time to time. Joint Director/Director of Regional Office of MoEF&CC, Bhubaneswar also visit our plant site periodically.

12. Remarks/ any other information:

Indigenous species have been planted as per the Guideline of CPCB.

(Signature)

Report-II

PROFORMA FOR PROVIDING INFORMATION ON REHABILITATION

1. No. of villages affected : 11
2. Families Affected : 1450

Families affected	SC	ST	OTH	TOTAL
	-	-	-	1450

3. Compensation package offered per family:

State/ Centre norms	Project package
As per the R&R Policy 2006, Govt. of Odisha	As per the R&R Policy 2006 and 2013, Govt. of Odisha. Aditya Aluminium follows the RR Policy and subsequent Compensation Revision also.

4. Budget estimate for rehabilitation:

   a) Total outlay : 84.59 Crores
   b) Amount paid/used : 82.95 Crores

5. Employment details

   a) Total employment to be provided : 60
   b) Employment given so far : 59

6. Rehabilitation & Resettlement details: Total Displaced Persons Numbers – 431

a	No. of families rehabilitated				
i	Name of the Site	Aditya Aluminium			
ii	Families rehabilitated	SC	ST	OTH	Total
		11	393	23	427
b	Families yet to be rehabilitated				
i	Name of the Site(s)	Aditya Aluminium			
ii	No. of families (Total - 430)	SC	ST	OTH	Total
		00	4	0	04

7. Any other information: For 04 Families, we have paid all the compensation related to land, structure, trees and R&R benefits as per the govt order. The families have expressed interest to have self-relocation and surrender land before getting the compensation.

(Authorised Signatory)

Annexure-01

Aditya Aluminium: Six Monthly EC Compliance from October 25– March 2026

Anode Baking Furnace- Fume Treatment Centre (FTC-1)

Parameters	UOM	Oct'25	Nov'25	Dec'25	Jan'26	Feb'26	Mar'26	Average
Particulate Matter	Mg/Nm^3	6.6	7.2	7.6	6.1	7.2	9.6	7.4
Sulphur dioxide	Mg/Nm^3	390.2	375.2	384.2	386.4	391.2	378.5	384.3
Nitrogen Oxides	Mg/Nm^3	49.0	62	60	58.2	55.6	54.2	56.5
Particulate Fuloride	Mg/Nm^3	0.12	0.13	0.15	0.14	0.13	0.15	0.14
Gasesous Fluroide	Mg/Nm^3	0.43	0.44	0.41	0.46	0.45	0.44	0.44
Total Fluoride	Mg/Nm^3	0.55	0.57	0.56	0.6	0.58	0.59	0.58
Fluoride Emission	Kg/T	0.0016	0.0015	0.0015	0.0018	0.0017	0.0017	0.0016
Tar fumes	Mg/Nm^3	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PAH	Mg/Nm^3	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Anode Baking Furnace- Fume Treatment Centre (FTC-2)

Parameters	UOM	Oct'25	Nov'25	Dec'25	Jan'26	Feb'26	Mar'26	Average
Particulate Matter	Mg/Nm^3	8.2	7.4	8.8	9.6	14.6	8.4	9.5
Sulphur dioxide	Mg/Nm^3	372.2	301	340	338	360	342.2	342.2
Nitrogen Oxides	Mg/Nm^3	46.6	43.4	46	45.2	41.1	40.5	43.8
Particulate Fuloride	Mg/Nm^3	0.14	0.13	0.14	0.16	0.18	0.15	0.15
Gasesous Fluroide	Mg/Nm^3	0.44	0.42	0.43	0.45	0.5	0.44	0.45
Total Fluoride	Mg/Nm^3	0.58	0.55	0.57	0.61	0.68	0.59	0.60
Fluoride Emission	Kg/T	0.00082	0.00078	0.00096	0.00092	0.00110	0.00101	0.0009
Tar fumes	Mg/Nm^3	BDL	BDL	BDL	BDL	BDL	BDL	BDL
PAH	Mg/Nm^3	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Annexure-02

Aditya Aluminium: Six Monthly EC Compliance from Oct 2025– Mar 2026
Gas Treatment Centre (GTC-1)

Parameters	UOM	Oct'25	Nov'25	Dec'25	Jan'26	Feb'26	Mar'26	Average
Particulate Matter	Mg/Nm^3	3.4	3.0	3.5	3.1	2.8	2.6	3.07
Sulphur dioxide	Mg/Nm^3	64.6	66.5	68.5	72.4	82.6	78.4	72.2
Nitrogen Oxides	Mg/Nm^3	31.0	32.2	33.2	32.4	31.4	30.2	31.7
Particulate Fuloride	Mg/Nm^3	0.12	0.11	0.13	0.15	0.14	0.13	0.13
Gasesous Fluroide	Mg/Nm^3	0.42	0.4	0.41	0.44	0.41	0.45	0.42
Total Fluoride	Mg/Nm^3	0.54	0.51	0.54	0.59	0.55	0.58	0.55
Fluoride Emission	Kg/T	0.058	0.054	0.055	0.061	0.058	0.059	0.058

Gas Treatment Centre (GTC-2)

Parameters	UOM	Oct'25	Nov'25	Dec'25	Jan'26	Feb'26	Mar'26	Average
Particulate Matter	Mg/Nm^3	2.3	2.6	3.2	2.2	2.4	2.8	2.6
Sulphur dioxide	Mg/Nm^3	66.2	71.2	80	88.5	90.2	86.4	80.42
Nitrogen Oxides	Mg/Nm^3	39.0	38.6	36.6	34.4	32.4	33.1	35.68
Particulate Fuloride	Mg/Nm^3	0.13	0.12	0.13	0.14	0.13	0.14	0.13
Gasesous Fluroide	Mg/Nm^3	0.42	0.4	0.44	0.46	0.42	0.43	0.43
Total Fluoride	Mg/Nm^3	0.55	0.52	0.57	0.60	0.55	0.57	0.56
Fluoride Emission	Kg/T	0.058	0.053	0.058	0.062	0.058	0.057	0.058

POTROOM ONLINE FUGITIVE MONITORING(HF) REPORT Oct'25 to Mar '26

Annexure-03

Oct-25		Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Avg. in PPM
		01-10-25	02-10-25	03-10-25	04-10-25	05-10-25	06-10-25	07-10-25	08-10-25	09-10-25	10-10-25	11-10-25	12-10-25	13-10-25	14-10-25	15-10-25	16-10-25	17-10-25	18-10-25	19-10-25	20-10-25	21-10-25	22-10-25	23-10-25	24-10-25	25-10-25	26-10-25	27-10-25	28-10-25	29-10-25	30-10-25	31-10-25	
FUGITIVE EMISSION CH#1 (B001-B090) HF	PPM	0.002	0.004	0.003	0.008	0.010	0.019	0.024	0.024	0.017	0.003	0.003	0.004	0.001	0.004	0.078	0.101	0.100	0.154	0.119	0.126	0.042	0.125	0.156	0.098	0.227	0.143	0.081	0.099	0.169	0.162	0.2399	0.076
FUGITIVE EMISSION CH#2 (B091-B180) HF	PPM	0.042	0.019	0.055	0.022	0.043	0.028	0.040	0.041	0.053	0.009	0.013	0.009	0.043	0.026	0.092	0.154	0.125	0.179	0.111	0.150	0.168	0.151	0.216	0.166	0.183	0.199	0.173	0.135	0.169	0.195	0.196	0.103
FUGITIVE EMISSION CH#3 (A091-A180) HF	PPM	0.365	0.314	0.379	0.345	0.386	0.315	0.395	0.310	0.308	0.301	0.255	0.274	0.316	0.320	0.389	0.306	0.344	0.313	0.351	0.321	0.332	0.389	0.414	0.341	0.394	0.362	0.400	0.286	0.401	0.350	0.413	0.345
FUGITIVE EMISSION CH#4 (A001-A090) HF	PPM	0.0809	0.0122	0.0845	0.0512	0.0874	0.0367	0.0688	0.0227	0.0315	0.0240	0.0256	0.0168	0.0282	0.0290	0.0286	0.3908	0.0166	0.0096	0.0095	0.0309	0.0168	0.0229	0.0307	0.0150	0.0259	0.0233	0.0415	0.0231	0.0683	0.0644	0.079	0.048
																															Monthly Average(ppm)		0.143
																															Monthly Average (mg/M3)		0.119

Nov-25		Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday		Avg. in PPM
		01-11-25	02-11-25	03-11-25	04-11-25	05-11-25	06-11-25	07-11-25	08-11-25	09-11-25	10-11-25	11-11-25	12-11-25	13-11-25	14-11-25	15-11-25	16-11-25	17-11-25	18-11-25	19-11-25	20-11-25	21-11-25	22-11-25	23-11-25	24-11-25	25-11-25	26-11-25	27-11-25	28-11-25	29-11-25	30-11-25		
FUGITIVE EMISSION CH#1 (B001-B090) HF	PPM	0.198	0.169	0.146	0.160	0.180	0.139	0.146	0.130	0.219	0.254	0.208	0.233	0.249	0.194	0.191	0.245	0.212	0.204	0.235	0.187	0.175	0.203	0.163	0.184	0.196	0.235	0.174	0.132	0.228	0.185		0.192
FUGITIVE EMISSION CH#2 (B091-B180) HF	PPM	0.194	0.228	0.161	0.226	0.228	0.196	0.235	0.214	0.280	0.213	0.215	0.214	0.213	0.218	0.193	0.283	0.216	0.244	0.259	0.257	0.307	0.249	0.304	0.284	0.254	0.267	0.133	0.281	0.182	0.210		0.232
FUGITIVE EMISSION CH#3 (A091-A180) HF	PPM	0.346	0.416	0.327	0.309	0.255	0.284	0.306	0.310	0.322	0.225	0.235	0.238	0.250	0.250	0.273	0.287	0.246	0.253	0.289	0.305	0.314	0.329	0.345	0.330	0.293	0.234	0.175	0.332	0.249	0.230		0.285
FUGITIVE EMISSION CH#4 (A001-A090) HF	PPM	0.0264	0.0425	0.0084	0.0128	0.0087	0.0042	0.3064	0.3095	0.0003	0.0015	0.2354	0.0013	0.0000	0.0006	0.0000	0.0002	0.0002	0.0005	0.0008	0.0009	0.0000	0.0005	0.0000	0.0000	0.0000	0.0019	0.0054	0.0025	0.0000	0.0010		0.032
																															Monthly Average(ppm)		0.185
																															Monthly Average (mg/M3)		0.154

Dec-25		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Avg. in PPM
		01-12-25	02-12-25	03-12-25	04-12-25	05-12-25	06-12-25	07-12-25	08-12-25	09-12-25	10-12-25	11-12-25	12-12-25	13-12-25	14-12-25	15-12-25	16-12-25	17-12-25	18-12-25	19-12-25	20-12-25	21-12-25	22-12-25	23-12-25	24-12-25	25-12-25	26-12-25	27-12-25	28-12-25	29-12-25	30-12-25	31-12-25		
FUGITIVE EMISSION CH#1 (B001-B090) HF	PPM	0.239	0.156	0.179	0.146	0.153	0.150	0.138	0.142	0.156	0.235	0.108	0.188	0.177	0.125	0.140	0.112	0.127	0.138	0.107	0.124	0.102	0.098	0.099	0.080	0.064	0.132	0.117	0.140	0.097	0.185	0.128	0.138
FUGITIVE EMISSION CH#2 (B091-B180) HF	PPM	0.257	0.214	0.187	0.193	0.179	0.204	0.172	0.099	0.125	0.267	0.142	0.210	0.147	0.238	0.175	0.183	0.164	0.179	0.131	0.214	0.170	0.183	0.125	0.131	0.070	0.065	0.128	0.164	0.117	0.078	0.223	0.166
FUGITIVE EMISSION CH#3 (A091-A180) HF	PPM	0.308	0.241	0.237	0.277	0.321	0.273	0.262	0.234	0.274	0.234	0.237	0.289	0.315	0.339	0.267	0.287	0.243	0.308	0.259	0.264	0.279	0.228	0.258	0.228	0.281	0.101	0.300	0.342	0.296	0.095	0.359	0.266
FUGITIVE EMISSION CH#4 (A001-A090) HF	PPM	0.0075	0.0021	0.0015	0.0109	0.0011	0.0085	0.0009	0.0068	0.0015	0.0019	0.0000	0.0000	0.0014	0.0006	0.0024	0.0045	0.0003	0.0000	0.0054	0.0022	0.0058	0.0008	0.0026	0.0002	0.0000	0.0000	0.0001	0.0006	0.0000	0.0000	0.0000	0.002
																															Monthly Average(ppm)		0.143
																															Monthly Average (mg/M3)		0.119

Jan-26		Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Avg. in PPM
		01-01-26	02-01-26	03-01-26	04-01-26	05-01-26	06-01-26	07-01-26	08-01-26	09-01-26	10-01-26	11-01-26	12-01-26	13-01-26	14-01-26	15-01-26	16-01-26	17-01-26	18-01-26	19-01-26	20-01-26	21-01-26	22-01-26	23-01-26	24-01-26	25-01-26	26-01-26	27-01-26	28-01-26	29-01-26	30-01-26	31-01-26		
FUGITIVE EMISSION CH#1 (B001-B090) HF	PPM	0.128	0.163	0.197	0.145	0.080	0.087	0.085	0.115	0.192	0.179	0.267	0.183	0.170	0.087	0.117	0.119	0.092	0.096	0.101	0.053	0.094	0.178	0.200	0.192	0.202	0.191	0.104	0.034	0.011	0.029	0.045631	0.127
FUGITIVE EMISSION CH#2 (B091-B180) HF	PPM	0.223	0.252	0.453	0.333	0.195	0.158	0.177	0.154	0.227	0.190	0.296	0.292	0.244	0.195	0.204	0.190	0.224	0.208	0.239	0.207	0.290	0.272	0.247	0.198	0.244	0.221	0.274	0.179	0.267	0.203	0.240	0.235
FUGITIVE EMISSION CH#3 (A091-A180) HF	PPM	0.359	0.398	0.365	0.421	0.322	0.300	0.306	0.316	0.369	0.378	0.323	0.365	0.418	0.363	0.430	0.364	0.363	0.392	0.399	0.423	0.420	0.507	0.643	0.615	0.611	0.504	0.570	0.603	0.602	0.637	0.525	0.439
FUGITIVE EMISSION CH#4 (A001-A090) HF	PPM	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.029	0.000	0.000	0.000	0.000	0.000	0.029	0.007	0.009	0.001	0.019	0.004	0.016	0.008	0.007	0.005	0.006	0.005
																															Monthly Average(ppm)		0.202
																															Monthly Average (mg/M3)		0.168

Feb-26		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday				Avg. in PPM
		01-02-26	02-02-26	03-02-26	04-02-26	05-02-26	06-02-26	07-02-26	08-02-26	09-02-26	10-02-26	11-02-26	12-02-26	13-02-26	14-02-26	15-02-26	16-02-26	17-02-26	18-02-26	19-02-26	20-02-26	21-02-26	22-02-26	23-02-26	24-02-26	25-02-26	26-02-26	27-02-26	28-02-26				
FUGITIVE EMISSION CH#1 (B001-B090) HF	PPM	0.039	0.070	0.065	0.021	0.044	0.050	0.097	0.130	0.133	0.093	0.108	0.067	0.033	0.011	0.001	0.002	0.010	0.002	0.003	0.004	0.003	0.001	0.006	0.029	0.471	0.243	0.393	0.188				0.083
FUGITIVE EMISSION CH#2 (B091-B180) HF	PPM	0.156	0.233	0.201	0.255	0.075	0.072	0.045	0.076	0.142	0.170	0.111	0.228	0.178	0.263	0.262	0.171	0.074	0.093	0.082	0.116	0.120	0.168	0.177	0.307	0.261	0.260	0.185	0.163				0.166
FUGITIVE EMISSION CH#3 (A091-A180) HF	PPM	0.440	0.429	0.402	0.511	0.389	0.418	0.327	0.420	0.357	0.470	0.353	0.509	0.340	0.492	0.389	0.381	0.453	0.418	0.515	0.452	0.337	0.449	0.358	0.459	0.340	0.378	0.416	0.551				0.420
FUGITIVE EMISSION CH#4 (A001-A090) HF	PPM	0.219	0.393	0.531	0.428	0.436	0.290	0.382	0.233	0.400	0.317	0.396	0.378	0.399	0.297	0.399	0.263	0.335	0.615	0.530	0.386	0.448	0.461	0.526	0.465	0.401	0.383	0.472	0.485				0.402
																															Monthly Average(ppm)		0.268
																															Monthly Average (mg/M3)		0.223

Mar-26		Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Avg. in PPM
		01-03-26	02-03-26	03-03-26	04-03-26	05-03-26	06-03-26	07-03-26	08-03-26	09-03-26	10-03-26	11-03-26	12-03-26	13-03-26	14-03-26	15-03-26	16-03-26	17-03-26	18-03-26	19-03-26	20-03-26	21-03-26	22-03-26	23-03-26	24-03-26	25-03-26	26-03-26	27-03-26	28-03-26	29-03-26	30-03-26	31-03-26		
FUGITIVE EMISSION CH#1 (B001-B090) HF	PPM	0.364	0.078	0.171	0.081	0.190	0.075	0.212	0.140	0.192	0.075	0.122	0.025	0.096	0.037	0.117	0.054	0.094	0.047	0.112	0.040	0.133	0.064	0.114	0.050	0.067	0.024	0.048	0.051	0.055	0.037	0.026062	0.096
FUGITIVE EMISSION CH#2 (B091-B180) HF	PPM	0.158	0.211	0.128	0.181	0.153	0.164	0.171	0.207	0.152	0.170	0.188	0.142	0.071	0.090	0.089	0.202	0.151	0.100	0.112	0.103	0.153	0.202	0.135	0.153	0.096	0.142	0.113	0.140	0.106	0.141	0.113	0.143
FUGITIVE EMISSION CH#3 (A091-A180) HF	PPM	0.475	0.412	0.384	0.433	0.270	0.400	0.367	0.516	0.399	0.488	0.420	0.386	0.270	0.369	0.421	0.453	0.356	0.397	0.310	0.390	0.314	0.401	0.339	0.425	0.404	0.413	0.324	0.430	0.313	0.428	0.433	0.392
FUGITIVE EMISSION CH#4 (A001-A090) HF	PPM	0.536	0.448	0.412	0.409	0.418	0.409	0.451	0.437	0.516	0.406	0.426	0.402	0.445	0.379	0.525	0.452	0.405	0.412	0.474	0.395	0.264	0.421	0.454	0.465	0.477	0.356	0.468	0.384	0.435	0.459	0.661	0.439
																															Monthly Average(ppm)		0.267
																															Monthly Average (mg/M3)		0.223

Annexure-04

Forage Fluoride Monitoring Results

Sampling Location	Species	Nov'25	Feb'26
		Fluoride (in ppm)	Fluoride (in ppm)
Bomaloi	Aegle marmelo, Oryza Sativa	2.4	1.96
Gurupali	Cynodon dactylo, Azadirachta Indica	1.41	1.62
Plant Site	Dalbergia sissoo, Cynodon dactylon	1.41	1.55
Thelkoloi	Pongame oil tree, Cynodon dactylon	1.72	1.80
Gumukarma	Bambusoideae, Oryza Sativa	2.4	2.58
Ghichamura	Mimusops elengi, Oryza Sativa	1.38	1.44
Tileimal	Oryza Sativa, Cynodon dactylon	1.72	1.62
Lapanga	Azadirachta indica, Oryza Sativa	2.1	2.18
Jangala	Cynodon dactylon, Oryza Sativa	1.68	1.72
Bhadrapali	Pongame oil tree, Cynodon dactylon, Oryza Sativa	1.49	1.56

Annexure-05

CPP Stack Emission Monitoring Results

(Period-Oct-2025 to Mar-2026)

Sr. No.	Stack	Parameter	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26
1	CPP-1	PM	44.1	45.8	42.5	40.4	43.4	41.6
		SO2	1010	968.6	1002.4	1010.2	990.6	1010.4
		NOx	296.4	280.5	260.5	268.3	280.5	248.2
		Hg	0.0014	0.0012	0.0013	0.0013	0.0013	0.0014
2	CPP-2	PM	43.8	SD*	45.1	43.6	40.2	42.2
		SO2	1002.4	SD*	1240.5	1006.5	1080.6	1110.6
		NOx	252.4	SD*	236.6	202.6	240.5	210.4
		Hg	0.0014	SD*	0.0015	0.0014	0.0014	0.0015
3	CPP-3	PM	40.1	43.4	41.1	43.4	45.2	43.4
		SO2	1110.4	1220.6	1210.4	1104.5	1106.5	1170.2
		NOx	230.2	270.1	250.5	204.2	240.2	251.6
		Hg	0.0014	0.0014	0.0015	0.0014	0.0014	0.0015
4	CPP-4	PM	42.1	44.3	42.5	SD*	SD*	SD*
		SO2	1210.2	1110.4	1120.5	SD*	SD*	SD*
		NOx	310.6	218.6	204.2	SD*	SD*	SD*
		Hg	0.0013	0.0014	0.0013	SD*	SD*	SD*
5	CPP-5	PM	44.2	42.6	40.4	44.1	45.2	42.4
		SO2	1226.4	1250.3	1220.5	1211.2	1201.6	1260.6
		NOx	292.4	286.6	290.5	296.6	270.6	280.8
		Hg	0.0014	0.0013	0.0014	0.0015	0.0013	0.0015
6	CPP-6	PM	21.2	45.2	41.1	21.1	23.6	42.2
		SO2	542.4	1068	1020	470	382.4	1086.6
		NOx	282.6	310.1	325.5	206.7	220.5	210.4
		Hg	0.0013	0.0014	0.0015	0.0012	0.0013	0.0014

*SD- Unit under Shutdown

Annexure-06

Status of Utilization of Fly Ash and Bottom Ash

(Period-April-25 to March-26)

S. No.	Description	Quantity in MT
1.	Quantity of fly ash generated	1511997.82
2.	Quantity of bottom ash generated	87004.80
	Total Ash Generated	**1599002.62**
1.	Supply to Brick Manufacturing Units	446.56
2.	Supply to Cement Plants	1404352.83
3.	Low Lying Area Filling (CTO obtained)	65328.52
4.	Utilization in Construction of Road and Flyover embarkment	156652.83
	Total ash utilised	**1626780.74**
	% of total ash utilization	**101.74**

Visiontek Consultancy Services Pvt. Ltd.
(Committed For Better Environment)

Ref: Envlab/25-26/R-15792 **Date: 28.11.2025**

ASH ANALYSIS REPORT NOVEMBER-2025

Name of Industry : M/s Hindalco Industries Limited (Unit- Aditya Aluminium), Lapanga.
Sampling Location : FA-01: CPP Fly Ash Silo
Date of Sampling : 17.11.2025
Date of Analysis : 18.11.2025 TO 22.11.2025
Sample Collected By : VCSPL Representative in presence of Aditya Aluminium Representative

Sl. No.	Parameters	Unit	Analysis Results FA-01	Unit	Analysis Results FA-01
Chemical Analysis					
1	Na_2O	%	0.26	mg/kg	2600
2	MgO	%	0.96	mg/kg	9600
3	Al_2O_3	%	21.6	mg/kg	216000
4	SiO_2	%	50.8	mg/kg	508000
5	P_2O_5	%	0.021	mg/kg	210
6	SO_3	%	2.3	mg/kg	23000
7	K_2O	%	0.86	mg/kg	8600
8	CaO	%	4.6	mg/kg	46000
9	TiO_2	%	-	mg/kg	---
10	MnO	%	0.21	mg/kg	2100
11	Fe_2O_3	%	9.2	mg/kg	92000
Heavy Metals Analysis					
1	Mercury as Hg	%	<0.001	mg/kg	<0.001
2	Arsenic as As	%	<0.001	mg/kg	<0.001
3	Lead as Pb	%	0.0165	mg/kg	165
4	Chromium as Cr	%	< 0.002	mg/kg	< 0.002
5	Vanadium as V	%	<0.001	mg/kg	<0.001
6	Iron as Fe	%	5.1623	mg/kg	51623
7	Cobalt as Co	%	<0.001	mg/kg	<0.001
8	Copper as Cu	%	0.059	mg/kg	590
9	Nickel as Ni	%	0.087	mg/kg	870
10	Zinc as Zn	%	0.0523	mg/kg	523
11	Strontium as Sr	%	--	mg/kg	--
12	Barium as Ba	%	<0.001	mg/kg	<0.001

Reviewed by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Approved by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Ref: Envlab/25-26/R-15793 **Date: 28.11.2025**

ASH ANALYSIS REPORT NOVEMBER-2025

Name of Industry : M/s Hindalco Industries Limited (Unit- Aditya Aluminium), Lapanga.
Sampling Location : BA-01: CPP Bottom Ash Silo
Date of Sampling : 17.11.2025
Date of Analysis : 18.11.2025 TO 22.11.2025
Sample Collected By : VCSPL Representative in presence of Aditya Aluminium Representative.

Sl. No.	Parameters	Unit	Analysis Results BA-01	Unit	Analysis Results BA-01
Chemical Analysis					
1	Na_2O	%	0.21	mg/kg	2100
2	MgO	%	2.3	mg/kg	23000
3	Al_2O_3	%	28.6	mg/kg	286000
4	SiO_2	%	52.4	mg/kg	524000
5	P_2O_5	%	0.026	mg/kg	260
6	SO_3	%	1.4	mg/kg	14000
7	K_2O	%	0.92	mg/kg	9200
8	CaO	%	3.24	mg/kg	32400
9	TiO_2	%	0	mg/kg	---
10	MnO	%	0.24	mg/kg	2400
11	Fe_2O_3	%	7.2	mg/kg	72000
Heavy Metals Analysis					
1	Mercury as Hg	%	<0.001	mg/kg	<0.001
2	Arsenic as As	%	<0.001	mg/kg	<0.001
3	Lead as Pb	%	0.0153	mg/kg	153
4	Chromium as Cr	%	< 0.002	mg/kg	< 0.002
5	Vanadium as V	%	<0.001	mg/kg	<0.001
6	Iron as Fe	%	6.3	mg/kg	63000
7	Cobalt as Co	%	<0.001	mg/kg	<0.001
8	Copper as Cu	%	0.026	mg/kg	260
9	Nickel as Ni	%	0.092	mg/kg	920
10	Zinc as Zn	%	0.06	mg/kg	600
11	Strontium as Sr	%	--	mg/kg	--
12	Barium as Ba	%	<0.001	mg/kg	<0.001

Reviewed by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Approved by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Annexure-08

Ground Water Test Report Dec-25 to Mar-26

Sl. No.	Test Parameters	Month- Dec-25				Month- Mar-26			
		GW-1 (Near Ash Pond)	GW-2 (Near Proposed Ash Pond)	GW-3 (Near RR Colony)	GW-4 (Bomaloi Village)	GW-1 (Near Ash Pond)	GW-2 (Near Proposed Ash Pond)	GW-3 (Near RR Colony)	GW-4 (Bomaloi Village)
		Result	Result	Result	Result	Result	Result	Result	Result
1.	pH at 26^0C	7.41	7.45	7.56	7.44	7.38	7.26	7.15	7.38
2.	Turbidity in mg/l	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)	BDL(DL:1.0)
3.	Total Dissolved Solids as TDS in mg/l	174.4	127.3	254.6	131.3	187.3	73.7	268	164.2
4.	Aluminium as Al in mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
5.	Boron as B in mg/l	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
6.	Calcium as Ca in mg/l	28.03	16.01	44.5	20.02	32.03	12.01	40.04	20.02
7.	Chloride as Cl in mg/l	8.6	14.1	22.2	19.4	16	10	28	22.2
8.	Copper as Cu in mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
9.	Flouride as F in mg/l	0.40	0.20	0.38	0.29	BDL(DL:0.2)	0.33	0.4	BDL(DL:0.2)
10.	Iron as Fe in mg/l	0.16	0.18	0.20	0.19	0.17	0.17	0.18	0.15
11.	Magnesium as Mg in mg/l	9.76	4.88	16.10	4.88	14.64	2.44	14.64	8.78
12.	Manganese as Mn in mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
13.	Nitrate as NO3 in mg/l	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	BDL(DL:3.0)	0.87	0.98	2.11	0.84
14.	Phenolic Compounds as C6H5OH in mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
15.	Selenium as Se in mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
16.	Sulphate as SO4 in mg/l	24.0	13.2	28.0	20.0	20.0	10.0	22.0	16.4
17.	Total Hardness as CaCO3 in mg/l	110.0	60.0	176.0	70.0	140.0	40.0	160.0	86.0
18.	Cadmium as Cd in mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.003)	BDL(DL:0.003)	BDL(DL:0.003)	BDL(DL:0.003)
19.	Cyanide as CN in mg/l	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)	BDL(DL:0.05)
20.	Lead as Pb in mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
21.	Mercury as Hg in mg/l	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.0001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)
22.	Arsenic as As in mg/l	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.001)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
23.	Total Chromium as Cr in mg/l	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.01)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
24.	Sodium as Na in mg/l	14.2	7.3	25.0	13.0	10.2	6.6	29.0	12.0
25.	Conductivity in us/cm	260.4	190.0	380.0	196.0	280.2	110.0	400.0	246.0
26.	Potassium as K in mg/l	3.2	2.1	6.1	3.1	3.0	4.18	4.68	2.6
27.	Zinc as Zn in mg/l	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.02)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)	BDL(DL:0.005)
28.	Total Alkalinity as CaCO3 in mg/l	60.1	60.0	140.0	76.0	80.0	40.0	134.0	76.0

Annexure-09

Compliance Status from October- 25 to March- 26

COMPLIANCE TO CREP GUIDELINES FOR SMELTER

Sr. No.	Particulars	Compliance
1	Environmental clearance for new smelters to be given by MoEFCC only with pre-baked technology	Smelter design is based on pre-baked technology only.
2	Fluoride emissions should be limited to 0.8 kg/ton of aluminium production and dry scrubbing of fluorides	Fluoride emissions is being controlled by installing GTC & FTC below 0.8 kg/ton of aluminium metal produced. The average total fluoride emission for the period October'25 to March'26 is 0.1061 Kg/Ton of metal production.
3	Fluoride consumption in the smelter should be limited to 10 kg/ton of aluminium produced	The specific fluoride (as F) consumption for the period Oct'25 to Mar'26 is 7.64 Kg/ton of metal produced.
4	The fluoride in forage should be limited to Average of 12 consecutive months - 40 ppm Average of 2 consecutive months - 60 ppm One month - 80 ppm Regular monitoring data to be submitted to SPCB and CPCB.	Forage fluoride is being monitored on quarterly basis as a part of post project monitoring activities. The monitored data is being regularly submitted to SPCB and CPCB.
5	The average life of the pots should be 2500 days. The possibility of using the SPL in cement or steel industry after recovery of aluminum fluoride should be explored.	The carbon part of spent pot lining is being disposed to actual users i.e. M/s Regrow Tanso Pvt. Ltd. Jharsuguda, the refractory part to M/s. Re-Sustainability Ltd (CHW-TSDF, Jajpur). In this way 100% SPL is being detoxified and recycled/disposed and no stock at the end of Mar-2026.
6	The SPL should be disposed in secured landfill.	
7	Achieving particulate matter limit of 50 mg/Nm3 in anode baking furnace.	It is being Complied with.

Annexure-09

Compliance Status from October- 25 to March- 26

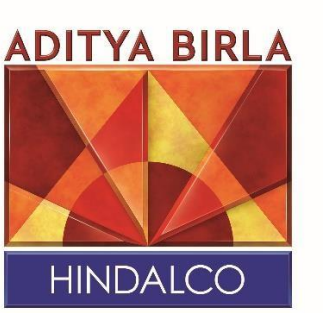
COMPLIANCE TO CREP GUIDELINES FOR CPP

Sr. No.	Conditions	Compliance
1	Implementation of Environmental Standards (emission & effluent) in non- compliant* Power Plants (31 & 27) - Submission of action plan: June 30, 2003 -Placement of order for Pollution of control equipment: September, 2003 - Installation & commission: December 31, 2005	Not Applicable
2	For existing thermal power plants, a feasibility study shall be carried out by Central Electricity Authority (CEA) to examine possibility to reduce the particulate matter emissions to 100 mg/Nm3. The studies shall also suggest the road map to meet 100 mg/Nm3. The studies shall also suggest the road map to meet 100 mg/Nm3 wherever found feasible. CEA shall submit the report by March 2004.	Not Applicable
3	New / expansion power projects to be accorded environmental clearance on or after1.4.1.2003 shall meet the limit of 100 mg/Nm3 for particulate matter.	Complied. PM emission is well below stipulated limit of 50 mg/Nm3.
4	Development of SO_2 & NO_X emission standards for coal based plants by December 2003. - New/ expansion power projects shall meet the limit of SO_2 & NO_X w.e.f. 1.1.2005. - Existing power plants shall meet the limit of SO2 & NOX w.e.f.1.1.2006.	Standard for SO_2 & NOx has been published by MOEFCC.
5	Install/activate opacity meters/ continuous monitoring system in all the units by December 31, 2004 with proper calibration system.	Continuous monitoring system installed in the stacks attached to Power Plant for monitoring of PM, SO_2 & NOx.
6	Development of guidelines/ standards for mercury and other toxic heavy metals emissions by December 2003.	Standard for Hg emission for captive power plant has been published by MOEFCC. Monthly monitoring report is being submitted to SPCB.
7	Review of stack height requirement and guidelines for power plants based on micro meteorological data by June 2003	Guideline has been published for stack height by MOEFCC in this regard.
8	Implementation of use of beneficiated coal as per GOI Notification:	Not Applicable

Annexure-09

Compliance Status from October- 25 to March- 26

	Power plants will sign fuel supply agreement (FSA) to meet the requirement as per the matrix prepared by CEA for compliance of the notification as short term measure. Options/mechanism for setting up of coal washeries as a long term measure * Coal India will up its own washery * Sate Electricity Board to set up its own washery * Coal India to ask private entrepreneurs to set up washeries for CIL and taking washing charges * SEBs to select a private entrepreneur to set up a washery near pit- head installation of coal beneficiation plant	
9	Power plants will indicate their requirement of abandoned coal mines for ash disposal & Coal India/ MOC shall provide the list of abandoned mines by June 2003 to CEA.	Not Applicable
10	Power plants will provide dry ash to the users outside the premises or uninterrupted access to the users within six months.	It is being Complied with.
11	Power Plants should provide dry fly ash free of cost to the users	Dry fly ash is being provided to the ash brick manufacturing units in free of cost.
12	State P.W.Ds/ construction & development agencies shall also adhere to the specifications/Schedules of CPWD for ash-based products utilization MoEF will take up the matter with State Governments.	Not Applicable
13 (i)	New plants to be accorded environmental clearance on or after 1.04.2003 shall adopt dry fly ash extraction or dry disposal system or Medium (35-40%) ash concentration slurry disposal system or Lean phase with hundred percent ash waste re-circulation system depending upon site specific environmental situation.	Complied
13 (ii)	Existing plants shall adopt any of the systems mentioned in 13(i)by December 2004	Implemented
14	Fly ash Mission shall prepare guidelines/manuals for fly ash utilization by March 2004.	Noted
15	New plants shall promote adoption of clean coal and clean power generation technologies * Units will submit bank guarantee to respective SPCB	Noted



ENVIRONMENT POLICY

Effective from: **April 1, 2024**

First Revision: **August 09, 2022**
Second Revision: **February 13, 2024**
Third Revision: **September 11, 2025**

*Placed before the Board of Directors at its meeting held on February 13, 2024, and reviewed/approved thereat.

ENVIRONMENT POLICY

We, at Hindalco Industries Limited, operating across the process chain from mining to semi-fabricated products in non-ferrous metals, will strive to continually improve our environmental performance for sustainable operations and responsible growth globally, by integrating sound environmental systems & practices and Pollution Prevention approach.

To achieve this, we shall:

- Comply with all applicable legal, national, and international environmental requirements, and continually improve performance through a strengthened Environmental Management System.
- For Environmental KPIs, set measurable targets, continuously monitor progress, and assess environmental risks to effectively manage and mitigate impacts on the environment and society.
- Allocate sufficient resources such as organisational structure, technology and funds for implementation of the policy and for regular monitoring of performance.
- Adopt pollution prevention approach for all our processes; enhance material efficiency and achieve high productivity.
- Conserve key resources like (energy, water, raw materials, fuel) through efficient technologies, process improvements and conservation programs.
- Adopt energy-efficient and cleaner technologies aligned with techno-economic viability, regional needs, and growth plans.
- Promote waste minimization through prevention, reduction, reuse, recycling, recovery, and adopt circular economy practices.
- Align with TNFD recommendations by setting site-specific biodiversity targets that progress from No Net Loss[1] towards Net Positive Impact[2] by 2050.
- Collaborate and engage with employees, regulators, suppliers, contractors, customers, authorized business partners, communities, and other stakeholders to strengthen environmental practices, understand priorities, and address key challenges.
- Adapt environmental performance over life cycle as an important input to the decision-making processes in the organization.
- Raise environmental awareness on identifying and managing the environmental impacts for internal and external stakeholders through training, communication, participation and consultation
- Communicate this policy internally and externally, ensuring transparency on commitments and performance.
- Conduct environmental due diligence before undergoing any mergers and acquisitions.

This policy shall be made available to all employees, suppliers, customers, authorized business partners, community and other stakeholders, as appropriate. The implementation of this policy is the responsibility of respective heads of units with the monitoring and tracking done by the Apex Sustainability Committee under the guidance of the Managing Director.

[1] *As defined in Hindalco Biodiversity Policy*

[2] *As defined in Hindalco Biodiversity Policy*

Annexure-11

Implementation Status of Public Hearing Commitments held in 2012

Sl. No.	Point Raised During Public Hearing	Comments of the PP during Public Hearing	Implementation status
1	The Project Proponent should provide employment to the locals on priority basis.	The industry has already provided employment to be locals based on eligibility in the ongoing projects and they are committed to do so in the proposed expansion of project.	The industry has already provided employment to local residents based on their eligibility in the existing projects and is committed to continuing this in the proposed expansion project. A total of 2361 locals from Sambalpur district are employed at Aditya. Out of these, 1250 individuals are from the revenue villages of Lapanga, Bomaloi, Derba, Khadiapali, Tileimal, Dharopani, Pondloi, Ludhapali, Bhoipali, Katarbaga, and Jangala. In total, 2517 people from across Odisha have been employed.
2	The industry should establish an ITI training centre to train the young people in technical field so as to enable them for getting suitable employment in the plant.	The industry has proposed to upgrade the existing ITI at Rengali to facilitate the training programme for the project affected people for the technical Jobs.	The industry has facilitated ongoing technical training for 56 deserving youth at both Amaresh Patel ITI, Rengali, and KIIT University, Bhubaneswar, based on applications received from five Gram Panchayats. Such initiatives are vital in empowering young people and improving their employability. A total of Rs. 452.0(FY 2008 to FY 2026) lakhs have been invested in various skill-based training programs. Local VSS ITI supported with Classroom infra and training materials during this FY'25-26 enhancing the capability of the institute and supported 35 students teaching learning processes.
3	The industry should carry out massive plantation in the vacant spaces of the surrounding villages, R.R colony etc. Trees which are not under the purview of the core plant area are to be protected and minimum 25% of the project area to be made green cover.	The industry has already planted 35,000 saplings inside the factory premises. Also, the industry has proposed massive plantation in the vacant spaces of the surrounding villages, R.R Colony etc.	The industry has planted a total of 9,83,230 saplings within the factory premises till date. Additionally, 74277 saplings, including species like mango, banana, drumstick, guava, lemon, and papaya, have been planted in the vacant spaces of nearby villages such as Naikapada, Tileimal, Dharopani, Bomaloi, Narupada, Derba, Lapanga, Pondaloi, and Ludhapali. Furthermore, 74,277 saplings have been planted to villagers in the surrounding areas up to 2026, in addition to the factory premises. Of the total plant area of 1,347.35 hectares, over 446 hectares have already been developed as a greenbelt or under plantation across the plant, ash pond, and township areas.

4	The industry should inform the Public about the air pollution control measures to be adopted in the proposed plant for control of air pollution and also proactive measures to be taken by the company for control of rise in ambient temperature. Pollution measurement machines to be installed in every villages and pollution control committees to be formed to regulate the pollution.	The industry has proposed to install real time ambient air quality monitoring station in the project area for information on different pollutant.	The industry has installed four Continuous Ambient Air Quality Monitoring Stations within the plant premises. Additionally, manual Ambient Air Quality Monitoring is conducted at four stations inside the plant and buffer zone, through a NABL-accredited laboratory on a periodic basis. Monitoring reports are regularly submitted to MoEF&CC and SPCB as part of the six-monthly EC compliance report. To control air pollution, the industry has installed GTC, FTC, ESPs, and bag filters. Moreover, a semi-dry FGD system has been installed in Unit-6 of the Captive Power Plant. Greenbelt development has been carried out on > 33% of the plant area, and the company has adopted state-of-the-art technology and equipment for both the smelter and power plants as part of its proactive environmental measures.
5	The Project Proponent should inform the public about the peripheral developmental works to be carried out in future.	The industry has already provided 15 additional classrooms in 5 school at Lapanga, Dharopani, Jangala, Ghichamura & Katarbaga and other renovation of works of School will be taken up as part of their CSR activities. In infrastructure development the industry has completed 6 km concrete road from Lapanga to Dhorropani and other internal roads to the nearby villages are under progress and other similar road works will be taken up in due course of project development.	Peripheral developmental works are being carried out in consultation with the Gram Panchayat Sarpanch, villagers, opinion makers and well-wishers as per the CSR guideline. FY 2025-26 provided 5 nos of smart classroom boards to the five nos of high schools. Anganwadi renovation 6 nos, 5450 nos of snacks provided 43 nos school and 39 nos of Anganwadi, Pratibha Samman provided tabs to 23 nos students, SUP program 3 nos conducted, firewood of 100 ton have been provided to schools of 5 GPs. Sports promotion for 25 nos clubs, 7 nos of RO drinking water facility provided in 5 schools. Nikshya mitra kits provided 1440 nos to TB patients, First Aid centre treated 2417 patients and 2200 patients treated in the Vision center Rengali. MMU running benefitted 9565 nos of people in 5 GPs. Sunstroke Awareness, Nutrition, Health awareness, Free eye checkup, 90 days drinking water tanker supply to 126 villages. Under Livelihood Basketry project supported to 35 nos of rural women, 120 nos of women SHG members got trained on various food processing programs, world environment Day celebrated. Bagged Fame CSR Award for excellence in CSR.

6	The industry should make necessary arrangements for provision of drinking water in the affected area.	The industry has already initiated to supply drinking water by tankers in the project affected villages.	In 2015-16, Rs. 5.17 crores was allocated for a drinking water supply project in the Rengali Block. Since 2010, the industry has been providing drinking water to five Gram Panchayats, covering villages such as Lapanga, Bomaloi, Derba, Khadiapali, Tileimal, Dharropani, Pondloi, Ludhapali, Bhoipali, Katarbaga, Jangala, Laida, and Ghichamura. From 2021 onwards, this service was extended to Laida GP. Under Project Jal Vahini, safe drinking water is delivered directly to the community through water tankers, with over 126 trips daily involving 32 vendors, reaching more than 15,000 people in 108 villages/hamlets for 90 days in 6 GPs. A total of Rs. 9.3394 crores have been spent on drinking water programs in the peripheral areas since 2007.
7	The industry should make necessary arrangement to provide round the clock doctors for better medical service in the Lapanga area.	The industry has already conducted 55 health camps, and more than 11500 patients have received free treatment by reputed doctors till date.	The industry established a First Aid Centre for the community in Lapanga in 2013, which continues to operate, having treated 18079 patients as of 2025. The centre offers free consultations and medicines, with two full-time doctors available daily from 9:00 AM to 12:00 PM and 4:00 PM to 6:00 PM. A total of Rs. 75.03 lakhs has been spent on the Lapanga First Aid Centre. In addition, the Vision Centre program continues to provide services across all five Gram Panchayats. Ambulance service was provided to Rengali PHC for emergency transport to Burla Medical and DHH, Sambalpur free of cost, benefiting 11 patients. Weekly (Friday) One Specialist (Gynaecologist) is provided to Rengali PHC for health check. Where 19 patients have been availed of the services. Weekly once (Wednesday) One Specialist (Paediatric) is provided to Rengali PHC for health check. Where 46 patients have availed the services. Weekly once (Tuesday) One Specialist (Medicines) is provided to Rengali PHC for health check. Where 53 patients have been availed of the services. X-ray service is provided through Ma samalewari Daigostic centre with support from Aditya Aluminium, Lapanga with free of cost. Where 81 patients have been availed of the service. A total of Rs. 71.66 Crores have been spent on healthcare activities in surrounding villages such as Dhorropani, Jangla, Bomaloi, Lapanga,

			Katarbaga, Ghichamura, Pondaloi, and Ludhapali. These activities include health camps, mother and child healthcare, SuPoshan, eye care, TB elimination, disability support, malnutrition management (MDD) and sanitation **Safe Drinking Water Facility –** Installation of 10 numbers of water purifier in 3 schools and 5 GP and 2 Public places for provide safe drinking water facilities to school children and staffs. More than 840 schoolchildren and staff are getting benefits.
8	The industry should make alternate arrangement to source water instead of deep bore wells in & around the project area.	The industry has proposed to get water from the Hirakud Reservoir to meet its requirement.	The industry is sourcing water from the Hirakud Reservoir to fulfil all the industrial requirements. In addition, the industry has developed surface water harvesting structures to the tune of 22 lakhs cum to store water in the lean season and it will harvest the rainwater during rainy season in the same reservoirs.
9	The industry should give financial support to grow small scale industries in the localities.	The industry has assured to give support to grow the livelihood of the villagers as per their CSR policy.	The industry is actively supporting farmers to enhance the livelihoods of villagers as part of its socio-economic development plan. Numerous training programs have been conducted to promote self-employment, including capacity-building sessions for SHG (Self-Help Group) women, leadership development training, mushroom cultivation training, and exposure visits across villages such as Lapanga, Bomaloi, Derba, Khadiapali, Tileimal, Dharopani, Pondloi, Ludhapali, Bhoipali, Katarbaga, Jangala, Laida, and Ghichamura. The industry is also providing support to 400 SHGs, including 30 involved in Income Generating Activities (IGAs) like spice production, oil processing, paper cup making, vegetable farming, phenol and hand wash production, duck rearing, seven poultry units, tailoring safety jackets, and producing turmeric powder, Badi papad, and paper plates. These initiatives cover SHGs across the same villages, comprising a total of 4263 women. Additionally, seven farmers' groups have been adopted by the industry. Farmers have been engaged in various livelihood activities such as black rice, sweet corn, vegetable crop production, and other cash crops, allowing them to diversify and strengthen their incomes through multiple sources.
10	The industry should pay financial support for each local traditional festival to villagers. Cremation	The industry has assured to give financial support for each local traditional festival as per CSR policy	The company provides financial support for local traditional festivals such as Nuakhai, Sheetal Sasthi, Astaprahari Namayagya, and sports events like

	ground should be provided in each village. Alternate Football ground to be provided to Bomaloi villagers as the company is occupying the existing football ground.	and the industry has committed to develop football ground near Bomaloi village if suitable land is provided by the District Administration.	football, badminton, and cricket tournaments, in collaboration with the local community. Additionally, women's sports and school sports programs are held annually in various villages to promote rural sports. The company also maintains nearby football grounds each year. A total of Rs. 1.7475 crores have been spent on local traditional festivals, while Rs. 50.37 lakhs have been allocated for rural sports and related activities. Furthermore, Rs. 25 lakhs have been spent on the development of the football ground in Bomaloi village.
11	The industry should provide community toilets at the surrounding affected villages. Special care to be taken for physical handicapped persons in the affected areas	• Community toilets at the surrounding affected villages will be provided as per CSR policy. • The industry authority will take all efforts to give special benefits for the physically handicapped persons in the affected areas.	A total of 25 toilets has been constructed in the villages of Bomaloi, Pitapali, Derba, Lapanga, Dharropani, Rohidashpada, Gumkarma, Ghichamura, Pondaloi, and others. An amount of Rs. 8.17 lakhs have been spent on the construction of these toilets. Fresh 12 nos community toilet are under process. Five more public toilets are under construction. There are several govt initiatives being implemented in the affected areas towards physically disabled persons. After discussion with govt authorities and individuals, the industry has added few more initiatives and awareness programmes and spent to the tune of Rs 0.66 lakhs for their betterment under project Astitwa.

Annexure - 12

Expense incurred under Enterprise Social Commitment till March- 2026:

Sl. Nos.	Description	Amount Spent (In Crores)	Remarks
1	G D Birla Medical Research and Education Foundation for School at Kurki	20.25	
2	Land taken on Lease from IDCO for School at Kurki	9.10	
3	Sponsorship of Kalinga Lancers in Indian Hockey league FY15, FY16 & FY17	4.50	
4	ESC expenses in & around Aditya Aluminium including Hirakud areas in FY17	7.61	
5	Sponsorship for Asian Athletic Championship 2017	0.50	
6	ESC expenses in & around Aditya Aluminium including Hirakud areas during April 18 to March 19	4.65	
7	ESC expenses in & around Aditya Aluminium including Hirakud areas during April 2019 to March 2020	0.62	
8	ESC expenses in & around Aditya Aluminium including Hirakud areas during April 2020 to Mar 2021	5.31	
9	ESC expenses in & around Aditya Aluminium including Hirakud areas during April 2021 to Mar 2022	8.81	
10	ESC expenses in Education (EDU)	0.33	
11	ESC expenses in in & around in Environment and sustainable Livelhood	0.57	
12	ESC expenses in in & around in Healthcare in Hirakud areas also	1.06	
13	ESC expenses in in & around in social causes	0.40	
14	ESC expenses in in & around in Rural & Development projects	0.26	
15	Aditya Expenses from Oct-22 to March-23	0.76	
16	Hirakud power and Smelter Expenses from Oct-22 to Mar-23	0.87	
17	Aditya Expenses from Apr-23 to Sept-23	1.67	
18	Hirakud power and Smelter Expenses from Apr-23 to Sept-23	0.90	
19	Aditya Expenses from Oct-23 to Mar-24	1.80	
20	Hirakud power and Smelter Expenses from Oct-23 to Mar-24	1.77	
21	Aditya Expenses from Apr-24 to Sept.-24	1.02	
22	Hirakud power and Smelter Expenses from Apr-24 to Sept.-24	1.52	
23	Aditya Expenses from Oct-24 to Mar.-25	2.01	
24	Hirakud power and Smelter Expenses from Oct-24 to Mar.-25	1.90	
25	Aditya Expenses from Apr-25 to Sep.-25	1.20	
26	Hirakud power and Smelter Expenses from Apr-25 to Sept.-25	1.76	
27	Aditya Expenses from Oct-25 to Mar.-26	2.51	
28	Hirakud power and Smelter Expenses from Oct-25 to Mar.-26	2.94	
Total Expense		**86.60**	

Aditya Aluminium intends to continue with the following activities under Enterprise Social Commitment like: -

a) Infrastructure development in villages around the Project area.
b) Drinking Water supply facilities.
c) Green cover development in collaboration with State Govt. departments.
d) Football playground or mini stadium in Bomaloi village, as stated in the minutes of public consultation held before environmental clearance.
e) Free distribution of schoolbooks & bags to children.
f) Constructing Toilets for girls in schools/villages.
g) Scholarship to poor, talented students in the schools.
h) Subsidy for Ash supply (Rs 150/- per Tonne at present) to local Ash brick manufacturers, as per OSPCB/MOEF&CC Notifications.
i) Providing Ash brick manufacturing machines to unemployed youth in the villages and one time assistance to establish the Unit.
j) Contributing to the development of Railway infrastructures in consultation with the railway authorities (e.g., ROB).
k) Implementation of skill development programmes and providing necessary infrastructure to existing ITI, Polytechnic colleges.
l) Development of Schools in the State of Odisha.

The remaining 5% amount for Phase-1 capacity (i.e., Smelter of 0.38 MTPA and CPP of 900 MW) is proposed to be spent over a period of 39 years from the year 2017.

Annexure-13

Ambient Noise Monitoring Report (Oct-25 to Mar-26)									
Sr. No.	Month	Near Raw Water Reservoir		CPP Ash silo		Near Railway Siding		Near Inside Township	
		Day	Night	Day	Night	Day	Night	Day	Night
1	Oct-25	55.6	51.9	55.8	52.7	57.2	53.5	52.1	42.5
2	Nov-25	56.1	54.0	56.4	53.6	57.1	54.1	52.0	42.7
3	Dec-25	56.2	53.3	56.6	53.2	57.3	52.5	51.3	43.2
4	Jan-26	56.7	54.7	56.4	53.1	56.8	52.7	52.0	42.2
5	Feb-26	54.6	53.1	55.1	53.7	55.0	53.4	53.0	42.4
6	Mar-26	56.7	54.0	55.9	54.6	56.4	55.1	53.6	42.0
Average in dB (A)		**56.0**	**53.5**	**56.0**	**53.5**	**56.6**	**53.6**	**52.3**	**42.5**

Annexure-14

CSR ACTIVITIES WITH EXPENSES OF ADITYA ALUMINIUM LAPANGA
(October 2025 to March 2026)

Project Activities	**Population Reached**	**Hindalco Prog Spending**
	(Nos)	Rs. (in Lacs)
Education		
Preschool education		
Strengthening Anganwadi Centre-Govt. supported	758	19.71
Total	**758**	**19.70**
School Education Program		
Education Material (Study materials, Uniform, Books etc.)	450	0.98
Specialised Coaching	80	15.6
Total	**553**	**11.25**
Education support programs		
Adult and Non formal education	300	0.9
Celebration of National days / International days	16850	3.95
Career counselling and orientation	877	0.41
Education - Others (Sports & Games, Vehicle)	2875	39.95
Total	**18027**	**43.03**
School Infrastructure		
Buildings and Civil structures (new)	152	8.89
School sanitation/drinking water	1995	8.43
School facilities and fixtures (furniture/blackboards/computers)	150	2.21
Total	**2297**	**19.40**
Vocational and Technical Education		
Specialised Coaching	80	4.37
Total	**80**	**4.37**
Sub Total-Education	**21715**	**97.78**
Health		
Preventive Health Care		
Ambulance Mobile Dispensary Program	9565	3.02
Health & Hygiene awareness programmes/ COVID	470	0.83
Total	**10035**	**3.85**
Curative Health Care program		
Specialised Health Camps	550	2.46
Tuberculosis	240	10.99
Company operated hospitals/dispensaries/clinic	1202	8.25
Total	**1992**	**21.71**
Reproductive and Child Health		
Nutritional programmes for mother/child	100	0.66
Total	**100**	**0.66**
Quality / Support Program		
Support for differently abled	13	0.11

Blood donation camps	150	0.44
Total	**183**	**0.55**
SubTotal-Health	**14303**	**26.59**
Sustainable Livelihood		
Agriculture and Farm Based	853	6.9
Non-farm & Skills based income generation program	1322	24.18
Solar energy support and	50	13.11
Sub Total-Sustainable Livelihood	**2225**	**44.20**
Infrastructure		
Other Community Assets, Community Park/Garden	12000	69.37
Total	**12000**	**69.37**
Sub Total-Infrastructure	**12000**	**69.37**
Promotion of heritage/culture/Sports		
Promotion of Heritage/Art and Culture/Sports	150	3.87
Training to promote rural sports, nationally recognised sports, Olympic Sports	750	7.66
Community awareness program	80	0.82
Total	**980**	**12.35**
Sub Total- Social development Projects	**980**	**12.35**
Grand Total	**51223**	**250.32**

Project Shishu Vatika – Renovation of Anganwadi Center in Bomaloi Gram Panchayat

Project Shishu Vatika – Renovation of Anganwadi Center in Bomaloi Gram Panchayat

Block Level Sishu Mahotsav (Surabhi Program) – Celebrating Young Talent and Aspirations

Children's Day Celebrated with Joy Across Six Government Schools

Organized Social Outreach program to ABP School students

Pratibha Samman Program

Observation of World Health Day

POCSO Awareness Session

Project Mini Science Centre (STEM Learning)

VISIONTEK
Visiontek Consultancy Services Pvt. Ltd.
(Committed For Better Environment)

Ref: VCSPL/24-25/R-15889 **Date: 02.12.2025**

METEOROLOGICAL MONITORING REPORT NOVEMBER-2025

1. **Name of Industry** : **M/s Hindalco Industries Limited**
2. **Data Collected By** : **Unit-Aditya Aluminium, Lapanga, Sambalpur**
   Automatic Weather Monitoring Station

Date	Temperature(^{0}C)		Relative Humidity (%)		Wind Speed Km/h		Wind	Rain fall
	Max	Min	Max	Min	Max	Min	Direction	(mm)
01.11.2025	33.0	25.0	94.0	70.0	1.9	0.3	SE	0
02.11.2025	33.0	24.0	93.0	42.0	1.7	0.5	N	0
03.11.2025	33.0	24.0	96.0	53.0	2.2	0.6	NW	0
04.11.2025	33.0	21.0	95.0	54.0	1.4	0.4	ESE	0
05.11.2025	32.0	17.0	93.0	62.0	1.7	0.5	SE	0
06.11.2025	33.0	19.0	95.0	60.0	1.7	0.5	SSE	0
07.11.2025	32.0	20.0	96.0	63.0	1.9	0.5	S	0
08.11.2025	32.0	19.0	95.0	62.0	2.2	0.6	SSE	0
09.11.2025	31.0	17.0	95.0	54.0	2.2	0.6	SSE	0
10.11.2025	31.0	15.0	91.0	54.0	1.4	0.4	E	0
11.11.2025	30.0	16.0	78.0	54.0	2.2	0.6	SSE	0
12.11.2025	30.0	16.0	100.0	50.0	2.5	0.7	SE	0
13.11.2025	30.0	14.0	88.0	50.0	2.5	0.7	SE	0
14.11.2025	30.0	15.0	91.0	39.0	2.8	0.8	SE	0
15.11.2025	30.0	15.0	87.0	42.0	2.5	0.7	ESE	0
16.11.2025	30.0	13.0	92.0	38.0	2.2	0.6	E	0
17.11.2025	30.0	13.0	92.0	59.0	1.9	0.5	E	0
18.11.2025	30.0	14.0	88.0	41.0	2.5	0.7	ESE	0
19.11.2025	32.0	15.0	90.0	47.0	3.0	0.8	ESE	0
20.11.2025	35.0	20.0	100.0	39.0	2.5	0.7	ESE	0
21.11.2025	33.0	19.0	90.0	41.0	1.9	0.5	ENE	0
22.11.2025	32.0	19.0	92.0	43.0	1.7	0.5	NNE	0
23.11.2025	31.0	21.0	90.0	42.0	1.7	0.5	SE	0
24.11.2025	30.0	17.0	90.0	45.0	1.9	0.5	E	0
25.11.2025	29.0	17.0	90.0	44.0	2.8	0.8	SE	0
26.11.2025	29.0	16.0	94.0	37.0	3.3	0.9	SE	0
27.11.2025	28.0	14.0	94.0	37.0	3.6	1.0	SSE	0
28.11.2025	30.0	14.0	92.0	35.0	4.7	1.3	SE	0
29.11.2025	31.0	17.0	81.0	64.0	4.7	1.3	SSE	0
30.11.2025	29.0	18.0	87.0	56.0	4.2	1.2	S	0
AVERAGE	31.1	17.5	91.6	49.2	2.4	0.7	--	0.0

Reviewed by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Approved by

Ref: Envlab/25-26/R-21610 **Date: 01.03.2026**

METEOROLOGICAL MONITORING REPORT FEBRUARY-2026

1. **Name of Industry** : **M/s Hindalco Industries Limited**
2. **Data Collected By** : **Unit-Aditya Aluminium, Lapanga, Sambalpur**
   Automatic Weather Monitoring Station

Date	Temperature(^{0}C)		Relative Humidity (%)		Wind Speed Km/h		Wind	Rain falls
	Max	Min	Max	Min	Max	Min	Direction	(mm)
01-02-26	30.0	19.0	82.0	48.0	4.8	1.6	SW	0
02-02-26	31.0	16.0	87.0	45.0	5.0	1.8	W	0
03-02-26	31.0	16.0	85.0	43.0	5.4	2.1	NW	0
04-02-26	30.0	15.0	83.0	41.0	5.9	2.5	NW	0
05-02-26	32.0	15.0	86.0	46.0	5.5	2.2	W	0
06-02-26	32.0	17.0	88.0	47.0	4.7	1.5	SW	0
07-02-26	32.0	18.0	91.0	50.0	4.3	1.3	S	0
08-02-26	31.0	16.0	92.0	52.0	4.1	1.2	SSE	0
09-02-26	31.0	14.0	89.0	48.0	4.6	1.6	E	0
10-02-26	32.0	15.0	84.0	44.0	5.2	1.9	NE	0
11-02-26	33.0	16.0	82.0	40.0	6.0	2.5	N	0
12-02-26	34.0	17.0	78.0	36.0	6.4	2.7	NW	0
13-02-26	33.0	17.0	76.0	34.0	6.9	3.1	NW	0
14-02-26	33.0	16.0	73.0	32.0	7.3	3.6	N	0
15-02-26	34.0	17.0	77.0	35.0	6.5	2.8	NE	0
16-02-26	33.0	22.0	81.0	38.0	5.9	2.3	E	0
17-02-26	33.0	18.0	88.0	44.0	5.2	2.0	SE	0
18-02-26	34.0	16.0	87.0	46.0	5.0	2.0	S	0
19-02-26	34.0	16.0	86.0	44.0	5.4	2.2	SW	0
20-02-26	35.0	16.0	84.0	42.0	5.8	2.4	W	0
21-02-26	35.0	18.0	88.0	48.0	4.9	1.8	SE	0
22-02-26	36.0	18.0	85.0	43.0	5.3	2.1	SSE	0
23-02-26	36.0	21.0	82.0	41.0	5.7	2.3	SSE	0
24-02-26	33.0	19.0	78.0	38.0	6.2	2.6	ESE	0
25-02-26	33.0	19.0	83.0	42.0	5.5	2.2	NE	0
26-02-26	34.0	21.0	80.0	39.0	6.4	2.7	N	0
27-02-26	34.0	20.0	87.0	45.0	5.6	2.3	NNW	0
28-02-26	36.0	18.0	89.0	47.0	5.1	2.0	S	0
AVERAGE	33.04	17.36	83.9	42.79	5.5	2.2	--	0.0

Reviewed by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Approved by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

AAQ Monitoring Report (Oct'25 to Mar'26)							
AAQM-1 – Near Raw Water Reservoir							
Parameter	**UOM**	**Month**					
		Oct-25	**Nov-25**	**Dec-25**	**Jan-26**	**Feb-26**	**Mar-26**
PM_{10}	**($\mu g/m^3$)**	40.2	65.4	76.5	82.5	76.5	67.2
$PM_{2.5}$	**($\mu g/m^3$)**	19.6	38.6	42.5	49.2	33.4	28.6
SO_2	**($\mu g/m^3$)**	15.2	18.6	19.4	16.5	15.2	16.4
NO_x	**($\mu g/m^3$)**	9.6	10.2	12.4	12.4	10.4	10.5
CO	**(mg/m^3)**	0.36	0.42	0.42	0.2	0.23	0.3
O_3	**($\mu g/m^3$)**	5.6	5.5	6.0	5.0	6.0	6.6
NH_3	**($\mu g/m^3$)**	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
C_6H_6	**($\mu g/m^3$)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BaP	**(ng/m^3)**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ni	**(ng/m^3)**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pb	**($\mu g/m^3$)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
As	**(ng/m^3)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
F	**($\mu g/m^3$)**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

AAQ Monitoring Report (Oct'25 to Mar'26)							
AAQM-2 – CPP Ash Silo							
Parameter	**UOM**	**Month**					
		Oct-25	**Nov-25**	**Dec-25**	**Jan-26**	**Feb-26**	**Mar-26**
PM_{10}	**($\mu g/m^3$)**	38.3	52.2	72.5	79.6	56.3	52.5
$PM_{2.5}$	**($\mu g/m^3$)**	18.6	29.6	39.4	48.4	28.4	25.2
SO_2	**($\mu g/m^3$)**	13.2	16.4	14.6	15.2	13.6	10.6
NO_x	**($\mu g/m^3$)**	8.6	9.4	12.2	11.4	9.6	6.6
CO	**(mg/m^3)**	0.37	0.41	0.4	0.42	0.4	0.36
O_3	**($\mu g/m^3$)**	6.1	5.1	6.5	4.0	5.6	5.8
NH_3	**($\mu g/m^3$)**	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
C_6H_6	**($\mu g/m^3$)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BaP	**(ng/m^3)**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ni	**(ng/m^3)**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pb	**($\mu g/m^3$)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
As	**(ng/m^3)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
F	**($\mu g/m^3$)**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

AAQ Monitoring Report (Oct'25 to Mar'26)							
AAQM-3 – Railway Siding							
Parameter	**UOM**	**Month**					
		Oct-25	**Nov-25**	**Dec-25**	**Jan-26**	**Feb-26**	**Mar-26**
PM_{10}	**($\mu g/m^3$)**	36.6	53.4	69.4	74.5	64.5	60.6
$PM_{2.5}$	**($\mu g/m^3$)**	16.5	26.6	41.1	46.2	30.5	28.5
SO_2	**($\mu g/m^3$)**	15.5	17.2	17.4	16.2	16.5	15.5
NO_x	**($\mu g/m^3$)**	13.0	15.1	8.5	9.1	8.2	9.6
CO	**(mg/m^3)**	0.19	0.22	0.32	0.38	0.36	0.37
O_3	**($\mu g/m^3$)**	4.6	4.8	7.0	6.6	6.2	6.1
NH_3	**($\mu g/m^3$)**	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
C_6H_6	**($\mu g/m^3$)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BaP	**(ng/m^3)**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ni	**(ng/m^3)**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pb	**($\mu g/m^3$)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
As	**(ng/m^3)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
F	**($\mu g/m^3$)**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

AAQ Monitoring Report (Oct'25 to Mar'26)							
AAQM-4 – Inside Township							
Parameter	**UOM**	**Month**					
		Oct-25	**Nov-25**	**Dec-25**	**Jan-26**	**Feb-26**	**Mar-26**
PM_{10}	**($\mu g/m^3$)**	46.6	61.6	76.8	88.4	86.6	66.5
$PM_{2.5}$	**($\mu g/m^3$)**	25.4	36.2	43.5	50	34.5	27.4
SO_2	**($\mu g/m^3$)**	14.4	21.1	18.6	14.6	12.2	11.4
NO_x	**($\mu g/m^3$)**	8.6	13.4	11.4	8.6	8.4	7.5
CO	**(mg/m^3)**	0.36	0.39	0.42	0.5	0.44	0.42
O_3	**($\mu g/m^3$)**	5.2	6.2	5.6	6.2	5.2	7.0
NH_3	**($\mu g/m^3$)**	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
C_6H_6	**($\mu g/m^3$)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BaP	**(ng/m^3)**	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ni	**(ng/m^3)**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Pb	**($\mu g/m^3$)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
As	**(ng/m^3)**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
F	**($\mu g/m^3$)**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Ref: Envlab/25-26/TR-19163 **Date: 05.01.2026**

AMBIENT AIR QUALITY MONITORING REPORT (OCT-25 TO DEC-25)

Name of Industry	:	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
Sampling Location	:	**Monitoring Station No.- AAQMS-1: Gumkarma**
Monitoring Instruments	:	RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Monitor, VOC Sampler
Sample collected by	:	VCSPL representative

Date	PARAMETERS												
	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)	O_3 ($\mu g/m^3$)	CO (mg/m^3)	NH_3 ($\mu g/m^3$)	C_6H_6 ($\mu g/m^3$)	BaP (ng/m^3)	Ni (ng/m^3)	Pb ($\mu g/m^3$)	As (ng/m^3)	F ($\mu g/m^3$)
03.10.2025	52.6	27.3	13.1	17.1	< 4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
07.10.2025	53.9	28.1	12.6	16.4	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.10.2025	55.4	29.5	13.4	15.2	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
14.10.2025	54.2	30.0	14.2	16.6	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.10.2025	52.2	30.6	15.1	17.3	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
21.10.2025	54.1	31.4	13.7	16.8	<4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.10.2025	53.6	29.0	14.2	16.3	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
28.10.2025	55.8	31.2	13.6	15.3	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.10.2025	55.3	32.3	15.1	17.1	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
03.11.2025	56.4	33.6	14.7	16.3	<4.0	0.25	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
06.11.2025	58.1	36.8	15.5	17.4	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.11.2025	56.6	34.2	14.8	17.1	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
13.11.2025	54.5	30.7	15.2	18.1	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.11.2025	57.4	33.5	16.3	17.6	<4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
20.11.2025	56.7	30.5	14.6	16.9	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.11.2025	56.9	31.2	15.1	18.0	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
27.11.2025	57.3	32.7	14.8	17.6	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
05.12.2025	58.5	34.4	15.2	16.4	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
08.12.2025	60.1	35.2	14.6	17.3	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
12.12.2025	61.3	34.7	15.1	19.1	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
15.12.2025	60.1	36.1	16.6	16.8	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
19.12.2025	61.1	35.8	14.3	17.2	<4.0	0.33	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
22.12.2025	58.4	30.7	15.8	17.6	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
26.12.2025	59.6	31.5	16.2	18.7	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
29.12.2025	61.5	36.3	16.9	19.6	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.12.2025	62.2	38.5	15.8	18.7	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
NAAQ Standard	**100**	**60**	**80**	**80**	**100**	**4**	**400**	**05**	**01**	**20**	**1.0**	**06**	**--**
Average	**57.06**	**32.53**	**14.86**	**17.25**	**<4.0**	**0.28**	**<20.0**	**<4**	**<0.5**	**<2.5**	**<0.02**	**<1**	**<0.01**
Testing method	**Gravimetric**	**Gravimetric**	**Improved West and Geake method**	**Modified Jacob & Hochheiser (Na-Arsenite)**	**Chemical Method**	**NDIR Spectroscopy**	**Indo phenol blue method**	**Absorption & Desorption followed by GC analysis**	**Solvent extraction followed by Gas Chromatography analysis**	**AAS method after sampling**	**AAS method after sampling**	**AAS method after sampling**	**Zirconium SPADNS Method**

BDL Values:SO_2< 4 µg/m³, NO_X< 9 µg/m³,O_3<4 µg/m³, Ni<0.01 ng/m³, As< 0.001 ng/m³, C_6H_6<0.001 µg/m³, BaP<0.002 ng/m³, Pb<0.001 µg/m³, F<0.01µg/m³,CO-<0.1 mg/m³

Reviewed by

Approved by

Ref: Envlab /25-26/TR-19164 **Date: 05.01.2026**

AMBIENT AIR QUALITY MONITORING REPORT (OCT-25 TO DEC-25)

Name of Industry	**:**	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
Sampling Location	**:**	**Monitoring Station No.- AAQMS-2: Ghichamura**
Monitoring Instruments	**:**	RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Monitor, VOC Sampler
Sample collected by	**:**	VCSPL representative

Date	PARAMETERS												
	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)	O_3 ($\mu g/m^3$)	CO (mg/m^3)	NH_3 ($\mu g/m^3$)	C_6H_6 ($\mu g/m^3$)	BaP (ng/m^3)	Ni (ng/m^3)	Pb ($\mu g/m^3$)	As (ng/m^3)	F ($\mu g/m^3$)
03.10.2025	48.6	25.5	11.1	17.9	<4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
07.10.2025	49.2	26.0	10.4	16.5	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.10.2025	51.1	25.1	9.6	16.2	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
14.10.2025	50.1	26.2	8.6	18.4	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.10.2025	49.4	25.0	9.7	15.9	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
21.10.2025	50.0	24.2	10.3	16.6	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.10.2025	51.1	25.4	8.6	17.2	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
28.10.2025	51.3	26.3	10	16.8	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.10.2025	51.1	26.0	9.3	15.9	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
03.11.2025	51.1	27.1	7.6	18.2	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
06.11.2025	49.6	24.5	9.8	17.6	<4.0	0.34	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.11.2025	50.6	25.2	8.5	16.9	<4.0	0.4	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
13.11.2025	51.8	26.7	10.1	19.1	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.11.2025	50.6	27.1	11.2	18.2	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
20.11.2025	51.1	26.6	12.4	16.4	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.11.2025	53.2	27.0	11.8	15.9	<4.0	0.36	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
27.11.2025	50.1	25.5	13.5	14.6	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
05.12.2025	52.6	26.0	12.8	15.1	<4.0	0.38	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
08.12.2025	54.1	27.1	13.6	15.9	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
12.12.2025	52.2	26.4	14	16.7	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
15.12.2025	52.4	26.6	13.8	16.2	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
19.12.2025	54.1	27.4	12.8	15.8	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
22.12.2025	52.3	26.2	14	16.1	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
26.12.2025	54.3	27.9	13.6	15.9	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
29.12.2025	55.8	29.1	14.6	16.2	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.12.2025	52.3	25.5	13.7	15.2	<4.0	0.34	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
NAAQ Standard	**100**	**60**	**80**	**80**	**100**	**4**	**400**	**05**	**01**	**20**	**1.0**	**06**	**--**
Average	**51.54**	**26.21**	**11.31**	**16.59**	**<4.0**	**0.31**	**<20.0**	**<4**	**<0.5**	**<2.5**	**<0.02**	**<1**	**<0.01**
Testing method	**Gravimetric**	**Gravimetric**	**Improved West and Geake method**	**Modified Jacob & Hochheiser (Na-Arsenite)**	**Chemical Method**	**NDIR Spectroscopy**	**Indo phenol blue method**	**Absorption & Desorption followed by GC analysis**	**Solvent extraction followed by Gas Chromatography analysis**	**AAS method after sampling**	**AAS method after sampling**	**AAS method after sampling**	**Zirconium SPADNS Method**

BDL Values:SO_2< 4 µg/m³, NO_X< 9 µg/m³,O_3<4 µg/m³, Ni<0.01 ng/m³, As< 0.001 ng/m³, C_6H_6<0.001 µg/m³, BaP<0.002 ng/m³, Pb<0.001 µg/m³, F<0.01µg/m³,CO-<0.1 mg/m³

Reviewed by

Approved by

Ref: Envlab /25-26/TR-19165 **Date: 05.01.2026**

AMBIENT AIR QUALITY MONITORING REPORT (OCT-25 TO DEC-25)

Name of Industry	:	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
Sampling Location	:	**Monitoring Station No.- AAQMS-3: Tileimal**
Monitoring Instruments	:	RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Monitor, VOC Sampler
Sample collected by	:	VCSPL representative

Date	PARAMETERS												
	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)	O_3 ($\mu g/m^3$)	CO (mg/m^3)	NH_3 ($\mu g/m^3$)	C_6H_6 ($\mu g/m^3$)	BaP (ng/m^3)	Ni (ng/m^3)	Pb ($\mu g/m^3$)	As (ng/m^3)	F ($\mu g/m^3$)
03.10.2025	48.2	26.4	11.2	16.8	<4.0	0.25	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
07.10.2025	51.1	27.3	10.6	15.2	<4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.10.2025	49.6	27.0	11.1	17.6	<4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
14.10.2025	48.5	25.5	9.6	16.3	<4.0	0.21	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.10.2025	49.5	26.2	10.4	18.6	<4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
21.10.2025	46.6	24.3	12.0	19.2	<4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.10.2025	47.5	25.7	11.2	18.4	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
28.10.2025	48.8	26.0	10.6	17.1	<4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.10.2025	50.2	26.6	10.1	15.9	<4.0	0.21	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
03.11.2025	49.7	25.2	11.2	16.3	<4.0	0.25	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
06.11.2025	45.2	24.2	10.4	16.8	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.11.2025	46.6	23.6	9.6	16.2	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
13.11.2025	48.2	25.0	10.2	17.1	<4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.11.2025	49.5	26.6	11.1	15.6	<4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
20.11.2025	50.1	26.1	10.7	16.9	<4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.11.2025	48.4	27.2	11.4	16.2	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
27.11.2025	50.6	25.3	12.2	18.4	<4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
05.12.2025	49.3	26.3	13.6	16.1	<4.0	0.21	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
08.12.2025	51.1	27.0	14.3	15.9	<4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
12.12.2025	52.5	26.6	14.6	17.2	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
15.12.2025	53.6	28.1	13.9	15.6	<4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
19.12.2025	50.8	26.0	15.1	15.7	<4.0	0.25	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
22.12.2025	53.1	27.8	14.7	16.3	<4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
26.12.2025	51.3	25.9	14	15.9	<4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
29.12.2025	52.7	28.4	13.6	15.7	<4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.12.2025	53.0	29.0	15.3	16.1	<4.0	0.25	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
NAAQ Standard	**100**	**60**	**80**	**80**	**100**	**4**	**400**	**05**	**01**	**20**	**1.0**	**06**	**--**
Average	**49.83**	**26.28**	**12.02**	**16.65**	**<4.0**	**0.23**	**<20.0**	**<4**	**<0.5**	**<2.5**	**<0.02**	**<1**	**<0.01**
Testing method	**Gravimetric**	**Gravimetric**	**Improved West and Geake method**	**Modified Jacob & Hochheiser (Na-Arsenite)**	**Chemical Method**	**NDIR Spectroscopy**	**Indophenol blue method**	**Absorption & Desorption followed by GC analysis**	**Solvent extraction followed by Gas Chromatography analysis**	**AAS method after sampling**	**AAS method after sampling**	**AAS method after sampling**	**Zirconium SPADNS Method**

BDL Values:SO_2< 4 µg/m³, NO_X< 9 µg/m³,O_3<4 µg/m³, Ni<0.01 ng/m³, As< 0.001 ng/m³, C_6H_6<0.001 µg/m³, BaP<0.002 ng/m³, Pb<0.001 µg/m³, F<0.01µg/m³,CO-<0.1 mg/m³

Reviewed by

Approved by

Ref: Envlab /25-26/TR-19166 **Date: 05.01.2026**

AMBIENT AIR QUALITY MONITORING REPORT (OCT-25 TO DEC-25)

Name of Industry	:	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
Sampling Location	:	**Monitoring Station No.- AAQMS-4: Bomaloi**
Monitoring Instruments	:	RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Monitor, VOC Sampler
Sample collected by	:	VCSPL representative

Date	PARAMETERS												
	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)	O_3 ($\mu g/m^3$)	CO (mg/m^3)	NH_3 ($\mu g/m^3$)	C_6H_6 ($\mu g/m^3$)	BaP (ng/m^3)	Ni (ng/m^3)	Pb ($\mu g/m^3$)	As (ng/m^3)	F ($\mu g/m^3$)
03.10.2025	51.1	27.6	14.2	18.6	5.6	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
07.10.2025	53.6	28.2	13.9	17.2	5.2	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.10.2025	52.5	27.2	15.5	17.6	6.1	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
14.10.2025	52.0	26	14.6	16.8	5.3	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.10.2025	52.8	26.6	14.9	16.3	5.9	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
21.10.2025	50.5	25.4	15.1	18.1	6.6	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.10.2025	50.6	25.8	13.8	17.6	6.1	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
28.10.2025	49.5	24.2	14.7	18.1	5.9	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.10.2025	50.1	26.1	14.6	16.5	5.7	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
03.11.2025	51.2	27.2	15.3	19.1	6.3	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
06.11.2025	51.1	26.4	15.2	17.2	6.2	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.11.2025	51.3	25.3	16.1	16.8	5.6	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
13.11.2025	52.4	28.1	14.9	18.5	5.1	0.25	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.11.2025	50.6	26.6	15.3	17.6	5.9	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
20.11.2025	53.4	27.1	15.7	19.1	<5.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.11.2025	52.0	26.6	13.2	20.1	<5.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
27.11.2025	52.4	28.3	15.6	18.4	5.6	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
05.12.2025	51.6	25.4	13.2	19.4	5.2	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
08.12.2025	53.4	29	14.7	16.9	5.8	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
12.12.2025	51.6	26.6	12.9	17.2	6.6	0.25	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
15.12.2025	52.2	25.7	13.8	15.7	6.1	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
19.12.2025	53.4	27.5	14.2	17.6	6.3	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
22.12.2025	52.8	26.4	14.5	19.5	5.9	0.57	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
26.12.2025	54.0	29.1	13.9	15.2	5.6	0.53	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
29.12.2025	53.1	28.5	12.9	16.3	6.2	0.59	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.12.2025	53.8	28.2	15.3	19.5	6.8	0.52	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
NAAQ Standard	100	60	80	80	100	4.0	400	05	01	20	1.0	06	--
Average	52.03	26.88	14.53	17.72	5.90	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
Testing method	Gravimetric	Gravimetric	Improved West and Gaeke method	Modified Jacob & Hochheiser (Na-Arsenite)	Chemical Method	NDIR Spectroscopy	Indophenol blue method	Absorption & Desorption followed by GC analysis	Solvent extraction followed by Gas Chromatography analysis	AAS method after sampling	AAS method after sampling	AAS method after sampling	Zirconium SPADNS Method

BDL Values:SO2< 4 µg/m3, NOX< 9 µg/m3,O3<4 µg/m3, Ni<0.01 ng/m3, As< 0.001 ng/m3, C6H6<0.001 µg/m3, BaP<0.002 ng/m3, Pb<0.001 µg/m3, F<0.01µg/m3,CO-<0.1 mg/m³

Reviewed by

Approved by

Ref: Envlab /25-26/TR-19167 **Date: 05.01.2026**

AMBIENT AIR QUALITY MONITORING REPORT (OCT-25 TO DEC-25)

Name of Industry	:	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
Sampling Location	:	**Monitoring Station No.- AAQMS-5: Kapulas**
Monitoring Instruments	:	RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Monitor, VOC Sampler
Sample collected by	:	VCSPL representative

Date	PARAMETERS												
	PM_{10} ($\mu g/m^3$)	$PM_{2.5}$ ($\mu g/m^3$)	SO_2 ($\mu g/m^3$)	NO_x ($\mu g/m^3$)	O_3 ($\mu g/m^3$)	CO (mg/m^3)	NH_3 ($\mu g/m^3$)	C_6H_6 ($\mu g/m^3$)	BaP (ng/m^3)	Ni (ng/m^3)	Pb ($\mu g/m^3$)	As (ng/m^3)	F ($\mu g/m^3$)
03.10.2025	50.4	27.2	12.5	16.4	< 4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
07.10.2025	53.4	28.3	13.1	15.4	< 4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.10.2025	52.6	28.0	12.2	18.7	< 4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
14.10.2025	48.5	26.5	13.6	17.3	< 4.0	0.20	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.10.2025	49.3	27.8	14.4	14.6	< 4.0	0.25	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
21.10.2025	51.8	30.2	13.7	18.5	< 4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.10.2025	51.6	26.4	14.4	15.6	< 4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
28.10.2025	48.7	27.4	13.5	17.7	< 4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.10.2025	51.6	30.1	14.4	19.3	< 4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
03.11.2025	54.4	31.6	15.2	16.2	< 4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
06.11.2025	52.3	30.3	16.4	19.5	< 4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.11.2025	49.6	28.4	13.7	18.1	< 4.0	0.21	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
13.11.2025	51.1	29.0	12.8	16.1	< 4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.11.2025	54.3	31.4	14.4	17.5	< 4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
20.11.2025	52.8	30.5	13.2	20.3	< 4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.11.2025	48.9	29.7	14.1	16.9	< 4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
27.11.2025	49.5	31.6	14.6	17.2	< 4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
05.12.2025	53.6	32.3	13.9	15.4	< 4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
08.12.2025	52.4	30.9	14.6	16.6	< 4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
12.12.2025	54.4	32.3	15.7	20.1	< 4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
15.12.2025	53.8	33.1	15.7	17.8	< 4.0	0.35	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
19.12.2025	51.7	30.4	16.9	15.2	< 4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
22.12.2025	54.3	32.9	15.5	18.3	< 4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
26.12.2025	53.6	32.7	16.3	19.1	< 4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
29.12.2025	55.7	33.1	15.9	16.9	< 4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.12.2025	54.3	32.5	16.1	16.7	< 4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
NAAQ Standard	**100**	**60**	**80**	**80**	**100**	**4**	**400**	**05**	**01**	**20**	**1.0**	**06**	**--**
Average	**52.1**	**30.17**	**14.49**	**17.36**	**<4.0**	**0.26**	**<20.0**	**<4**	**<0.5**	**<2.5**	**<0.02**	**<1**	**<0.01**
Testing method	**Gravimetric**	**Gravimetric**	**Improved West and Gaeke method**	**Modified Jacob & Hochheiser (Na-Arsenite)**	**Chemical Method**	**NDIR Spectroscopy**	**Indophenol blue method**	**Absorption & Desorption followed by GC analysis**	**Solvent extraction followed by Gas Chromatography analysis**	**AAS method after sampling**	**AAS method after sampling**	**AAS method after sampling**	**Zirconium SPADNS Method**

BDL Values: SO_2< 4 µg/m³, NO_x< 9 µg/m³,O_3<4 µg/m³, Ni<0.01 ng/m³, As< 0.001 ng/m³, C_6H_6<0.001 µg/m³, BaP<0.002 ng/m³, Pb<0.001 µg/m³, F<0.01µg/m³,CO-<0.1 mg/m³

Reviewed by

Approved by

Ref: Envlab/25-26/TR-19168 **Date: 05.01.2026**

AMBIENT AIR QUALITY MONITORING REPORT (OCT-25 TO DEC-25)

Name of Industry	:	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
Sampling Location	:	**Monitoring Station No.- AAQMS-6: Phulchanghal**
Monitoring Instruments	:	RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Monitor, VOC Sampler
Sample collected by	:	VCSPL representative

Date	PARAMETERS												
	PM10 (µg/m3)	PM2.5 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	O3 (µg/m3)	CO (mg/m3)	NH3 (µg/m3)	C6H6 (µg/m3)	BaP (ng/m3)	Ni (ng/m3)	Pb (µg/m3)	As (ng/m3)	F (µg/m3)
03.10.2025	48.3	29.6	15.6	23.5	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
07.10.2025	47.5	28.4	17.2	20.7	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.10.2025	49.1	29.0	16.3	21.6	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
14.10.2025	47.5	27.4	16.1	22.2	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.10.2025	46.6	26.6	15.8	19.5	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
21.10.2025	49.5	27.2	15.9	18.3	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.10.2025	50.1	28.1	15.6	19.1	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
28.10.2025	50.4	28.6	18.4	20.2	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.10.2025	52.4	29.7	17.4	16.7	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
03.11.2025	51.6	30.0	16.9	20.2	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
06.11.2025	52.2	31.6	15.2	21.6	<4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.11.2025	49.6	26.4	14.9	16.8	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
13.11.2025	48.7	27.8	15.6	18.4	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.11.2025	53.6	29.2	16.3	20.2	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
20.11.2025	51.4	30.7	16.8	19.6	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.11.2025	52.7	31.1	17.4	18.5	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
27.11.2025	53.3	32.4	17.1	21.6	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
05.12.2025	54.5	32.8	15.9	16.2	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
08.12.2025	56.6	33.4	16.2	17.4	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
12.12.2025	55.8	32.7	15.8	17.9	<4.0	0.33	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
15.12.2025	56.7	34.1	17.4	16.2	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
19.12.2025	57.9	35.6	16.1	18.5	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
22.12.2025	58.2	36.1	15.9	18.1	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
26.12.2025	55.7	30.7	16.3	17.4	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
29.12.2025	57.3	32.4	16.9	16.1	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.12.2025	59.1	36.5	17.2	18.5	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
NAAQ Standard	**100**	**60**	**80**	**80**	**100**	**4**	**400**	**05**	**01**	**20**	**1.0**	**06**	**--**
Average	**52.55**	**30.69**	**16.39**	**19.04**	**<4.0**	**0.29**	**<20.0**	**<4**	**<0.5**	**<2.5**	**<0.02**	**<1**	**<0.01**
Testing method	**Gravimetric**	**Gravimetric**	**Improved West and Gaeke method**	**Modified Jacob & Hochheiser (Na-Arsenite)**	**Chemical Method**	**NDIR Spectroscopy**	**Indophenol blue method**	**Absorption & Desorption followed by GC analysis**	**Solvent extraction followed by Gas Chromatography analysis**	**AAS method after sampling**	**AAS method after sampling**	**AAS method after sampling**	**Zirconium SPADNS Method**

BDL Values: SO_2< 4 µg/m³, NO_X< 9 µg/m³, O_3<4 µg/m³, Ni<0.01 ng/m³, As< 0.001 ng/m³, C_6H_6<0.001 µg/m³, BaP<0.002 ng/m³, Pb<0.001 µg/m³, F<0.01µg/m³,CO-<0.1 mg/m³

Reviewed by

Approved by

Ref: Envlab/25-26/TR-19169 **Date: 05.01.2026**

AMBIENT AIR QUALITY MONITORING REPORT (OCT-25 TO DEC-25)

Name of Industry	:	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
Sampling Location	:	**Monitoring Station No.- AAQMS-7: Khadiapali**
Monitoring Instruments	:	RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Monitor, VOC Sampler
Sample collected by	:	VCSPL representative

Date	PARAMETERS												
	PM10 (µg/m³)	PM2.5 (µg/m³)	SO2 (µg/m³)	NOx (µg/m³)	O3 (µg/m³)	CO (mg/m³)	NH3 (µg/m³)	C6H6 (µg/m³)	BaP (ng/m³)	Ni (ng/m³)	Pb (µg/m³)	As (ng/m³)	F (µg/m³)
03.10.2025	47.3	26.4	13.5	15.7	<4.0	0.20	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
07.10.2025	48.1	27.0	14.1	16.3	<4.0	0.21	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.10.2025	46.6	25.4	13.9	15.8	<4.0	0.19	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
14.10.2025	47.5	25.6	13.5	15.2	<4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.10.2025	49.1	28.1	14.6	16.3	<4.0	0.18	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
21.10.2025	50.2	28.4	15.2	15.8	<4.0	0.19	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.10.2025	51.1	27.2	14.6	17.2	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
28.10.2025	49.4	28.1	14.2	16.3	<4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.10.2025	51.1	30.1	13.6	16.2	<4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
03.11.2025	50.0	29.6	13.8	17.3	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
06.11.2025	48.2	26.1	14.1	18.1	<4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.11.2025	47.5	26.7	13.6	15.2	<4.0	0.21	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
13.11.2025	50.0	30.0	13.8	19.7	<4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.11.2025	49.7	29.8	15.2	16.2	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
20.11.2025	48.2	27.6	14.6	17.4	<4.0	0.19	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.11.2025	51.4	30.4	14.1	20.2	<4.0	0.22	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
27.11.2025	54.3	31.1	14.4	16.2	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
05.12.2025	55.1	32.3	13.9	18.8	<4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
08.12.2025	54.3	32.7	15.6	18.1	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
12.12.2025	56.6	33.0	13.8	19.4	<4.0	0.21	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
15.12.2025	57.2	33.2	14.4	17.6	<4.0	0.25	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
19.12.2025	56.4	34.3	14.6	18.8	<4.0	0.26	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
22.12.2025	58.1	35.0	15.2	19.4	<4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
26.12.2025	59.2	35.2	14.9	20.5	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
29.12.2025	58.4	34.9	14.7	19.8	<4.0	0.23	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.12.2025	56.2	36.1	15.3	21.1	<4.0	0.24	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
NAAQ Standard	**100**	**60**	**80**	**80**	**100**	**4.0**	**400**	**05**	**01**	**20**	**1.0**	**06**	**--**
Average	**51.96**	**30.16**	**14.35**	**17.63**	**<4.0**	**0.22**	**<20.0**	**<4**	**<0.5**	**<2.5**	**<0.02**	**<1**	**<0.01**
Testing method	**Gravimetric**	**Gravimetric**	**Improved West and Geake method**	**Modified Jacob & Hochheiser (Na-Arsenite)**	**Chemical Method**	**NDIR Spectroscopy**	**Indo phenol blue method**	**Absorption & Desorption followed by GC analysis**	**Solvent extraction followed by Gas Chromatography analysis**	**AAS method after sampling**	**AAS method after sampling**	**AAS method after sampling**	**Zirconium SPADNS Method**

BDL Values: SO_2< 4 µg/m³, NO_X< 9 µg/m³, O_3<4 µg/m³, Ni<0.01 ng/m³, As< 0.001 ng/m³, C_6H_6<0.001 µg/m³, BaP<0.002 ng/m³, Pb<0.001 µg/m³, F<0.01µg/m³,CO-<0.1 mg/m³

Reviewed by

Approved by

Ref: Envlab/25-26/TR-19170 **Date: 05.01.2026**

AMBIENT AIR QUALITY MONITORING REPORT (OCT-25 TO DEC-25)

Name of Industry	:	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
Sampling Location	:	**Monitoring Station No.- AAQMS-8: Thelkoloi**
Monitoring Instruments	:	RDS (APM 460 BL), FPS (APM 550) Envirotech, CO Monitor, VOC Sampler
Sample collected by	:	VCSPL representative

Date	PARAMETERS												
	PM10 (µg/m3)	PM2.5 (µg/m3)	SO2 (µg/m3)	NOx (µg/m3)	O3 (µg/m3)	CO (mg/m3)	NH3 (µg/m3)	C6H6 (µg/m3)	BaP (ng/m3)	Ni (ng/m3)	Pb (µg/m3)	As (ng/m3)	F (µg/m3)
03.10.2025	48.6	26.7	16.6	14.6	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
07.10.2025	50.4	28.2	18.2	15.2	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.10.2025	51.1	31.1	17.6	13.2	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
14.10.2025	49.4	29.5	16.5	13.8	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.10.2025	48.6	27.4	18.1	14.7	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
21.10.2025	46.6	26.3	17.6	13.6	<4.0	0.27	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.10.2025	51.7	27.1	18.1	15.1	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
28.10.2025	53.2	31.1	18.6	14.7	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.10.2025	51.1	30.4	19.1	15.3	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
03.11.2025	53.7	32.0	18.4	14.9	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
06.11.2025	51.2	31.1	18.8	15.1	<4.0	0.29	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
10.11.2025	50.5	32.0	19.4	14.6	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
13.11.2025	51.3	31.1	18.8	15.5	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
17.11.2025	520	32.3	15.7	15.6	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
20.11.2025	53.6	33.1	19.4	17.2	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
24.11.2025	54.5	33.8	19.1	15.5	<4.0	0.30	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
27.11.2025	52.8	32.1	18.4	15.6	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
05.12.2025	56.6	34.0	20.2	14.9	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
08.12.2025	55.3	30.3	19.5	15.2	<4.0	0.33	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
12.12.2025	57.4	32.8	21.1	16.3	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
15.12.2025	52.2	31.7	22.4	15.4	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
19.12.2025	58.6	35.0	23.6	15.9	<4.0	0.32	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
22.12.2025	56.6	34.2	21.8	14.7	<4.0	0.28	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
26.12.2025	57.4	33.7	20.4	16.1	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
29.12.2025	55.8	32.8	19.5	15.8	<4.0	0.34	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
31.12.2025	59.1	35.5	21.2	16.2	<4.0	0.31	<20.0	<4	<0.5	<2.5	<0.02	<1	<0.01
NAAQ Standard	**100**	**60**	**80**	**80**	**100**	**4**	**400**	**05**	**01**	**20**	**1.0**	**06**	**--**
Average	**53.05**	**32.35**	**19.15**	**15.18**	**<4.0**	**0.30**	**<20.0**	**<4**	**<0.5**	**<2.5**	**<0.02**	**<1**	**<0.01**
Testing method	**Gravimetric**	**Gravimetric**	**Improved West and Geake method**	**Modified Jacob & Hochheiser (Na-Arsenite)**	**Chemical Method**	**NDIR Spectroscopy**	**Indophenol blue method**	**Absorption & Desorption followed by GC analysis**	**Solvent extraction followed by Gas Chromatography analysis**	**AAS method after sampling**	**AAS method after sampling**	**AAS method after sampling**	**Zirconium SPADNS Method**

BDL Values: SO_2< 4 µg/m³, NO_X< 9 µg/m³,O_3<4 µg/m³, Ni<0.01 ng/m³, As< 0.001 ng/m³, C_6H_6<0.001 µg/m³, BaP<0.002 ng/m³, Pb<0.001 µg/m³, F<0.01µg/m³,CO-<0.1 mg/m³

Reviewed by

Approved by

Ref: Envlab/25-26/R-15812 **Date: 01.12.2025**

SURFACE WATER QUALITY ANALYSIS REPORT NOVEMBER-2025

1	**Name of Industry**	:	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
2	**Sampling location**	:	**SW-1:** Hirakud Reservoir; **SW-2:** Lapanga Pond**; SW-3:** Matwadinadi –U/S**,** **SW-4:** Bamloi Pond; **SW-5:** Bhedan River Near Katikela
3	**Date of sampling**	:	**17.11.2025**
4	**Date of analysis**	:	**18.11.2025 TO 26.11.2025**
5	**Sample collected by**	:	VCSPL Representative

Sl. No	Parameter	Testing Methods	Unit	Standards as per IS-2296:1992 Class –'C'	Analysis Results				
					SW-1	SW-2	SW-3	SW-4	SW-5
1	pH at 25^0C	APHA 4500H^+ B	--	6.0-9.0	7.40	7.46	7.61	7.56	7.44
2	Colour	APHA 2120 B, C	Hazen	300	<1.0	<1.0	<1.0	<1.0	<1.0
3	Taste	APHA 2160 C	--	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	APHA 2150 B	--	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	APHA 2130 B	NTU	--	4.2	5.7	4.0	4.6	3.6
6	Total Dissolved Solids	APHA 2540 C	mg/l	1500	123.4	130	106	132	124
7	Total Hardness (as $CaCO_3$)	APHA 2340 C	mg/l	--	70	94	106	96	102
8	Total Alkalinity	APHA 2320 B	mg/l	--	60	72	76	70	66
9	Calcium (as Ca)	APHA 3500Ca B	mg/l	--	19.22	21.62	28.03	24.02	23.22
10	Magnesium (as Mg)	APHA 3500Mg B	mg/l	--	5.36	9.76	8.78	7.32	8.29
11	Residual, free Chlorine	APHA 4500Cl, B	mg/l	--	BDL	BDL	BDL	BDL	BDL
12	Boron (as B)	APHA 4500B, B	mg/l	--	<0.01	<0.01	<0.01	<0.01	<0.01
13	Chloride (as Cl)	APHA 4500Cl^- B	mg/l	600	25.1	32.2	25.8	26.6	30.2
14	Sulphate (as SO_4)	APHA 4500 SO_4^{2-} E	mg/l	400	18.6	26.6	18.4	21.1	22.4
15	Fluoride (as F)	APHA 4500F^- C	mg/l	1.5	0.34	0.36	0.32	0.33	0.32
16	Nitrate (as NO_3)	APHA 4500 NO_3^- E	mg/l	50	2.16	1.7	1.37	1.61	1.51
17	Sodium as Na	APHA3500-Na	mg/l	--	8.8	10.4	9.1	10.2	9.6
18	Potassium as K	APHA 3500-K	mg/l	--	3	2.4	3.1	3.4	3.3
19	Phenolic Compounds (as C_6H_5OH)	APHA 5530 B,D	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
20	Cyanide (as CN)	APHA 4500 CN^- C,D	mg/l	0.05	BDL	BDL	BDL	BDL	BDL
21	Anionic Detergents (as MBAS)	APHA 5540 C	mg/l	1.0	<0.2	<0.2	<0.2	<0.2	<0.2
22	Cadmium (as Cd)	APHA 3111 B,C	mg/l	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23	Arsenic (as As)	APHA 3114 B	mg/l	0.2	<0.004	<0.004	<0.004	<0.004	<0.004
24	Copper (as Cu)	APHA 3111 B,C	mg/l	1.5	<0.02	<0.02	<0.02	<0.02	<0.02
25	Lead (as Pb)	APHA 3111 B,C	mg/l	0.1	<0.02	<0.02	<0.02	<0.02	<0.02
26	Manganese (as Mn)	APHA 3500Mn B	mg/l	--	<0.03	<0.03	<0.03	<0.03	<0.03
27	Iron (as Fe)	APHA 3500Fe, B	mg/l	0.5	0.044	0.028	0.032	0.034	0.038
28	Chromium (as Cr^{+6})	APHA 3500Cr B	mg/l	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
29	Selenium (as Se)	APHA 3114 B	mg/l	0.05	<0.001	<0.001	<0.001	<0.001	<0.001
30	Zinc (as Zn)	APHA 3111 B,C	mg/l	15	<0.01	<0.01	<0.01	<0.01	<0.01
31	Aluminium as (Al)	APHA 3500Al B	mg/l	--	<0.1	<0.1	<0.1	<0.1	<0.1
32	Mercury (as Hg)	APHA 3500 Hg	mg/l	--	<0.004	<0.004	<0.004	<0.004	<0.004
33	Mineral Oil	APHA 5220 B	mg/l	--	<0.001	<0.001	<0.001	<0.001	<0.001
34	Pesticides	APHA 6630 B,C	mg/l	--	Absent	Absent	Absent	Absent	Absent
35	E. Coli	APHA 9221-F	MPN/ 100 ml	--	Absent	Absent	Absent	Absent	Absent
36	Total Coliforms	APHA9221-B	MPN/ 100 ml	5000	238	276	290	270	286

Note: CL: Colorless, AL: Agreeable, U/O: Unobjectionable, ND: Not detected.

Reviewed by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Approved by

Ref: Envlab/25-26/R-15813 **Date: 01.12.2025**

SURFACE WATER QUALITY ANALYSIS REPORT NOVEMBER-2025

1	**Name of Industry**	:	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
2	**Sampling location**	:	**SW-6:** Bhedan River Near Khinda Village; **SW-7**: Matwadinadi-D/S; **SW-8:** Hirakud Reservoir Near Gurupali village; **SW-9:** Salepali village Pond; **SW-10:** Sanamal village Pond
3	**Date of sampling**	:	**17.11.2025**
4	**Date of analysis**	:	**18.11.2025 TO 26.11.2025**
5	**Sample collected by**	:	VCSPL Representative

No	Parameter	Testing Methods	Unit	Standards as per IS-2296:1992 Class –'C'	Analysis Results				
					SW-6	SW-7	SW-8	SW-9	SW-10
1	pH at 25^0C	APHA 4500H^+ B	--	6.0-9.0	7.42	7.51	7.49	7.32	7.4
2	Colour	APHA 2120 B, C	Hazen	300	<1.0	<1.0	<1.0	<1.0	<1.0
3	Taste	APHA 2160 C	--	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	APHA 2150 B	--	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	APHA 2130 B	NTU	--	4.6	4.0	5.9	4.2	3.8
6	Total Dissolved Solids	APHA 2540 C	mg/l	1500	131	140	197	213	210
7	Total Hardness (as $CaCO_3$)	APHA 2340 C	mg/l	--	90	76	139	166	154
8	Total Alkalinity	APHA 2320 B	mg/l	--	76.6	80	98	102	104
9	Calcium (as Ca)	APHA 3500Ca B	mg/l	--	23.22	20.02	34.6	33.9	38.2
10	Magnesium (as Mg)	APHA 3500Mg B	mg/l	--	7.8	6.34	12.78	19.77	14.24
11	Residual, free Chlorine	APHA 4500Cl, B	mg/l	--	BDL	BDL	BDL	BDL	BDL
12	Boron (as B)	APHA 4500B, B	mg/l	--	<0.01	<0.01	<0.01	<0.01	<0.01
13	Chloride (as Cl)	APHA 4500Cl^- B	mg/l	600	32.4	30.6	27.6	33.2	30.5
14	Sulphate (as SO_4)	APHA 4500 SO_4^{2-} E	mg/l	400	14.6	16.5	10.7	11.6	17.1
15	Fluoride (as F)	APHA 4500F^- C	mg/l	1.5	0.36	0.48	0.47	0.39	0.54
16	Nitrate (as NO_3)	APHA 4500 NO_3^- E	mg/l	50	2.13	1.95	1.57	1.83	2.09
17	Sodium as Na	APHA3500-Na	mg/l	--	9.6	11.6	9.7	12.8	13.2
18	Potassium as K	APHA 3500-K	mg/l	--	4.2	2.9	3.5	3.1	4.2
19	Phenolic Compounds (as C_6H_5OH)	APHA 5530 B,D	mg/l	0.005	<0.005	<0.005	<0.005	<0.005	<0.005
20	Cyanide (as CN)	APHA 4500 CN^- C,D	mg/l	0.05	BDL	BDL	BDL	BDL	BDL
21	Anionic Detergents (as MBAS)	APHA 5540 C	mg/l	1.0	<0.2	<0.2	<0.2	<0.2	<0.2
22	Cadmium (as Cd)	APHA 3111 B,C	mg/l	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23	Arsenic (as As)	APHA 3114 B	mg/l	0.2	<0.004	<0.004	<0.004	<0.004	<0.004
24	Copper (as Cu)	APHA 3111 B,C	mg/l	1.5	<0.02	<0.02	<0.02	<0.02	<0.02
25	Lead (as Pb)	APHA 3111 B,C	mg/l	0.1	<0.02	<0.02	<0.02	<0.02	<0.02
26	Manganese (as Mn)	APHA 3500Mn B	mg/l	--	<0.03	<0.03	<0.03	<0.03	<0.03
27	Iron (as Fe)	APHA 3500Fe, B	mg/l	0.5	0.049	0.053	0.039	0.044	0.041
28	Chromium (as Cr^{+6})	APHA 3500Cr B	mg/l	0.05	<0.02	<0.02	<0.02	<0.02	<0.02
29	Selenium (as Se)	APHA 3114 B	mg/l	0.05	<0.001	<0.001	<0.001	<0.001	<0.001
30	Zinc (as Zn)	APHA 3111 B,C	mg/l	15	<0.01	<0.01	<0.01	<0.01	<0.01
31	Aluminium as (Al)	APHA 3500Al B	mg/l	--	<0.1	<0.1	<0.1	<0.1	<0.1
32	Mercury (as Hg)	APHA 3500 Hg	mg/l	--	<0.004	<0.004	<0.004	<0.004	<0.004
33	Mineral Oil	APHA 5220 B	mg/l	--	<0.001	<0.001	<0.001	<0.001	<0.001
34	Pesticides	APHA 6630 B,C	mg/l	--	Absent	Absent	Absent	Absent	Absent
35	E. Coli	APHA 9221-F	MPN/ 100 ml	--	Absent	Absent	Absent	Absent	Absent
36	Total Coliforms	APHA9221-B	MPN/ 100 ml	5000	320	260	300	330	340

Note: CL: Colorless, AL: Agreeable, U/O: Unobjectionable, ND: Not detected.

Reviewed by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Approved by

Ground Water Test Report November-26

Sl. No.	Parameter	Unit	November-26							
			Analysis Result							
			GW-1	GW-2	GW-3	GW-4	GW-5	GW-6	GW-7	GW-8
1	pH Value at 25^0C	--	7.34	7.41	7.23	7.36	7.23	7.32	7.28	7.38
2	Colour	Hazen	CL	CL	CL	CL	CL	CL	CL	CL
3	Taste	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Odour	--	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
5	Turbidity	NTU	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
6	Total Dissolved Solids	mg/l	192	160	184	170	175	182	162	181
7	Total Hardness (as $CaCO_3$)	mg/l	110	108	106	102	80	102	92	94
8	Total Alkalinity	mg/l	80	86	78.0	82	74	82	84	82
9	Calcium (as Ca)	mg/l	28.03	32.0	30.43	28.0	24.02	32.03	24.02	25.6
10	Magnesium (as Mg)	mg/l	9.76	9.27	9.76	7.80	4.88	4.88	7.80	8.29
11	Residual, free Chlorine	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12	Boron (as B)	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
13	Chloride (as Cl)	mg/l	24.8	21.9	25.6	23.8	24.9	25.1	22.6	23.8
14	Sulphate (as SO_4)	mg/l	4.4	4.1	4.2	4.5	4.2	4.6	4.2	4.7
15	Fluoride (as F)	mg/l	0.23	0.24	0.23	0.25	0.24	0.31	0.33	0.29
16	Nitrate (as NO_3)	mg/l	2.3	3.2	2.8	3.1	2.2	2.4	2.1	3.3
17	Sodium as Na	mg/l	11.2	12.4	11.1	12.4	11.2	10.6	12.2	11.6
18	Potassium as K	mg/l	3.8	4.2	4.2	4.1	3.5	4.2	4.8	5.2
19	Phenolic Compounds (as C_6H_5OH)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
20	Cyanide (as CN)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
21	Anionic Detergents (as MBAS)	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
22	Cadmium (as Cd)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
23	Arsenic (as As)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
24	Copper (as Cu)	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
25	Lead (as Pb)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
26	Manganese (as Mn)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
27	Iron (as Fe)	mg/l	0.16	0.18	0.19	0.21	0.16	0.18	0.14	0.15
28	Chromium (as Cr)	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
29	Selenium (as Se)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
30	Zinc (as Zn)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
31	Aluminium as (Al)	mg/l	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
32	Mercury (as Hg)	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
33	Mineral Oil	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
34	Pesticides	mg/l	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
35	E.Coli	MPN/ 100 ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent
36	Total Coliforms	MPN/ 100 ml	Absent	Absent	Absent	Absent	Absent	Absent	Absent	Absent

Sampling location	:	**GW-1:** Lapanga Village; **GW-2:** Pandoloi Village **, GW-3:** Bamloi Village; **GW-4:** Tilaimal Village, **GW-5:** Thelkoloi Village**, GW-6:** Ghichamura Village, **GW-7:** Gumkarma Village, **GW-8:** Chalatikra Village

Ref: Envlab/25-26/R-15785 **Date: 29.11.2025**

GROUND WATER LEVEL MONITORING REPORT NOVEMBER-2025

Name of Industry	**:**	**M/s Hindalco Industries Limited (Unit-Aditya Aluminium), Sambalpur**
Sampling Location	**:**	**GW-1:** Near Ash Pond, **GW-2:** Near Proposed Pond **GW-3:** Near RR Colony, **GW-4:** Bomaloi Village
Date of Sampling	**:**	**17.11.2025**
Monitoring By	**:**	VCSPL Representative

SL No.	Date of Sampling	Name of Location	Unit	Water Level
01	17.11.2025	GW1	Mbgl	1.36
02	17.11.2025	GW2	Mbgl	6.80
03	17.11.2025	GW3	Mbgl	1.57
04	17.11.2025	GW4	Mbgl	3.67

Reviewed by

Approved by

Ref: Envlab/25-26/R-15786 **Date: 29.11.2025**

GROUND WATER QUALITY (Heavy Metals) ANALYSIS REPORT NOV-2025

Name of Industry	**:**	**M/s Hindalco Industries Limited (Unit-Aditya Aluminium), Sambalpur**
Sampling Location	**:**	**GW-1: Near Ash Pond,**
Date of Sampling	**:**	**17.11.2025**
Date of Analysis	**:**	**18.11.2025 TO 20.11.2025**
Monitoring By	**:**	**VCSPL Representative**

SL No.	Parameters	Test Method	Unit	Standard	Result
01	Mercury as Hg	APHA 3112 B	Mg/l	0.001	<0.001
02	Arsenic as As	APHA 3112 B	Mg/l	0.01	<0.005
03	Lead as Pb	APHA 3112 B	Mg/l	0.01	<0.005
04	Chromium as Cr	APHA 3112 B	Mg/l	0.05	<0.01

Reviewed by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Approved by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Ref: Envlab/25-26/R-15787 **Date: 29.11.2025**

GROUND WATER QUALITY ANALYSIS REPORT NOVEMBER-2025

Name of Industry	**M/s Hindalco Industries Limited (Unit-Aditya Aluminium), Sambalpur**
Sampling Location	**GW-1: Near Ash Pond, GW-2: Near Proposed Pond, GW-3: Near RR Colony, GW-4: Ash Pond Area Bore well**
Date of Sampling	**17.11.2025**
Date of Analysis	**18.11.2025 TO 25.11.2025**
Sample Collected By	**VCSPL Representative**

Sl. No.	Parameter	Testing Method	Unit	Standard as per IS -10500:2012 Amended on 2015 & 2018		Analysis Results			
				Acceptable Limit	Permissible Limit	GW-1	GW-2	GW-3	GW-4
1.	pH Value	APHA 4500 H^+ B	--	6.5-8.5	No Relaxation	7.40	7.40	7.48	7.52
2.	Turbidity	APHA 2130B	NTU	1	5	<1.0	<1.0	<1.0	<1.0
3.	Total Hardness (as $CaCO_3$)	APHA 2340 C	mg/l	200	600	114.0	72.0	160.0	110.0
4.	Iron (as Fe)	APHA 3500 Fe B	mg/l	1.0	No Relaxation	0.18	0.26	0.24	0.25
5.	Chloride (as Cl)	APHA 4500 Cl^- B	mg/l	250	1000	16.4	17.2	20.2	23.4
6.	Dissolved Solids	APHA 2540 C	mg/l	500	2000	170.0	132	186.0	160
7.	Calcium (as Ca)	APHA 3500 Ca B	mg/l	75	200	29.3	20.02	40.04	28.03
8.	Magnesium (as Mg)	APHA 3500 Mg B	mg/l	30	100	9.6	5.36	14.64	9.76
9.	Copper (as Cu)	APHA 3111Cu B	mg/l	0.05	1.5	<0.001	<0.001	<0.001	<0.001
10.	Sodium (as Na)	APHA 3500Na B	mg/l	--	--	13.4	8.1	15.2	14.1
11.	Potassium (as K)	APHA 3500 K B	mg/l	--	--	4.1	3.1	5.2	5.6
12.	Manganese (as Mn)	APHA 3111 B	mg/l	0.1	0.3	<0.005	<0.005	<0.005	<0.005
13.	Sulphate (as SO_4)	APHA 4500 SO_4^{2-} E	mg/l	200	400	18.0	10.2	14.2	11.2
14	Nitrate (as NO_3)	APHA 4500 NO_3^- B	mg/l	45	No Relaxation	0.58	0.46	1.02	0.60
15.	Fluoride (as F)	APHA 4500 F^- D	mg/l	1.0	1.5	0.41	0.31	0.40	0.46
16.	Phenolic Compounds (as C_6H_5OH)	APHA 5530 C	mg/l	0.001	0.002	<0.001	<0.001	<0.001	<0.001
17.	Mercury (as Hg)	APHA 3112B	mg/l	0.001	No Relaxation	<0.001	<0.001	<0.001	<0.001
18.	Cadmium (as Cd)	APHA 3111 B	mg/l	0.003	No Relaxation	<0.001	<0.001	<0.001	<0.001
19.	Selenium (as Se)	APHA 3114 B	mg/l	0.01	No Relaxation	<0.001	<0.001	<0.001	<0.001
20	Arsenic (as As)	APHA 3114 B	mg/l	0.01	No Relaxation	<0.001	<0.001	<0.001	<0.001
21.	Cyanide (as CN)	APHA 4500 CN^- C,D	mg/l	0.05	No Relaxation	ND	ND	ND	ND
22.	Lead (as Pb)	APHA 3111 B	mg/l	0.01	No Relaxation	<0.001	<0.001	<0.001	<0.001
23.	Zinc (as Zn)	APHA 3111 B	mg/l	5	15	<0.005	<0.005	<0.005	<0.005
24.	Chromium (as Cr)	APHA 3500 Cr B	mg/l	0.05	No Relaxation	<0.005	<0.005	<0.005	<0.005
25.	Alkalinity	APHA 2320 B	mg/l	200	600	70.0	72.0	110.0	106
26.	Aluminium as (Al)	APHA 3500 Al B	mg/l	0.03	0.2	<0.001	<0.001	<0.001	<0.001
27.	Boron (as B)	APHA 4500 B	mg/l	2.4	No Relaxation	<0.001	<0.001	<0.001	<0.001

Note: ND: Not Detected, BDL: Below Detection Limit

Reviewed by

Approved by

Ref: Envlab/25-26/R-15812 **Date: 01.12.2025**

SOIL QUALITY ANALYSIS REPORT NOVEMBER-2025

1.	Name of Industry	:	M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga
2.	Date of Sampling	:	24.11.2025
3.	Sampling Location	:	**S-1:** Project Site; **S-2:** Thelkoloi; **S-3:** Ghichamura, **S-4:** Lapanga; **S-5:** Bamloi
4.	Date of Analysis	:	25.11.2025 TO 29.11.2025
5.	Sample Collected By	:	VCSPL representative

Sl. No.	Parameters	Unit	S-1	S-2	S-3	S-4	S-5
1	P^H at 25^0C	--	7.01	6.59	7.12	7.16	7.25
2	Conductivity	--	118.6	130	121.2	148	132
3	Soil Texture	--	Sandy Loamy	Clay Loamy	Clay Loamy	Sandy Loamy	Sandy Loamy
4	Sand	%	40	24.6	35	37.2	41
5	Silt	%	15	22.8	20.2	20.2	15
6	Clay	%	45	52.6	44.8	42.6	44
7	Bulk Density	gm/cc	1.56	1.41	1.47	1.51	1.54
8	Exchangeable Calcium as Ca	%	34.6	32.8	40.2	36.3	42.1
9	Exchangeable Magnesium as Mg	%	53.6	46.8	50.1	53.1	50.5
10	Available Sodium as Na	%	0.021	0.025	0.025	0.03	0.026
11	Available Potassium as K	%	0.058	0.055	0.054	0.043	0.053
12	Available phosphorous as P	%	0.024	0.026	0.025	0.028	0.022
13	Available Nitrogen as N	%	0.33	0.28	0.32	0.29	0.3
14	Organic Matter	%	3.2	4.1	4.2	3.6	3.8
15	Organic Carbon as OC	%	1.46	1.38	1.55	1.63	1.52
16	Water soluble Chlorides as Cl	%	0.28	0.26	0.31	0.25	0.27
17	Water soluble Sulphates as SO_4	%	0.2	0.23	0.27	0.23	0.21
18	Sodium Absorption Ratio	%	0.00014	0.00018	0.00021	0.00015	0.00013
19	Aluminium as Al	%	0.058	0.054	0.046	0.061	0.058
20	Total Iron as Fe	%	0.0062	0.0052	0.0061	0.0063	0.0065
21	Manganese as Mn	%	0.0021	0.0024	0.0025	0.002	0.0024
22	Boron as B	%	0.00024	0.00022	0.00023	0.00026	0.00028
23	Zinc as Zn	%	0.00026	0.00026	0.00026	0.00028	0.00024
24	Silica as SiO_2	%	4.5	4.2	5.1	5.5	4.4
25	Ferric Oxide as Fe_2O_3	%	0.039	0.035	0.04	0.042	0.038
26	Calcium Oxide as CaO	%	30.2	32.2	30.2	31.6	28.2
27	Magnesium Oxide as MgO	%	23.6	24.4	23.3	22.6	21.8
28	Aluminium Oxide as Al_2O_3	%	0.00018	0.00016	0.00018	0.0002	0.00015
29	Iron Oxide as FeO	%	0.031	0.032	0.032	0.031	0.033
30	Manganese Oxide as MnO	%	0.0044	0.0042	0.0043	0.0044	0.0045
31	Potassium Oxide as K_2O	%	0.0436	0.0355	0.0412	0.0397	0.0425
32	Phosphorus Oxide as P_2O_5	%	0.0068	0.0073	0.0061	0.0069	0.0052
33	Fluoride as F	%	0.00038	0.00036	0.00042	0.00037	0.00028

ND: Not Detected.

Reviewed by

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

VISIONTEK CONSULTANCY SERVICES PVT. LTD. BBSR

Approved by

Ref: Envlab/25-26/R-15183 **Date: 01.12.2025**

SOIL QUALITY ANALYSIS REPORT NOVEMBER-2025

1.	**Name of Industry**	:	**M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
2.	**Date of Sampling**	:	**24.11.2025**
3.	**Sampling Location**	:	**S-6:** Tileimal; **S-7:** Jangala; **S-8:** Gurupali; **S-9**: Gumkarma; **S-10:** Bhadrapali.
4.	**Date of Analysis**	:	**25.11.2025 TO 29.11.2025**
5.	**Sample Collected By**	:	VCSPL representative

Sl. No.	Parameters	Unit	S-6	S-7	S-8	S-9	S-10
1	P^H at 25^0C	--	6.98	7.34	6.96	6.74	7.54
2	Conductivity	--	142	130	138	122	132
3	Soil Texture	--	Sandy Loamy	Clay Loamy	Clay Loamy	Sandy Loamy	Sandy Loamy
4	Sand	%	22.4	32.4	30.8	39.6	31
5	Silt	%	16.2	13.4	20.7	19.6	18
6	Clay	%	61.4	54.2	48.5	40.8	51
7	Bulk Density	gm/cc	1.38	1.41	1.26	1.35	1.36
8	Exchangeable Calcium as Ca	%	41.1	35.9	41.3	42.2	39.7
9	Exchangeable Magnesium as Mg	%	48.6	49.3	51.1	54.4	53.4
10	Available Sodium as Na	%	0.021	0.025	0.028	0.024	0.024
11	Available Potassium as K	%	0.046	0.042	0.041	0.043	0.044
12	Available phosphorous as P	%	0.019	0.021	0.016	0.022	0.02
13	Available Nitrogen as N	%	0.28	0.24	0.26	0.22	0.26
14	Organic Matter	%	3.5	3.6	3.4	3.3	3.4
15	Organic Carbon as OC	%	1.5	1.62	1.78	1.82	1.52
16	Water soluble Chlorides as Cl	%	0.25	0.22	0.23	0.21	0.2
17	Water soluble Sulphates as SO_4	%	0.14	0.23	0.16	0.15	0.19
18	Sodium Absorption Ratio	%	0.142	0.158	0.135	0.121	0.132
19	Aluminium as Al	%	0.00015	0.00013	0.00021	0.00017	0.00015
20	Total Iron as Fe	%	0.062	0.059	0.043	0.047	0.052
21	Manganese as Mn	%	0.0021	0.0018	0.0022	0.0022	0.0026
22	Boron as B	%	0.00025	0.00031	0.00028	0.00029	0.0002
23	Zinc as Zn	%	0.00016	0.00022	0.00029	0.00016	0.00016
24	Silica as SiO_2	%	4.9	6.1	5.2	6.3	6.7
25	Ferric Oxide as Fe_2O_3	%	0.025	0.029	0.026	0.028	0.03
26	Calcium Oxide as CaO	%	24.1	33.6	29.8	30.5	26.7
27	Magnesium Oxide as MgO	%	22.6	26.6	26.2	28.2	20.2
28	Aluminium Oxide as Al_2O_3	%	0.00033	0.00032	0.00033	0.00031	0.00035
29	Iron Oxide as FeO	%	0.0169	0.0152	0.0166	0.0139	0.0147
30	Manganese Oxide as MnO	%	0.0025	0.0013	0.0016	0.0019	0.0021
31	Potassium Oxide as K_2O	%	0.0398	0.0411	0.0426	0.0357	0.0469
32	Phosphorus Oxide as P_2O_5	%	0.0071	0.0065	0.0109	0.0083	0.0077
33	Fluoride as F	%	0.0004	0.00035	0.00032	0.00031	0.00034

Reviewed by

Approved by

Ref: Envlab/25-26/R-19033 **Date: 03.01.2026**

NOISE MONITORING REPORT DECEMBER-2025

1. **Name of Industry : M/s Hindalco Industries Ltd (Unit- Aditya Aluminium); Lapanga**
2. **Monitored By : VCSPL representative**

Day Time Noise monitoring results Noise Level in dB (A) DECEMBER-2025

TIME (6.00AM to 9.00PM)	N1: Gumkarma (08.12.2025)	N2: Ghichamura (09.12.2025)	N3: Bomaloi (15.12.2025)	N4: Tileimal (16.12.2025)	N5: Thelkoloi (22.12.2025)	N6: Khadiapali (23.12.2025)	N7: Kapilas (29.12.2025)	N8: Phulchanghal (30.12.2025)
06.00am	48.6	46.9	48.6	50.3	53.1	42.0	53.2	51.6
07.00am	49.1	47.2	49.2	51.6	50.9	46.0	50.1	50.7
08.00am	49.8	50.2	50.1	53.5	53.6	44.0	46.9	46.9
09.00am	48.2	51.3	51.1	51.7	51.2	44.5	53.2	52.8
10.00am	50.1	52.4	50.5	46.9	50.9	45.0	50.5	53.1
11.00am	49.6	50.4	51.4	53.2	53.1	47.0	53.4	50.7
12.00 noon	51.3	51.1	51.8	50.5	54.2	49.0	52.9	53.5
01.00pm	52.2	50.5	51.1	51.9	50.6	45.0	50.7	50.2
02.00pm	52.4	51.4	50.4	52.6	53.1	41.9	53.6	51.9
03.00pm	49.6	48.6	49.2	50.3	47.9	43.6	52.2	53.6
04.00pm	48.8	49.6	51.1	53.5	50.2	40.2	51.6	53.2
05.00pm	50.2	50.2	52.5	51.9	53.6	48.2	54.3	54.1
06.00pm	51.1	49.8	47.4	50.8	52.1	48.6	53.6	50.9
07.00pm	52.4	49.6	48.2	47.9	50.9	46.2	50.1	53.8
08.00pm	49.8	50.7	46.6	52.2	50.7	48.6	54.2	53.2
09.00pm	47.3	49.6	48.2	50.3	51.5	43.2	53.8	52.4
Average	**50.0**	**49.9**	**49.8**	**51.1**	**51.7**	**45.1**	**52.1**	**52.0**
Standard as per CPCB	**55**							

Night Time Noise monitoring results Noise Level in dB (A) DECEMBER-2025

TIME (6.00AM to 9.00PM)	N1: Gumkarma (08.12.2025)	N2: Ghichamura (09.12.2025)	N3: Bomaloi (15.12.2025)	N4: Tileimal (16.12.2025)	N5: Thelkoloi (22.12.2025)	N6: Khadiapali (23.12.2025)	N7: Kapilas (29.12.2025)	N8: Phulchanghal (30.12.2025)
10.00pm	36.8	38.2	40.4	34.6	42.6	36.7	40.4	38.2
11.00pm	37.1	40.4	39.6	39.5	40.4	32.1	43.2	35.6
12.00 Midnight	39.2	40.0	38.5	35.2	39.8	35.3	41.6	39.4
01.00am	40.4	40.6	42.2	36.7	42.2	36.9	40.8	40.1
02.00am	33.9	39.8	40.3	40.1	43.6	40.2	40.9	43.5
03.00am	36.2	40.5	40.6	39.5	44.5	37.8	42.2	35.6
04.00am	35.8	40.2	38.9	38.3	43.2	41.6	42.5	38.4
05.00am	37.2	39.8	35.2	40.2	42.7	40.2	40.7	36.7
Average	**36.8**	**38.2**	**40.4**	**34.6**	**42.6**	**36.7**	**40.4**	**38.2**
Standard as per CPCB	**45**							

Reviewed by

Approved by

Annexure-16

Reference: - MoEF&CC Office memorandum F. No. IA3-22/8/2021-1A.III [150512] dated 18/07/2022

Glimpses of Sensitization & Awareness of ban on Single Use Plastic Inside Plant, Township and Nearby Villages

SUP Ban Awareness to children in Pitapali village

SUP Ban Awareness to township residents

Annexure-16

Reference: - MoEF&CC Office memorandum F. No. IA3-22/8/2021-1A.III [150512] dated 18/07/2022

SUP Ban Awareness inside plant premises

SUP Ban Awareness on the shop floor inside the plant premises

Annexure-16

Reference: - MoEF&CC Office memorandum F. No. IA3-22/8/2021-1A.III [150512] dated 18/07/2022

ADITYA BIRLA

HINDALCO

Date: 25.07.2022

OFFICE ORDER

Subject: Discontinuation of Single Use Plastic ("SUP") items.

Dear Colleague,

As we all know, plastic items are not good for sustainable environment. We are hereby making a conscious effort in accordance with the Plastic Waste Amendment Rule, 2021 to refuse/ reduce the consumption of plastic items, including packaging but wherever unavoidable will be separately binned (whenever rejected), collected and send it to disposal for its proper recycling.

We are regularly creating awareness campaigns for all our employees, family members, vendors and stakeholders to reduce the generation of plastic waste. For safer, healthier and inclusive plant and township for all we hereby prohibit the following plastic items inside the plant and all public building of Aditya Aluminium effective immediately.

1. Thermocol/ Plastic items like plates, cups, glasses, cutlery such as forks, spoons, knives, straws, etc.
2. Barricading strips
3. Plastic Folders
4. Plastic sample bags
5. Mineral Water Bottles
6. Single use plastic bottles for drinking purposes
7. Plastic used for packing of motors/ value
8. Gift wrapping plastic films
9. Plastic carry bag
10. Plastic or PVC banners (Flex Banners)

Special instructions shall be given to vendors while procuring items to substitute single use plastic packaging with sustainable options. All are requested to cooperate and use alternate biodegradable substitutes.

Thanking You

Yours faithfully

Dr. Vivekanand Mishra

Vice President and HR Head

Hindalco Industries Limited
Aditya Aluminium: At/P.O.: Lapanga – 768 212, District: Sambalpur, Odisha, India
T: +91 663 2536 247 | Fax: +91 663 2536 499 | E: hindalco@adityabirla.com | W: www.hindalco.com
Registered Office: Ahura Centre, 1st Floor, B-Wing, Mahakali Caves Road, Andheri (East), Mumbai 400 093
Tel: +91 22 6691 7000 | Fax: + 91 222 6691 7001
Corporate ID No.: L27020MH1958PLC011238

Communication to Employee, Workmen and Contactors