



HIL/LHD/ENV/MoEF&CC/634

Date: 26<sup>th</sup> 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 Gurdari (584.19 Ha) Bauxite Mining project of M/s Hindalco Industries Limited, Gumla Jharkhand for the period from **October 2025 to March 2026**.

**Ref:** Environmental Clearance letter No. J-11015/136/2006-IA.II (M), dated 7<sup>th</sup> February 2007.

Dear Sir,

With reference to the above, we are submitting herewith the Compliance status report of EC conditions for **Gurdari (584.19 Ha)** Bauxite Mining project of **M/s Hindalco Industries Limited** located in Gumla, 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
584.19	325000	23.03.1985 to 22.03.2035

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](mailto:ro.ranchi-mef@gov.in), [mef@ori.nic.in](mailto:mef@ori.nic.in), [mef@nic.in](mailto:mef@nic.in), [mef.or@nic.in](mailto:mef.or@nic.in), [mescb.cpcb@nic.in](mailto:mescb.cpcb@nic.in), [zokolkatta.cpcb@nic.in](mailto:zokolkatta.cpcb@nic.in), [ranchijspcb@gmail.com](mailto:ranchijspcb@gmail.com), [roranchi47@gmail.com](mailto:roranchi47@gmail.com)

Hindalco Industries Limited  
Mines Division, Court Road, Lohardaga 835302, Jharkhand, India | T: +91 6526 223163  
Corporate Office : 6th & 7th Floor, Birla Birla Centurion, Pandurang Budhakar Marg, Worli, Mumbai-400030, India  
T: +91 22 66626666/626105555 | F: +91 22 62610400/62610500  
Registered Office : 21st Floor, One Unity Center, Senapati Bapat Marg, Prabhadevi, Mumbai - 400013, India  
T: +91 22 69477000/69477150 | F: +91 22 69477001/69477090  
W: www.hindalco.com | E: hilinvestors@adityabirla.com

**Name of the Project** : **Gurdari Bauxite Mine (584.19 ha)**  
**M/s Hindalco Industries Limited,**

**Environment Clearance No & date** : **J-11015/136/2006-IA. II (M), dated 07.02.2007.**

**Period of compliance Report** : **From 1<sup>st</sup> October 2025 to 31<sup>st</sup> March 2026**

**A. Specific Conditions**

**Condition 1- All the conditions stipulated by the State Pollution Control Board in their NOC should be effectively implemented.**

**Reply to Condition 1** - Implementations of stipulated conditions in NOC are fulfilled post which consent to operate has been granted by SPCB from time to time. The existing consent to operate is valid up to 31.03.2027. Production of bauxite is within limits specified in Consent to Operate.

**Condition 2- 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 to Condition 2-** Land acquisition is being done with the permission of competent authority of State Government i.e. concerned Deputy Commissioner (D.C.) under CNT Act. The land lease agreement is being done with raiyat (Landowner) after permission of State Govt with provision of returning the land as per the norms set by D.C. The compensation and facilities are being provided as per the norms set in the agreement. Thus, land acquisition has the approval of the State Government.

**Condition 3- The exploration shall be completed within 2.5 years and thereafter the proponent shall come up with a firm proposal for mining, based on the estimated reserves. The reclamation plan, post mine land use and progressive greenbelt development plan shall also be prepared and submitted with the revised proposal.**

**Reply to Condition 3-** Required exploration is already done. Mining plan/ Mining Scheme based on current reserves/resource estimate is duly approved by IBM. The reclamation plan, post mine land use and progressive greenbelt development plan have been covered in Mining Plan/Mining scheme which is approved by IBM.

**Condition 4- Mining shall not intersect groundwater. The mine working shall be restricted to ground water table. Prior approval of the Ministry of Environment & Forests and Central Ground Water Authority shall be obtained for mining below water table.**

**Reply to Condition 4-** Since shallow depth mining is being carried out, hence there is no intersection with the groundwater table. In future also, working zones will be restricted to above ground water table. We undertake that no mining is/was carried out below ground water table and the same status will be maintained in future also. Moreover, we regularly monitoring the groundwater table through the installation of a piezometer. A copy of the water level report is attached herewith as **Annexure-1**.

**Condition 5- Topsoil shall be stacked properly with proper slope with adequate measures and should be used for reclamation and rehabilitation of mined out areas.**

**Reply to Condition 5-** Topsoil is being stacked properly with proper slope as and when required for reclamation and rehabilitation. Sequential backfilling and reclamation of the mined-out area are being exercised for which topsoil is being spread on backfilled area for reclamation. The mining is being carried out as per the approved mining plan. Monitoring and management of rehabilitated areas is being done through effective supervision. Data pertaining to backfilling is enclosed as **Annexure 4**.

**Condition 6- The waste generated shall be concurrently backfilled in the mined-out area. There shall be no external OB dump. 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 a six-month basis.**

**Reply to Condition 6-** Overburden and waste rock are being used for concurrent backfilling, and topsoil is being spread on the backfilled area for reclamation. Currently, there is no OB dump present in the mine lease area. Monitoring and management of rehabilitated areas is continuing until vegetation becomes self-sustaining through supervision. Data pertaining to backfilling is enclosed as **Annexure-4**. Compliance status is being submitted to MoEF&CC on six monthly basis.

**Condition 7- Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working. 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 drains (size, gradient and length) shall be constructed for mine pit 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 Condition 7-** 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.



Garland drain around mine pit.



Catch drain Near mine pit.

**Condition 8- Plantation shall be raised in an area of 78.44 ha including a green belt of adequate width by planting the native species around the ML area, roads, reclaimed area etc. in consultation with the local DFO / Agriculture Department. The density of the trees should be around 1500 plants per ha.**

**Reply to Condition 8-** Progressive plantation of native species is being carried out in and around mining leases, reclaimed areas etc. in consultation with local forest department on a regular basis. During FY 2025-26 till September, a total of 14010 saplings have been planted on reclaimed areas. Cumulative 30.15 ha areas have been planted till date. In addition to this agricultural activity is going on reclaimed land as per the consent from the landowners. Rest to be complied during project period.



Plantation and Agriculture on Reclaimed land

**Condition 9- The project authority should implement suitable conservation measures to augment ground water resources in area in consultation with Regional Director, Central Ground Water Board.**

**Reply to Condition 9-** A detailed plan to augment groundwater has been prepared, and suitable measures like the creation of water harvesting ponds, etc., are being taken for the augmentation of groundwater in the area, in consultation with the Central Ground Water Board.



Rainwater Harvesting Pond.

**Condition 10- 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 monitoring should be carried out four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground water Authority and Regional Director Central Ground Water Board.**

**Reply to Condition 10-** We are not using ground water for mining purposes. Shallow depth mining is being carried out, hence there is no intersection of ground water table during the mining operation at present and in future. A piezometer has been installed for monitoring the ground water level. The Water level and water quality reports are being sent regularly to regional office of Ministry, CGWA 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**.



**Condition 11- Prior permission from the competent authority should be obtained for drawl of water from the surface water bodies.**

**Reply to Condition 11-** We are not using any water from natural streams/ ground water for mining operation. Rainwater harvesting ponds with proper fencing have been already constructed in the mine premises. Rainwater harvested during the rainy season is being used for sprinkling on haul roads and raising plantation.

However, we have obtained NOC for extraction of ground water from CGWA/ CGWB for drinking purpose only. The copy of the same NOC and photographs of Rainwater harvesting ponds are attached below.

भारत सरकार जल शक्ति मंत्रालय जल संसाधन विभाग, केंद्रीय भूमि जल प्राधिकरण GOVERNMENT OF INDIA MINISTRY OF JAL SHAKTI DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVENATION CENTRAL GROUND WATER AUTHORITY		 सत्यमेव जयते			
भूजल निकासी हेतु अनापत्ति प्रमाण पत्र NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION					
PROJECT NAME GURDARI BAUXITE MINING					
PROJECT ADDRESS GURDARI BAUXITE MINING (584.19 HA) VILLAGES - GURDARI, AMBAKONA, RAJADERA AND JANAWAL TEHSIL - BISHNUPUR				PIN CODE 835302	
STATE JHARKHAND		DISTRICT GUMLA		TOWN/BLOCK BISHUNPUR	
COMMUNICATION ADDRESS MINES DIVISION, COURT ROAD					
ADDRESS OF CGWB REGIONAL OFFICE 6th & 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer Road, Dak Banglow, Patna- 800011, Bihar.					
1. NOC NO. NOC/MIN/JH/2025/8319/R-3/3		2. DATE OF ISSUANCE 24/09/2025			
3. APPLICATION NO. MIN/JH/2025/8319/R-3		4. APPLICATION TYPE Mining			
5. PROJECT STATUS Existing Project		6. NOC TYPE Renew			
7. VALID FROM 09/09/2025		8. VALID UP TO 08/09/2027			
9. WATER QUALITY TYPE Fresh Water		10. AREA TYPE CATEGORY Safe (GWRE- 2024)			

NOC for Ground water Extraction

**Condition 12- Water monitoring both for quality and quantity shall be carried out at four locations namely one spring and three streams. Six monthly report should be submitted to the Ministry of Environment and Forest and its Regional Office located at Bhubaneshwar.**

**Reply to Condition 12-** Water Monitoring of Spring and Stream water are being monitored and Analysis report is attached as **Annexure 2**. Six monthly reports are being submitted regularly. Now, the Regional office of MoEF&CC is located in Ranchi.

**Condition 13- 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 minerals. The vehicles should be covered with a tarpaulin and shall not be overloaded.**

**Reply to Condition 13-** To keep vehicular emissions under control, vehicles are periodically checked & repaired. All measures are being taken to control vehicular emission. All vehicles are covered with tarpaulins, and non-overloading guidelines are being followed during transportation of mineral. Photographs of Tarpaulin Covered Vehicle and PUC Certificate are attached below.



Tarpaulin covered Vehicle

Form 59  
[See rules 115 (2)]

**Pollution Under Control Certificate**

Authorised By : Government of Jharkhand

Date : 02/07/2025  
Time : 18:43:23 PM  
Validity upto : 01/07/2026

Certificate No. : JH01900240000826  
Registration No. : JH031625  
Date of Registration : 29/Aug/2023  
Month & Year of Manufacturing : February-2023  
Valid Mobile Number : \*\*\*\*\*1300  
Emission Norms : BS&CAT STAGE VI  
Fuel : DIESEL  
PUC Code : JH0190024  
GSTN :  
Fees : Rs.120.00  
ML observation : No

Vehicle Photo with Registration plate  
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	Carbon Monoxide (CO)	percentage (%)	4	
Idling Emissions	Hydrocarbon, (THC/HC)	ppm		
	CO	percentage (%)		
High idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	0.7	0.6

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://puc.parivahan.gov.in>

Authorised Signature with stamp of PUC Operator  
60mm x 20 mm

PUC Certificate

**Condition 14-** Drills should either be operated with dust extractors or should be equipped with a water injection system.

**Reply to Condition 14-** Wet drilling is in practice



Wet drilling is being carried out.

**Condition 15- 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 to Condition 15-** Blasting time is fixed during Lunch Time i.e. 1.00 PM-2.00 PM. We have control blasting permission. Controlled blasting method is in practice. Ground vibration study has been conducted periodically. Efforts and mitigative measures are being taken to reduce the impact of the blast.

**Condition 16- Consent to operate should be obtained from SPCB prior to start of enhanced production from the mine.**

**Reply to Condition 16-** We have already obtained the Consent to Operate for Bauxite Ore as per production capacity mentioned in EC.

**Condition 17- Sewage treatment plant should be installed for the colony. ETP should also be provided for workshops and wastewater generated from mining operations.**

**Reply to Condition 17-** 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 are generated in workshop from washing vehicles and Effluent treatment plant (ETP) has been installed for this effluent. The treated water is in close circuit and is being reused for washing vehicles in the workshop. Photograph of ETP is attached below:

Furthermore, the quality of this treated water is being monitored regularly, and the monitoring report is enclosed herewith as **Annexure 2**. The sewage water from domestic uses is being collected through individual Septic Tank and followed by Soak Pit.



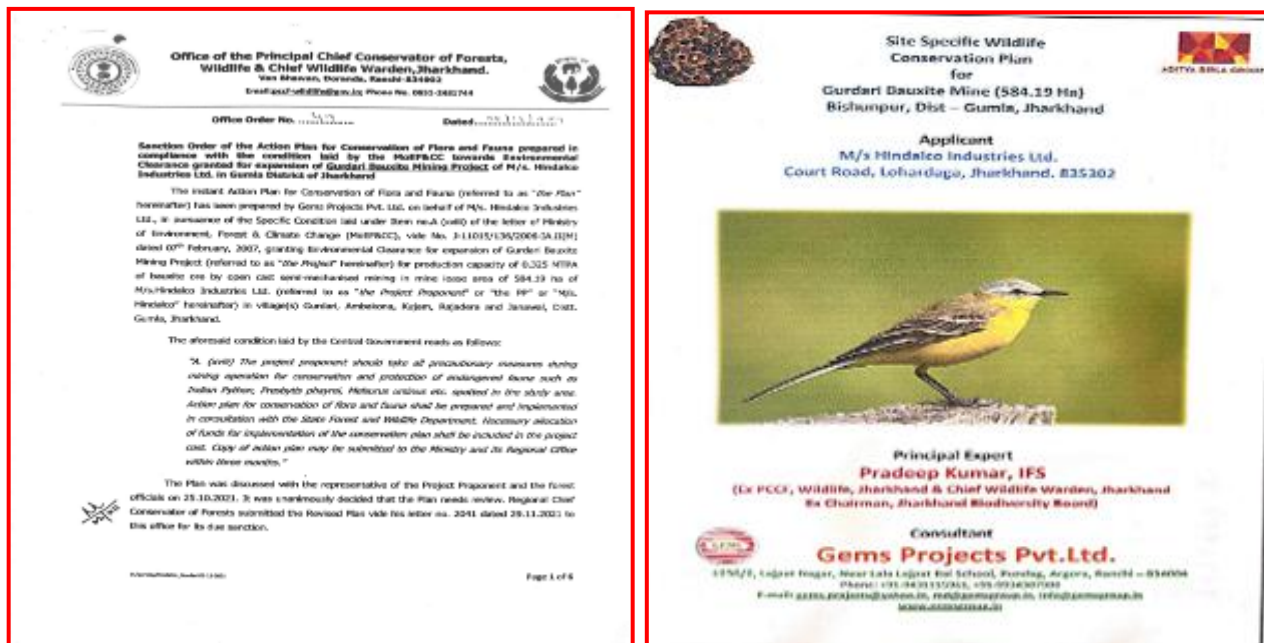
Effluent treatment Plant (ETP)

**Condition 18-** The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered fauna such as Indian Python, *Presbytis phayrei*, *Melurus ursinus* etc. Spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. The necessary allocation of funds for implementation of the conservation plan shall be made and the funds so allocated shall be included in the project cost. A copy of the action plan may be submitted to the Ministry and its Regional Office within 3 months.

**Reply to Condition 18-** Safeguard Measures already implemented and being implemented as suggested by forest department are as follows: -

1. Minimum level of Noise during Mining.
2. Permanent pillars are established within the mine lease area.
3. Daily water sprinkling on haul road.
4. Transportation is carried out during the daytime only.
5. Maintenance of mineral transportation road is being done regularly.
6. Social activities are being undertaken in nearby areas etc.

We have also prepared Site-Specific Wildlife Conservation Plan (WLCP) in consultation with State Forest Department and obtained approval letter from Principal Chief Conservator of Forest, Wildlife & Chief Wildlife Warden, Jharkhand via Office Order No. 48 dated 02.12.2021 for conservation and protection of flora and fauna in the core and buffer zone for Gurdari Bauxite Mine. A copy of same Approval letter has been submitted to your good office on 21.02.2022



Site Specific Wildlife Conservation Plan

**Condition 19- 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 to Condition 19-** Mining Plan along with progressive mine closure plan has been approved by Indian Bureau of Mines. Final Mine Closure Plan will be submitted in due time as per applicable guidelines and timelines mentioned in MCDR/IBM guidelines who are competent authorities to approve the same. Based on present resource estimate and peak rated production capacity mentioned in EC, Mining operation is being carried out.

## **B. General Conditions**

**Condition 1- No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forest.**

**Reply to Condition 1-** Noted.

**Condition 2- No change in the calendar plan including excavation, quantum of mineral bauxite and waste should be made.**

**Reply to Condition 2-** Calendar plan including excavation, quantum of mineral bauxite and waste is being done as per IBM approved mining scheme and in scientific manner. Data pertaining to excavation, quantum of mineral bauxite etc. are mentioned in report attached as **Annexure 4**.

**Condition 3- Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO<sub>2</sub>, NO<sub>x</sub> 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 to Condition 3-** We have already established four ambient air quality monitoring stations in the core zone as well as the buffer zone. Monitoring is being carried out and reported to the concerned authorities. Monitoring Report is attached as **Annexure 2**.

**Condition 4- Data on ambient air quality (RPM, SPM, SO<sub>2</sub>, NO<sub>x</sub>) should be regularly submitted to the Ministry including its Regional office located at Bhubneshwar and the State Pollution Control Board / Central pollution Control Board once in six months.**

**Reply to Condition 4-** Being adhered to. Monitoring Reports for the reporting period are attached as **Annexure-2**. Now, The Regional Office of MoEF&CC is in Ranchi.

**Condition 5- 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 to Condition 5-** Water tankers have been provided for sprinkling of water on haul roads and active mining areas to suppress the fugitive dust. Water spraying at loading, unloading, etc. is also being done regularly.



Water Tanker for dust suppression

**Condition 6- 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 to Condition 6-** Noise monitoring is being done regularly. Workers engaged in the operation of HEMMs, etc., have also been provided with PPEs such as ear plugs and earmuffs. The Monitoring of noise levels is being conducted at various locations of the work zone area. The report is attached as **Annexure 2**.

**Condition 7- Industrial wastewater (workshops and wastewater from the mine) Should be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 19<sup>th</sup> May 1993 and 31<sup>st</sup> December 1993 or as amended from time to time. Oil and grease traps should be installed before discharge of workshop effluents.**

**Reply to Condition 7-** 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 are generated in workshop from washing vehicles and Effluent treatment plant (ETP) has been installed for this effluent. The treated water is in close circuit and is being reused for washing vehicles in the workshop. Photograph of ETP is attached above.

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

**Condition 8- 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 to Condition 8-** All the workers have been provided with PPEs including dust mask and dust respirators. Apart from PPEs distribution to all workers, we are also providing adequate safety training and conducting awareness session on Safety and health aspects on regular basis. Periodical Occupational health surveillance program of the workers is being carried out and records maintained as per statute.

**Condition 9- 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 to Condition 9-** 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 attached herewith as **Annexure 3**.

**Condition 10- The project authorities should inform the Regional Office located at Bhubaneswar regarding the date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.**

**Reply to Condition 10-** This is an operating mine. Hence, the provision related to financial closure is not applicable. Now, the regional office of MoEF&CC is in Ranchi.

**Condition 11- The funds earmarked for environmental protection measures should be kept in separate accounts and should not be diverted for other purposes. Year-wise expenditure should be reported to the Ministry and its Regional Office located at Bhubaneswar.**

**Reply to Condition 11-** Every year, the funds earmarked for environmental protection measures are being budgeted separately 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 12-** The Regional Office of this Ministry located at Bhubaneshwar 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 to Condition 12-** Noted and Agreed.

**Condition 13-** A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.

**Reply to Condition 13-** Complied. A copy of the clearance letter has already been submitted.

**Condition 14-** 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 to Condition 14-** Noted. The EC Letter has been submitted to JSPCB for display of same at its regional office and other government offices.

**Condition 15-** 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 Bhubaneshwar.

**Reply to Condition 15-** 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 vide letter no HIL/GMO(M)/ENV/140 Dated 23.04.2007. Now, the regional office of MoEF&CC is in Ranchi.

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**Piezometer Monitoring Report**

**Mine: Gurdari Bauxite Mine (584.19 Ha)**

<b>S No</b>	<b>Month</b>	<b>Ground Water Level (BGL) in meter</b>
1	Oct-25	32.55
2	Nov-25	32.77
3	Dec-25	32.93
4	Jan-26	33.09
5	Feb-26	33.19
6	Mar-26	33.41



# 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:-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 Certificate

<b>Unique Lab Report No.</b>	TC1288725000001338	<b>Discipline</b>	Chemical
<b>Report Unique ID</b>	RL03252541036	<b>Group</b>	Atmospheric Pollution
<b>Issue date/time</b>	14.10.2025/ 15:39	<b>Sub Group</b>	Ambient Air Quality

### Report Issue to

<b>M/s - HINDALCO INDUSTRIES LIMITED</b> VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA, DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302 <b>MONITORING SITE: GURDARI BAUXITE MINE</b>	<b>Contact Person</b> <b>Contact Number</b> <b>Email Id</b> <b>Order Date</b> <b>Order Number</b>	Mr. Girija Tamrakar +91 9111006074 girija.tamrakar@adityabiria.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/0325	Sample Booking Number	EPIC-2541036
Sample(s) Code	2541036 (A) (B) (C) (D)	Sample Receipt (D/T)	11.10.2025/ 11:03

### Sampling References

Type of Industry	Bauxite Mines	Ref. of Sampling Plan	EPIC/LAB/R/036
Sampling Start (D/T)	09.10.2025/ 11:05	Sampling End (D/T)	10.10.2025/ 10:32
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Vishal 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 %	66	Wind direction	90°-270°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/ 84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/ 84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/ 84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/ 84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	11.10.2025/ 11:23	Test completion date	14.10.2025/ 12:00
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### --Test Results--

Sl	Test Parameters	Method used	Unit	Results				Limits
				A	B	C	D	
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 (P-23) 2022	µg/m <sup>3</sup>	57.17	57.71	54.02	55.95	100 (24 hr)
2.	Fine Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (P-24) 2019	µg/m <sup>3</sup>	26.36	23.32	25.87	26.04	60(24 hr)
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (P-02) 2023	µg/m <sup>3</sup>	09.02	07.13	08.29	07.13	80(24 hr)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (P-06) 2022	µg/m <sup>3</sup>	19.03	17.83	18.02	17.81	80(24 hr)
5.	Ammonia (NH <sub>3</sub> )	IS:5182 (P-25) 2018	µg/m <sup>3</sup>	26.55	26.23	25.92	25.60	400(24 hr)
6.	Ozone (O <sub>3</sub> )	IS:5182 (P-09) 2019	µg/m <sup>3</sup>	22.97	25.12	27.27	24.04	180(1 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 Mangaraj



**Reviewed by**  
(R.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. Option 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 -  
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 :-  
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	RL03252541036	Group	Atmospheric Pollution
Issue date/time	14.10.2025/ 15:39	Sub Group	Ambient Air Quality

### Report Issue to

<b>M/s - HINDALCO INDUSTRIES LIMITED</b> VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA, DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302 <b>MONITORING SITE: GURDARI BAUXITE MINE</b>	<b>Contact Person</b> <b>Contact Number</b> <b>Email Id</b> <b>Order Date</b> <b>Order Number</b>	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/0325	Sample Booking Number	EPIC-2541036
Sample(s) Code	2541036 (A) (B) (C) (D)	Sample Receipt (D/T)	11.10.2025/ 11:03

### Sampling References

Type of Industry	Bauxite Mines	Ref. of Sampling Plan	EPIC/LAB/R/036
Sampling Start (D/T)	09.10.2025/ 11:05	Sampling End (D/T)	10.10.2025/ 10:32
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Vishal 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 %	66	Wind direction	90°-270°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/ 84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/ 84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/ 84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/ 84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	11.10.2025/ 11:23	Test completion date	14.10.2025/ 12:00
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### --Test Results--

Sl	Test Parameters	Method used	Unit	Results				Limits
				A	B	C	D	
1.	Benzene (C <sub>6</sub> H <sub>6</sub> )	IS:5182(P-11) 2006	µg/m <sup>3</sup>	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 <sup>3</sup>	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 <sup>3</sup>	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 Margara



*(Signature)*  
Reviewed by  
(E.N. Kumar)  
Technical Head



**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 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. |

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Jharkhand - 834005, India

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

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

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

## Analytical Test Certificate

<b>Unique Lab Report No.</b>	N/A	<b>Discipline</b>	Chemical
<b>Report Unique ID</b>	RL03252541037	<b>Group</b>	Atmospheric Pollution
<b>Issue date/time</b>	14.10.2025/ 15:42	<b>Sub Group</b>	DG Stack

### Report Issue to

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

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

### References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0325	Sample Booking Number	EPIC-2541037
Sample(s) Code	2541037	Sample Receipt (D/T)	11.10.2025/ 11:04

### Sampling References

Type of Industry	Bauxite Mines	Ref. of Sampling Plan	EPIC/LAB/R/036
Sampling Start (D/T)	09.10.2025/ 13:10	Sampling End (D/T)	09.10.2025/ 14:30
Mode of Sampling	Conducted by laboratory	Sample collected by	Mr. Vishal Kumar & Team
Sampling method used	IS: 11255 & CPCB Guideline (Lats/80/2013-14)		
Description/condition of sample	Receipt sample(s) were fit for analysis		

### Environmental Condition during sampling

Weather condition	Cloudy	Temperature (°C)	26	Humidity %	66	Wind direction	90°-270°
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### Sampling Location(s) with GPS coordinate(s)

<b>S. Location</b>	Stack	<b>GPS coordinate</b>	23° 18' 59.58" / 84° 14' 44.18"
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### Field observation by laboratory's personnel

<b>Stack Description (Shape &amp; Material)</b>	Circular/ Metal
<b>Emission Source</b>	DG
<b>Stack Gas Temperature (K)</b>	412

### Data provided by customer

<b>Type of fuel Used</b>	HSD
<b>Total production Capacity</b>	62.3 KVA
<b>Barometric Pressure (Pbar) mmHg</b>	746

### Date(s) of performance of the laboratory activities

<b>Test start date/time</b>	11.10.2025/ 11:23	<b>Test completion date/time</b>	14.10.2025/ 12:00
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### --Test Result--

Sl	Parameters	Test Method	Units	Results	Limits
1.	Stack gas Velocity	IS 11255 (Part 3)2018	m/s	11.54	-
2.	Volumetric Flow Rate	IS 11255 (Part 3)2018	Nm <sup>3</sup> /hr	113.26	-
3.	Particulate Matter (PM)	IS 11255 (Part 1)2019	mg/Nm <sup>3</sup>	30.90	-
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (Part 2)2019	mg/Nm <sup>3</sup>	32.85	-
5.	Oxides of Nitrogen (NO <sub>x</sub> )	IS 11255 (Part 7)2022	mg/Nm <sup>3</sup>	128.92	-
6.	Carbon Monoxide (CO)	IS 13270 2009	%	BDL(MDL-0.5)	-
7.	Carbon Dioxide (CO <sub>2</sub> )	IS 13270 2009	%	5.6	-
8.	Oxygen(O <sub>2</sub> )	IS 13270 2009	%	14.8	-

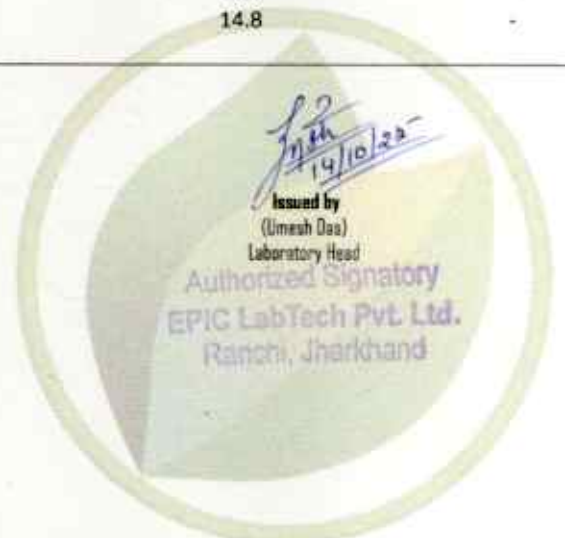
### --Test Result End --

**Operational Status** Unit was Operational during sampling.

Analyzed by - Vishal Mangaraj



  
**Reviewed by**  
(B.N. Kumar)  
Technical Head



**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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Jharkhand - 834005, India

0651 4666392  
98357 86577  
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

## Analytical Test Report

<b>Unique Lab Report No.</b>	TC1288725000001465	<b>Discipline</b>	Chemical
<b>Report Unique ID</b>	RL03652547051	<b>Group</b>	Atmospheric Pollution
<b>Issue date/time</b>	24.11.2025/ 16:45	<b>Sub Group</b>	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: GURDARI BAUXITE MINE

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

### References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0365	Sample Booking Number	EPIC-2547051
Sample(s) Code	2547051 (A) (B) (C) (D)	Sample Receipt (D/T)	20.11.2025/ 11:10

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.11.2025/ 10:10	Sampling End (D/T)	19.11.2025/ 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)	22	Humidity %	62	Wind direction	0°-180°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	20.11.2025/ 11:35	Test completion date	24.11.2025/ 11:45
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### --Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits <small>(24 hr)</small>
					A	B	C	D	
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 (P-23) 2022	µg/m <sup>3</sup>	10	58.77	58.20	55.83	56.62	100 (24 hr)
2.	Fine Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (P-24) 2019	µg/m <sup>3</sup>	8	27.29	24.25	26.81	28.02	60 (24 hr)
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (P-02) 2023	µg/m <sup>3</sup>	5	10.82	08.60	09.62	08.48	80 (24 hr)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (P-06) 2022	µg/m <sup>3</sup>	6	20.94	18.34	19.36	18.48	80 (24 hr)
5.	Ozone (O <sub>3</sub> )	IS:5182 (P-09) 2019	µg/m <sup>3</sup>	10	23.79	26.58	28.68	25.19	180 (1 hr)
6.	Ammonia (NH <sub>3</sub> )	IS:5182 (P-25) 2018	µg/m <sup>3</sup>	10	27.84	27.54	26.65	26.35	400 (24 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m <sup>3</sup>	0.1	BDL	BDL	BDL	BDL	1.0 (24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m <sup>3</sup>	5	BDL	BDL	BDL	BDL	-
9.	Arsenic (As)	USEPA IO 3.2:1999	ng/m <sup>3</sup>	2	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

Test Report End

*[Signature]*  
Issue by  
(Vineesh Das)  
Laboratory Head

Authorized Signatory  
EPIC LabTech Pvt. Ltd.  
Ranchi, Jharkhand

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GST: -20AAHCE3611M1ZK

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	RL03652547051	Group	Atmospheric Pollution
Issue date/time	24.11.2025/ 16:45	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: GURDARI 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/0365	Sample Booking Number	EPIC-2547051
Sample(s) Code	2547051 (A) (B) (C) (D)	Sample Receipt (D/T)	20.11.2025/ 11:10

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.11.2025/ 10:10	Sampling End (D/T)	19.11.2025/ 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)	22	Humidity %	62	Wind direction	0°-180°
-------------------	--------	------------------	----	------------	----	----------------	---------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/84° 14' 16.11"
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S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	20.11.2025/ 11:35	Test completion date	24.11.2025/ 11:45
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### --Test Results Start--

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

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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epiclabtech@gmail.com

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GST:-20AAHCE3611M1ZX

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 Report

Unique Lab Report No.	TC1288725000001466	Discipline	Chemical
Report Unique ID	RL03652547052	Group	Water
Issue date/time	24.11.2025/ 16:48	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: GURDARI 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/0365	Sample Booking Number	EPIC-2547052
Sample(s) Code	2547052	Sample Receipt (D/T)	20.11.2025/ 11:11

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.11.2025/ 16:10	Sampling End (D/T)	18.11.2025/ 16:20
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 %	62	Wind direction	0°-180°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near office	GPS coordinate	23° 19' 00.28"/ 84° 14' 44.95"
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### Date(s) of performance of the laboratory activities

Test start date	20.11.2025/ 11:31	Test completion date	24.11.2025/ 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	6.98	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	193.0	500	2000
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	30.99	250	1000
8.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23) 2019	mg/l	10	95.00	200	600
9.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21) 2009	mg/l	10	108.00	200	600
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	20.84	75	200
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	0.2	1
12.	Sulphate (as SO <sub>4</sub> )	IS 3025 (P-24/Sec-1) 2022	mg/l	0.3	7.8	200	400
13.	Nitrate (as NO <sub>3</sub> )	APHA 4500 B 2023	mg/l	0.4	1.69	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	13.6	30	100



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0651 4666392  
98357 86677  
93049 73994  
epiclabtech@gmail.com

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PAN:-AAHCE3611M  
GST:-20AAHCE3611M1ZX

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

TC-12887

## Analytical Test Report

Unique Lab Report No.	TC1288725000001466	Discipline	Chemical
Report Unique ID	RL03652547052	Group	Water
Issue date/time	24.11.2025/16:48	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: GURDARI 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



*(Signature)*  
Reviewed by  
(B.N. Kumar)  
Technical Head

Test Report End

*(Signature)*  
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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PAN:-AAHCE3611M Certified by -  
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GST:-20AAHCE3611MTZX

## Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03652547052	Group	Water
Issue date/time	24.11.2025/ 16:48	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: GURDARI 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/0365	Sample Booking Number	EPIC-2547052
Sample(s) Code	2547052	Sample Receipt (D/T)	20.11.2025/ 11:11

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.11.2025/ 16:10	Sampling End (D/T)	18.11.2025/ 16:20
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 %	62	Wind direction	0°-180°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near office	GPS coordinate	23° 19' 00.28"/ 84° 14' 44.95"
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### Date(s) of performance of the laboratory activities

Test start date	20.11.2025/ 11:31	Test completion date	24.11.2025/ 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	1.5
<b>Group-Residues and Contaminants in Water</b>						<b>Sub Group-Trace Metals Elements</b>	
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
<b>Group-Residues and Contaminants in Water</b>						<b>Sub Group-Pesticides</b>	
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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Accredited by :-  
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## Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03652547052	Group	Water
Issue date/time	24.11.2025/ 16:48	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: GURDARI 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

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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**Abbreviation:** - IDL (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	Biological
Report Unique ID	RL03652547053	Group	Water
Issue date/time	24.11.2025/ 16:51	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: GURDARI 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/0365	Sample Booking Number	EPIC-2547053
Sample(s) Code	2547053	Sample Receipt (D/T)	20.11.2025/ 11:12

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.11.2025/ 16:10	Sampling End (D/T)	18.11.2025/ 16:20
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 %	62	Wind direction	0°-180°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near office	GPS coordinate	23° 19' 00.28" / 84° 14' 44.95"
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### Date(s) of performance of the laboratory activities

Test start date	20.11.2025/ 11:00	Test completion date	24.11.2025/ 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



*(Signature)*  
Reviewed by  
(B.N. Kumar)  
Technical Head

Test Report End

*(Signature)*  
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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TC-12887

## Analytical Test Report

Unique Lab Report No.	TC1288725000001467	Discipline	Chemical
Report Unique ID	RL03652547054	Group	Water
Issue date/time	24.11.2025/ 16:54	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: GURDARI 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/0365	Sample Booking Number	EPIC-2547054
Sample(s) Code	2547054	Sample Receipt (D/T)	20.11.2025/ 11:13

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.11.2025/ 17:05	Sampling End (D/T)	18.11.2025/ 17:15
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 %	62	Wind direction	0°-180°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Main Gate	GPS coordinate	23° 18' 59.53"/ 84° 14' 43.89"
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### Date(s) of performance of the laboratory activities

Test start date	20.11.2025/ 11:29	Test completion date	24.11.2025/ 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	6.98	6.5-8.5	No relaxation
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	0.58	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	260.0	500	2000
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	34.98	250	1000
8.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23) 2019	mg/l	10	158.0	200	600
9.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21) 2009	mg/l	10	158.0	200	600
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	25.65	75	200
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	0.2	1
12.	Sulphate (as SO <sub>4</sub> )	IS 3025 (P-24/Sec-1)2022	mg/l	0.3	9.10	200	400
13.	Nitrate (as NO <sub>3</sub> )	APHA 4500 B 2023	mg/l	0.4	1.98	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	22.84	30	100



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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.	TC1288725000001467	Discipline	Chemical
Report Unique ID	RL03652547054	Group	Water
Issue date/time	24.11.2025/ 16:54	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: GURDARI 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	Standard	Unit	Result	Limit	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  
(Umesha 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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98357 86677  
93049 73994  
epiclabtech@gmail.com

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

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	RL03652547054	Group	Water
Issue date/time	24.11.2025/ 16:54	Sub Group	Ground Water

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

<b>References of Quality Management System (Steps of Traceability Chain)</b>			
Customer Registration No.	EPIC/OTH/0365	Sample Booking Number	EPIC-2547054
Sample(s) Code	2547054	Sample Receipt (D/T)	20.11.2025/ 11:13

<b>Sampling References</b>			
Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.11.2025/ 17:05	Sampling End (D/T)	18.11.2025/ 17:15
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.		

<b>Environmental Condition during sampling</b>			
Weather condition	Cloudy	Temperature (°C)	22
		Humidity %	62
		Wind direction	0°-180°

<b>Sampling Location(s) with GPS coordinate(s)</b>			
S. Location A	Near Main Gate	GPS coordinate	23° 18' 59.53"/ 84° 14' 43.89"

<b>Date(s) of performance of the laboratory activities</b>			
Test start date	20.11.2025/ 11:29	Test completion date	24.11.2025/ 12:40

### --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
<b>Group-Residues and Contaminants in Water</b>						<b>Sub Group-Trace Metals Elements</b>	
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
<b>Group-Residues and Contaminants in Water</b>						<b>Sub Group-Pesticides</b>	
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



**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 86577  
93049 73994  
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685  
PAN:-AAHCE3611M  
GST:-20AAHCE3611M1Z

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## Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL03652547054	Group	Water
Issue date/time	24.11.2025/ 16:54	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: GURDARI 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

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.K. 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





# 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  
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## Analytical Test Report

Unique Lab Report No.	N/A	Discipline	Biological
Report Unique ID	RL03652547055	Group	Water
Issue date/time	24.11.2025/ 16:57	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: GURDARI 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/0365	Sample Booking Number	EPIC-2547055
Sample(s) Code	2547055	Sample Receipt (D/T)	20.11.2025/ 11:13

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.11.2025/ 17:05	Sampling End (D/T)	18.11.2025/ 17:15
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 %	62	Wind direction	0°-180°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Main Gate	GPS coordinate	23° 18' 59.53"/ 84° 14' 43.89"
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### Date(s) of performance of the laboratory activities

Test start date	20.11.2025/ 11:00	Test completion date	24.11.2025/ 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



*(Signature)*

Reviewed by  
(B.N. Kumar)  
Technical Head

Test Report End

*(Signature)*  
24/11/25

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. - 3, Ranchi,  
Jharkhand - 834005, India

0651 4666392  
98357 86677  
93049 73994  
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685  
PAN:-AAHCE3611M  
GST:-20AAHCE3611M1Zx

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NABL vide certificate Number TC - 12887  
Jharkhand State Pollution Control Board  
Certified by :-  
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TC-12887

## Analytical Test Report

Unique Lab Report No.	TC1288725000001468	Discipline	Chemical
Report Unique ID	RL03652547056	Group	Water
Issue date/time	24.11.2025/ 17:00	Sub Group	Waste Water (Effluent)

### Report Issue to

#### M/s - HINDALCO INDUSTRIES LIMITED

VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,  
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302  
MONITORING SITE: GURDARI 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/0365	Sample Booking Number	EPIC-2547056
Sample(s) Code	2547056	Sample Receipt (D/T)	20.11.2025/ 11:15

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.11.2025/ 12:30	Sampling End (D/T)	18.11.2025/ 12:40
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 %	62	Wind direction	0°-180°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Work Shop (Outlet)	GPS coordinate	23° 18' 59.08" / 84° 14' 44.70"
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### Date(s) of performance of the laboratory activities

Test start date	20.11.2025/ 11:35	Test completion date	24.11.2025/ 12:40
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### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	pH value at 25.9°C	IS 3025 (P-11) 2022	-	0.7	6.91	6.5-8.5
2.	BOD (3 days at 27°C)	IS 3025 (P-44) 2000	mg/l	0.3	15.0	--
3.	COD	IS 3025 (P-58) 2006	mg/l	8.0	72.00	150.0
4.	Oil & Grease	IS 3025 (P-39) 2021	mg/l	4.0	BDL	10.0
5.	Total Suspended Solid	IS 3025 (P-17) 2022	mg/l	10.0	48.00	50.0
6.	Phosphate	IS 3025 (P-31/Sec-1) 2022	mg/l	0.2	0.58	-
7.	Zinc (as Zn)	APHA 3111 B 2023	mg/l	0.04	BDL	-

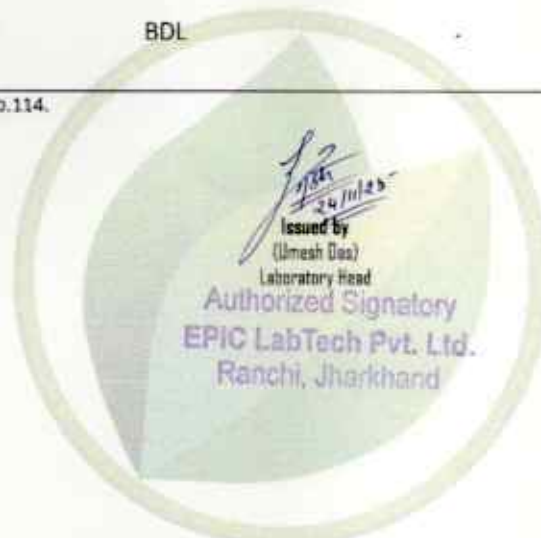
### --Test Result End --

Prescribed Limit Environmental (Protection) Rules-1986, Schedule -I, Serial No.114.

Analysed by - Pappu Kumar



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





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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

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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	RL03652547056	Group	Water
Issue date/time	24.11.2025/ 17:00	Sub Group	Waste Water (Effluent)

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

<b>References of Quality Management System (Steps of Traceability Chain)</b>			
Customer Registration No.	EPIC/OTH/0365	Sample Booking Number	EPIC-2547056
Sample(s) Code	2547056	Sample Receipt (D/T)	20.11.2025/ 11:15

<b>Sampling References</b>			
Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	18.11.2025/ 12:30	Sampling End (D/T)	18.11.2025/ 12:40
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.		

<b>Environmental Condition during sampling</b>			
Weather condition	Cloudy	Temperature (°C)	22
		Humidity %	62
		Wind direction	0°-180°

<b>Sampling Location(s) with GPS coordinate(s)</b>			
S. Location A	Work Shop (Outlet)	GPS coordinate	23° 18' 59.08"/84° 14' 44.70"

<b>Date(s) of performance of the laboratory activities</b>			
Test start date	20.11.2025/ 11:35	Test completion date	24.11.2025/ 12:40

### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	Total Dissolve Solids (TDS)	IS 3025 (P-16) 2023	mg/l	10	666.0	-
2.	Dissolve Oxygen (DO)	IS 3025 (P-38) 1986	mg/l	0.2	1.8	-

### --Test Result End--

**Prescribed Limit** Environmental (Protection) Rules-1986, Schedule -I, Serial No.114.

Analysed by - Pappu Kumar



*B.K. Kumar*  
Reviewed by  
(B.N. Kumar)  
Technical Head

Test Report End

*Umesh Das*  
Issued by  
(Umesh Das)  
Laboratory Head



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

TC-12887

## Analytical Test Report

Unique Lab Report No.	TC1288725000001616	Discipline	Chemical
Report Unique ID	RL04032551004	Group	Atmospheric Pollution
Issue date/time	18.12.2025/ 16:39	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: GURDARI 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/0403	Sample Booking Number	EPIC-2551004
Sample(s) Code	2551004 (A) (B) (C) (D)	Sample Receipt (D/T)	15.12.2025/ 10:40

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	12.12.2025/ 11:40	Sampling End (D/T)	13.12.2025/ 08:10
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	Clear	Temperature (°C)	22	Humidity %	63	Wind direction	90°-270°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/ 84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/ 84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/ 84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/ 84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	15.12.2025/ 11:20	Test completion date	18.12.2025/ 14:45
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### --Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 (P-23) 2022	µg/m <sup>3</sup>	10	59.82	60.05	57.02	57.96	100 (24 hr)
2.	Fine Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (P-24) 2019	µg/m <sup>3</sup>	8	29.19	25.65	27.85	26.46	60 (24 hr)
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (P-02) 2023	µg/m <sup>3</sup>	5	11.96	09.02	10.86	09.90	80 (24 hr)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (P-06) 2022	µg/m <sup>3</sup>	6	21.86	20.92	22.12	21.32	80 (24 hr)
5.	Ozone (O <sub>3</sub> )	IS:5182 (P-09) 2019	µg/m <sup>3</sup>	10	24.84	27.98	29.03	26.93	180 (1 hr)
6.	Ammonia (NH <sub>3</sub> )	IS:5182 (P-25) 2018	µg/m <sup>3</sup>	10	28.53	29.99	29.11	28.82	400 (24 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m <sup>3</sup>	0.1	BDL	BDL	BDL	BDL	1.0 (24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m <sup>3</sup>	5	BDL	BDL	BDL	BDL	-
9.	Arsenic (As)	USEPA IO 3.2:1999	ng/m <sup>3</sup>	2	BDL	BDL	BDL	BDL	-

### --Test Results End--

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

Analysed by - Rajesh Varma



Reviewed by  
(S.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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PAN:-AAHCE3611M  
GST:-20AAHCE3611M12X

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	RL04032551004	Group	Atmospheric Pollution
Issue date/time	18.12.2025/ 16:39	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@adityabirta.com
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302		Order Date	31.03.2025/ 10:10
MONITORING SITE: GURDARI BAUXITE MINE		Order Number	13612313868

References of Quality Management System (Steps of Traceability Chain)			
Customer Registration No.	EPIC/OTH/0403	Sample Booking Number	EPIC-2551004
Sample(s) Code	2551004 (A) (B) (C) (D)	Sample Receipt (D/T)	15.12.2025/ 10:40

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)	12.12.2025/ 11:40	Sampling End (D/T)	13.12.2025/ 08:10
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 %	63	Wind direction	90°-270°

Sampling Location(s) with GPS coordinate(s)			
S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/84° 15' 42.03"

Date(s) of performance of the laboratory activities			
Test start date	15.12.2025/ 11:20	Test completion date	18.12.2025/ 14:45

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

Issue by  
(Ajmesh 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:-U74999JH2022PTC019685  
PAN:-AARCE3611M  
GST:-20AAHCE3611M12X

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.	TC1288725000001617	Discipline	Chemical
Report Unique ID	RL04032551005	Group	Atmospheric Pollution
Issue date/time	18.12.2025/ 16:42	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: GURDARI 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/0403	Sample Booking Number	EPIC-2551005
Sample(s) Code	2551005 (A) (B) (C) (D)	Sample Receipt (D/T)	15.12.2025/ 10:41

### 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)	12.12.2025/ 11:40	Sampling End (D/T)	13.12.2025/ 08:10
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	Clear	Temperature (°C)	22	Humidity %	63	Wind direction	90°-270°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	15.12.2025/ 11:20	Test completion date	18.12.2025/ 15:05
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### --Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	L <sub>eq</sub> (Day time)	IS: 9889:1981	dB (A)	30	58.3	53.6	62.2	53.2	75
2.	L <sub>eq</sub> (Night time)	IS: 9889:1981	dB (A)	30	48.1	43.6	49.0	40.9	70

### --Test Results End--

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

Analysed by - Rajesh Varma



  
Reviewed by  
(S.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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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 :-  
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	RL04032551006	Group	Atmospheric Pollution
Issue date/time	18.12.2025/ 16:45	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: GURDARI 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/0403	Sample Booking Number	EPIC-2551006
Sample(s) Code	2551006 (A) (B)	Sample Receipt (D/T)	15.12.2025/ 10:42

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input checked="" type="checkbox"/>
Sampling Start (D)	12.12.2025	Sampling End (D)	12.12.2025
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 %	63	Wind direction	90°-270°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Kathuapani Pit	GPS coordinate	23° 20' 45.09" / 84° 14' 07.09"
S. Location B	Gurdari Bauxite Mine (584.19 ha)	GPS coordinate	23° 20' 46.01" / 84° 14' 08.10"

### Date(s) of performance of the laboratory activities

Test start date	15.12.2025/ 11:20	Test completion date	18.12.2025/ 15:00
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### --Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results		Limits
					A	B	
1.	L <sub>eq</sub> (Day time)	IS: 9989:1961	dB (A)	30	67.7	72.5	65

### --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  
(Himesh 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 Quantification). |



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

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

CIN:-U74999JH2022PTC019685  
PAN:-AAHCE3611M  
GST:-20AAHCE3611MTZX

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

## Test Report



Unique Lab Report No.	TC1288726000000041	Discipline	Chemical
Report Unique ID	RL04322602023	Group	Water
Issue date/time	13.01.2026/ 17:39	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602023
Sample(s) Code	2602023	Sample Receipt (D/T)	10.01.2026/ 10:50

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 12:40	Sampling End (D/T)	08.01.2026/ 12:51
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 %	58	Wind direction	40°-220°
-------------------	--------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Sank River (Down Stream)	GPS coordinate	23° 17' 00.79"/ 84° 13' 40.54"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:10	Test completion date	13.01.2026/ 16:00
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### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	pH value at 25.7°C	IS 3025 (P-11) 2022	-	0.7	7.12	-
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	9.92	-
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	200.0	-
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	32.52	-
8.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23) 2019	mg/l	10	100.0	-
9.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21) 2009	mg/l	10	146.58	-
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	26.45	-
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	-
12.	Sulphate (as SO <sub>4</sub> )	IS 3025 (P-24/Sec-1) 2022	mg/l	0.3	4.90	-
13.	Nitrate (as NO <sub>3</sub> )	APHA 4500 B 2023	mg/l	0.4	2.14	-
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	19.58	-



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Indrapuri, Road No. - 3,  
Ranchi, Jharkhand - 834005,  
India

0651 4666392  
98357 86677  
93049 73994  
epiclabtech@gmail.com

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

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

## Test Report



Unique Lab Report No.	TC1288726000000041	Discipline	Chemical
Report Unique ID	RL04322602023	Group	Water
Issue date/time	13.01.2026/ 17:39	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: GURDARI 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
<b>Group - Residues and Contaminants in Water, Sub Group - Trace Metals Elements</b>					
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
<b>Group - Residues and Contaminants in Water, Sub Group - Pesticides</b>					
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-chlordane	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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Indrapuri, Road No. - 5,  
Ranchi, Jharkhand - 834005,  
India

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

CIN:-U74999JH2022PTC019685  
PAN:-AAHCE3611M  
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Accredited by -  
NABL wide certificate number IC-17857  
Jharkhand State Pollution Control Board  
Certified by:-  
ISO 9001:2015 and ISO 45001:2018

## Test Report



Unique Lab Report No.	TC1288726000000041	Discipline	Chemical
Report Unique ID	RL04322602023	Group	Water
Issue date/time	13.01.2026/ 17:39	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: GURDARI 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

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



*(Signature)*  
**Reviewed by**  
(B.N. Kumar)  
Technical Head

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

*(Signature)*  
13/01/26  
**Issued by**  
(Umesh Das)  
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  
98357 86677  
93049 73994  
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685  
PAN:-AAHCE3611M  
GST:-20AAHCE3611M1Z

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	RL04322602023	Group	Water
Issue date/time	13.01.2026/ 17:39	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602023
Sample(s) Code	2602023	Sample Receipt (D/T)	10.01.2026/ 10:50

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 12:40	Sampling End (D/T)	08.01.2026/ 12:51
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Sank River (Down Stream)	GPS coordinate	23° 17' 00.79"/ 84° 13' 40.54"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:10	Test completion date	13.01.2026/ 16:00
-----------------	-------------------	----------------------	-------------------

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

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

CIN:-U74999JH2022PTC019685  
PAN:-AAHCE3611M  
GST:-20AAHCE3611MTZX

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	RL04322602024	Group	Water
Issue date/time	13.01.2026/ 17:42	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602024
Sample(s) Code	2602024	Sample Receipt (D/T)	10.01.2026/ 10:52

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 12:40	Sampling End (D/T)	08.01.2026/ 12:51
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Sank River (Down Stream)	GPS coordinate	23° 17' 00.79" / 84° 13' 40.54"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:15	Test completion date	13.01.2026/ 16:00
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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	-	420	
2.	E.Coli	IS 15185 2002	Per 100 ml	-	340	

### --Test Result End--

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



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

0651 4666392  
98357 86677  
93049 73984  
epiclabtech@gmail.com

CIN:-U74999JH2022PTCO19685  
PAN:-AAHCE3613M  
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.	TC1288726000000042	Discipline	Chemical
Report Unique ID	RL04322602025	Group	Water
Issue date/time	13.01.2026/ 17:45	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602025
Sample(s) Code	2602025	Sample Receipt (D/T)	10.01.2026/ 10:54

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 13:08	Sampling End (D/T)	08.01.2026/ 13:15
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 %	58	Wind direction	40°-220°
-------------------	--------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Sank River (Up Stream)	GPS coordinate	23° 15' 10.11"/84° 16' 15.92"
---------------	------------------------	----------------	-------------------------------

### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:10	Test completion date	13.01.2026/ 16:00
-----------------	-------------------	----------------------	-------------------

### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	pH value at 24.9°C	IS 3025 (P-11) 2022	-	0.7	7.31	-
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	8.12	-
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	198.0	-
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	31.04	-
8.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23) 2019	mg/l	10	105.0	-
9.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21) 2009	mg/l	10	150.60	-
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	27.25	-
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	-
12.	Sulphate (as SO <sub>4</sub> )	IS 3025 (P-24/Sec-1)2022	mg/l	0.3	5.00	-
13.	Nitrate (as NO <sub>3</sub> )	APHA 4500 B 2023	mg/l	0.4	2.11	-
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	20.07	-



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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.	TC1288726000000042	Discipline	Chemical
Report Unique ID	RL04322602025	Group	Water
Issue date/time	13.01.2026/ 17:45	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: GURDARI BAUXITE MINE**

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

16. Fluoride (as F)	APHA 4500 F-C 2023	mg/l	0.1	BDL	-
<b>Group - Residues and Contaminants in Water,</b>				<b>Sub Group - Trace Metals Elements</b>	
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	-

<b>Group - Residues and Contaminants in Water,</b>				<b>Sub Group - Pesticides</b>	
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-Chlordane	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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India

☎ 0651 4668392  
☎ 98357 86677  
☎ 93049 73994  
✉ epiclabtech@gmail.com

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

Accredited by -  
NABL, vide certificate Number TC - 13887  
Jharkhand State Pollution Control Board  
Certified by -  
ISO 9001:2015 and ISO 45001:2018

## Test Report



Unique Lab Report No.	TC1288726000000042	Discipline	Chemical
Report Unique ID	RL04322602025	Group	Water
Issue date/time	13.01.2026/ 17:45	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: GURDARI 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

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.	transchlordan	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  
(Umesh Das)  
Laboratory Head

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

Authorized Signatory  
EPIC LabTech Pvt. Ltd.  
Ranchi, Jharkhand



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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	RL04322602025	Group	Water
Issue date/time	13.01.2026/ 17:45	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602025
Sample(s) Code	2602025	Sample Receipt (D/T)	10.01.2026/ 10:54

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 13:08	Sampling End (D/T)	08.01.2026/ 13:15
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 %	58	Wind direction	40°-220°
-------------------	--------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Sank River (Up Stream)	GPS coordinate	23° 15' 10.11"/84° 16' 15.92"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:10	Test completion date	13.01.2026/ 16:00
-----------------	-------------------	----------------------	-------------------

### --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

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India

☎ 0651 466392  
☎ 98357 86677  
☎ 93049 73994  
✉ epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685 - Accredited by ->

PAN:-AAHCE3611M

GST:-20AAHCE3611M1ZK

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	RL04322602026	Group	Water
Issue date/time	13.01.2026/ 17:48	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602026
Sample(s) Code	2602026	Sample Receipt (D/T)	10.01.2026/ 10:55

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 13:08	Sampling End (D/T)	08.01.2026/ 13:15
Mode of Sampling	Conducted by Laboratory	Sample collected by	Mr. Akesh 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 %	58	Wind direction	40°-220°
-------------------	--------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Sank River (Up Stream)	GPS coordinate	23° 15' 10.11"/84° 16' 15.92"
---------------	------------------------	----------------	-------------------------------

### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:15	Test completion date	13.01.2026/ 16:00
-----------------	-------------------	----------------------	-------------------

### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	Total Coliform	IS 15185 2002	Per 100 ml	-	401	
2.	E.Coli	IS 15185 2002	Per 100 ml	-	350	

### --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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ISO 9001:2015 and ISO 45001:2018  
GST:-20AAHCE3611M1ZK

## Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04322602027	Group	Water
Issue date/time	13.01.2026/ 17:52	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602027
Sample(s) Code	2602027	Sample Receipt (D/T)	10.01.2026/ 10:56

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 14:48	Sampling End (D/T)	08.01.2026/ 14:56
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Dhardhani Nadi (Up Stream)	GPS coordinate	23° 19' 03.11" / 84° 16' 12.76"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:10	Test completion date	13.01.2026/ 16:00
-----------------	-------------------	----------------------	-------------------

### --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	-
<b>Group-Residues and Contaminants in Water</b>					<b>Sub Group- Trace Metals Elements</b>	
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  
(Jimesh Das)  
Laboratory Head

Authorized Signatory  
EPIC LabTech Pvt. Ltd.  
Ranchi, Jharkhand



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PAN:-AAHCE3611M  
GST:-20AAHCE3611M1Zx

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

## Test Report



Unique Lab Report No.	TC1288726000000043	Discipline	Chemical
Report Unique ID	RL04322602027	Group	Water
Issue date/time	13.01.2026/17:52	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: GURDARI 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	13612313668

### References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0432	Sample Booking Number	EPIC-2602027
Sample(s) Code	2602027	Sample Receipt (D/T)	10.01.2026/10:56

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/14:48	Sampling End (D/T)	08.01.2026/14:56
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 %	58	Wind direction	40°-220°
-------------------	--------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Dhardhani Nadi (Up Stream)	GPS coordinate	23° 19' 03.11"/84° 16' 12.76"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/11:10	Test completion date	13.01.2026/16:00
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### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	pH value at 25°C	IS 3025 (P-11) 2022	-	0.7	7.21	-
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	9.91	-
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	205.0	-
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	31.04	-
8.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23) 2019	mg/l	10	105.0	-
9.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21) 2009	mg/l	10	152.61	-
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	27.25	-
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	-
12.	Sulphate (as SO <sub>4</sub> )	IS 3025 (P-24/Sec-1) 2022	mg/l	0.3	5.10	-
13.	Nitrate (as NO <sub>3</sub> )	APHA 4500 B 2023	mg/l	0.4	2.49	-
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	20.56	-



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

0651 4666392  
98357 86677  
93049 73994  
epiclabtech@gmail.com

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

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NABL with certificate number TC - 12887  
Jharkhand State Pollution Control Board  
Certified by -  
ISO 9001:2015 and ISO 45001:2018

## Test Report



Unique Lab Report No.	TC1288726000000043	Discipline	Chemical
Report Unique ID	RL04322602027	Group	Water
Issue date/time	13.01.2026/ 17:52	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: GURDARI 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-C 2023	mg/l	0.1	BDL	
<b>Group - Residues and Contaminants in Water,</b>					<b>Sub Group - Trace Metals Elements</b>
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	-

<b>Group - Residues and Contaminants in Water,</b>					<b>Sub Group - Pesticides</b>
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-chlordane	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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Address:  
Indrapuri, Road No. - 5,  
Ranchi, Jharkhand - 834005,  
India

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

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

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## Test Report



Unique Lab Report No.	TC1288726000000043	Discipline	Chemical
Report Unique ID	RL04322602027	Group	Water
Issue date/time	13.01.2026/ 17:52	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: GURDARI 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

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.	transchlordan	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  
(Umesh 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,  
India

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📞 93049 73994  
✉ epiclabtech@gmail.com

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## Test Report

Unique Lab Report No.	N/A	Discipline	Biological
Report Unique ID	RL04322602028	Group	Water
Issue date/time	13.01.2026/ 17:55	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: **GURDARI 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/0432	Sample Booking Number	EPIC-2602028
Sample(s) Code	2602028	Sample Receipt (D/T)	10.01.2026/ 10:57

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 14:48	Sampling End (D/T)	08.01.2026/ 14:56
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Dhardhani Nadi (Up Stream)	GPS coordinate	23° 19' 03.11"/84° 16' 12.76"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:25	Test completion date	13.01.2026/ 16:00
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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	-	420	
2.	E.Coli	IS 15185 2002	Per 100 ml	-	345	

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

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

CIN:-U74999JH2022PTC019685  
PAN:-AAHCE3611M  
GST:-20AAHCE3611MTZX

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

## Test Report



Unique Lab Report No.	TC1288726000000044	Discipline	Chemical
Report Unique ID	RL04322602029	Group	Water
Issue date/time	13.01.2026/ 18:00	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: **GURDARI 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/0432	Sample Booking Number	EPIC-2602029
Sample(s) Code	2602029	Sample Receipt (D/T)	10.01.2026/ 10:59

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 15:11	Sampling End (D/T)	08.01.2026/ 15:18
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Koel River (Up Stream)	GPS coordinate	23° 25' 47.47" / 84° 19' 20.59"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:15	Test completion date	13.01.2026/ 16:00
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### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	pH value at 25.3°C	IS 3025 (P-11) 2022	-	0.7	7.25	-
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	9.98	-
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	215.0	-
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	33.01	-
8.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23) 2019	mg/l	10	115.00	-
9.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21) 2009	mg/l	10	154.62	-
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	28.86	-
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	-
12.	Sulphate (as SO <sub>4</sub> )	IS 3025 (P-24/Sec-1)2022	mg/l	0.3	5.00	-
13.	Nitrate (as NO <sub>3</sub> )	APHA 4500 B 2023	mg/l	0.4	2.13	-
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	20.07	-



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

0651 4668392  
98357 86677  
93049 73994  
epiclabtech@gmail.com

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

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

## Test Report



Unique Lab Report No.	TC128872600000044	Discipline	Chemical
Report Unique ID	RLD4322602029	Group	Water
Issue date/time	13.01.2026/ 18:00	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: GURDARI 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	Method	Unit	Result	Sub Group
16.	Fluoride (as F)	APHA 4500 F-C 2023	mg/l	0.1	BDL
<b>Group - Residues and Contaminants in Water, Sub Group - Trace Metals Elements</b>					
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

Sl. No.	Parameter	Method	Unit	Result	Sub Group
<b>Group - Residues and Contaminants in Water, Sub Group - Pesticides</b>					
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-Chlordane	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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Address:-  
Indrapuri, Road No. - 5,  
Ranchi, Jharkhand - 834005,  
India

0651 4666392  
86357 86677  
93049 73994  
epiclabtech@gmail.com

CIN:-U74899JH2022PTC019685  
PAN:-AAHCE3611M  
GST:-20AAHCE3611M1ZX

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## Test Report



Unique Lab Report No.	TC1288726000000044	Discipline	Chemical
Report Unique ID	RL04322602029	Group	Water
Issue date/time	13.01.2026/ 18:00	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: GURDARI 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

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.	transchlordan	USEPA 8081 B:2007	µg/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



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

0651 466392  
98357 86677  
93049 73994  
epiclabtech@gmail.com

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GST:-20AAHCE3611M1ZX

## Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04322602029	Group	Water
Issue date/time	13.01.2026/18:00	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602029
Sample(s) Code	2602029	Sample Receipt (D/T)	10.01.2026/10:59

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/15:11	Sampling End (D/T)	08.01.2026/15:18
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Koel River (Up Stream)	GPS coordinate	23° 25' 47.47"/84° 19' 20.59"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/11:15	Test completion date	13.01.2026/16:00
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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	-
<b>Group-Residues and Contaminants in Water</b>						<b>Sub Group- Trace Metals Elements</b>
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\*\*\*\*





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Ranchi, Jharkhand - 834005,  
India

0651 4666392  
98357 86677  
93049 73994  
epiclabtech@gmail.com

CIN:-U74899JH2022PTC019685  
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NABL, wide certificate Number TC- 12887  
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ISO 9001:2015 and ISO 45001:2018

## Test Report



Unique Lab Report No.	TC1288726000000045	Discipline	Chemical
Report Unique ID	RL04322602031	Group	Water
Issue date/time	13.01.2026/ 18:06	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602031
Sample(s) Code	2602031	Sample Receipt (D/T)	10.01.2026/ 11:00

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 16:08	Sampling End (D/T)	08.01.2026/ 16:17
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Koel River (Down Stream)	GPS coordinate	23° 25' 01.99" / 84° 19' 55.21"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:20	Test completion date	13.01.2026/ 16:00
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### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	pH value at 25.2°C	IS 3025 (P-11) 2022	-	0.7	7.35	-
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	5.12	-
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	258.00	-
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	31.4	-
8.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23) 2019	mg/l	10	120.00	-
9.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21) 2009	mg/l	10	152.61	-
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	26.45	-
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	-
12.	Sulphate (as SO <sub>4</sub> )	IS 3025 (P-24/Sec-1)2022	mg/l	0.3	5.40	-
13.	Nitrate (as NO <sub>3</sub> )	APHA 4500 B 2023	mg/l	0.4	1.81	-
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	21.04	-



# EPIC LabTech Private Limited



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

0651 4666392  
98357 86577  
93049 73994  
epiclabtech@gmail.com

CIN: U74999JH2022PTC019685  
PAN: AAHCE3611M  
GST: 20AAHCE3611MTZX

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

## Test Report



Unique Lab Report No.	TC1288726000000045	Discipline	Chemical
Report Unique ID	RL04322602031	Group	Water
Issue date/time	13.01.2026/ 18:06	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: **GURDARI 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	Method	Unit	Result	Remarks
16.	Fluoride (as F)	APHA 4500 F-C 2023	mg/l	0.1	BDL
<b>Group - Residues and Contaminants in Water, Sub Group - Trace Metals Elements</b>					
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
<b>Group - Residues and Contaminants in Water, Sub Group - Pesticides</b>					
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-Chlordane	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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Address:-  
Indrapuri, Road No. - 5,  
Ranchi, Jharkhand - 834005,  
India

0651 4666392  
98357 66677  
93049 73994  
epiclabtech@gmail.com

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

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

## Test Report



Unique Lab Report No.	TC1288726000000045	Discipline	Chemical
Report Unique ID	RL04322602031	Group	Water
Issue date/time	13.01.2026/ 18:06	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: GURDARI 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

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.	Transchlordan	USEPA 8081 B:2007	µg/l	0.1	BDL	-

--Test Result End --

Analysed by - Pappu Kumar



Reviewed by  
(B.N. Kumar)  
Technical Head

Test Report End

Issued by  
(Limesh Das)  
Laboratory Head

Authorized Signatory  
EPIC LabTech Pvt. Ltd.  
Ranchi, Jharkhand



# EPIC LabTech Private Limited



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

☎ 0651 4668392  
☎ 98357 86677  
☎ 93049 73994  
✉ epiclabtech@gmail.com

CIN:-U74999JH2022PTC019605 Accredited by :-  
Jharkhand State Pollution Control Board  
PAN:-AAHCE3611M  
GST:-20AAHCE3611M1ZX

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

## Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04322602031	Group	Water
Issue date/time	13.01.2026/ 18:06	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602032
Sample(s) Code	2602032	Sample Receipt (D/T)	10.01.2026/ 11:00

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 16:08	Sampling End (D/T)	08.01.2026/ 16:17
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Koel River (Down Stream)	GPS coordinate	23° 25' 01.99"/ 84° 19' 55.21"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:20	Test completion date	13.01.2026/ 16:00
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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	-
<b>Group-Residues and Contaminants in Water</b>						<b>Sub Group- Trace Metals Elements</b>
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:-  
Indrapuri, Road No. - 5,  
Ranchi, Jharkhand - 834005,  
India

☎ 0651 466392  
☎ 98357 86677  
☎ 93049 73994  
✉ epiclabtech@gmail.com

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

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

## Test Report

Unique Lab Report No.	N/A	Discipline	Biological
Report Unique ID	RL04322602032	Group	Water
Issue date/time	13.01.2026/ 18:09	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602032
Sample(s) Code	2602032	Sample Receipt (D/T)	10.01.2026/ 11:00

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 16:08	Sampling End (D/T)	08.01.2026/ 16:17
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 % 58 Wind direction 40°-220°

### Sampling Location(s) with GPS coordinate(s)

S. Location A Koel River (Down Stream) GPS coordinate 23° 25' 01.99"/84° 19' 55.21"

### Date(s) of performance of the laboratory activities


Test start date 10.01.2026/ 11:20 Test completion date 13.01.2026/ 16:00


### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	Total Coliform	IS 15185 2002	Per 100 ml	-	432	
2.	E.Coli	IS 15185 2002	Per 100 ml	-	346	

### --Test Result End --

Analysed by - Ishika Singh

  
Reviewed by  
(R.K. Kumar)  
Technical Head

  
Issued by  
(Umesh 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:-U74999/JH2022PTC019685  
PAN:-AAHCE3611M  
GST:-20AAHCE3611M12X

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

## Test Report



Unique Lab Report No.	TC1288726000000046	Discipline	Chemical
Report Unique ID	RL04322602033	Group	Water
Issue date/time	13.01.2026/ 18:12	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602033
Sample(s) Code	2602033	Sample Receipt (D/T)	10.01.2026/ 11:01

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 17:10	Sampling End (D/T)	08.01.2026/ 17:19
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Dhardhari Nadi (Down Stream)	GPS coordinate	23° 17' 10.53"/ 34° 17' 38.59"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:21	Test completion date	13.01.2026/ 16:00
-----------------	-------------------	----------------------	-------------------

### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	pH value at 25.2°C	IS 3025 (P-11) 2022	-	0.7	7.41	-
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	4.91	-
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	210.0	-
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	31.53	-
8.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23) 2019	mg/l	10	110.0	-
9.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21) 2009	mg/l	10	148.59	-
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	25.65	-
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	-
12.	Sulphate (as SO <sub>4</sub> )	IS 3025 (P-24/Sec-1) 2022	mg/l	0.3	5.20	-
13.	Nitrate (as NO <sub>3</sub> )	APHA 4500 B 2023	mg/l	0.4	1.93	-
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	20.55	-



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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:-20AAHCE3611M1ZX

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ISO 9001:2015 and ISO 45001:2018

## Test Report



Unique Lab Report No.	TC1288726000000046	Discipline	Chemical
Report Unique ID	RL04322602033	Group	Water
Issue date/time	13.01.2026/ 18:12	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: GURDARI 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-C 2023	mg/l	0.1	BDL	-
<b>Group - Residues and Contaminants in Water,</b>					<b>Sub Group - Trace Metals Elements</b>

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	-

<b>Group - Residues and Contaminants in Water,</b>					<b>Sub Group - Pesticides</b>
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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-χlordan	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	-



**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. |

**Abbreviations:** - 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:-20AAHCE3611M1ZR

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NABL with certificate number TC-12887  
Jharkhand State Pollution Control Board  
Certified by -  
ISO 9001:2015 and ISO 45001:2018

## Test Report



Unique Lab Report No.	TC1288726000000046	Discipline	Chemical
Report Unique ID	RL04322602033	Group	Water
Issue date/time	13.01.2026/ 18:12	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: GURDARI 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

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.	transchlordan	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  
(Umesh Das)  
Laboratory Head

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

Authorized Signatory  
EPIC LabTech Pvt. Ltd.  
Ranchi, Jharkhand



# EPIC LabTech Private Limited



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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	RL04322602033	Group	Water
Issue date/time	13.01.2026/ 18:12	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: **GURDARI 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/0432	Sample Booking Number	EPIC-2602033
Sample(s) Code	2602033	Sample Receipt (D/T)	10.01.2026/ 11:01

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 17:10	Sampling End (D/T)	08.01.2026/ 17:19
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Dhardhari Nadi (Down Stream)	GPS coordinate	23° 17' 10.53"/ 34° 17' 38.59"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:21	Test completion date	13.01.2026/ 16:00
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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	-
<b>Group-Residues and Contaminants in Water</b>					<b>Sub Group- Trace Metals Elements</b>	
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



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Ranchi, Jharkhand - 834005,  
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✉ epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685 Accredited by :-  
Jharkhand State Pollution Control Board  
PAN:-AAHCE3611M  
Certified by :-  
ISO 9001:2015 and ISO 45001:2018  
GST:-20AAHCE3611M1ZX

## Test Report

Unique Lab Report No.	N/A	Discipline	Biological
Report Unique ID	RL04322602034	Group	Water
Issue date/time	13.01.2026/ 18:15	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: **GURDARI 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/0432	Sample Booking Number	EPIC-2602034
Sample(s) Code	2602034	Sample Receipt (D/T)	10.01.2026/ 11:01

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 17:10	Sampling End (D/T)	08.01.2026/ 17:19
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Dhardhari Nadi (Down Stream)	GPS coordinate	23° 17' 10.53"/ 34° 17' 38.59"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:21	Test completion date	13.01.2026/ 16:00
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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	-	484	
2.	E.Coli	IS 15185 2002	Per 100 ml	-	336	

### --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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Ranchi, Jharkhand - 834005,  
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✉ epiclabtech@gmail.com

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GST: 20AAHCE3611M1ZK

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



Unique Lab Report No.	TC128872600000047	Discipline	Chemical
Report Unique ID	RL04322602035	Group	Atmospheric Pollution
Issue date/time	13.01.2026/ 18:18	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602035
Sample(s) Code	2602035 (A) (B) (C) (D)	Sample Receipt (D/T)	10.01.2026/ 11:18

### 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)	08.01.2026/ 11:26	Sampling End (D/T)	09.01.2026/ 09:43
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 %	58	Wind direction	40°-220°
-------------------	--------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 13:48	Test completion date	13.01.2026/ 14:50
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### --Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 (P-23) 2022	µg/m <sup>3</sup>	10	60.65	61.31	58.44	58.90	100 (24 hr)
2.	Fine Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (P-24) 2019	µg/m <sup>3</sup>	8	30.49	26.40	28.77	27.68	60 (24 hr)
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (P-02) 2023	µg/m <sup>3</sup>	5	12.78	10.47	11.73	10.62	60 (24 hr)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (P-06) 2022	µg/m <sup>3</sup>	6	22.48	21.52	23.01	22.27	60 (24 hr)
5.	Ozone (O <sub>3</sub> )	IS:5182 (P-09) 2019	µg/m <sup>3</sup>	10	26.24	29.83	31.27	28.75	180 (1 hr)
6.	Ammonia (NH <sub>3</sub> )	IS:5182 (P-25) 2018	µg/m <sup>3</sup>	10	30.24	31.98	31.69	30.53	400 (24 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m <sup>3</sup>	0.1	BDL	BDL	BDL	BDL	1.0 (24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m <sup>3</sup>	5	BDL	BDL	BDL	BDL	-
9.	Arsenic (As)	USEPA IO 3.2:1999	ng/m <sup>3</sup>	2	BDL	BDL	BDL	BDL	-
10.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS 5182 (P-11): 2006	µg/m <sup>3</sup>	1	BDL	BDL	BDL	BDL	-
11.	Benzo(a) Pyrene (BaP) <small>Particulate Phase</small>	IS 5182 (P-12): 2004	ng/m <sup>3</sup>	0.5	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\*\*\*\*

13/01/26  
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. |  
**Abbreviation:** - BDL (Below Detectable Limit), MDL (Minimum Detectable Limit), LoQ (Limit of Quantitation). |

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India

0651 4666392

98357 86677

93049 73994

epiclabtech@gmail.com

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Jharkhand State Pollution Control Board

PAN:-AAHCE3611M

GST:-20AAHCE3611M1ZK

Certified by:-

ISO 9001:2015 and ISO 45001:2018

## Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04322602035	Group	Atmospheric Pollution
Issue date/time	13.01.2026/ 18:18	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: GURDARI 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

### References of Quality Management System (Steps of Traceability Chain)

Customer Registration No.	EPIC/OTH/0432	Sample Booking Number	EPIC-2602035
Sample(s) Code	2602035 (A) (B) (C) (D)	Sample Receipt (D/T)	10.01.2026/ 11:18

### 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)	08.01.2026/ 11:26	Sampling End (D/T)	09.01.2026/ 09:43
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 %	58	Wind direction	40°-220°
-------------------	--------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 13:48	Test completion date	13.01.2026/ 14:50
-----------------	-------------------	----------------------	-------------------

### --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 <sup>3</sup>	1.8	BDL	BDL	BDL	BDL	-

### --Test Results End--

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

Analyzed by - Rajesh Varma



Reviewed by  
(R. 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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India

0651 466392  
98357 86677  
93049 73994  
epiclabtech@gmail.com

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PAN: AAHCE3611M  
GST: 20AAHCE3611M1ZK

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

## Test Report



Unique Lab Report No.	TC1288726000000048	Discipline	Chemical
Report Unique ID	RL04322602036	Group	Water
Issue date/time	13.01.2026/ 18:21	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602036
Sample(s) Code	2602036	Sample Receipt (D/T)	10.01.2026/11:19

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 12:10	Sampling End (D/T)	08.01.2026/ 12:20
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 %	58	Wind direction	40°-220°
-------------------	--------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Sakhuapani (Spring Water)	GPS coordinate	23° 19' 18.91"/84° 15' 42.32"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:39	Test completion date	13.01.2026/ 16:00
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### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	pH value at 24.9°C	IS 3025 (P-11) 2022	-	0.7	6.75	-
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	1.71	-
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	198.0	-
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	32.52	-
8.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23) 2019	mg/l	10	108.00	-
9.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21) 2009	mg/l	10	152.00	-
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	28.86	-
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	-
12.	Sulphate (as SO <sub>4</sub> )	IS 3025 (P-24/Sec-1) 2022	mg/l	0.3	5.20	-
13.	Nitrate (as NO <sub>3</sub> )	APHA 4500 B 2023	mg/l	0.4	2.11	-
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	19.44	-



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Jharkhand State Pollution Control Board  
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## Test Report



Unique Lab Report No.	TC1288726000000048	Discipline	Chemical
Report Unique ID	RL04322602036	Group	Water
Issue date/time	13.01.2026/ 18:21	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: GURDARI 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-C 2023	mg/l	0.1	BDL	-
<b>Group - Residues and Contaminants in Water,</b>					<b>Sub Group - Trace Metals Elements</b>
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	-
<b>Group - Residues and Contaminants in Water,</b>					<b>Sub Group - Pesticides</b>
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-chlordane	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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India

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☎ 93049 73994  
✉ epiclabtech@gmail.com

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GST:-20AAHCE36T1M1ZX

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

## Test Report



Unique Lab Report No.	TC1288726000000048	Discipline	Chemical
Report Unique ID	RL04322602036	Group	Water
Issue date/time	13.01.2026/ 18:21	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: GURDARI 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

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.	transchlordan	USEPA 8081 B:2007	µg/l	0.1	BDL	-

--Test Result End --

### Prescribed Limit

Analysed by - Pappu Kumar

Reviewed by  
(B.N. Kumar)  
Technical Head

Issued by  
(Umesh Das)  
Laboratory Head

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

Authorized Signatory  
EPIC LabTech Pvt. Ltd.  
Ranchi, Jharkhand



# EPIC LabTech Private Limited



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

☎ 0651 4660392  
☎ 98357 86677  
☎ 93049 73994  
✉ epiclabtech@gmail.com

CIN: U74999JH2022PTC019685 Accredited by >

PAN: AAHCE3611M

GST: 20AAHCE3611M1ZX

Jharkhand State Pollution Control Board

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ISO 9001:2015 and ISO 45001:2018

## Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04322602036	Group	Water
Issue date/time	13.01.2026/18:21	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602036
Sample(s) Code	2602036	Sample Receipt (D/T)	10.01.2026/11:19

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/12:10	Sampling End (D/T)	08.01.2026/12:20
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 %	58	Wind direction	40°-220°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Sakhuapani (Spring Water)	GPS coordinate	23° 19' 18.91" / 84° 15' 42.32"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/11:39	Test completion date	13.01.2026/16:00
-----------------	------------------	----------------------	------------------

### --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	-
<b>Group-Residues and Contaminants in Water</b>						<b>Sub Group- Trace Metals Elements</b>
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

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

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

CIN:-U74999/JH2022PTC015685  
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	RL04322602037	Group	Water
Issue date/time	13.01.2026/ 18:24	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: GURDARI 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/0432	Sample Booking Number	EPIC-2602037
Sample(s) Code	2602037	Sample Receipt (D/T)	10.01.2026/11:20

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	08.01.2026/ 12:10	Sampling End (D/T)	08.01.2026/ 12:20
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 %	58	Wind direction	40°-220°
-------------------	--------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Sakhuapani (Spring Water)	GPS coordinate	23° 19' 18.91"/84° 15' 42.32"
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### Date(s) of performance of the laboratory activities

Test start date	10.01.2026/ 11:40	Test completion date	13.01.2026/ 16:00
-----------------	-------------------	----------------------	-------------------

### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	Total Coliform	IS 15185 2002	Per 100 ml	-	411	
2.	E.Coli	IS 15185 2002	Per 100 ml	-	364	

### --Test Result End --

Analysed by - Ishika Singh

  
Reviewed by  
(E.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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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:-20AAHCE3611M1ZK

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

## Test Report



Unique Lab Report No.	TC1288726000000151	Discipline	Chemical
Report Unique ID	RL04632607003	Group	Atmospheric Pollution
Issue date/time	14.02.2026/ 16:00	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: GURDARI 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/0463	Sample Booking Number	EPIC-2607003
Sample(s) Code	2607003 (A) (B) (C) (D)	Sample Receipt (D/T)	11.02.2026/ 10:51

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input type="checkbox"/> Non-Operational <input checked="" type="checkbox"/>
Sampling Start (D/T)	09.02.2026/ 11:45	Sampling End (D/T)	10.02.2026/ 09:55
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	Clear	Temperature (°C)	25	Humidity %	58	Wind direction	40°-220°
-------------------	-------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	11.02.2026/ 13:10	Test completion date	14.02.2026/ 13:20
-----------------	-------------------	----------------------	-------------------

### --Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 (P-23) 2022	µg/m <sup>3</sup>	10	59.86	60.55	57.78	58.21	100 (24 hr)
2.	Fine Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (P-24) 2019	µg/m <sup>3</sup>	8	29.74	25.45	28.08	27.20	60 (24 hr)
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (P-02) 2023	µg/m <sup>3</sup>	5	13.20	10.83	12.05	11.17	80 (24 hr)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (P-06) 2022	µg/m <sup>3</sup>	6	24.98	23.46	25.55	24.19	80 (24 hr)
5.	Ozone (O <sub>3</sub> )	IS:5182 (P-09) 2019	µg/m <sup>3</sup>	10	29.47	32.35	34.51	31.63	180 (1 hr)
6.	Ammonia (NH <sub>3</sub> )	IS:5182 (P-25) 2018	µg/m <sup>3</sup>	10	32.56	33.72	33.14	32.85	400 (24 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m <sup>3</sup>	0.1	BDL	BDL	BDL	BDL	1.0 (24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m <sup>3</sup>	5	BDL	BDL	BDL	BDL	-
9.	Arsenic (As)	USEPA IO 3.2:1999	ng/m <sup>3</sup>	2	BDL	BDL	BDL	BDL	-
10.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS 5182 (P-11): 2006	µg/m <sup>3</sup>	1	BDL	BDL	BDL	BDL	-
11.	Benzo(a) Pyrene (BaP) <small>Particulate Phase</small>	IS 5182 (P-12): 2004	ng/m <sup>3</sup>	0.5	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  
(Ajay Kumar)  
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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GST:-20AAHCE3611MTZX

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

## Test Report

Unique Lab Report No.	N/A	Discipline	Chemical
Report Unique ID	RL04632607003	Group	Atmospheric Pollution
Issue date/time	14.02.2026/ 16:00	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: GURDARI 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/0463	Sample Booking Number	EPIC-2607003
Sample(s) Code	2607003 (A) (B) (C) (D)	Sample Receipt (D/T)	11.02.2026/ 10:51

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	09.02.2026/ 11:45	Sampling End (D/T)	10.02.2026/ 09:55
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	Clear	Temperature (°C)	25	Humidity %	58	Wind direction	40°-220°
-------------------	-------	------------------	----	------------	----	----------------	----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	11.02.2026/ 13:10	Test completion date	14.02.2026/ 13:20
-----------------	-------------------	----------------------	-------------------

### --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 <sup>3</sup>	1.8	BDL	BDL	BDL	BDL	-

### --Test Results End --

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

Analysed by - Rajesh Varma

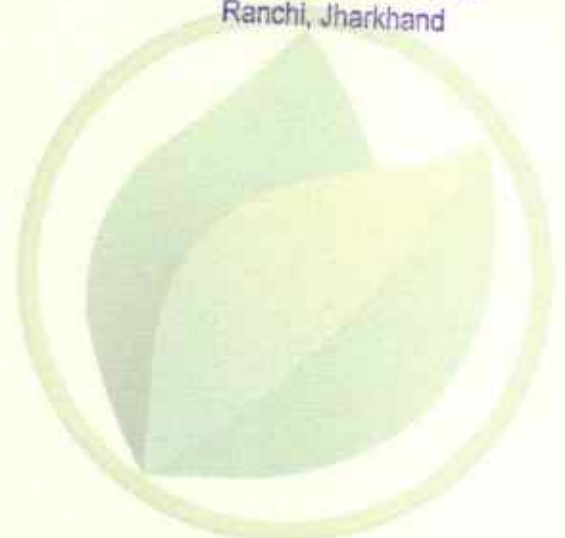
Reviewed by  
(B.N. Kumar)  
Technical Head

Issue by  
(Umesh 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. |

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

## Test Report



Unique Lab Report No.	TC1288726000000152	Discipline	Chemical
Report Unique ID	RL04632607004	Group	Pollution & Environment
Issue date/time	14.02.2026/ 16:03	Sub Group	Waste Water (Effluent)

### Report Issue to

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

Contact Person **Mr. Girija Tamrakar**  
Contact Number **+91 9111006074**  
Email Id **girija.tamrakar@adityabirta.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/0463	Sample Booking Number	EPIC-2607004
Sample(s) Code	2607004	Sample Receipt (D/T)	11.02.2026/ 10:52

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	09.02.2026/ 15:08	Sampling End (D/T)	09.02.2026/ 15:17
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 *Clear* Temperature (°C) *25* Humidity % *58* Wind direction *40°-220°*

### Sampling Location(s) with GPS coordinate(s)

S. Location A *Work Shop Outlet* GPS coordinate *23° 18' 59.08" / 84° 14' 44.70"*

### Date(s) of performance of the laboratory activities

Test start date *11.02.2026/ 11:10* Test completion date *14.02.2026/ 14:00*

### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	pH value at 24.8°C	IS 3025 (P-11) 2022	-	1.5	6.92	6.5-8.5
2.	BOD (3 days at 27°C)	IS 3025 (P-44) 2000	mg/l	0.3	16.5	-
3.	COD	IS 3025 (P-58) 2006	mg/l	8.0	68.00	150.0
4.	Oil & Grease	IS 3025 (P-39) 2021	mg/l	4.0	4.8	10
5.	Total Suspended Solid	IS 3025 (P-17) 2022	mg/l	10.0	42.0	50
6.	Total Dissolve Solids (TDS)	IS 3025 (P-16) 2023	mg/l	10.0	565.0	-
7.	Phosphate (as PO <sub>4</sub> )	IS 3025 (P-31/Sec -1) 2022	mg/l	0.2	0.63	-
8.	Zinc (as Zn)	APHA 3111 B 2023	mg/l	0.04	0.06	5.0

### --Test Result End --

Prescribed Limit Environmental (Protection) Rules-1986, Schedule -I, Serial No.114

Analysed by - Pappu Kumar

Reviewed by  
(E.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



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Ranchi, Jharkhand - 834005,  
India

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

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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	RL04632607004	Group	Pollution & Environment
Issue date/time	14.02.2026/ 16:03	Sub Group	Waste Water (Effluent)

### Report Issue to

M/s - HINDALCO INDUSTRIES LIMITED  
VILLAGE-COURT ROAD, POST OFFICE-LOHARDAGA,  
DIST.-LOHARDAGA, STATE-JHARKHAND, INDIA 835302  
MONITORING SITE: GURDARI 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/0463	Sample Booking Number	EPIC-2607004
Sample(s) Code	2607004	Sample Receipt (D/T)	11.02.2026/ 10:52

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	09.02.2026/ 15:08	Sampling End (D/T)	09.02.2026/ 15:17
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 Clear Temperature (°C) 25 Humidity % 58 Wind direction 40°-220°

### Sampling Location(s) with GPS coordinate(s)

S. Location A Work Shop Outlet GPS coordinate 23° 18' 59.08" / 84° 14' 44.70"

### Date(s) of performance of the laboratory activities

Test start date 11.02.2026/ 11:10 Test completion date 14.02.2026/ 14:00

### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits
1.	Dissolve Oxygen (DO)	IS 3025 (P-38) 1986	mg/l	0.2	1.2	

### --Test Result End --

Prescribed Limit Environmental (Protection) Rules-1986, Schedule-I, Serial No.114

Analysed by - Pappu Kumar



  
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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Ranchi, Jharkhand - 834005,  
India

0651 4666392  
98357 86677  
93049 73994  
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685  
PAN:-AAHCE3611M  
GST:-20AAHCE3611M1Z3

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.	TC1288726000000324	Discipline	Chemical
Report Unique ID	RL05022611028	Group	Atmospheric Pollution
Issue date/time	19.03.2026/ 16:29	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: GURDARI BAUXITE MINE

Contact Person	Mr. Girija Tamrakar
Contact Number	+91 9111006074
Email Id	girija.tamrakar@adityabiria.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/0502	Sample Booking Number	EPIC-2611028
Sample(s) Code	2611028 (A) (B) (C) (D)	Sample Receipt (D/T)	14.03.2026/ 12:25

### 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)	12.03.2026/ 10:50	Sampling End (D/T)	13.03.2026/ 08:45
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 %	44	Wind direction	320°-140°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	14.03.2026/ 13:45	Test completion date	19.03.2026/ 12:50
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### --Test Results Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results				Limits
					A	B	C	D	
1.	Particulate Matter (PM <sub>10</sub> )	IS:5182 (P-23) 2022	µg/m <sup>3</sup>	10	62.54	61.74	58.49	59.62	100 (24 hr)
2.	Fine Particulate Matter (PM <sub>2.5</sub> )	IS 5182 (P-24) 2019	µg/m <sup>3</sup>	8	30.08	27.66	29.95	28.49	60 (24 hr)
3.	Sulphur Dioxide (SO <sub>2</sub> )	IS:5182 (P-02) 2023	µg/m <sup>3</sup>	5	12.63	09.71	11.49	10.55	80 (24 hr)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	IS:5182 (P-06) 2022	µg/m <sup>3</sup>	6	23.46	22.17	24.10	23.22	60 (24 hr)
5.	Ozone (O <sub>3</sub> )	IS:5182 (P-09) 2019	µg/m <sup>3</sup>	10	32.35	35.58	37.74	34.51	180 (1 hr)
6.	Ammonia (NH <sub>3</sub> )	IS:5182 (P-25) 2018	µg/m <sup>3</sup>	10	33.72	34.89	35.18	34.02	400 (24 hr)
7.	Lead (Pb)	IS:5182(P-22) 2019	µg/m <sup>3</sup>	0.1	BDL	BDL	BDL	BDL	1.0 (24 hr)
8.	Nickel (Ni)	IS:5182(P-26) 2020	ng/m <sup>3</sup>	5	BDL	BDL	BDL	BDL	-
9.	Arsenic (As)	USEPA IO 3.2:1999	ng/m <sup>3</sup>	2	BDL	BDL	BDL	BDL	-
10.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS 5182 (P-11): 2006	µg/m <sup>3</sup>	1	BDL	BDL	BDL	BDL	-
11.	Benzo(a) Pyrene (BaP) <small>Particulate Phase</small>	IS 5182 (P-12): 2004	ng/m <sup>3</sup>	0.5	BDL	BDL	BDL	BDL	-

### --Test Results End --

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

Analysed by - Rajesh Varma



Reviewed by  
(J.N. Kumar)  
Technical Head

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

19/3/26  
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. |

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

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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	RL05022611028	Group	Atmospheric Pollution
Issue date/time	19.03.2026/ 16:29	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: GURDARI BAUXITE MINE**

**Contact Person** Mr. Girija Tamrakar  
**Contact Number** +91 9111006074  
**Email Id** girija.tamrakar@adityabirta.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/0502	Sample Booking Number	EPIC-2611028
Sample(s) Code	2611028 (A) (B) (C) (D)	Sample Receipt (D/T)	14.03.2026/ 12:25

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	12.03.2026/ 10:50	Sampling End (D/T)	13.03.2026/ 08:45
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 %	44	Wind direction	320°-140°
-------------------	-------	------------------	----	------------	----	----------------	-----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Mine Office	GPS coordinate	23° 18' 59.60"/84° 14' 44.15"
S. Location B	Near Kathuwapani Pit-23	GPS coordinate	23° 20' 48.18"/84° 14' 16.11"
S. Location C	Near Mine Weigh Bridge	GPS coordinate	23° 19' 09.06"/84° 14' 40.38"
S. Location D	Near Dhobi Kutumb	GPS coordinate	23° 16' 58.11"/84° 15' 42.03"

### Date(s) of performance of the laboratory activities

Test start date	14.03.2026/ 13:45	Test completion date	19.03.2026/ 12:50
-----------------	-------------------	----------------------	-------------------

### --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 <sup>3</sup>	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

*[Signature]*  
19/3/26  
Issue by  
(Ajmesh Das)  
Laboratory Head

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

**Authorized Signatory**  
**EPIC LabTech Pvt. Ltd.**  
Ranchi, Jharkhand



Page 1 of 1

**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:-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

## Test Report



Unique Lab Report No.	TC1288726000000325	Discipline	Chemical
Report Unique ID	RL05022611029	Group	Water
Issue date/time	19.03.2026/ 16:31	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: GURDARI 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/0502	Sample Booking Number	EPIC-2611029
Sample(s) Code	2611029	Sample Receipt (D/T)	14.03.2026/ 12:26

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	12.03.2026/ 12:30	Sampling End (D/T)	12.03.2026/ 12:51
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 %	44	Wind direction	320°-140°
-------------------	-------	------------------	----	------------	----	----------------	-----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Office	GPS coordinate	23° 19' 00.28"/84° 14' 44.95"
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### Date(s) of performance of the laboratory activities

Test start date	14.03.2026/ 12:46	Test completion date	19.03.2026/ 14:15
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### --Test Result Start--

Sl	Tested Parameters	Method used	Unit	LoQ	Results	Limits	
						Acceptable Limit	Permissible limit
1.	pH value at 25.6°C	IS 3025 (P-11) 2022	-	1.5	6.99	6.5-8.5	No relaxation
2.	Turbidity	IS 3025 (P-10) 1984	NTU	0.3	0.61	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	20.5.00	500	2000
7.	Chloride (as Cl)	IS 3025 (P-32) 2019	mg/l	5	31.99	250	1000
8.	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (P-23) 2019	mg/l	10	100.00	200	600
9.	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (P-21) 2009	mg/l	10	110.00	200	600
10.	Calcium (as Ca)	IS 3025 (P-40) 1991	mg/l	10	21.64	75	200
11.	Free Residual Chlorine	IS 3025 (P-26) 1986	mg/l	0.6	BDL	0.2	1
12.	Sulphate (as SO <sub>4</sub> )	IS 3025 (P-24/Sec-1)2022	mg/l	0.3	9.0	200	400
13.	Nitrate (as NO <sub>3</sub> -N)	IS 3025 (P-34/Sec-1) 2023	mg/l	0.4	1.8	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	13.60	30	100



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India

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93049 73994  
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685  
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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.	TC1288726000000325	Discipline	Chemical
Report Unique ID	RL05022611029	Group	Water
Issue date/time	19.03.2026/ 16:31	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: GURDARI 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	Standard	Unit	Result	Relaxation	Sub Group	
16.	Fluoride (as F)	APHA 4500 F-D 2023	mg/l	0.1	BDL	1.0	1.5
<b>Group - Residues and Contaminants in Water,</b>						<b>Sub Group - Trace Metals Elements</b>	
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
<b>Group - Residues and Contaminants in Water,</b>						<b>Sub Group - Pesticides</b>	
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--

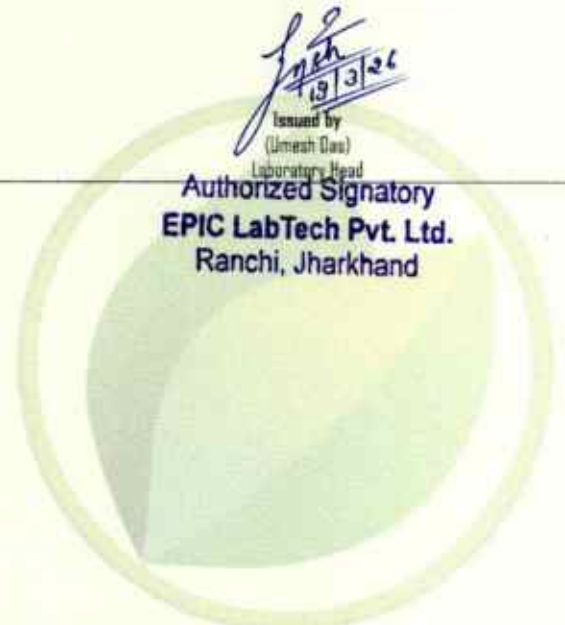
Prescribed Limit IS 10500:2012

Analysed by - Pappu Kumar



Reviewed by  
(B.N. Kumar)  
Technical Head

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



Issued by  
(Umesh Das)  
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  
98357 86677  
93049 73994  
epiclabtech@gmail.com

CIN:-U74999JH2022PTC019685  
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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	RL05022611029	Group	Water
Issue date/time	19.03.2026/ 16:31	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: GURDARI BAUXITE MINE**

**Contact Person** Mr. Girija Tamrakar  
**Contact Number** +91 9111006074  
**Email Id** girija.tamrakar@adityabirta.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/0502	Sample Booking Number	EPIC-2611029
Sample(s) Code	2611029	Sample Receipt (D/T)	14.03.2026/ 12:26

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	12.03.2026/ 12:30	Sampling End (D/T)	12.03.2026/ 12:51
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 %	44	Wind direction	320°-140°
-------------------	-------	------------------	----	------------	----	----------------	-----------

### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Office	GPS coordinate	23° 19' 00.28"/ 84° 14' 44.95"
---------------	-------------	----------------	--------------------------------

### Date(s) of performance of the laboratory activities

Test start date	14.03.2026/ 12:46	Test completion date	19.03.2026/ 14:15
-----------------	-------------------	----------------------	-------------------

### --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
<b>Group-Residues and Contaminants in Water</b>						<b>Sub Group- Trace Metals Elements</b>	
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
<b>Group - Residues and Contaminants in Water</b>						<b>Sub Group - Pesticides</b>	
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.	Chlopyriphos	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

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GST:-20AAHCE3611MTZX

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	RL05022611029	Group	Water
Issue date/time	19.03.2026/ 16:31	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: GURDARI 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

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  
(E.N. Kumar)  
Technical Head

  
Issued by  
(Umesh Das)  
Laboratory Head

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

Authorized Signatory  
EPIC LabTech Pvt. Ltd.  
Ranchi, Jharkhand



Page 2 of 2

**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. |

**Abbreviations:** - 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 4660392  
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	Biological
Report Unique ID	RL05022611030	Group	Water
Issue date/time	19.03.2026/ 16:34	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: GURDARI 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/0502	Sample Booking Number	EPIC-2611030
Sample(s) Code	2611030	Sample Receipt (D/T)	14.03.2026/ 12:27

### Sampling References

Type of Industry	Bauxite Mines	Status while Sampling	Operational <input checked="" type="checkbox"/> Non-Operational <input type="checkbox"/>
Sampling Start (D/T)	12.03.2026/ 12:30	Sampling End (D/T)	12.03.2026/ 12:51
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 %	44	Wind direction	320°-140°
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### Sampling Location(s) with GPS coordinate(s)

S. Location A	Near Office	GPS coordinate	23° 19' 00.28"/84° 14' 44.95"
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### Date(s) of performance of the laboratory activities

Test start date	14.03.2026/ 12:47	Test completion date	19.03.2026/ 14:15
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### --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

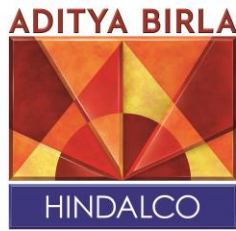


Reviewed by  
(B.N. Kumar)  
Technical Head

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

Issued 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 Gurdari Bauxite Mine (Area 584.19 Ha) comprising below mentioned team members. The team will ensure compliance with the Environment Acts, Rules & Regulations in respect of the said mines of Hindalco Industries Limited.

1. Mr. Vidya Singh (Coordinator)
2. Mr. Gyan Panda (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**

<b>Production, Mined Out, Back Filled and Over Burden removal from October 2025 to March 2026</b>								
<b>S. No</b>	<b>Name of the Mines</b>	<b>Mining lease area (ha)</b>	<b>Production Capacity (MT)*</b>	<b>Lease Period*</b>	<b>Production (MT)</b>	<b>Mined out area (ha)</b>	<b>Backfilled area (ha)</b>	<b>Over burden (Cu.M)</b>
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**

<b>Minerals &amp; Minerals Limited</b>								
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