



HIL/LHD/ENV/MoEF&CC/624

Date: 26th May 2026

To,
The Dy. Director General of Forest (C)
Ministry of Environment, Forests and Climate Changes
2nd Floor, Headquarter-Jharkhand State Housing Board
Harmu Chowk, Ranchi, Jharkhand-834002

Sub: Six Monthly EC Compliance Report for Hisri New (14.55 Ha) Bauxite Mining Project of M/s Hindalco Industries Limited, Lohardaga Jharkhand for the period from **October 2025 to March 2026**.

Ref: Environmental Clearance Letter No. J-11015/531/2007-IA II (M), dated 17th June 2011.

Dear Sir,

With reference to the above, we are submitting herewith the Compliance status report of EC conditions for **Hisri New (14.55 Ha)** Bauxite Mining project of **M/s Hindalco Industries Limited**, Lohardaga Jharkhand for the period from **October 2025 to March 2026** for your kind perusal please.

The lease details are below:

Lease area (ha)	Production Capacity (MT)	Lease Period
14.55	100000	19.07.1981 to 31.03.2030

Hope you will find the same in order.

Thanking You

Yours faithfully,
For **Hindalco Industries Limited**

R R P Ambastha
Head - Compliance

Enclosure: - As Above

CC: ro.ranchi-mef@gov.in, mef@ori.nic.in, mef@nic.in, mef.or@nic.in, mescb.cpcb@nic.in, zokolkatta.cpcb@nic.in, ranchijspcb@gmail.com, roranchi47@gmail.com

Name of the Project : Hisri (New) Bauxite Mine (14.55 ha)
M/s Hindalco Industries Limited

Environment Clearance No & date : J-11015/531/2007-IA II (M), dated 17.06.2011

Period of compliance Report : From 1st October 2025 to 31st March 2026

Specific Conditions: -

Condition i: -The project proponent shall obtain Consent to Establish and Consent to Operate from the Jharkhand State Pollution Control Board and effectively implement all the conditions stipulated therein.

Reply: - Consent to establish and consent to operate have been obtained prior to start of Mining. Existing consent to operate (CTO) is valid till 31.12.2026. All the stipulated conditions of the CTE/CTO are being implemented effectively.

Condition ii: -The environmental clearance is subject to forestry clearance.

Reply: - Forest Clearance is obtained. The compliance report for the same is attached herewith as Annexure-6.

Condition iii: -The environmental clearance is subject to approval of the state land use Department, Government of Jharkhand for diversion of agricultural land for non-agricultural use.

Reply: - Noted. Entire land has been acquired for mining purposes as per applicable laws.

Condition iv: -The mining operation shall be restricted to above groundwater table and it should not intersect the ground water table. In case of working below ground water table, prior approval of the Ministry of Environment & Forests and Central Ground Water Authority shall be obtained, for which a detailed hydro – geological study shall be carried out.

Reply: - Shallow depth mining is being done and does not intersect the ground water. Working zones will be restricted to above ground water tables in future also. We undertake that no mining is/was carried out below ground water table and the same status will be maintained in future also.

Condition v: -The Project proponent shall ensure that no natural watercourse shall be obstructed due to any mining operations. The first order streams and the seasonal nallahs originating from the mining lease area shall be protected.

Reply: - There is no natural watercourse and / or water resources within the mining lease area. Shallow depth mining methodology is adopted for mining process. Hence, there is no impact of mining operation on natural water course.

Condition vi: -The topsoil, if any shall temporarily be stored at earmarked site (s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation.

Reply: - Topsoil is being stacked temporally properly with proper slope as and when required. Concurrent backfilling and reclamation of mined out area are being exercised for which topsoil is being spread on backfilled area for reclamation. No OB dump is present in mines. The mining is being carried out as per the approved mining plan. Monitoring and management of rehabilitated areas is being done through effective supervision. The photograph of the reclaimed area is enclosed below:



Reclaimed Area

Condition vii: -The solid waste generated during the mining operation shall be backfilled and there shall be no external overburden dump left at the end of the mine life. The entire excavated area of 12.19 ha. shall be backfilled and reclaimed by plantation. The backfilling should be carried out in such a manner that it is restored to the normal ground level. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest on six-month basis.

Reply: - Backfilling and reclamation are being done concurrently by overburden. There is no Overburden dump as of now in the mine lease area. Data pertaining to backfilling is enclosed as **Annexure 4**. Backfilling is a continuous process and is being done commensurate with the progress of mining. Monitoring and management of rehabilitated areas is continued through supervision.

Condition viii: -Catch drains and siltation ponds of appropriate size should be constructed around the working pit, sub-grade dump, soil and mineral dumps to arrest flow of silt and sediment directly into the agricultural fields, the Kisco Nadi, the Sukri Nadi, the Chungahat nallah, the Barki nallah and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted, particularly after monsoon and maintained properly.

Garland drain, settling tanks and check dams of appropriate size, gradient and length shall be constructed for both around the mine pit and sub grade dump to prevent run off of water and flow sediments directly into the agricultural fields, the Kisco Nadi, the Sukri Nadi, the Chungahat nallah, the Barki nallah and other water bodies and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.

Reply: - To collect & manage rainwater during monsoon, part of mined out area is used as a settling tank for the runoff. Rainwater stored is being used for watering the mine area, roads, green belt development and sprinkling as necessary. Catch drains, Garland drains of appropriate size are being constructed in both around the mine pit to prevent runoff of water and flow of sediments directly into the agricultural field and water bodies, if applicable. Sump of adequate capacity is being provided and maintained as required. Sump of adequate capacity is being provided and maintained as required. The photograph of the drain is enclosed below:



Garland drain

Condition ix: -Dimension of the retaining wall at the toe of the sub-grade, dump and OB benches within the mine to check run-off and siltation should be based on the rain fall data.

Reply: - There is no temporary dumps within the mining lease area. However, the dimensions of the retaining wall of temporary OB dumps will be maintained based on average rain fall, if required.

Condition x: -Plantation shall be raised in an area of 12.7 ha including a 7.5 m. wide green belt in the safety zone around the mining lease by planting the native species around ML area, backfilled and reclaimed area, around water body, roads etc. in consultation with the local DFO / Agriculture Department. At least 1500 trees per year shall be planted with a tree density of 1000 trees per hectare. Greenbelt shall be developed all along the mine lease area in a phased manner and shall be completed within first five years.

Reply: - Progressive plantation is being carried out with the progress of mining in and around the Mine lease area. During FY 2025-26, a total of 1300 nos. saplings have been planted within the mining lease. Cumulative 6.83 ha areas have been planted till date. In addition to this, agricultural activity is going on in reclaimed land as per the consent from landowners. The green belt development program is in progress with the progress of mining activities. Plantation photograph attached below:





Plantation at mine

Condition xi: - Effective safeguard measures, such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels to particulate matter such as around loading and unloading point and all transfer points. Extensive water sprinkling shall be carried out on haul roads. It should be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

Reply: - Effective safeguard measures, such as regular water sprinkling, are being implemented in all critical areas prone to air pollution. Regular Ambient Air Quality (AAQ) monitoring is being carried out by NABL accredited Laboratory and all parameters are found within the prescribed limit. The Monitoring report is attached herewith as **Annexure-2**.

Condition xii: - The project authority should implement suitable conservation measures to augment ground water resources in the area in consultation with the Regional Director, Central Ground Water Board.

Reply: - Effective measures have already been implemented. A detailed rainwater harvesting plan to augment ground water has been prepared and suitable measures like water harvesting pond etc. are created for augmentation of ground water in the area (Bagru Plateau) in consultation with Central Ground Water Board.

Condition xiii: - Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The periodic monitoring [(at least four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) once in each season)] shall be carried out in consultation with the State Ground Water Board/ Central Ground water Authority and the data thus collected may be sent regularly to the Ministry of Environment and Forests and its Regional office Bhubaneswar, The Central Ground Water Authority and the Regional Director, Central Ground Water Board. If at any stage, it is observed that the ground water table is getting depleted due to the mining activity, necessary corrective measures shall be carried out.

Reply: - Since Shallow depth mining is being carried out, there is no intersection of ground water table during the mining operation at present and in future also. A Piezometer has been installed for monitoring of ground water level. Water level and Water quality Reports are being sent regularly to the regional office of Ministry, CGWA/CGWB and JSPCB. The Ground water level from October 2025 to March 2026 and quality Monitoring report of Post-Monsoon and Winter season are attached as **Annexure 1 & 2**. Now, Regional office of MoEF&CC is in Ranchi.



Piezometer

Condition xiv: - Monitoring to the springs shall be carried out for the quality and quantity of water regularly so as to ensure that there is no adverse impact on the same due to the project. Records in this regard shall be maintained.


Reply: - Water Monitoring of Spring is being conducted regularly and the Analysis report is attached as **Annexure 2**.

Condition xv: - It shall be ensured that there is no change in the hydrology of the area due to the project.

Reply: -Noted. We regularly monitor the ground water level, and no adverse changes are observed.

Condition xvi: - The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) required for the project.

Reply: Rainwater is collected into the rainwater harvesting pond and being used for sprinkling on haul roads, mining activities, and raising plantation. No groundwater or water from natural surface water bodies is being used for mining purposes. However, we have already obtained NOC for extraction of ground water from CGWA/ CGWB for drinking purposes only. The copy of the same is attached below:

 सत्यमेव जयते वाचं धेनुमुपासीत वाचं शंभुवन्द्यम् श्री गणेशाय नमः आशीर्वादोऽस्य सदैव Government of India Ministry of Jal Shakti Department of Water Resources, River Development & Ganga Rejuvenation Central Ground Water Authority	
(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION	
Project Name:	Hisri (new) Bauxite Mining Project (14.55Ha)
Project Address:	Hisri (new) Bauxite Mining Project, VIII - Hisri, Champi And Korgo, Tehsil - Kisko, Dist - Lohardaga
Village:	Hisri
Block:	Kisko
District:	Lohardaga
State:	Jharkhand
Pin Code:	
Communication Address:	Hindalco Industries Ltd, Hindalco Complex, Court Road, Lohardaga, P.O- Lohardaga, Lohardaga, Lohardaga, Jharkhand - 835302
Address of CGWB Regional Office:	Central Ground Water Board Mid Eastern Region, 6th & 7th Floor, Lok Nayak Jai Prakash Bhawan, Fraser Road Dak Banglow, Patna, Bihar - 800011
1. NOC No.:	CGWA/NOC/MINREN/2024/9799
2. Date of Issuance:	01/08/2024
3. Application No.:	21-4/498/UH/MIN/2019
4. Category (GWRE 2023):	Safe
5. Project Status:	Existing Ground Water
6. NOC Type:	Renewal
7. Valid from:	18/09/2024
8. Valid up to:	17/09/2026
9. Ground Water Abstraction Permitted:	

NOC Ground Water

Condition xvii: - Suitable rainwater harvesting measures on long term basis shall be planned and implemented in consultation with the Regional Director, Central Ground Water Board.

Reply: - Suitable rainwater harvesting measures on long term basis have been implemented via the creation of rainwater harvesting pond in consultation with the Central Ground Water Board.

Condition xviii:- Appropriate mitigative measures shall be taken to prevent pollution of the Kisko Nadi, the Sukri Nadi and other rivers in the buffer zone of the mine, in consultation with the State Pollution Control Board.

Reply:- Appropriate mitigative measures have been taken to prevent pollution of nearby water bodies. The drainage system in the mining lease area is designed to collect all rainwater within the lease into the pit/ rainwater harvesting pond only and ensure that water does not flow outside the boundaries of the mine lease under any circumstances.

Condition xix :- Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and transportation of mineral from mine face to the Beneficiation plant. The vehicles should be covered with a tarpaulin and shall not be overloaded.

Reply:- Minimum vehicles are being used for transport and all vehicles are covered with tarpaulin. Regular maintenance of vehicles is being done to minimize vehicular emission. Bauxite is also being transported by ropeway from mines to Lohardaga siding.



Condition xx:- Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibration and to arrest fly rocks and boulders should be implemented.

Reply: - Blasting time is fixed between 1.00 PM - 2.00 PM. Controlled blasting method is in practice. Ground vibration study has been conducted periodically. All efforts and mitigative measures are being implemented to minimize the impact of blasting.

Condition xxi: - Drills shall either be operated with dust extractors or equipped with water injection system.

Reply: - Wet drilling is in practice.

Condition xxii: - Mineral handling area shall be provided with adequate number of high efficiency dust extraction system. Loading and unloading areas including all the transfer points should also have efficient dust control arrangements. These should be properly maintained and operated.

Reply:- Water sprinkling is being carried out regularly at mineral handling area, loading and unloading areas to control the dust. The photographs are attached below.



Water Sprinkling

Condition xxiii: - Sewage treatment plant should be installed for the colony. ETP should also be provided for workshop and wastewater generated from mining operations.

Reply: - Sewage water for the working population is treated in a Sewage Treatment Plant (STP), and the treated water is utilized for plantation and gardening purposes only. There is no industrial wastewater generation from mining operation. We are not discharging any wastewater outside the mine lease area. However, negligible amounts of wastewater is generated

in workshop from washing vehicles and Effluent treatment plant (ETP) have been installed for this effluent. The treated water is in close circuit and is being reused for washing vehicles in the workshop.

Furthermore, the quality of treated water is being monitored regularly, and all water parameters are within permissible limits. The monitoring report is attached herewith as **Annexure 2**.



Sewage Treatment Plant (STP)



Effluent Treatment Plant (ETP)

Condition xxiii: - The project authorities should undertake sample survey to generate data on pre-project community health status within a radius of 1 Km. from proposed mine.

Reply:- Being done through medical camp.

Condition xxiv: - Pre-placement medical examination and periodical medical examination of the workers engaged in the project shall be carried out and records maintained. For the purpose, schedule of health examination of the workers should be drawn and followed accordingly.

Reply:- As a company, we are truly concerned about the health and safety of our on-site workers and in consideration to that, the health examination camps are being setup / scheduled on a regular basis.

Condition xxv: - Provision shall be made for the housing of 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 the temporary structures to be removed after the completion of the project.

Reply:- We believe that the wellbeing of all the labours working within the site should be taken care of on a priority basis, so that they can work in a stress-free environment. Therefore, all the necessary infrastructure and basic facilities mentioned above are being taken care of.

Condition xxvi: - The critical parameters such as RSPM (Particulate matter with size less than 10 µm (i.e. PM₁₀, PM_{2.5}) and NO_x in the ambient air within the impact zone, peak particle velocity at 300 m. distance or within the nearest habitation, whichever is closer shall be monitored periodically. Further, quality of discharge water shall also be monitored [(TDS, DO, PH and Total Suspended Solids (TSS)], The monitored data shall be uploaded on the website of the Company as well as displayed on a display board at the project site at a suitable location near the main gate of the Company in Public domain. The Circular no. J-20012/1/2006-IA.II(M) dated 27.05.2009 issued by Ministry of Environment and Forests, which is available on the website of the Ministry www.envfor.nic.in shall also be referred in this regard for its compliance.

Reply: - Noted and being adhered. We have established four ambient air quality monitoring stations in the core zone as well as buffer zone. Monitoring of Ambient Air Quality and Treated Water is being carried out by NABL accredited Laboratory and reported to the concerned authorities. The Monitoring Report is attached herewith as **Annexure 2**. Half-yearly EC compliance along with Environmental monitoring reports is being uploaded on company website regularly.

A Display board is already installed in front of mine gate office. We have also installed an online PM10 analyzer at mine site.

Condition xxvii: - A Final Mine Closure plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forest 5 years in advance of final mine closure for approval.

Reply: - Noted. Progressive Mine Closure Plan duly approved by Indian Bureau of Mines is with us. FMCP (part) is approved by IBM. FMCP for entire lease will be prepared in due time as per applicable guidelines and timelines mentioned in MCDR/IBM guidelines who are competent authority to approve the same. Based on the present resource estimate, and peak rated production capacity mentioned in EC, Mining operation is being carried out.

General Conditions:

Condition i: - No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.

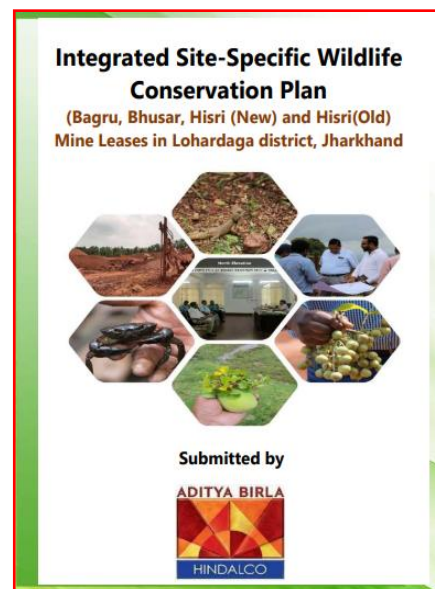
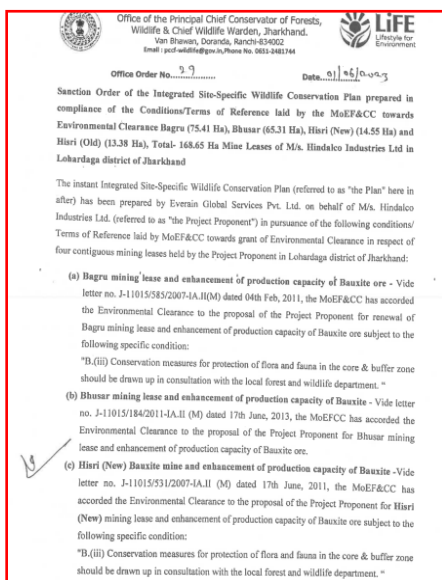
Reply:- Noted.

Condition ii: - No change in the calendar plan including excavation, quantum of mineral bauxite and waste should be made.

Reply:- Calendar plan including excavation, quantum of mineral bauxite and waste is being done as per IBM approved mining plan / mining scheme in scientific manner. Mine data detail is attached as **Annexure - 4**.

Condition iii: - Conservation measures for protection of flora and fauna in the core & buffer zone should be drawn up in consultation with the local forest and wildlife department.

Reply:- Conservation measures for protection of flora and fauna in core & buffer zone has been drawn up in consultation with local forest and wildlife department. Also, we prepared Integrated Site-specific Wildlife Conservation Plan (WLCP) and obtained approval from by PCCF, Wildlife, Ranchi vide Office Order No.29 dated 01.06.2023. copy enclosed below:



Condition iv: - Four ambient air quality-monitoring station should be established in the core zone as well as in the buffer zone for RSPM (Particulate matter with size less than 10 μm (i.e. PM_{10} , $\text{PM}_{2.5}$) & NO_x monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.

Reply:- We have already established four ambient air quality monitoring stations in the core zone as well as buffer zone. Monitoring of Ambient Air Quality is being carried out by NABL accredited Laboratory and reported to the concerned authorities. The Monitoring Report is attached as **Annexure 2**.

Condition v: - Data on ambient air quality RSPM (Particulate matter with size less than 10 µm i.e. PM₁₀) & NO_x should be regularly submitted to the Ministry including its Regional office located at Bhubaneswar and the State Pollution Control Board / Central pollution Control Board once in six months.

Reply: - The monitoring of Ambient Air Quality is conducted by an NABL-accredited Laboratory, and reports are regularly submitted to the MoEF&CC and JSPCB, Ranchi. The monitoring report is attached in the above condition. Now, Regional office of MoEF&CC is in Ranchi.

Condition vi: - Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

Reply:- Water spraying arrangements on haul roads, loading and unloading and at transfer points have been provided and properly maintained. The photograph of the water tanker is attached in the above condition.

Condition vii:- Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operation of HEMM, etc. should be provided with ear plug / muffs.

Reply:- Measures are being taken for control of noise levels below 85 dB (A) in the work environment. Workers engaged in operation of HEMM, etc. has been provided with ear plug / muffs. The noise level monitoring is being conducted at a regular interval. The noise level is within the prescribed norms. The report has been attached as **Annexure 2**.

Condition viii:- Industrial wastewater (workshops and waste water from the mine) Should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.

Reply:- There is no industrial wastewater generation from mining operation. We are not discharging any wastewater outside the mine lease area. However, negligible amount of wastewater is generated in workshop from washing vehicles and Effluent treatment plant (ETP) have been installed for this effluent. The treated water is in close circuit and is being reused for washing vehicles in the workshop.

Furthermore, the quality of this treated water is monitored regularly, and all water parameters are within permissible limits. The monitoring report is attached as **Annexure 2**.



Effluent Treatment Plant

Condition ix:- Personnel working in dusty areas should wear protective respiratory devices and they should also provide with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

Reply:- All the surveillance workers have been provided with PPEs including dust masks and dust respirators. Apart from PPEs distribution to all workers, we are also providing adequate safety training and conducting awareness sessions on Safety and health aspects on a regular basis. The Periodical Occupational health program of the workers is being carried out and records maintained as per statute.

Condition x:- A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.

Reply: - A separate environmental management cell with suitable qualified personnel has been set up under the control of a Senior Executive, who is reporting directly to the Head of the Organization. The same is being attached herewith as **Annexure 3**.

Condition xi: - The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneshwar.

Reply: - Every year budget is earmarked for environmental protection measures being prepared for purpose and its expenditure is being reported to the ministry. The copy of the same is attached as **Annexure 5**. Now, the Regional Office of MoEF&CC is in Ranchi.

Condition xii:- The project authorities should inform to the Regional Office located at Bhubaneswar regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

Reply: - It is an operational mine. Hence provisions related to financial closure is not applicable. Now, the Regional Office of MoEF&CC is in Ranchi.

Condition xiii: - The Regional Office of this Ministry located at Bhubaneswar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.

Reply: - Agreed. Now, the Regional Office of MoEF&CC is in Ranchi.

Condition xiv: - The project proponent shall submit six monthly report on the status of the compliance of the stipulated environmental Clearance conditions including results of monitoring data (both in hard copies as well as by e-mail) to the Ministry of Environment and Forests, its Regional Officer, Bhubaneswar, the respective Zonal office of Central Pollution Control Board the State Pollution Control Board. The proponent shall upload the status of compliance of the Environmental Clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the Ministry of Environment and Forests, Bhubaneswar, the respective Zonal Office of Central Pollution Control Board and State Pollution Control Board.

Reply: - Six monthly reports on status of compliance of stipulated environmental clearance conditions including monitoring report are being submitted to the MoEF&CC, Zonal office of CPCB and JSPCB Ranchi. Now, the Regional Office of MoEF&CC is in Ranchi.

Condition xv: - A copy of clearance letter shall be sent by the proponent to concerned Panchyat, Zila Parisad/ Municipal 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 shall also be put on the website of the Company by the proponent.

Reply: - Complied. A copy of the clearance letter has already been submitted and uploaded on website of the Company.

Condition xvi: - State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Center and Collector's office / Tehsildar's Office for 30 days.

Reply: - Noted. The EC Letter has been submitted to JSPCB for display of the same at its Regional office and other government offices.

Condition xvii:- 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 Stated 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 the compliance of environmental clearance conditions and shall also be sent to the Regional Office of the Ministry of Environment and Forests, Bhubneshwar by e-mail.

Reply: - Environment statement is being submitted regularly to Member Secretary, JSPCB. Also, the status of compliance with environmental clearance conditions is being sent to MoEF&CC and JSPCB, Ranchi on regular basis. Now, the Regional Office of MoEF&CC is in Ranchi.

Condition xviii:- The Company shall submit within 3 month their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to bring into focus any infringements/ deviation/ violation of environmental or forest norms/ conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance with environmental issues and ensuring compliance with Environment Clearance conditions and (iii) System of reporting of non compliance / violation of environmental norms to the Board of Directors of the Company and / or stakeholders or shareholders.

Reply: - Policy towards Corporate Environment Responsibility is part of Corporate Environment policy and in place. A copy of our Environmental Policy has already been submitted to the relevant statutory authorities. The company has implemented a system in line with the above policies which address the following points. (i) Standard operating process/procedure to bring into focus any infringements/ deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or administrative order of the company to deal with environmental issues and ensuring compliance EC conditions and (iii) System of reporting of noncompliance.

Condition xix:- The project authorities should advertise at least in two local newspapers widely circulated, one of which locality concerned, within 7days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at <http://envfor.nic.in> and a copy of the same should be forwarded to the Regional Office of this Ministry located at Bhubneshwar.

Reply: - Noted and complied. The information on grant of the EC has been published in two local newspapers. The copy of the advertisement has already been submitted to the Regional Office of the MoEF&CC. Now, the Regional office of MoEF&CC is in Ranchi.

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Piezometer Monitoring Report

Mine: Hisri New Bauxite Mine (14.55 Ha)

S No	Month	Ground Water Level (BGL) in meter
1	Oct-25	34.10
2	Nov-25	34.02
3	Dec-25	34.22
4	Jan-26	34.43
5	Feb-26	34.79
6	Mar-26	35.11



EPIC LabTech Private Limited



Address:-
C/o - R.K. Tripathi, Indrapuri,
Road No. - 5, Ranchi,
Jharkhand - 834005, India

0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685
PAN:-AAHCE3611M
GST:-20AAHCE3611M12X

Accredited by -
NABL vide certificate Number TC - 12887
Jharkhand State Pollution Control Board
Certified by -
ISO 9001:2015 and ISO 45001:2018

TC-12887

Analytical Test Certificate

Unique Lab Report No.	TC1288725000001374	Discipline	Chemical
Report Unique ID	RL03202542044	Group	Atmospheric Pollution
Issue date/time	23.10.2025/ 17:18	Sub Group	Ambient Air Quality

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA, DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302 MONITORING SITE: HISRI BAUXITE MINE	Contact Person Contact Number Email Id Order Date Order Number	Mr. Girija Tamrakar +91 9111006074 girija.tamrakar@adityabirla.com 31.03.2025/ 10:10 13612313868
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References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0320	Sample Booking Number	EPIC-2542044
Sample(s) Code	2542044 (A) (B) (C)	Sample Receipt (D/T)	18.10.2025/ 11:18

Sampling References

Type of Industry	Bauxite Mine	Ref. of Sampling Plan	EPIC/LAB/R/036
Sampling Start (D/T)	16.10.2025/ 10:42	Sampling End (D/T)	17.10.2025/ 08:55
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	IS 5182 and CPCB Air Manual Volume - 1 (NAAQM/36/2012-13)		
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	26	Humidity %	51	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50"/ 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92"/ 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06"/ 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73"/ 84° 35' 11.16"

Date(s) of performance of the laboratory activities

Test start date	18.10.2025/ 11:38	Test completion date	23.10.2025/ 16:00
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--Test Results--

Sl	Test Parameters	Method used	Unit	Results				Limits
				A	B	C	D	
1.	Particulate Matter (PM ₁₀)	IS:5182 (P-23) 2022	µg/m ³	51.03	53.14	54.21	56.98	100 (24 hr)
2.	Fine Particulate Matter (PM _{2.5})	IS 5182 (P-24) 2019	µg/m ³	25.11	26.87	27.31	29.08	60(24 hr)
3.	Sulphur Dioxide (SO ₂)	IS:5182 (P-02) 2023	µg/m ³	06.41	06.04	06.74	07.09	80(24 hr)
4.	Nitrogen Dioxide (NO ₂)	IS:5182 (P-06) 2022	µg/m ³	17.80	16.77	18.73	17.72	80(24 hr)
5.	Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	26.23	26.55	26.87	27.18	400(24 hr)
6.	Ozone (O ₃)	IS:5182 (P-09) 2019	µg/m ³	17.59	17.23	16.87	16.15	180(1 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m ³	BDL (MDL-0.1)	BDL (MDL-0.1)	BDL (MDL-0.1)	BDL (MDL-0.1)	1.0(24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m ³	BDL (MDL-0.1)	BDL (MDL-0.1)	BDL (MDL-0.1)	BDL (MDL-0.1)	
9.	Arsenic (As)	USEPA IO 3.2:1999	ng/m ³	BDL (MDL-0.001)	BDL (MDL-0.001)	BDL (MDL-0.001)	BDL (MDL-0.001)	

--Test Results End --

Prescribed Limit Environmental (Protection) Rules-1986, Schedule VII.
Operational Status Unit was Operational During sampling.

Analysed by - Vishal Mangraj



Reviewed by
(B.N. Kumar)
Technical Head

Issue by
(Umesh Das)
Laboratory Head
Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand

Contractual Notes | 1. The laboratory accepts responsibility for content of this report | 2. Test performed at laboratory's permanent facility at specific environmental condition as method required and results relate only to the sample tested in prescribed Date & time | 3. The Test report shall not be reproduced full or in part & can't be used as proof in the court of law. | 4. Any complaint about this report should be communicated in writing within 10 days of its issue | 5. Total liability of EPIC LabTech Pvt. Ltd. will be limited to invoiced amount only. | 6. All disputes are subjected to Ranchi Jurisdiction and maximum liability of the laboratory does not exceed the testing and sampling charges | 7. Opinion does not imply endorsement of the tested product by laboratory. Under no circumstances, laboratory accepts any caused by use or misuse of this report. | 8. When the results are from external provider are marked as * mark. |
Abbreviation - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation).



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Road No. - 5, Ranchi,
Jharkhand - 834005, India

0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685
PAN:-AAHCE3611M
GST:-20AAHCE3611M12X

Accredited by :-
Jharkhand State Pollution Control Board
Certified by :-
ISO 9001:2015 and ISO 45001:2018

Analytical Test Certificate

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03202542044	Group	Atmospheric Pollution
Issue date/time	23.10.2025/ 17:18	Sub Group	Ambient Air Quality

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0320	Sample Booking Number	EPIC-2542044
Sample(s) Code	2542044 (A) (B) (C)	Sample Receipt (D/T)	18.10.2025/ 11:18

Sampling References

Type of Industry	Bauxite Mine	Ref. of Sampling Plan	EPIC/LAB/R/036
Sampling Start (D/T)	16.10.2025/ 10:42	Sampling End (D/T)	17.10.2025/ 08:55
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	IS 5182 and CPCB Air Manual Volume - 1 (NAAQM/36/2012-13)		
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	26	Humidity %	51	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50" / 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92" / 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06" / 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73" / 84° 35' 11.16"

Date(s) of performance of the laboratory activities

Test start date	18.10.2025/ 11:38	Test completion date	23.10.2025/ 16:00
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--Test Results--

Sl	Test Parameters	Method used	Unit	Results				Limits
				A	B	C	D	
1.	Benzene (C ₆ H ₆)	IS:5182(P-11) 2006	µg/m ³	BDL (MDL-0.1)	BDL (MDL-0.1)	BDL (MDL-0.1)	BDL (MDL-0.1)	-
2.	Benzo (a) Pyrene (Bap)- Particulate phase only	IS:5182(P-12) 2004	ng/m ³	BDL (MDL-0.1)	BDL (MDL-0.1)	BDL (MDL-0.1)	BDL (MDL-0.1)	-
3.	Carbon Monoxide (CO)	EPIC/LAB/SOP/AP/01/00	mg/m ³	BDL (MDL-1.8)	BDL (MDL-1.8)	BDL (MDL-1.8)	BDL (MDL-1.8)	-

--Test Results End--

Prescribed Limit Environmental (Protection) Rules-1986, Schedule VII.

Operational Status Unit was Operational During sampling.

Analysed by - Vishal Mangraj



Reviewed by
(B.N. Kumar)
Technical Head





EPIC LabTech Private Limited



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C/O - R.K. Tripathi, Indrapuri,
Road No. - 5, Ranichi,
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0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

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PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZK

Accredited by -
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Jharkhand State Pollution Control Board
Certified by -
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TC-12887

Analytical Test Report

Unique Lab Report No.	TC1288725000001445	Discipline	Chemical
Report Unique ID	RL03602547021	Group	Atmospheric Pollution
Issue date/time	22.11.2025/ 16:18	Sub Group	Ambient Air Quality

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person	Mr. Girija Tamrakar
Contact Number	+91 9111006074
Email Id	girija.tamrakar@adityabirla.com
Order Date	31.03.2025/ 10:10
Order Number	13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0360	Sample Booking Number	EPIC-2547021
Sample(s) Code	2547021 (A) (B) (C) (D)	Sample Receipt (D/T)	17.11.2025/ 13:14

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	15.11.2025/ 11:45	Sampling End (D/T)	16.11.2025/ 08:50
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	25	Humidity %	68	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50"/ 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92"/ 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06"/ 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73"/ 84° 35' 11.16"

Date(s) of performance of the laboratory activities

Test start date	17.11.2025/ 13:40	Test completion date	22.11.2025/ 11:40
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--Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits <small>Subsidiary</small>
					A	B	C	D	
1.	Particulate Matter (PM ₁₀)	IS:5182 (P-23) 2022	µg/m ³	10	51.89	54.77	55.65	57.46	300 (24 hr)
2.	Fine Particulate Matter (PM _{2.5})	IS 5182 (P-24) 2019	µg/m ³	8	26.18	27.14	28.98	29.23	60 (24 hr)
3.	Sulphur Dioxide (SO ₂)	IS:5182 (P-02) 2023	µg/m ³	5	07.88	06.70	07.65	07.82	80 (24 hr)
4.	Nitrogen Dioxide (NO ₂)	IS:5182 (P-06) 2022	µg/m ³	5	18.50	17.64	19.70	18.14	90 (24 hr)
5.	Ozone (O ₃)	IS:5182 (P-09) 2019	µg/m ³	10	18.89	17.49	17.14	16.44	180 (1 hr)
6.	Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	10	27.84	27.54	27.24	28.44	400 (24 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m ³	0.1	BDL	BDL	BDL	BDL	1.0 (24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m ³	5	BDL	BDL	BDL	BDL	-
9.	Arsenic (As)	USEPA IO 3.2:1999	ng/m ³	2	BDL	BDL	BDL	BDL	-

--Test Results End--

Prescribed Limit Environmental (Protection) Rules-1986, Schedule-VII.

Analysed by - Rajesh Varma



Reviewed by
(B.N. Kumar)
Technical Head

Test Report End

Issue by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand

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Abbreviation: - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation).



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Road No. - 5, Ranchi,
Jharkhand - 834005, India

0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

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Accredited by:-
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Certified by:-
ISO 9001:2015 and ISO 45001:2018

Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03602547021	Group	Atmospheric Pollution
Issue date/time	22.11.2025/ 16:18	Sub Group	Ambient Air Quality

Report Issue to	M/s - HINDALCO INDUSTRIES LIMITED VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA, DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302 MONITORING SITE: HISRI BAUXITE MINE	Contact Person	Mr. Girija Tamrakar
		Contact Number	+91 9111006074
		Email Id	girija.tamrakar@adityabirla.com
		Order Date	31.03.2025/ 10:10
		Order Number	13612313868

References of Quality Management System (Steps of Traceability Chain)			
Customer Registration No.	EPIC/OTH/0360	Sample Booking Number	EPIC-2547021
Sample(s) Code	2547021 (A) (B) (C) (D)	Sample Receipt (D/T)	17.11.2025/ 13:14

Sampling References			
Type of industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	15.11.2025/ 11:45	Sampling End (D/T)	16.11.2025/ 08:50
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling			
Weather condition	Cloudy	Temperature (°C)	25
		Humidity %	68
		Wind direction	0°-180°

Sampling Location(s) with GPS coordinate(s)			
S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50"/ 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92"/ 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06"/ 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73"/ 84° 35' 11.16"

Date(s) of performance of the laboratory activities			
Test start date	17.11.2025/ 13:40	Test completion date	22.11.2025/ 11:40

--Test Results Start--									
Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits <small>(Below -0)</small>
					A	B	C	D	
1.	Benzene (as C ₆ H ₆)	IS 5182 (P-11): 2006	µg/m ³	1	BDL	BDL	BDL	BDL	-
2.	Benzo(a) Pyrene (BaP) <small>Particulate Phase</small>	IS 5182 (P-12): 2004	ng/m ³	0.5	BDL	BDL	BDL	BDL	-
3.	Carbon Monoxide (CO)	EPIC/LAB/SOP/AP/01	mg/m ³	1.8	BDL	BDL	BDL	BDL	-

--Test Results End--

Prescribed Limit Environmental (Protection) Rules-1986, Schedule -VII.

Analysed by - Rajesh Varma

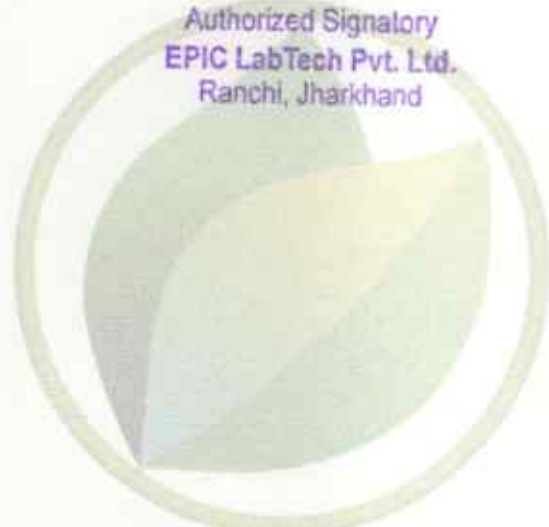


[Signature]
Reviewed by
(B.N. Kumar)
Technical Head

Test Report End

[Signature]
Issue by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



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Abbreviation: - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation). |



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Road No. - 5, Ranchi,
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☎ 98357 86677
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Jharkhand State Pollution Control Board
Certified by -
ISO 9001:2015 and ISO 45001:2018

TC-12887

Analytical Test Report

Unique Lab Report No.	TC1288725000001446	Discipline	Chemical
Report Unique ID	RL03602547022	Group	Water
Issue date/time	22.11.2025/16:21	Sub Group	Drinking Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA, DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302 MONITORING SITE: HISRI BAUXITE MINE	Contact Person Contact Number Email Id Order Date Order Number	<i>Mr. Girija Tamrakar</i> <i>+91 9111006074</i> <i>girija.tamrakar@adityabirfa.com</i> <i>31.03.2025/10:10</i> <i>13612313868</i>
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References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0360	Sample Booking Number	EPIC-2547022
Sample(s) Code	2547022	Sample Receipt (D/T)	17.11.2025/13:19

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	15.11.2025/14:20	Sampling End (D/T)	15.11.2025/14:30
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	25	Humidity %	68	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Administrative Office	GPS coordinate	23° 29' 04.93"/84° 35' 47.01"
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Date(s) of performance of the laboratory activities

Test start date	17.11.2025/14:15	Test completion date	22.11.2025/12:25
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--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits	
						Acceptable Limit	Permissible limit
1.	pH value at 25°C	IS 3025 (P-11) 2022	-	0.7	6.7	6.5-8.5	No relaxation
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	0.41	1	5
3.	Colour	IS 3025 (P-04) 2021	Hazen	5.0	5	5	15
4.	Odour	IS 3025 (P-05) 2018	-	-	Agreeable	Agreeable	Agreeable
5.	Taste	IS 3025 (P-07) 2017	-	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolved Solids (TDS)	IS 3025 (P-16) 2023	mg/l	10	160.0	500	2000
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	10.51	250	1000
8.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23) 2019	mg/l	10	43.0	200	600
9.	Total Hardness (as CaCO ₃)	IS 3025 (P-21) 2009	mg/l	10	67.0	200	600
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	BDL	75	200
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	0.2	1
12.	Sulphate (as SO ₄)	IS 3025 (P-24/Sec-1)2022	mg/l	0.3	1.77	200	400
13.	Nitrate (as NO ₃)	APHA 4500 B 2023	mg/l	0.4	1.00	45	No relaxation
14.	Phenolic Compound	IS 3025 (P-43/Sec-1) 2022	mg/l	0.001	BDL	0.001	0.002
15.	Magnesium (as Mg)	APHA 3500 Mg E 2023	mg/l	0.3	10.86	30	100



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TC-12887

Analytical Test Report

Unique Lab Report No.	TC1288725000001446	Discipline	Chemical
Report Unique ID	RL03602547022	Group	Water
Issue date/time	22.11.2025/16:21	Sub Group	Drinking Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/10:10
Order Number 13612313868

Group - Residues and Contaminants in Water,

Sub Group - Trace Metals Elements

Sl. No.	Contaminant	Method	Unit	Result	Standard	Remarks
16.	Copper (as Cu)	APHA 3111 B 2023	mg/l	0.1	BDL	0.05
17.	Iron (as Fe)	APHA 3111 B 2023	mg/l	0.1	BDL	1.0
18.	Lead (as Pb)	APHA 3111 B 2023	mg/l	0.01	BDL	0.01
19.	Cadmium (as Cd)	APHA 3111 B 2023	mg/l	0.003	BDL	0.003
20.	Total Chromium (as Cr)	APHA 3111 B 2023	mg/l	0.01	BDL	0.05
21.	Nickel (as Ni)	APHA 3111 B 2023	mg/l	0.02	BDL	0.02
22.	Total Arsenic (as As)	APHA 3114 B 2023	mg/l	0.005	BDL	0.01
23.	Selenium (as Se)	APHA 3114 B 2023	mg/l	0.005	BDL	0.01
24.	Manganese (as Mn)	APHA 3111 B 2023	mg/l	0.09	BDL	0.1
25.	Zinc (as Zn)	APHA 3111 B 2023	mg/l	0.04	BDL	5

--Test Result End--

Prescribed Limit IS 10500:2012

Analysed by - Pappu Kumar



Reviewed by
(B.N. Kumar)
Technical Head

Test Report End

Issued by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand





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Address:-
C/o - R.X. Tripathi, Indrapuri,
Road No. - 5, Ranchi,
Jharkhand - 834005, India

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📞 98357 86677
📞 93049 73994
✉ epiclabtech@gmail.com

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PAN:-AAHCE3611M
GST:-20AAHCE3611MTZX

Accredited by :-
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Certified by :-
ISO 9001:2015 and ISO 45001:2018

Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03602547022	Group	Water
Issue date/time	22.11.2025/ 16:21	Sub Group	Drinking Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person - Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0360	Sample Booking Number	EPIC-2547022
Sample(s) Code	2547022	Sample Receipt (D/T)	17.11.2025/ 13:19

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	15.11.2025/ 14:20	Sampling End (D/T)	15.11.2025/ 14:30
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	25	Humidity %	68	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Administrative Office	GPS coordinate	23° 29' 04.93"/ 84° 35' 47.01"
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Date(s) of performance of the laboratory activities

Test start date	17.11.2025/ 14:15	Test completion date	22.11.2025/ 12:25
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--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits	
						Acceptable Limit	Permissible limit
1.	Fluoride (as F)	APHA 4500 F-C 2023	mg/l	0.1	BDL	1.0	1.5
Group-Residues and Contaminants in Water						Sub Group-Trace Metals Elements	
2.	Aluminum	IS 3025 (P-55):2019	mg/l	0.1	BDL	0.03	0.2
3.	Boron	IS 3025 (P-57):2021	mg/l	0.1	BDL	0.5	1.0
4.	Polychlorinated biphenyls	EPIC/LAB/SOP/WA/01/00	µg/l	0.2	BDL	0.5	No relaxation
5.	Polynuclear Aromatic Hydrocarbons (PAH)	EPIC/LAB/SOP/WA/01/00	µg/l	0.05	BDL	0.1	No relaxation
Group-Residues and Contaminants in Water						Sub Group-Pesticides	
6.	Alachlor	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	20	No relaxation
7.	Atrazine	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	2.0	No relaxation
8.	Dieldrin	EPIC/LAB/SOP/WA/01/00	µg/l	0.02	BDL	0.03	No relaxation
9.	Alpha HCH	EPIC/LAB/SOP/WA/01/00	µg/l	0.005	BDL	0.01	No relaxation
10.	Beta HCH	EPIC/LAB/SOP/WA/01/00	µg/l	0.02	BDL	0.04	No relaxation
11.	Butachlor	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	125.0	No relaxation
12.	Chlopyriphos	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	30.0	No relaxation
13.	Delta HCH	EPIC/LAB/SOP/WA/01/00	µg/l	0.02	BDL	0.04	No relaxation



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93049 73994
epiclabtech@gmail.com

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PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZX

Accredited by:-
Jharkhand State Pollution Control Board
Certified by:-
ISO 9001:2015 and ISO 45001:2018

Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03602547022	Group	Water
Issue date/time	22.11.2025/ 16:21	Sub Group	Drinking Water

Report Issue to		Contact Person	Mr. Girija Tamrakar
M/s - HINDALCO INDUSTRIES LIMITED		Contact Number	+91 9111006074
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA, DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302		Email Id	girija.tamrakar@adityabirla.com
MONITORING SITE: HISRI BAUXITE MINE		Order Date	31.03.2025/ 10:10
		Order Number	13612313868

Sl. No.	Parameter	Method	Unit	Value	Limit	Remarks
14.	Ethion	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	3.0 No relaxation
15.	Gamma- HCH(Lindane)	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	2.0 No relaxation
16.	Malathion	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	190.0 No relaxation
17.	Methyl parathion	EPIC/LAB/SOP/WA/01/00	µg/l	0.2	BDL	0.3 No relaxation
18.	Monocrotophos	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	1.0 No relaxation
19.	Phorate	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	2.0 No relaxation
20.	DDT (o, p and p, p-isomer of DDT, DDE and DDD)	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	1.0 No relaxation
21.	Endosulfan (alpha, beta, and sulphate)	EPIC/LAB/SOP/WA/01/00	µg/l	0.05	BDL	0.4 No relaxation

--Test Result End --

Prescribed Limit IS 10500:2012
Analysed by - Pappu Kumar



B.N. Kumar
Reviewed by
(B.N. Kumar)
Technical Head
Test Report End

Umesh Das
Issued by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



Contractual Notes | 1. The laboratory accepts responsibility for content of this report | 2. Test performed at laboratory's permanent facility at specific environmental condition as method required and results relate only to the sample tested in prescribed Date & time | 3. The Test report shall not be reproduced full or in part & can't be used as proof in the court of law. | 4. Any complaint about this report should be communicated in writing within 10 days of its issue | 5. Total liability of EPIC LabTech Pvt. Ltd. will be limited to invoiced amount only. | 6. All disputes are subjected to Ranchi Jurisdiction and maximum liability of the laboratory does not exceed the testing and sampling charges | 7. Opinion does not imply endorsement of the tested product by laboratory. Under no circumstances, laboratory accepts any caused by use or misuse of this report. | 8. When the results are from external provider are marked as * mark. |
Abbreviation: - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation). |



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98357 86677
93049 73994
epiclabtech@gmail.com

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GST:-20AAHCE3611M1ZX

Accredited by:-
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Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Biological
Report Unique ID	RL03602547023	Group	Water
Issue date/time	22.11.2025/ 16:24	Sub Group	Drinking Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED

VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302

MONITORING SITE: HISRI BAUXITE MINE

Contact Person	Mr. Girija Tamrakar
Contact Number	+91 9111006074
Email Id	girija.tamrakar@adityabirla.com
Order Date	31.03.2025/ 10:10
Order Number	13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0360	Sample Booking Number	EPIC-2547023
Sample(s) Code	2547023	Sample Receipt (D/T)	17.11.2025/ 13:21

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	15.11.2025/ 14:20	Sampling End (D/T)	15.11.2025/ 14:30
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	25	Humidity %	68	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Administrative Office	GPS coordinate	23° 29' 04.93"/ 84° 35' 47.01"
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Date(s) of performance of the laboratory activities

Test start date	17.11.2025/ 16:04	Test completion date	22.11.2025/ 13:00
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--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	Total Coliform	IS 15185 2002	Per 100 ml	1.1	Not Detected	Shall not be detectable in any 100 ml sample
2.	E.Coli	IS 15185 2002	Per 100 ml	1.1	Not Detected	

--Test Result End --

Prescribed Limit IS 10500:2012

Analysed by - Ishika Singh




Reviewed by
(B.N. Kumar)
Technical Head

Test Report End


Issued by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



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98357 86677
93049 73994
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Jharkhand State Pollution Control Board
Certified by -
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TC-12887

Analytical Test Report

Unique Lab Report No.	TC1288725000001447	Discipline	Chemical
Report Unique ID	RL03602547024	Group	Water
Issue date/time	22.11.2025/ 16:27	Sub Group	Ground Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED

VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302

MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0360	Sample Booking Number	EPIC-2547024
Sample(s) Code	2547024	Sample Receipt (D/T)	17.11.2025/ 13:22

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	15.11.2025/ 15:40	Sampling End (D/T)	15.11.2025/ 15:50
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	25	Humidity %	68	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Old Rest Shelter	GPS coordinate	23° 28' 43.73"/ 84° 35' 11.16"
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Date(s) of performance of the laboratory activities

Test start date	17.11.2025/ 13:42	Test completion date	22.11.2025/ 12:40
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--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits	
						Acceptable Limit	Permissible limit
1.	pH value at 25°C	IS 3025 (P-11) 2022	-	0.7	6.9	6.5-8.5	No relaxation
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	0.81	1	5
3.	Colour	IS 3025 (P-04) 2021	Hazen	5.0	5	5	15
4.	Odour	IS 3025 (P-05) 2018	-	-	Agreeable	Agreeable	Agreeable
5.	Taste	IS 3025 (P-07) 2017	-	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolved Solids (TDS)	IS 3025 (P-16) 2023	mg/l	10	200.0	500	2000
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	12.63	250	1000
8.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23) 2019	mg/l	10	70.0	200	600
9.	Total Hardness (as CaCO ₃)	IS 3025 (P-21) 2009	mg/l	10	95.0	200	600
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	11.01	75	200
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	0.2	1
12.	Sulphate (as SO ₄)	IS 3025 (P-24/Sec-1) 2022	mg/l	0.3	3.01	200	400
13.	Nitrate (as NO ₃)	APHA 4500 B 2023	mg/l	0.4	1.22	45	No relaxation
14.	Phenolic Compound	IS 3025 (P-43/Sec-1) 2022	mg/l	0.001	BDL	0.001	0.002
15.	Magnesium (as Mg)	APHA 3500 Mg E 2023	mg/l	0.3	16.43	30	100



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Analytical Test Report

Unique Lab Report No.	TC1288725000001447	Discipline	Chemical
Report Unique ID	RL03602547024	Group	Water
Issue date/time	22.11.2025/ 16:27	Sub Group	Ground Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person - Mr. Girija Tamrakar
Contact Number - +91 9111006074
Email Id - girija.tamrakar@adityabirla.com
Order Date - 31.03.2025/ 10:10
Order Number - 13612313868

Group - Residues and Contaminants in Water,					Sub Group - Trace Metals Elements		
16.	Copper (as Cu)	APHA 3111 B 2023	mg/l	0.1	BDL	0.05	1.5
17.	Iron (as Fe)	APHA 3111 B 2023	mg/l	0.1	BDL	1.0	No relaxation
18.	Lead (as Pb)	APHA 3111 B 2023	mg/l	0.01	BDL	0.01	No relaxation
19.	Cadmium (as Cd)	APHA 3111 B 2023	mg/l	0.003	BDL	0.003	No relaxation
20.	Total Chromium (as Cr)	APHA 3111 B 2023	mg/l	0.01	BDL	0.05	No relaxation
21.	Nickel (as Ni)	APHA 3111 B 2023	mg/l	0.02	BDL	0.02	No relaxation
22.	Total Arsenic (as As)	APHA 3114 B 2023	mg/l	0.005	BDL	0.01	0.05
23.	Selenium (as Se)	APHA 3114 B 2023	mg/l	0.005	BDL	0.01	No relaxation
24.	Manganese (as Mn)	APHA 3111 B 2023	mg/l	0.09	BDL	0.1	0.3
25.	Zinc (as Zn)	APHA 3111 B 2023	mg/l	0.04	BDL	5	15

--Test Result End --

Prescribed Limit IS 10500:2012
Analysed by - Pappu Kumar



Reviewed by
(B.N. Kumar)
Technical Head

Test Report End

Issued by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



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Abbreviations: - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation).



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Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03602547024	Group	Water
Issue date/time	22.11.2025/ 16:27	Sub Group	Ground Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0360	Sample Booking Number	EPIC-2547024
Sample(s) Code	2547024	Sample Receipt (D/T)	17.11.2025/ 13:22

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	15.11.2025/ 15:40	Sampling End (D/T)	15.11.2025/ 15:50
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	25	Humidity %	68	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Old Rest Shelter	GPS coordinate	23° 28' 43.73" / 84° 35' 11.16"
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Date(s) of performance of the laboratory activities

Test start date	17.11.2025/ 13:42	Test completion date	22.11.2025/ 12:40
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--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits	
						Acceptable Limit	Permissible Limit
1.	Fluoride (as F)	APHA 4500 F-C 2023	mg/l	0.1	BDL	1.0	5
Group-Residues and Contaminants in Water						Sub Group-Trace Metals Elements	
2.	Aluminum	IS 3025 (P-55):2019	mg/l	0.1	BDL	0.03	0.2
3.	Boron	IS 3025 (P-57):2021	mg/l	0.1	BDL	0.5	1.0
4.	Polychlorinated biphenyls	EPIC/LAB/SOP/WA/01/00	µg/l	0.2	BDL	0.5	No relaxation
5.	Polynuclear Aromatic Hydrocarbons (PAH)	EPIC/LAB/SOP/WA/01/00	µg/l	0.05	BDL	0.1	No relaxation
Group-Residues and Contaminants in Water						Sub Group-Pesticides	
6.	Alachlor	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	20	No relaxation
7.	Atrazine	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	2.0	No relaxation
8.	Dieldrin	EPIC/LAB/SOP/WA/01/00	µg/l	0.02	BDL	0.03	No relaxation
9.	Alpha HCH	EPIC/LAB/SOP/WA/01/00	µg/l	0.005	BDL	0.01	No relaxation
10.	Beta HCH	EPIC/LAB/SOP/WA/01/00	µg/l	0.02	BDL	0.04	No relaxation
11.	Butachlor	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	125.0	No relaxation
12.	Chlopyrifos	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	30.0	No relaxation
13.	Delta HCH	EPIC/LAB/SOP/WA/01/00	µg/l	0.02	BDL	0.04	No relaxation



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Certified by :-
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Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03602547024	Group	Water
Issue date/time	22.11.2025/ 16:27	Sub Group	Ground Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person
Contact Number
Email Id
Order Date
Order Number
Mr. Girija Tamrakar
+91 9111006074
girija.tamrakar@adityabirla.com
31.03.2025/ 10:10
13612313868

Sl. No.	Parameter	Method	Unit	Concentration	Standard	Relaxation
14.	Ethion	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	3.0 No relaxation
15.	Gamma- HCH(Lindane)	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	2.0 No relaxation
16.	Malathion	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	190.0 No relaxation
17.	Methyl parathion	EPIC/LAB/SOP/WA/01/00	µg/l	0.2	BDL	0.3 No relaxation
18.	Monocrotophos	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	1.0 No relaxation
19.	Phorate	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	2.0 No relaxation
20.	DDT (o, p and p, p-isomer of DDT, DDE and DDD)	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	1.0 No relaxation
21.	Endosulfan (alpha, beta, and sulphate)	EPIC/LAB/SOP/WA/01/00	µg/l	0.05	BDL	0.4 No relaxation

--Test Result End --

Prescribed Limit IS 10500:2012

Analysed by - Pappu Kumar



Reviewed by
(B.N. Kumar)
Technical Head

Test Report End

Issued By
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand





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Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Biological
Report Unique ID	RL03602547025	Group	Water
Issue date/time	22.11.2025/ 16:30	Sub Group	Ground Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0360	Sample Booking Number	EPIC-2547025
Sample(s) Code	2547025	Sample Receipt (D/T)	17.11.2025/ 13:22

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	15.11.2025/ 15:40	Sampling End (D/T)	15.11.2025/ 15:50
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition Cloudy Temperature (°C) 25 Humidity % 68 Wind direction 0°-180°

Sampling Location(s) with GPS coordinate(s)

S. Location A Near Old Rest Shelter GPS coordinate 23° 28' 43.73" / 84° 35' 11.16"

Date(s) of performance of the laboratory activities

Test start date 17.11.2025/ 13:42 Test completion date 22.11.2025/ 13:00

--Test Result Start--

Sl.	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	Total Coliform	IS 15185 2002	Per 100 ml	1.1	Not Detected	Shall not be detectable in any 100 ml sample
2.	E. Coli	IS 15185 2002	Per 100 ml	1.1	Not Detected	

--Test Result End--

Prescribed Limit IS 10500:2012

Analysed by - Ishika Singh



Reviewed by
(B.N. Kumar)
Technical Head

Test Report End

Issued by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



EPIC LabTech Private Limited



Address:-
C/o - R.K. Tripathi, Indrapuri,
Road No. - 5, Ranchi,
Jharkhand - 834005, India

0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685
PAN:-AAHCE3611M
GST:-29AAHCE3611MTZX

Accredited by :-
NABL vice certificate Number TC- 12887
Jharkhand State Pollution Control Board
Certified by :-
ISO 9001:2015 and ISO 45001:2018

Analytical Test Report

Unique Lab Report No.	TC1288725000001653	Discipline	Chemical
Report Unique ID	RL03982552001	Group	Atmospheric Pollution
Issue date/time	24.12.2025/ 17:00	Sub Group	Ambient Air Quality

Report Issue to	Contact Person	Mr. Girija Tamrakar
M/s - HINDALCO INDUSTRIES LIMITED	Contact Number	+91 9111006074
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,	Email Id	girija.tamrakar@adityabirla.com
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302	Order Date	31.03.2025/ 10:10
MONITORING SITE: HISRI BAUXITE MINE	Order Number	13612313868

References of Quality Management System (Steps of Traceability Chain)			
Customer Registration No.	EPIC/OTH/0398	Sample Booking Number	EPIC-2552001
Sample(s) Code	2552001 (A) (B) (C) (D)	Sample Receipt (D/T)	22.12.2025/ 10:41

Sampling References			
Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	19.12.2025/ 10:00	Sampling End (D/T)	20.12.2025/ 08:30
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample Receipt sample(s) were fit for analysis.			

Environmental Condition during sampling							
Weather condition	Cloudy	Temperature (°C)	22	Humidity %	66	Wind direction	0°-180°

Sampling Location(s) with GPS coordinate(s)			
S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50"/84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92"/84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06"/84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73"/84° 35' 11.16"

Date(s) of performance of the laboratory activities			
Test start date	22.12.2025/ 11:00	Test completion date	24.12.2025/ 14:30

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Particulate Matter (PM ₁₀)	IS:5182 (P-23) 2022	µg/m ³	10	53.16	56.23	57.43	59.38	100 (24 hr)
2.	Fine Particulate Matter (PM _{2.5})	IS 5182 (P-24) 2019	µg/m ³	8	28.40	28.98	29.00	31.29	60 (24 hr)
3.	Sulphur Dioxide (SO ₂)	IS:5182 (P-02) 2023	µg/m ³	5	09.14	08.00	09.25	09.49	80 (24 hr)
4.	Nitrogen Dioxide (NO ₂)	IS:5182 (P-06) 2022	µg/m ³	6	19.92	19.12	21.70	20.34	80 (24 hr)
5.	Ozone (O ₃)	IS:5182 (P-09) 2019	µg/m ³	10	20.13	19.05	19.41	18.33	180 (1 hr)
6.	Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	10	29.94	30.24	30.53	31.40	400 (24 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m ³	0.1	BDL	BDL	BDL	BDL	1.0 (24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m ³	5	BDL	BDL	BDL	BDL	-
9.	Arsenic (As)	USEPA IO 3.2-1999	ng/m ³	2	BDL	BDL	BDL	BDL	-

Prescribed Limit Environmental (Protection) Rules-1986, Schedule -VII.
Analysed by - Rajesh Varma



[Signature]
Reviewed by
(B.K. Kumar)
Technical Head

Test Report End

[Signature]
Issue by
(Omish Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand

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Abbreviation: - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation). |



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Address:-
C/o - R.K. Tripathi, Indrapuri,
Road No. - 5, Ranchi,
Jharkhand - 834005, India

9651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019683
PAN:-AAHCE3611M
GST:-20AAHCE3611M1Zx

Accredited by ->
Jharkhand State Pollution Control Board
Certified by ->
ISO 9001:2015 and ISO 45001:2018

Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03982552001	Group	Atmospheric Pollution
Issue date/time	24.12.2025/ 17:00	Sub Group	Ambient Air Quality

Report issue to	M/s - HINDALCO INDUSTRIES LIMITED VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA, DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302 MONITORING SITE: HISRI BAUXITE MINE	Contact Person	Mr. Girija Tamrakar
		Contact Number	+91 9111006074
		Email Id	girija.tamrakar@adityabirla.com
		Order Date	31.03.2025/ 10:10
		Order Number	13612313868

References of Quality Management System (Steps of Traceability Chain)			
Customer Registration No.	EPIC/OTH/0398	Sample Booking Number	EPIC-2552001
Sample(s) Code	2552001 (A) (B) (C) (D)	Sample Receipt (D/T)	22.12.2025/ 10:41

Sampling References			
Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	19.12.2025/ 10:00	Sampling End (D/T)	20.12.2025/ 08:30
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling							
Weather condition	Cloudy	Temperature (°C)	22	Humidity %	66	Wind direction	0°-180°

Sampling Location(s) with GPS coordinate(s)			
S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50"/84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92"/84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06"/84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73"/84° 35' 11.16"

Date(s) of performance of the laboratory activities			
Test start date	22.12.2025/ 11:00	Test completion date	24.12.2025/ 14:30

--Test Results Start--									
Sl	Tested Parameters	Method used	Unit	LoQ	A	B	C	D	Limits
1.	Benzene (as C ₆ H ₆)	IS 5182 (P-11): 2006	µg/m ³	1	BDL	BDL	BDL	BDL	-
2.	Benzo(a) Pyrene (BaP) <small>Particulate Phase</small>	IS 5182 (P-12): 2004	ng/m ³	0.5	BDL	BDL	BDL	BDL	-
3.	Carbon Monoxide (CO)	EPIC/LAB/SOP/AP/01	mg/m ³	1.8	BDL	BDL	BDL	BDL	-
--Test Results End --									

Prescribed Limit Environmental (Protection) Rules-1986, Schedule -VII.
Analysed by - Rajesh Varma



Reviewed by
(R.N. Kumar)
Technical Head

Test Report End

Issue By
(Ramesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



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Abbreviation: - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation).



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Address-
C/o - R.K. Tripathi, Indrapuri,
Road No. - 5, Ranchi,
Jharkhand - 834005, India

0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685
PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZX

Accredited by :-
NABL, vide certificate Number TC-12887
Jharkhand State Pollution Control Board
Certified by :-
ISO 9001:2015 and ISO 45001:2018

Analytical Test Report

Unique Lab Report No.	TC1288725000001654	Discipline	Chemical
Report Unique ID	RL03982552002	Group	Atmospheric Pollution
Issue date/time	24.12.2025/ 17:03	Sub Group	Ambient Noise

Report Issue to	M/s - HINDALCO INDUSTRIES LIMITED VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA, DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302 MONITORING SITE: HISRI BAUXITE MINE	Contact Person	Mr. Girija Tamrakar
		Contact Number	+91 9111006074
		Email Id	girija.tamrakar@adityabirla.com
		Order Date	31.03.2025/ 10:10
		Order Number	13612313868

References of Quality Management System (Steps of Traceability Chain)			
Customer Registration No.	EPIC/OTH/0398	Sample Booking Number	EPIC-2552002
Sample(s) Code	2552002 (A) (B) (C) (D)	Sample Receipt (D/T)	22.12.2025/ 10:42

Sampling References			
Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	19.12.2025/ 10:00	Sampling End (D/T)	20.12.2025/ 08:30
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling							
Weather condition	Cloudy	Temperature (°C)	22	Humidity %	66	Wind direction	0°-180°

Sampling Location(s) with GPS coordinate(s)			
S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50"/ 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92"/ 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06"/ 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73"/ 84° 35' 11.16"

Date(s) of performance of the laboratory activities			
Test start date	22.12.2025/ 11:00	Test completion date	24.12.2025/ 14:30

--Test Results Start--									
Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	L _{eq} (Day time)	IS: 9989:1981	dB (A)	30	48.6	44.3	50.5	53.6	75
2.	L _{eq} (Night time)	IS: 9989:1981	dB (A)	30	36.2	34.7	42.0	43.6	70

--Test Results End--	
Prescribed Limit	Environmental (Protection) Rules-1986, Schedule -III.

Analysed by - Rajesh Varma

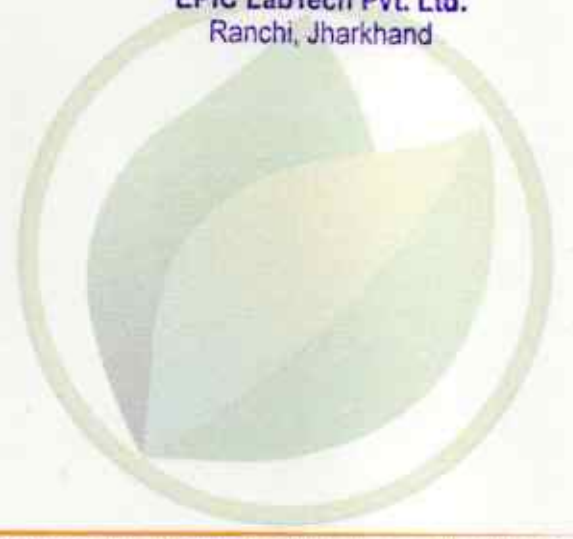


[Signature]
Reviewed by
(S.N. Kumar)
Technical Head

Test Report End

[Signature]
24/12/25
Issued by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



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Abbreviation - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation). |



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C/o - R.K. Tripathi, Indrapuri,
Road No. - 5, Ranchi,
Jharkhand - 834005, India

0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019585
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GST:-20AAHCE3611M12X

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Certified by -
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Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03982552003	Group	Atmospheric Pollution
Issue date/time	24.12.2025/ 17:06	Sub Group	Work Zone Noise

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0398	Sample Booking Number	EPIC-2552003
Sample(s) Code	2552003 (A) (B)	Sample Receipt (D/T)	22.12.2025/ 10:43

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D)	19.12.2025	Sampling End (D)	19.12.2025
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akash Kumar & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	22	Humidity %	66	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Southern Area	GPS coordinate	23° 28' 45.15" / 84° 35' 09.47"
S. Location B	Hisri New Bauxite Mines (14.55Ha)	GPS coordinate	23° 28' 43.52" / 84° 35' 11.84"

Date(s) of performance of the laboratory activities

Test start date	22.12.2025/ 11:00	Test completion date	24.12.2025/ 14:30
-----------------	-------------------	----------------------	-------------------

--Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results		Limits
					A	B	
1.	L _{eq} (Day time)	IS: 9989:1981	dB (A)	30	67.6	69.6	85

--Test Results End--

Prescribed Limit NIOSH - Publication No. 99-126 in 1972
Analysed by - Rajesh Varma



Reviewed by
(B.N. Kumar)
Technical Head

Test Report End

Issue by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



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Abbreviation: - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation).



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Address:-
Indrapuri, Road No. - 5,
Ranchi, Jharkhand - 834005,
India

0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685
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GST:-20AAHCE3611M12X

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(Jharkhand State Pollution Control Board)
Certified by :-
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Test Report



Unique Lab Report No.	TC1288726000000102	Discipline	Chemical
Report Unique ID	RL04272604018	Group	Atmospheric Pollution
Issue date/time	27.01.2026/ 12:00	Sub Group	Ambient Air Quality

Report Issue to		Contact Person	Mr. Girija Tamrakar
M/s - HINDALCO INDUSTRIES LIMITED		Contact Number	+91 9111006074
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,		Email Id	girija.tamrakar@adityabirla.com
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302		Order Date	31.03.2025/ 10:10
MONITORING SITE: HISRI BAUXITE MINE		Order Number	13612313868

References of Quality Management System (Steps of Traceability Chain)			
Customer Registration No.	EPIC/OTH/0427	Sample Booking Number	EPIC-2604018
Sample(s) Code	2604018 (A) (B) (C) (D)	Sample Receipt (D/T)	23.01.2026/ 11:03

Sampling References			
Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	21.01.2026/ 13:25	Sampling End (D/T)	22.01.2026/ 11:10
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rajesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling			
Weather condition	Cloudy	Temperature (°C)	22
		Humidity %	58
		Wind direction	320°-140°

Sampling Location(s) with GPS coordinate(s)			
S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50" / 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92" / 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06" / 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73" / 84° 35' 11.16"

Date(s) of performance of the laboratory activities			
Test start date	23.01.2026/ 12:15	Test completion date	27.01.2026/ 10:10

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Particulate Matter (PM ₁₀)	IS:5182 (P-23) 2022	µg/m ³	10	54.36	57.44	58.57	60.64	100 (24 hr)
2.	Fine Particulate Matter (PM _{2.5})	IS 5182 (P-24) 2019	µg/m ³	8	28.91	29.36	30.19	32.49	60 (24 hr)
3.	Sulphur Dioxide (SO ₂)	IS:5182 (P-02) 2023	µg/m ³	5	10.18	09.23	10.46	10.59	80 (24 hr)
4.	Nitrogen Dioxide (NO ₂)	IS:5182 (P-06) 2022	µg/m ³	6	20.61	20.31	22.42	22.06	80 (24 hr)
5.	Ozone (O ₃)	IS:5182 (P-09) 2019	µg/m ³	10	22.28	21.57	21.21	20.49	180 (1 hr)
6.	Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	10	30.82	31.11	31.40	32.56	400 (24 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m ³	0.1	BDL	BDL	BDL	BDL	1.0 (24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m ³	5	BDL	BDL	BDL	BDL	-
9.	Arsenic (As)	USEPA IO 3.2:1999	ng/m ³	2	BDL	BDL	BDL	BDL	-
10.	Benzene (as C ₆ H ₆)	IS 5182 (P-11): 2006	µg/m ³	1	BDL	BDL	BDL	BDL	-
11.	Benzo(a) Pyrene (BaP) <small>Particulate Phase</small>	IS 5182 (P-12): 2004	ng/m ³	0.5	BDL	BDL	BDL	BDL	-

Prescribed Limit	Environmental (Protection) Rules-1986, Schedule-VII.
Analyzed by - Rajesh Varma	



Reviewed by
(B.N. Kumar)
Technical Head

Issue by
(Vishesh Das)
Laboratory Head

****Test Report End****

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand

Contractual Notes | 1. The laboratory accepts responsibility for content of this report | 2. Test performed at laboratory's permanent facility at specific environmental condition as method required and results relate only to the sample tested in prescribed Date & time | 3. The Test report shall not be reproduced full or in part & can't be used as proof in the court of law | 4. Any complaint about this report should be communicated in writing within 10 days of its issue | 5. Total liability of EPIC LabTech Pvt. Ltd. will be limited to invoiced amount only | 6. All disputes are subjected to Ranchi Jurisdiction and maximum liability of the laboratory does not exceed the testing and sampling charges | 7. Opinion does not imply endorsement of the tested product by laboratory. Under no circumstances, laboratory accepts any caused by use or misuse of this report. | 8. When the results are from external provider are marked as * mark. |

Abbreviation: - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation). |

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Indrapuri, Road No. - 5,
Ranchi, Jharkhand - 834005,
India

☎ 0651 4666392
☎ 98357 86677
☎ 93049 73994
✉ epiclabtech@gmail.com

CIN:-U74999JH2022PTC018665
PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZK

Accredited by:-
Jharkhand State Pollution Control Board
Certified by:-
ISO 9001:2015 and ISO 45001:2018

Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04272604018	Group	Atmospheric Pollution
Issue date/time	27.01.2026/ 12:00	Sub Group	Ambient Air Quality

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0427	Sample Booking Number	EPIC-2604018
Sample(s) Code	2604018 (A) (B) (C) (D)	Sample Receipt (D/T)	23.01.2026/ 11:03

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	21.01.2026/ 13:25	Sampling End (D/T)	22.01.2026/ 11:10
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rajesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	22	Humidity %	58	Wind direction	320°-140°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50" / 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92" / 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06" / 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73" / 84° 35' 11.16"

Date(s) of performance of the laboratory activities

Test start date	23.01.2026/ 12:15	Test completion date	27.01.2026/ 10:10
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--Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Carbon Monoxide (CO)	EPIC/LAB/SOP/AP/01	mg/m ³	1.8	BDL	BDL	BDL	BDL	-

--Test Results End--

Prescribed Limit Environmental (Protection) Rules-1986, Schedule-VII,

Analysed by - Rajesh Varma


Reviewed by
(B.N. Kumar)
Technical Head


Issued by
(Umesh Das)
Laboratory Head

****Test Report End****

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



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Abbreviations: - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation). |



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PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZK

Accredited by :-
NABL, vide certificate Number TC-12887
Jharkhand State Pollution Control Board
Certified by :-
ISO 9001:2015 and ISO 45001:2018

Test Report



Unique Lab Report No.	TC1288726000000103	Discipline	Chemical
Report Unique ID	RL04272604019	Group	Water
Issue date/time	27.01.2026/ 12:03	Sub Group	Surface Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0427	Sample Booking Number	EPIC-2604019
Sample(s) Code	2604019	Sample Receipt (D/T)	23.01.2026/ 11:04

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	21.01.2026/ 15:30	Sampling End (D/T)	21.01.2026/ 15:50
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rajesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Clear	Temperature (°C)	22	Humidity %	58	Wind direction	320°-140°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Daldaliya Village (Spring Water)	GPS coordinate	23° 29' 06.60"/ 84° 35' 32.35"
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Date(s) of performance of the laboratory activities

Test start date	23.01.2026/ 11:24	Test completion date	27.01.2026/ 10:35
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--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	pH value at 25.1°C	IS 3025 (P-11) 2022	-	0.7	6.42	-
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	0.27	-
3.	Colour	IS 3025 (P-04) 2021	Hazen	5.0	5	-
4.	Odour	IS 3025 (P-05) 2018	-	-	Agreeable	-
5.	Taste	IS 3025 (P-07) 2017	-	-	Agreeable	-
6.	Total Dissolved Solids (TDS)	IS 3025 (P-16) 2023	mg/l	10	185.00	-
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	13.30	-
8.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23) 2019	mg/l	10	34.00	-
9.	Total Hardness (as CaCO ₃)	IS 3025 (P-21) 2009	mg/l	10	44.18	-
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	13.63	-
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.8	BDL	-
12.	Sulphate (as SO ₄)	IS 3025 (P-24/Sec-1) 2022	mg/l	0.3	2.10	-
13.	Nitrate (as NO ₃)	APHA 4500 B 2023	mg/l	0.4	1.86	-
14.	Phenolic Compound	IS 3025 (P-43/Sec-1) 2022	mg/l	0.001	BDL	-
15.	Magnesium (as Mg)	APHA 3500 Mg E 2023	mg/l	0.3	2.47	-



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98357 86677
93049 73994
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Jharkhand State Pollution Control Board
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Test Report



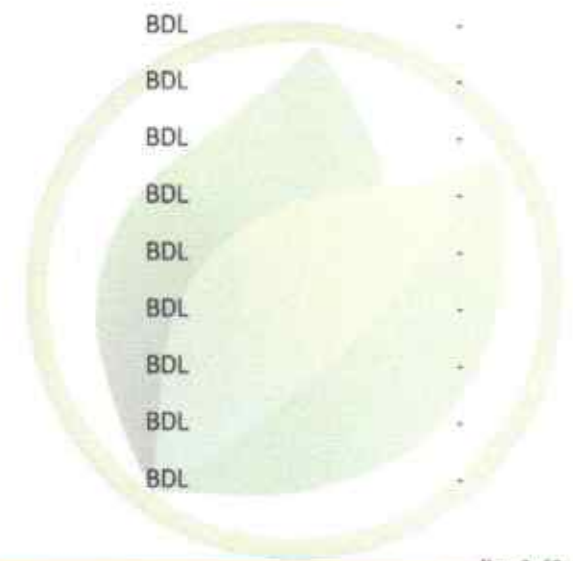
Unique Lab Report No.	TC1288726000000103	Discipline	Chemical
Report Unique ID	RL04272604019	Group	Water
Issue date/time	27.01.2026/ 12:03	Sub Group	Surface Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

Sl. No.	Parameter	Standard	Unit	Result	Sub Group
16.	Fluoride (as F)	APHA 4500 F-C 2023	mg/l	0.1	BDL
Group - Residues and Contaminants in Water, Sub Group - Trace Metals Elements					
17.	Copper (as Cu)	APHA 3111 B 2023	mg/l	0.1	BDL
18.	Iron (as Fe)	APHA 3111 B 2023	mg/l	0.1	BDL
19.	Lead (as Pb)	APHA 3111 B 2023	mg/l	0.01	BDL
20.	Cadmium (as Cd)	APHA 3111 B 2023	mg/l	0.003	BDL
21.	Total Chromium (as Cr)	APHA 3111 B 2023	mg/l	0.01	BDL
22.	Nickel (as Ni)	APHA 3111 B 2023	mg/l	0.02	BDL
23.	Total Arsenic (as As)	APHA 3114 B 2023	mg/l	0.005	BDL
24.	Selenium (as Se)	APHA 3114 B 2023	mg/l	0.005	BDL
25.	Manganese (as Mn)	APHA 3111 B 2023	mg/l	0.09	BDL
26.	Zinc (as Zn)	APHA 3111 B 2023	mg/l	0.04	BDL
Group - Residues and Contaminants in Water, Sub Group - Pesticides					
27.	a-BHC	USEPA 8081 B:2007	µg/l	0.1	BDL
28.	Aldrin	USEPA 8081 B:2007	µg/l	0.03	BDL
29.	b-BHC	USEPA 8081 B:2007	µg/l	0.1	BDL
30.	Cis-χlordane	USEPA 8081 B:2007	µg/l	0.1	BDL
31.	d-BHC	USEPA 8081 B:2007	µg/l	0.1	BDL
32.	dieldrin	USEPA 8081 B:2007	µg/l	0.1	BDL
33.	Endosulfan I	USEPA 8081 B:2007	µg/l	0.1	BDL
34.	Endosulfan Sulfate	USEPA 8081 B:2007	µg/l	0.1	BDL
35.	Endosulfan II	USEPA 8081 B:2007	µg/l	0.1	BDL
36.	Endrin aldehyde	USEPA 8081 B:2007	µg/l	0.1	BDL
37.	Endrin Ketone	USEPA 8081 B:2007	µg/l	0.1	BDL
38.	g-BHC	USEPA 8081 B:2007	µg/l	0.1	BDL
39.	Heptachlor	USEPA 8081 B:2007	µg/l	0.1	BDL





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0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

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Certified by -
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Test Report



Unique Lab Report No.	TC128872600000103	Discipline	Chemical
Report Unique ID	RL04272604019	Group	Water
Issue date/time	27.01.2026/ 12:03	Sub Group	Surface Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

Sl. No.	Parameter	Standard	Unit	Concentration	Result	Remarks
40.	Heptachlor epoxide isomer B	USEPA 8081 B:2007	µg/l	0.1	BDL	-
41.	Methoxychlor	USEPA 8081 B:2007	µg/l	0.1	BDL	-
42.	P,P-DDD	USEPA 8081 B:2007	µg/l	0.5	BDL	-
43.	P,P-DDE	USEPA 8081 B:2007	µg/l	0.5	BDL	-
44.	P,P-DDT	USEPA 8081 B:2007	µg/l	0.5	BDL	-
45.	transchlordane	USEPA 8081 B:2007	µg/l	0.1	BDL	-

--Test Result End--

Analysed by - Pappu Kumar



Reviewed by
(B.N. Kumar)
Technical Head

Issued by
(Limesh Das)
Laboratory Head

****Test Report End****

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



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Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04272604019	Group	Water
Issue date/time	27.01.2026/ 12:03	Sub Group	Surface Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person	Mr. Girija Tamrakar
Contact Number	+91 9111006074
Email Id	girija.tamrakar@adityabirla.com
Order Date	31.03.2025/ 10:10
Order Number	13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0427	Sample Booking Number	EPIC-2604019
Sample(s) Code	2604019	Sample Receipt (D/T)	23.01.2026/ 11:04

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	21.01.2026/ 15:30	Sampling End (D/T)	21.01.2026/ 15:50
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rajesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Clear	Temperature (°C)	22	Humidity %	58	Wind direction	320°-140°
-------------------	-------	------------------	----	------------	----	----------------	-----------

Sampling Location(s) with GPS coordinate(s)

S. Location A	Daldalya Village (Spring Water)	GPS coordinate	23° 29' 06.66"/ 84° 35' 32.35"
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Date(s) of performance of the laboratory activities

Test start date	23.01.2026/ 11:24	Test completion date	27.01.2026/ 10:35
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--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	Polychlorinated biphenyls	EPIC/LAB/SOP/WA/01/00	µg/l	0.2	BDL	-
2.	Polynuclear Aromatic Hydrocarbons (PAH)	EPIC/LAB/SOP/WA/01/00	µg/l	0.05	BDL	-
Group-Residues and Contaminants in Water						Sub Group- Trace Metals Elements
3.	Aluminum	IS 3025 (P-55):2019	mg/l	0.1	BDL	-
4.	Boron	IS 3025 (P-57):2021	mg/l	0.1	BDL	-

--Test Result End--

Analysed by - Pappu Kumar




Reviewed by
(B.N. Kumar)
Technical Head

****Test Report End****


Issued by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand

EPIC LabTech Private Limited



Address -
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Ranchi, Jharkhand - 834005,
India

0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

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Accredited by -
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Certified by -
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Test Report

Unique Lab Report No.	N/A	Discipline	Biological
Report Unique ID	RL04272604020	Group	Water
Issue date/time	27.01.2026/ 12:06	Sub Group	Surface Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0427	Sample Booking Number	EPIC-2604019
Sample(s) Code	2604019	Sample Receipt (D/T)	23.01.2026/ 11:05

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	21.01.2026/ 15:30	Sampling End (D/T)	21.01.2026/ 15:50
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rajesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Clear	Temperature (°C)	22	Humidity %	58	Wind direction	320°-140°
-------------------	-------	------------------	----	------------	----	----------------	-----------

Sampling Location(s) with GPS coordinate(s)

S. Location A	Daldaliya Village (Spring Water)	GPS coordinate	23° 29' 06.66" / 84° 35' 32.35"
---------------	----------------------------------	----------------	---------------------------------

Date(s) of performance of the laboratory activities

Test start date	23.01.2026/ 11:25	Test completion date	27.01.2026/ 10:55
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--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	Total Coliform	IS 15185 2002	Per 100 ml	-	400.0	
2.	E.Coli	IS 15185 2002	Per 100 ml	-	305.0	

--Test Result End--

Analysed by - Ishika Singh




Reviewed by
(B.N. Kumar)
Technical Head


Issued by
(Umesh Das)
Laboratory Head

****Test Report End****

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



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GST:-20AAHCE3611M1ZX

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Jharkhand State Pollution Control Board
Certified by :-
ISO 9001:2015 and ISO 45001:2018

Test Report



Unique Lab Report No.	TC1288726000000174	Discipline	Chemical
Report Unique ID	RL04582607027	Group	Atmospheric Pollution
Issue date/time	17.02.2026/ 16:50	Sub Group	Ambient Air Quality

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person	Mr. Girija Tamrakar
Contact Number	+91 9111006074
Email Id	girija.tamrakar@adityabirla.com
Order Date	31.03.2025/ 10:10
Order Number	13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0458	Sample Booking Number	EPIC-2607027
Sample(s) Code	2607027 (A) (B) (C) (D)	Sample Receipt (D/T)	14.02.2026/ 10:41

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	12.02.2026/ 10:35	Sampling End (D/T)	13.02.2026/ 08:50
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rajesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Clear	Temperature (°C)	25	Humidity %	53	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50" / 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92" / 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06" / 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73" / 84° 35' 11.16"

Date(s) of performance of the laboratory activities

Test start date	14.02.2026/ 12:50	Test completion date	17.02.2026/ 13:55
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--Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Particulate Matter (PM ₁₀)	IS:5182 (P-23) 2022	µg/m ³	10	53.69	56.56	57.94	59.84	100 (24 hr)
2.	Fine Particulate Matter (PM _{2.5})	IS 5182 (P-24) 2019	µg/m ³	6	28.26	28.69	29.60	31.38	60 (24 hr)
3.	Sulphur Dioxide (SO ₂)	IS:5182 (P-02) 2023	µg/m ³	5	10.66	09.74	10.99	11.12	80 (24 hr)
4.	Nitrogen Dioxide (NO ₂)	IS:5182 (P-06) 2022	µg/m ³	6	21.92	22.25	23.82	23.48	80 (24 hr)
5.	Ozone (O ₃)	IS:5182 (P-09) 2019	µg/m ³	10	25.16	24.80	23.72	22.64	180 (1 hr)
6.	Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	10	32.56	33.14	33.43	34.60	400 (24 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m ³	0.1	BDL	BDL	BDL	BDL	1.0 (24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m ³	5	BDL	BDL	BDL	BDL	-
9.	Arsenic (As)	USEPA IO 3.2:1999	ng/m ³	2	BDL	BDL	BDL	BDL	-
10.	Benzene (as C ₆ H ₆)	IS 5182 (P-11): 2006	µg/m ³	1	BDL	BDL	BDL	BDL	-
11.	Benzo(a) Pyrene (BaP) <small>Particulate Phase</small>	IS 5182 (P-12): 2004	ng/m ³	0.5	BDL	BDL	BDL	BDL	-

--Test Results End --

Prescribed Limit Environmental (Protection) Rules-1986, Schedule -VII.

Analysed by - Rajesh Varma



[Signature]
Reviewed by
(S.N. Kumar)
Technical Head

[Signature]
Issue by
(Iresh Das)
Laboratory Head

****Test Report End****

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand

Contractual Notes | 1. The laboratory accepts responsibility for content of this report | 2. Test performed at laboratory's permanent facility at specific environmental condition as method required and results relate only to the sample tested in prescribed Date & time | 3. The Test report shall not be reproduced full or in part & can't be used as proof in the court | 4. Any complaint about this report should be communicated in writing within 30 days of its issue | 5. Total liability of EPIC LabTech Pvt. Ltd. will be limited to invoiced amount only | 6. All disputes are subjected to Ranchi Jurisdiction and maximum liability of the laboratory does not exceed the testing and sampling charges | 7. Opinion does not imply endorsement of the tested product by laboratory. Under no circumstances, laboratory accepts any caused by use or misuse of this report. | 8. When the results are from external provider are marked as * mark. |
Abbreviation: - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation). |

EPIC LabTech Private Limited



Address:-
Indrapuri, Road No. - 5,
Ranchi, Jharkhand - 834005,
India

0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685
PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZX

Accredited by:-
Jharkhand State Pollution Control Board
Certified by:-
ISO 9001:2015 and ISO 45001:2018

Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04582607027	Group	Atmospheric Pollution
Issue date/time	17.02.2026/ 16:50	Sub Group	Ambient Air Quality

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0458	Sample Booking Number	EPIC-2607027
Sample(s) Code	2607027 (A) (B) (C) (D)	Sample Receipt (D/T)	14.02.2026/ 10:41

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	12.02.2026/ 10:35	Sampling End (D/T)	13.02.2026/ 08:50
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rajesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Clear	Temperature (°C)	25	Humidity %	53	Wind direction	0°-180°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50" / 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92" / 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06" / 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73" / 84° 35' 11.16"

Date(s) of performance of the laboratory activities

Test start date	14.02.2026/ 12:50	Test completion date	17.02.2026/ 13:55
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--Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Carbon Monoxide (CO)	EPIC/LAB/SOP/AP/01	mg/m ³	1.8	BDL	BDL	BDL	BDL	-

--Test Results End --

Prescribed Limit Environmental (Protection) Rules-1986, Schedule -VII.

Analysed by - Rajesh Varma



Reviewed by
(B.N. Kumar)
Technical Head

Issued by
(Gimesh Das)
Laboratory Head

****Test Report End****

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



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Indrapuri, Road No. - 5,
Ranchi, Jharkhand - 834005,
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☎ 0651 4666392
☎ 98357 86677
☎ 93049 73994
✉ epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685
PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZX

Accredited by:-
NABL vide certificate Number TC- 12887
Jharkhand State Pollution Control Board
Certified by:-
ISO 9001:2015 and ISO 45001:2018

Test Report



Unique Lab Report No.	TC128872600000358	Discipline	Chemical
Report Unique ID	RL04972612041	Group	Atmospheric Pollution
Issue date/time	24.03.2026/ 15:30	Sub Group	Ambient Air Quality

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0497	Sample Booking Number	EPIC-2612041
Sample(s) Code	2612041 (A) (B) (C) (D)	Sample Receipt (D/T)	20.03.2026/ 11:23

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input checked="" type="checkbox"/>
Sampling Start (D/T)	18.03.2026/ 17:35	Sampling End (D/T)	19.03.2026/ 15:25
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rupesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Clear	Temperature (°C)	24	Humidity %	53	Wind direction	270°-90°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50"/ 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92"/ 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06"/ 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73"/ 84° 35' 11.16"

Date(s) of performance of the laboratory activities

Test start date	20.03.2026/ 12:35	Test completion date	24.03.2026/ 13:10
-----------------	-------------------	----------------------	-------------------

--Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Particulate Matter (PM ₁₀)	IS:5182 (P-23) 2022	µg/m ³	10	54.34	57.69	59.45	60.29	100 (24 hr)
2.	Fine Particulate Matter (PM _{2.5})	IS 5182 (P-24) 2019	µg/m ³	8	29.73	29.13	30.90	32.71	60 (24 hr)
3.	Sulphur Dioxide (SO ₂)	IS:5182 (P-02) 2023	µg/m ³	5	09.78	09.16	10.01	10.50	80 (24 hr)
4.	Nitrogen Dioxide (NO ₂)	IS:5182 (P-06) 2022	µg/m ³	6	20.53	21.38	22.24	21.88	80 (24 hr)
5.	Ozone (O ₃)	IS:5182 (P-09) 2019	µg/m ³	10	27.68	26.24	25.16	24.44	180 (1 hr)
6.	Ammonia (NH ₃)	IS:5182 (P-25) 2018	µg/m ³	10	33.43	34.60	34.31	35.47	400 (24 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m ³	0.1	BDL	BDL	BDL	BDL	1.0 (24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m ³	5	BDL	BDL	BDL	BDL	-
9.	Arsenic (As)	USEPA IO 3.2:1999	ng/m ³	2	BDL	BDL	BDL	BDL	-
10.	Benzene (as C ₆ H ₆)	IS 5182 (P-11): 2006	µg/m ³	1	BDL	BDL	BDL	BDL	-
11.	Benzo(a) Pyrene (BaP) <small>Particulate Phase</small>	IS 5182 (P-12): 2004	ng/m ³	0.5	BDL	BDL	BDL	BDL	-

--Test Results End--

Prescribed Limit Environmental (Protection) Rules-1986, Schedule-VII.

Analysed by - Rajesh Verma



Rajesh Verma
Reviewed by
(R.N. Kumar)
Technical Head

****Test Report End****

Rupesh Prajapati
Issue by
(Rupesh Prajapati)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand

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India

☎ 0651 4666392
☎ 98357 86677
☎ 93049 73994
✉ epiclabtech@gmail.com

CIN:-U74999/JH2022PTC019685
PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZX

Accredited by -
Jharkhand State Pollution Control Board
Certified by -
ISO 9001:2015 and ISO 45001:2018

Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04972612041	Group	Atmospheric Pollution
Issue date/time	24.03.2026/ 15:30	Sub Group	Ambient Air Quality

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0497	Sample Booking Number	EPIC-2612041
Sample(s) Code	2612041 (A) (B) (C) (D)	Sample Receipt (D/T)	20.03.2026/ 11:23

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/>
Sampling Start (D/T)	18.03.2026/ 17:35	Sampling End (D/T)	19.03.2026/ 15:25
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rupesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Clear	Temperature (°C)	24	Humidity %	53	Wind direction	270°-90°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Water Pump	GPS coordinate	23° 28' 55.50"/ 84° 35' 21.17"
S. Location B	Near Old Rest Shelter	GPS coordinate	23° 28' 53.92"/ 84° 35' 23.80"
S. Location C	Near Old Plantation (North West Corner)	GPS coordinate	23° 28' 53.06"/ 84° 35' 15.77"
S. Location D	Hisri New (Southern Area)	GPS coordinate	23° 28' 43.73"/ 84° 35' 11.16"

Date(s) of performance of the laboratory activities

Test start date	20.03.2026/ 12:35	Test completion date	24.03.2026/ 13:10
-----------------	-------------------	----------------------	-------------------

--Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Carbon Monoxide (CO)	EPIC/LAB/SOP/AP/01	mg/m ³	1.8	BDL	BDL	BDL	BDL	-

--Test Results End --

Prescribed Limit Environmental (Protection) Rules-1986, Schedule -VII.

Analysed by - Rajesh Varma

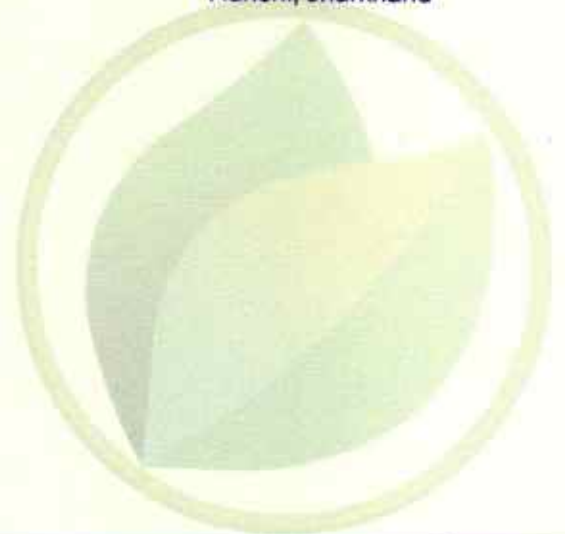


Reviewed by
(B.N. Kumar)
Technical Head

****Test Report End****

[Signature]
24/3/26
Issue by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



Contractual Notes | 1. The laboratory accepts responsibility for content of this report | 2. Test performed at laboratory's permanent facility at specific environmental condition as method required and results relate only to the sample tested in prescribed Date & time | 3. The Test report shall not be reproduced full or in part & can't be used as proof in the court of law. | 4. Any complaint about this report should be communicated in writing within 10 days of its issue | 5. Total liability of EPIC LabTech Pvt. Ltd. will be limited to invoiced amount only. | 6. All disputes are subjected to Ranchi Jurisdiction and maximum liability of the laboratory does not exceed the testing and sampling charges | 7. Opinion does not imply endorsement of the tested product by laboratory. Under no circumstances, laboratory accepts any caused by use or misuse of this report. | 8. When the results are from external provider are marked as * mark. |

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Address:-
Indrapuri, Road No. - 5,
Ranchi, Jharkhand - 834005,
India

0651 4666392
98357 86677
93049 73994
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685
PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZK

Accredited by :-
NABL, vide certificate Number TC- 12887
Jharkhand State Pollution Control Board
Certified by :-
ISO 9001:2015 and ISO 45001:2018

Test Report



Unique Lab Report No.	TC1288726000000359	Discipline	Chemical
Report Unique ID	RL04972612042	Group	Water
Issue date/time	24.03.2026/ 15:33	Sub Group	Drinking Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0497	Sample Booking Number	EPIC-2612042
Sample(s) Code	2612042	Sample Receipt (D/T)	20.03.2026/ 11:24

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.03.2026/ 16:05	Sampling End (D/T)	18.03.2026/ 16:21
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rupesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition Clear Temperature (°C) 24 Humidity % 53 Wind direction 270°-90°

Sampling Location(s) with GPS coordinate(s)

S. Location A Administrative Office GPS coordinate 23° 29' 04.93"/84° 35' 47.01"

Date(s) of performance of the laboratory activities

Test start date 20.03.2026/ 11:44 Test completion date 24.03.2026/ 14:00

--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits	
						Acceptable Limit	Permissible limit
1.	pH value at 25.5°C	IS 3025 (P-11) 2022	-	1.5	6.79	6.5-8.5	No relaxation
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	0.52	1	5
3.	Colour	IS 3025 (P-04) 2021	Hazen	5.0	5	5	15
4.	Odour	IS 3025 (P-05) 2018	-	-	Agreeable	Agreeable	Agreeable
5.	Taste	IS 3025 (P-07) 2017	-	-	Agreeable	Agreeable	Agreeable
6.	Total Dissolved Solids (TDS)	IS 3025 (P-16) 2023	mg/l	10	175.00	500	2000
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	11.33	250	1000
8.	Total Alkalinity (as CaCO ₃)	IS 3025 (P-23) 2019	mg/l	10	46.00	200	600
9.	Total Hardness (as CaCO ₃)	IS 3025 (P-21) 2009	mg/l	10	72.29	200	600
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	11.22	75	200
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	0.2	1
12.	Sulphate (as SO ₄)	IS 3025 (P-24/Sec-1)2022	mg/l	0.3	1.80	200	400
13.	Nitrate (as NO ₃ -N)	IS 3025 (P-34/Sec-1) 2023	mg/l	0.4	1.08	45	No relaxation
14.	Phenolic Compound	IS 3025 (P-43/Sec-1) 2022	mg/l	0.001	BDL	0.001	0.002
15.	Magnesium (as Mg)	APHA 3500 Mg E 2023	mg/l	0.3	10.69	30	100



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0651 4666392
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GST:-20AAHCE3611MTZX

Accredited by :-
NABL vide certificate Number TC- 12887
Jharkhand State Pollution Control Board
Certified by :-
ISO 9001:2015 and ISO 45001:2018

Test Report



Unique Lab Report No.	TC1288726000000359	Discipline	Chemical
Report Unique ID	RL04972612042	Group	Water
Issue date/time	24.03.2026/ 15:33	Sub Group	Drinking Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/ 10:10
Order Number 13612313868

16. Fluoride (as F)	APHA 4500 F-D 2023	mg/l	0.1	BDL	1.0	1.5
Group - Residues and Contaminants in Water,				Sub Group - Trace Metals Elements		
17. Copper (as Cu)	APHA 3111 B 2023	mg/l	0.1	BDL	0.05	1.5
18. Iron (as Fe)	APHA 3111 B 2023	mg/l	0.1	BDL	1.0	No relaxation
19. Lead (as Pb)	APHA 3111 B 2023	mg/l	0.01	BDL	0.01	No relaxation
20. Cadmium (as Cd)	APHA 3111 B 2023	mg/l	0.003	BDL	0.003	No relaxation
21. Total Chromium (as Cr)	APHA 3111 B 2023	mg/l	0.01	BDL	0.05	No relaxation
22. Nickel (as Ni)	APHA 3111 B 2023	mg/l	0.02	BDL	0.02	No relaxation
23. Total Arsenic (as As)	APHA 3114 B 2023	mg/l	0.005	BDL	0.01	0.05
24. Selenium (as Se)	APHA 3114 B 2023	mg/l	0.005	BDL	0.01	No relaxation
25. Manganese (as Mn)	APHA 3111 B 2023	mg/l	0.09	BDL	0.1	0.3
26. Zinc (as Zn)	APHA 3111 B 2023	mg/l	0.04	BDL	5	15
Group - Residues and Contaminants in Water,				Sub Group - Pesticides		
27. Aldrin	USEPA 8081 B:2007	µg/l	0.03	BDL	0.03	No relaxation
28. dieldrin	USEPA 8081 B:2007	µg/l	0.03	BDL	0.03	No relaxation

--Test Result End--

Prescribed Limit IS 10500:2012
Analysed by - Pappu Kumar



Reviewed by
(B.N. Kumar)
Technical Head

****Test Report End****

Issued by
(Umesh Ora)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand

EPIC LabTech Private Limited



Address:-
Indrapuri, Road No. - 5,
Ranchi, Jharkhand - 834005,
India

☎ 0651 4666392
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CIN:-U74999JH2022PTC019685
PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZK

Accredited by :-
Jharkhand State Pollution Control Board
Certified by :-
ISO 9001:2015 and ISO 45001:2018

Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04972612042	Group	Water
Issue date/time	24.03.2026/ 15:33	Sub Group	Drinking Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0497	Sample Booking Number	EPIC-2612042
Sample(s) Code	2612042	Sample Receipt (D/T)	20.03.2026/ 11:24

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input checked="" type="checkbox"/>
Sampling Start (D/T)	18.03.2026/ 16:05	Sampling End (D/T)	18.03.2026/ 16:21
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rupesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition	Clear	Temperature (°C)	24	Humidity %	53	Wind direction	270°-90°
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Sampling Location(s) with GPS coordinate(s)

S. Location A	Administrative Office	GPS coordinate	23° 29' 04.93"/ 84° 35' 47.01"
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Date(s) of performance of the laboratory activities

Test start date	20.03.2026/ 11:44	Test completion date	24.03.2026/ 14:00
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--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits	
						Acceptable Limit	Permissible limit
1.	Polychlorinated biphenyls	EPIC/LAB/SOP/WA/01/00	µg/l	0.2	BDL	0.5	No relaxation
2.	Polynuclear Aromatic Hydrocarbons (PAH)	EPIC/LAB/SOP/WA/01/00	µg/l	0.05	BDL	0.1	No relaxation
Group-Residues and Contaminants in Water						Sub Group- Trace Metals Elements	
3.	Aluminum	IS 3025 (P-55):2019	mg/l	0.1	BDL	0.03	0.2
4.	Boron	IS 3025 (P-57):2021	mg/l	0.1	BDL	0.5	1.0
Group - Residues and Contaminants in Water,						Sub Group - Pesticides	
5.	Alachlor	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	20	No relaxation
6.	Atrazine	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	2.0	No relaxation
7.	Alpha HCH	EPIC/LAB/SOP/WA/01/00	µg/l	0.005	BDL	0.01	No relaxation
8.	Beta HCH	EPIC/LAB/SOP/WA/01/00	µg/l	0.02	BDL	0.04	No relaxation
9.	Butachlor	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	125.0	No relaxation
10.	Chlopyrifos	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	30.0	No relaxation
11.	Delta HCH	EPIC/LAB/SOP/WA/01/00	µg/l	0.02	BDL	0.04	No relaxation
12.	Ethion	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	3.0	No relaxation
13.	Gamma- HCH(Lindane)	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	2.0	No relaxation

EPIC LabTech Private Limited



Address:-
Indrapuri, Road No. - 5,
Ranchi, Jharkhand - 834005,
India

☎ 0651-4666392
☎ 98337 86677
☎ 93049 73994
✉ epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685
PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZX

Accredited by :-
Jharkhand State Pollution Control Board
Certified by :-
ISO 9001:2015 and ISO 45001:2018

Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04972612042	Group	Water
Issue date/time	24.03.2026/ 15:33	Sub Group	Drinking Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person
Contact Number
Email Id
Order Date
Order Number

Mr. Girija Tamrakar
+91 9111006074
girija.tamrakar@adityabirla.com
31.03.2025/ 10:10
13612313868

Sl. No.	Parameter	Method	Unit	Result	BDL	Relaxation	
14.	Malathion	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	190.0	No relaxation
15.	Methyl parathion	EPIC/LAB/SOP/WA/01/00	µg/l	0.2	BDL	0.3	No relaxation
16.	Monocrotophos	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	1.0	No relaxation
17.	Phorate	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	2.0	No relaxation
18.	DDT (o, p and p, p-isomer of DDT, DDE and DDD)	EPIC/LAB/SOP/WA/01/00	µg/l	0.5	BDL	1.0	No relaxation
19.	Endosulfan (alpha, beta, and sulphate)	EPIC/LAB/SOP/WA/01/00	µg/l	0.05	BDL	0.4	No relaxation

--Test Result End --

Prescribed Limit IS 10500:2012
Analysed by - Pappu Kumar




Reviewed by
(B.N. Kumar)
Technical Head


Issued By
(Himesh Das)
Laboratory Head

****Test Report End****

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



EPIC LabTech Private Limited



Address:-
Indrapuri, Road No. - 5,
Ranchi, Jharkhand - 834005,
India

☎ 0651-4666392
☎ 98357 86677
☎ 93049 73994
✉ epiclabtech@gmail.com

CIN:-U74999JH2022PTC019683
PAN:-AAHCE3611M
GST:-20AAHCE3611M1ZK

Accredited by :-
Jharkhand State Pollution Control Board
Certified by :-
ISO 9001:2015 and ISO 45001:2018

Test Report

Unique Lab Report No.	N/A	Discipline	Biological
Report Unique ID	RL04972612043	Group	Water
Issue date/time	24.03.2026/ 15:36	Sub Group	Drinking Water

Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302
MONITORING SITE: HISRI BAUXITE MINE

Contact Person Mr. Girija Tamrakar
Contact Number +91 9111006074
Email Id girija.tamrakar@adityabirla.com
Order Date 31.03.2025/10:10
Order Number 13612313868

References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0497	Sample Booking Number	EPIC-2612043
Sample(s) Code	2612043	Sample Receipt (D/T)	20.03.2026/ 11:25

Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.03.2026/ 16:05	Sampling End (D/T)	18.03.2026/ 16:21
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Rupesh Prajapati & Team
Sampling method used	EPIC/SOP/SM/01/00	Ref. of Sampling Plan	EPIC/LAB/R/036
Description/condition of sample	Receipt sample(s) were fit for analysis.		

Environmental Condition during sampling

Weather condition Clear Temperature (°C) 24 Humidity % 53 Wind direction 270°-90°

Sampling Location(s) with GPS coordinate(s)

S. Location A Administrative Office GPS coordinate 23° 29' 04.93"/84° 35' 47.01"

Date(s) of performance of the laboratory activities

Test start date 20.03.2026/ 11:45 Test completion date 24.03.2026/ 14:00

--Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	Coliform Bacteria	IS 15185 2016	Per 100 ml	-	Absent	Shall not be detectable in any 100 ml sample
2.	E. Coli	IS 15185 2016	Per 100 ml	-	Absent	

--Test Result End --

Prescribed Limit IS 10500:2012

Analysed by - Ishika Singh

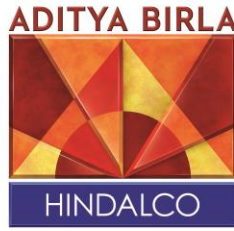



Reviewed by
(B.N. Kumar)
Technical Head

*****Test Report End*****


Analysed by
(Umesh Das)
Laboratory Head

Authorized Signatory
EPIC LabTech Pvt. Ltd.
Ranchi, Jharkhand



Annexure 3

Date – 01.11.2025

Office Order

Environmental Cell has been re-constituted for Bagru Group of Mines (Bagru Bauxite Mine, Bhusar Bauxite Mine and Hisri New Bauxite Mine). This cell consists of the following team members who will ensure compliance with the Environment Acts, Rules & Regulations in respect of the said mines of Hindalco Industries Limited.

1. Mr. Shambhu Vashistha (Coordinator)
2. Mr. Malaya Prusty (Geologist)
3. Mr. Girija Tamrakar (Environment Engineer)
4. Mr. Anand Prakash Tiwari (Environment Engineer)

The Undersigned is the in charge of above Environment Management Cell constituted for the purpose of ensuring compliances of environmental acts, rules and regulations for the above mines.

Basudev Gangopadhyay
AVP (Planning, Environment & Compliance)

Annexure 4

Production, Mined Out, Back Filled and Over Burden removal from October 2025 to March 2026								
S. No	Name of the Mines	Mining lease area (ha)	Production Capacity (MT)*	Lease Period*	Production (MT)	Mined out area (ha)	Backfilled area (ha)	Over burden (Cu.M)
1	Bagru Bauxite Mine	75.41	85000	22.01.1974 to 31.03.2030	NIL	NIL	NIL	NIL
2	Bhusar Bauxite Mine	65.31	280000	11.07.1981 to 31.03.2030	89066	0.650	0.915	33436.80
3	Hisri (New) Bauxite Mine	14.55	100000	19.07.1981 to 31.03.2030	41184	0.655	0.920	996.270
4	Pakhar (8.09) Bauxite Mine	8.09	80000	16.05.1973 to 31.03.2030	NIL	NIL	NIL	NIL
5	Pakhar (35.12) Bauxite Mine	35.12	200000	17.04.1975 to 31.03.2030	NIL	NIL	NIL	NIL
6	Pakhar (115.13) Bauxite Mine	115.13	300000	19.07.1996 to 31.03.2030	171180	3.820	2.310	271049.97
7	Sherangdag-A Bauxite Mine	155.81	260000	16.10.1974 to 31.03.2030	75150	2.850	1.700	158752.125
8	Serangdag-B Bauxite Mine	77.89	100000	04.10.1978 to 31.03.2030	42330	0.860	0.730	47018.623
9	Jalim & Sanai Bauxite Mine	12.14	50000	16.10.1974 to 31.03.2030	NIL	NIL	NIL	NIL
10	Gurdari Bauxite Mine	584.19	325000	23.03.1985 to 22.03.2035	130240	4.520	4.270	225170.36
11	Kujam - I Bauxite Mine	80.87	150000	13.03.2006 to 12.03.2056	NIL	NIL	NIL	NIL
12	Kujam - II Bauxite Mine	157.38	300000	24.03.2006 to 23.03.2056	63685	3.120	4.284	65548.95
13	Amtipani Bauxite Mine	190.95	150000	13.03.2006 to 12.03.2056	55635	4.960	5.050	192519.545

Annexure 4

Minerals & Minerals Limited								
14	Pakhar (109.507) Bauxite Mine	109.507	280000	26.07.2008 to 25.07.2058	178350	1.590	1.950	270329.705
15	Pakhar (15.58) Bauxite Mine	15.58	60000	28.04.1965 to 31.03.2030	46150	0.380	0.038	16378.345
16	Bimarla Bauxite Mine	134.526	300000	18.07.2009 to 17.07.2059	54300	3.871	0.910	114143.750
17	Amtipani Chirodih Bauxite Mine	130.01	450000	11.01.2017 to 10.01.2067	152300	5.600	4.860	299385.013

*Static information about the mines included in the above table



R R P Ambastha
Head - Compliance

BREAK UP THE COST OF ENVIRONMENTAL MEASURES DURING THE YEAR 2025-26

The composite cost during the year 2025-26 for environmental protection & pollution control by Jharkhand Mines division of M/s Hindalco Industries Ltd & M/s Minerals & Minerals Ltd for implementation of the suggested measures in EC at our all the operating mines in the state of Jharkhand-namely Bagru (75.41 ha), Hisri New (14.55 ha), Bhusar (65.31 ha), Pakhar (115.13 ha), Pakhars (109.507 ha), Pakhar (15.58 ha), Pakhar (8.09 ha), Pakhar (35.12 ha), Sherangdag (155.81 ha), Serangdag (77.89 ha), Jalim & Sanai (12.14 ha), Bimarla Bauxite Mines (134.526 ha), Gurdari (584.19 ha), Amtipani (190.95 ha), Kujam I (80.87 ha) Kujam II (157.38 ha), and Amtipani Chirodih (130.01 ha) Bauxite mines.

S. No	Description	Budget (in Rupees) FY 2025-26 (From Oct'25 to Mar'26)	Actual (in Rupees) FY 2025-26 (From Oct'25 to Mar'26)
1	Pollution Control and Environmental Monitoring	1,71,00,000	88,71,710
2	Reclamation/ Back filing & Rehabilitation**	2,04,00,000	34,88,940
3	Green belt, Plantation & Water sprinkling arrangement	1,20,00,000	87,33,877
4	Rural Development	7,92,00,000	7,39,52,956

**Part of OB removed cost



R R P Ambastha
Head - Compliance

Annexure-6**Compliance Report on Forest Clearance (FC) Conditions as Stipulated in Letter No. 3029 dated 23.07.2014 Issued by the DFO, Lohardaga, for Diversion of 4.47 ha of Forest Land****Name of Mine:** Hisri New Bauxite Mine - M/s Hindalco Industries Limited.

S. No.	Conditions	Compliance Status
1	In the light of the relevant letter from the Government of India, it will be necessary to comply with the submitted undertaking.	The conditions stated in the undertaking are being complied with, and we continue to adhere to them.
2	In the light of the letter no. 03/Forest. Bhoo. -51/2006-2909 Forest. Parya. dated 25.06.2014 of Forest and Environment Department, Government of Jharkhand, the list of reclaimed area mentioned in the undertaking submitted by you vide letter no. 407 dated 04.07.2014 and the list of area to be reclaimed by 31.03.2015 along with the map will be submitted.	The list of reclaimed areas up to 31.03.2015, along with the requisite maps, has already been submitted vide letter no. HIL/Bagru/DFO/408 dated 06/08/2014.
3	It will be mandatory to demarcate the 4.47 hectares of forest land proposed for diversion, along with the adjacent forest boundary, using permanent Pucca Pillars.	The diverted forest land area of 4.47 hectares has been duly demarcated, and pucca boundary pillars have already been fixed. The Photographs of the same are attached herewith as Annexure-A .
4	It will be mandatory to register the vehicles used for transportation in the divisional office.	At present, we do not transport bauxite minerals through road vehicles. The transportation of minerals is carried out through an eco-friendly aerial ropeway system. However, if road transportation is required in the future, all vehicles proposed to be used shall be duly registered with the Divisional Forest Office, Lohardaga, as per the stipulated condition
5	It will be necessary to arrange for vehicles and provide assistance for monitoring the forest land being diverted.	Adequate vehicles and necessary assistance are provided for the effective monitoring of the diverted land.
6	It will be necessary to inform the undersigned about the commencement of work.	We already informed to Divisional Forest Office about the commencement of work.

Compliance Report on Forest Clearance (FC) Conditions as Stipulated in Letter Number 5-JHB023/2003-BHU, dated 07-03-2012 issued by the Eastern Office - MoEF, for Diversion of 4.47 ha of Forest Land

Name of Mine: Hisri New Bauxite Mine - M/s Hindalco Industries Limited.

S. No	Conditions	Compliance Status
1	Legal status of diverted forest land will remain unchanged.	Noted and agreed.
2	Compensatory afforestation shall be raised over 4.47 Ha of non-forest land identified in Mouza Bhusar at Plot no – 146, 147, 148, 149, 150, 151, 152, 153, 156, 157 & 171 as proposed by the State Government.	Complied. Compensatory afforestation has been done over 4.47 Ha non-forest land identified in Mouza Bhusar.
3	The non-forest land which has been transferred and mutated in favour of the State Forest Department for the purpose of compensatory afforestation will be declared as PF/RF under Indian Forest Act, 1927 within a period of six months. The Nodal Officer (FCA) shall report compliance in this regard.	Noted.
4	Fencing, protection, regeneration and maintenance of the safety zone elsewhere in degraded forest land to the extent of one and half times of the safety zone area will be done at the project as envisaged. The State Forest Department shall plant local indigenous trees at 2 x 3 meter spacing in the 7.5 meter strip all along the outer boundary of the mining lease during the first monsoon and maintain thereafter at the project cost.	Complied in coordination with the State Forest Department.
5	State Government shall realize from the user agency additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India.	Noted and agreed. The entire NPV amount has already been paid in accordance with the Forest Department's instructions.
6	Mining will be done strictly as per the mining plan approved by IBM and copy of revised Mining Plan (s) for subsequent five-year periods shall be furnished to the Regional Office without fail.	Mining is being carried out as per the mining plan approved by IBM.
7	The period of permission granted under Forest (Conservation) Act, 1980 will be co-terminus with the mining lease granted under MMDR Act, or 20 years whichever is earlier.	Noted and agreed. Our mining lease is valid till 31.03.2030
8	The user agency the state forest department shall undertake gap planting and soil & moisture conservation activities to restock and rejuvenate the degraded open forests (having crown density less than 0.4 locked in the area within 100 m. from outer perimeter of the mining lease.	Noted. Effective measures have already been implemented in consultation with the Forest Department. Plantation activities are being carried out on a year-on-year basis. Rainwater harvesting pond has already been created to augment groundwater levels.

9	The user agency shall take appropriate measures to stabilize the overburden dumps by appropriate grading / blending so as to ensure that the angle of repose at any given place will less than 28 degrees.	No OB dump is envisaged. Concurrent backfilling and reclamation of mined out area are being exercised for which topsoil is being spread on backfilled area for reclamation.
10	The user agency shall undertake a plan containing appropriate mitigative measures to minimize soil erosion and choking of streams shall be prepared and implemented.	Adequate soil and water conservation measures have been implemented, including plantation activities, soil erosion control works, rainwater harvesting ponds, catch drains, and siltation pit of appropriate size. These measures have been constructed to effectively arrest soil erosion and prevent choking of nearby streams.
11	The user agency shall undertake planting of adequate drought hardy plant species and sowing of seeds in the appropriate area within the mining lease to arrest soil erosion.	We have plantation of adequate drought-hardy plant species on reclaimed land as well as within the designated Safety Zone of the mining lease to control soil erosion. Plantation activities are being carried out on a year-on-year basis to ensure sustainability and long-term soil stabilization. Photographs of the same are enclosed herewith as Annexure-B .
12	The user agency shall undertake construction of check dams, retention / toe walls to arrest sliding down of the excavated materials along the contour.	No excavated material is observed sliding along the contour at site. However, We have constructed garland drains, check dams, and retention/toe walls at appropriate locations as prescribed.
13	The topsoil will be removed and placed at designated protected place with due care to protect the fertile component of the soil. The grasses or other annual species may be planted to ensure intactness of minerals and germ plasm of the soil.	Topsoil is being stacked separately in the mining premises and the same is being used for reclamation purposes and the reclaimed area is used for afforestation/agricultural activity as required.
14	The sub soil will be removed and kept separately & will be used in reclamation in a way that sub soil placed beneath the topsoil.	Initially Sub-soil is being stacked separately in the mining premises and the same is being utilized for concurrent reclamation through backfilling of mined-out areas
15	The quantity of topsoil and sub soil excavated every year will be informed to Regional Office and a separate register will be maintained for the same.	Records of excavated quantities are being maintained and information of the is being submitted to the regional office on a regular basis.
16	Earth or any materials shall not be borrowed from adjoining forest area and debris resulting during construction will not be disposed in the forest area.	Noted and agreed. No materials are taken from, nor debris disposed in, the adjoining forest.
17	The user agency while executing works shall not fell any tree or damage forest growth in the surrounding forest area.	We do not fell any tree or damage forest growth in the surrounding forest area.
18	No additional or new path will be constructed inside forest area for transportation of construction materials for execution of the project work.	Noted and being complied.

19	The user agency shall deposit the estimated royalty of 718 numbers enumerated trees, before commencement of felling on final approval of forest diversion. Tree will be cut in phase as per actual requirement considering five years of advance planning and working.	We already deposited estimated royalty of tree at DFO, Lohardaga towards tree felling.
20	Trees standing in the diverted area shall be felled strictly as per requirement to break fresh land. Prior permission of the Divisional Forest Officer shall be obtained for felling of trees.	Already complied.
21	No labour camps shall be established on the adjoining forest land.	Noted and agreed. No labour camps have been established on the adjoining forest land, and we ensure that none will be established in the future.
22	The demand of alternate fuel for the labourers, if any camping outside the forest land in the vicinity of forest shall be met by the user agency at project after purchase of fuel from the approved source and a distribution register shall be maintained for regular monitoring of the local supervisors / forest officers to ensure no damage to the surrounding forest.	Noted and agreed. We ensure that no damage is caused to the surrounding forest regarding fuel usage from our end. All fuel (LPG & HSD) is procured from approved sources.
23	The user agency shall ensure that no damage to the available wildlife or to the forest flora in the adjoining forest is caused by labourers / workmen engaged by the project authorities or contractor working under them.	It is being ensured that no damage to the available wildlife or forest flora in the adjoining forest is caused by labourers / workmen engaged by us or our contractors. Additionally, we prepared Integrated Site-specific Wildlife Conservation Plan (WLCP) and obtained approval from PCCF, Wildlife, Ranchi vide Office Order No. 29 dated 01.06.2023
24	The forest land shall not be used for any purpose other than that specified in the proposal.	Being Complied.
25	Adequate soil and water conservation measures, as and when required shall be taken by the user agency in consultation with the forest officials to check any soil erosion in the lease hold area.	Adequate soil and water conservation measures, such as creation of rainwater harvesting ponds and plantation on reclaimed land, are being implemented in consultation with forest officials.
26	The user agency shall obtain Environment Clearance under provision of EIA Notification issued under Environment (Protection) Act, as applicable.	Environmental Clearance for Hisri new bauxite mine has already been obtained from MoEF.

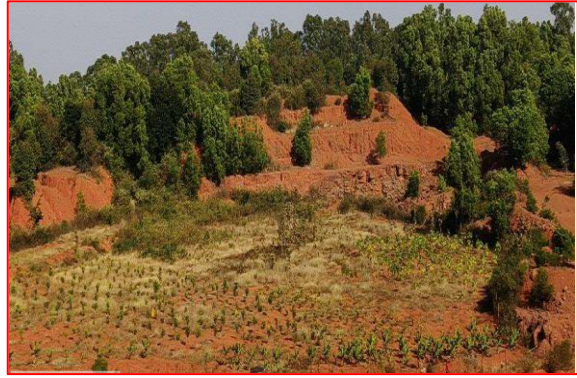
27	All the right as per provision of ST & OTFD (Regulation of forest right) Act 2006 shall be settled, before implementation of the project and all certificate towards settlement of all the right shall be obtained, as per guidelines of Ministry communicated vide letter No. 11-9/1998-FC(Pt) dated 30.07.2009 and 03.08.209 subsequent guidelines shall be complied with.	All applicable provisions under the ST & OTFD (Recognition of Forest Rights) Act, 2006 have already been complied.
28	The user agency shall adopt rainwater harvesting technology. The Central Ground Water Authority / Board should be consulted for finalization of appropriated rainwater harvesting technology at the earliest and details should be furnished to Regional Office.	A detailed rainwater harvesting plan for groundwater augmentation has been prepared, and suitable measures such as water harvesting ponds have been implemented for groundwater recharge in the area, in consultation with the Central Ground Water Board. Photograph of the same is attached herewith as Annexure-C
29	The user agency and the state government shall ensure compliance to provision of all Acts, Rules, Regulation and Guidelines for the time being in force, as may be applicable to such project.	Compliance with the applicable Acts, Regulations, and Guidelines is being duly complied.
30	The user agency shall submit annual self-monitoring report on compliance of stipulated conditions to the Nodal Officer (FCA) of the state and regional office, Bhubneswar.	Noted and being complied.
31	Any other condition that the Central Govt. or CCF (Central) of Eastern Regional Office, BBSR may impose from time to time in the interest of afforestation, conservation and management of flora and fauna in the area, which shall be complied by the user agency.	Noted and agreed.
32	In case of non-compliance of any of the above-mentioned conditions, the concerned Divisional Forest Officer shall report through the State Govt. to this office as per procedure laid down in this clause 1.9 of guidelines issued under Forest (conservation) Act, 1980 on 25.12.1992. Violation of any of these conditions will amount to violation of Forest (conservation) act, 1980 and action would be taken accordingly.	Noted and agreed.

Annexure-A

Photographs of Diverted Forest Pillar (DFP)



Photographs of Plantation in Mines



Photographs of Rainwater Harvesting Pond

