

Date: 16th May 2025

HIL/LHD/ENV/MoEF&CC/067

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 Sherangdag (155.81 Ha) Bauxite Mining project of M/s Hindalco Industries Limited, Gumla Jharkhand for the period from October 2024 to March 2025.

Ref: Environmental Clearance letter no J-11015/125/2006-IA II (M) dated 13th April 2007.

Dear Sir,

With reference to the above, we are submitting herewith the Compliance status report of EC conditions for Sherangdag (155.81 Ha) Bauxite Mining project of M/s Hindalco Industries Limited, Gumla Jharkhand for the period from October 2024 to March 2025 for your kind perusal please.

The lease details are below:

Lease area (ha)	Production Capacity (MT)	Lease Period
155.81	260000	16.10.1974 to 31.03.2030

Hope you will find the same in order.

Thanking You

Yours faithfully,

For Hindalco Industries Limited

Basudev Gangopadhyay

AVP (Planning, Environment & Compliance)

Enclosure: - As Above

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

Name of the Project : Sherangdag Bauxite Mine (155.81 ha)
M/s Hindalco Industries Limited

Environment Clearance No. & date : J-11015/125/2006-IA.II (M), dated 13.04.2007

Period of compliance Report : From 1st October 2024 to 31st March 2025

Specific Conditions: -

Condition i: - All the conditions stipulated by SPCB in their NOC shall be effectively implemented.

Reply: - Implementations of the stipulated conditions in NOC are fulfilled after which Consent to Operate (CTO) has been obtained from time to time. The current CTO is valid up to 31.12.2026. Production of bauxites is within limits specified in Consent to Operate.

Condition ii: - 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: - 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 norms set in agreement. Thus, land acquisition has the approval of the State Government.

Condition iii: - 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: - Required exploration has already been 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 iv: - 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: - Mining is being done at shallow depth. Thus, there is no chance to intersect ground water table during mining operation. Working zone 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.

Condition v: - The Project proponent shall ensure that no natural watercourse shall be obstructed due to any mining operations.

Reply: - 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 carried out below ground water table and the same status will be maintained in future also.

Moreover, we regularly monitor the groundwater table through the installation of a piezometer. A copy of the water level report is attached herewith as **Annexure-1**.

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

Reply: - Topsoil is being stacked properly with proper slope as and when required for its use for reclamation and rehabilitation. Sequential backfilling and reclamation of the mined-out area are being exercised during mining operation. 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**.



Reclaimed area

Condition vii: - 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 six-month basis.

Reply: - Overburden and waste rock from the mining pit are being used for back filling. Backfilling and plantation detail provided in <u>Annexure 4</u>. No external OB dump is in the project area. Monitoring and management of rehabilitated areas is continuous through supervision.

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





Garland drain

De-siltation Arrangement

Condition ix: - Plantation shall be raised in an area of 70.68 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: - Progressive plantation of native species is being carried in and out around mining lease, reclaimed areas etc. in consultation with the local forest department. During FY 2024-25, a total of 5654 nos. saplings have been planted within the mining lease. Cumulative 28.60 ha areas have been planted till date.

In addition to this agricultural activity is going on reclaimed land as per the consent of landowners. Green belt development program is in progress with the progress of mining activities in a phased manner.









Plantation at Mines

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

Reply: - 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 Ponds

Condition xi: - 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 – premonsoon (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: - We are not using ground water for any mining purpose. Since Shallow depth mining is being carried out, there is no intersection of ground water table during the mining operation at present and in future also. A Piezometer has been installed for monitoring of ground water level. Water level and water quality reports are being sent regularly to regional office of Ministry, CGWA and JSPCB. The same is attached herewith as **Annexure – 1&2**.

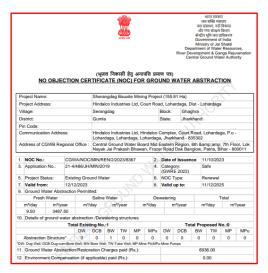


Piezometer

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

Reply: - 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.



NOC for Ground Water

Condition xiii: - 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 Bhubneshwar.

Reply: - Water quality of the Spring and streams is being monitored. 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 xiv: - Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and transportation of mineral. The vehicles should be covered with a tarpaulin and shall not be overloaded.

Reply: - 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.



Tarpaulin covered Truck

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

Reply: - Wet drilling is in practice.



Wet drilling

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

Reply: - Blasting time is fixed 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 xvii: - Consent to operate should be obtained from SPCB prior to start of enhanced production from the mine.

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

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

Reply: - The sewage water from domestic uses is being collected through individual Septic Tank and followed by Soak Pit.

No wastewater is generated from our mining operation. However, only negligible amount of effluent is being generated from workshop and Oil & grease trap system is already installed to treat this effluent. The treated water is in close circuit and being reused for washing of vehicle in the workshop.

Furthermore, the quality of this treated water is being monitored regularly, and the monitoring report is attached herewith as **Annexure 2.**



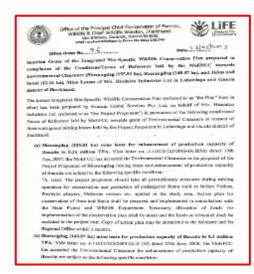
Washing Ramp and Oil and Grease Trap

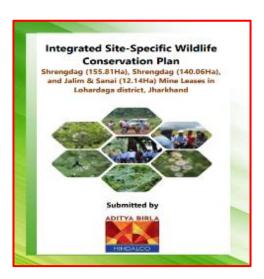
Condition xix: - The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered fauna such as Indian Python, <u>Presbytis phayrei</u>, <u>Melsurus ursinus</u> etc. Spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. 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. Copy of action plan may be submitted to the Ministry and its Regional Office within 3 months.

Reply: - Safeguard Measures already implemented and being implemented as suggested by the forest department are as follows:

- 1. Minimum level of Noise during Mining.
- 2. Permanent pillars are established within the mine lease area at 7.5m from the forest boundary.
- 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 Integrated Site-specific Wildlife Conservation 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.26 dated 26.05.2023 for conservation and protection of flora and fauna in the core and buffer zone for Sherengdag Group of Mines.





Integrated Site-specific Wildlife Conservation Plan for Sherengdag Group of Mines

Condition xx: - 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: - 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 guideline and timelines mentioned in MCDR/IBM guidelines who are competent authority to approve the same. Based on present resource estimate and peak rated production capacity mentioned in EC, Mining operation is being carried out.

General Conditions: -

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

Reply: - Noted.

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

Reply: - Calendar plan including excavation, quantum of mineral bauxite and waste is being done as per IBM approved mining scheme and in scientific manner.

Data pertaining to excavation, quantum of mineral bauxite etc. are mentioned in the report attached as **Annexure -4.**

Condition iii: - Four ambient air quality-monitoring station should be established in the core zone as well as in the buffer zone for RPM, SPM, SO_2 , NO_X monitoring. Location of the stations should be decided based on the metrological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.

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

Condition iv: - Data on ambient air quality (RPM, SPM, SO₂, NO_x) 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: - 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 v: - Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

Reply: - Water tankers have been provided for sprinkling of water on haul roads, at loading and unloading areas, and at transfer points to control fugitive dust emissions. Water spraying at loading, unloading, and transfer points is being done.



Water sprinkling through tanker.

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

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

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

Reply: - No wastewater is generated from our mining operation. However, only negligible amounts of effluent is being generated from workshop and Oil & grease trap system is already installed to treat this effluent. The treated water is in a closed circuit and being reused for washing of vehicle in the workshop. We are not discharging any wastewater outside mine lease area.

Furthermore, the quality of this treated water is being monitored regularly and the monitoring report is attached herewith as **Annexure 2**.



Washing Ramp and Oil and Grease Trap

Condition viii: - Personnel working in dusty areas should wear protective respiratory devices and they should also provided with adequate training and information on safety and health aspects.

Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

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

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

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

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

Reply: - This is an operating mine and hence the provision related to financial closure is not applicable. Now, the Regional office of MoEF&CC is in Ranchi.

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

Reply: - Every year, the funds earmarked for environmental protection measures is 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 xii: - The Regional Office of this Ministry located at Bhubneshwar 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: - Noted and Agreed. Now, the Regional Office of MoEF&CC is in at Ranchi.

Condition xiii: - The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forests, its Regional Officer, Bhubaneshwar, Central Pollution Control Board and State Pollution Control Board.

Reply: - Six monthly reports on status of implementation of the stipulated environmental safeguards as per EC conditions, including monitoring report are being submitted to the MoEFCC, Zonal office of CPCB & JSPCB, Ranchi and also uploaded on the website of the company. Now, the Regional Office of MoEF&CC is in Ranchi.

Condition xiv: - 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: - Complied. A copy of the clearance letter has already been submitted.

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

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

Condition xvi: - 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 Bhubneshwar.

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

Piezometer Monitoring Report

Mine: Sherangdag Bauxite Mine (155.81 Ha)

S No	Month	Ground Water Level (BGL) in meter
1	Oct-24	35.98
2	Nov-24	36.05
3	Dec-24	36.13
4	Jan-25	36.21
5	Feb-25	36.35
6	Mar-25	36.42

ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT, LTD.

Plot No.30, Mansarovar Enclave, Tupudana, Hatia, Ranchi-834003, Jharkhand.

Shrengdag A Bauxite Mine-Environmental Monitoring Report

October 2024



CONTENT

	Hindales Industries - Strengthig A Hunrie Mine Favirenmental Monitoring Report - October 2024
	Shrengday A Hawaite Mise
	AMBIENT AIR QUALITY- CORE ZONE
	Near Weigh Bridge
1	BKB Quary
1	Mine Pit Quarry No.2A
	Mine Pit Quarty No.2B
	AMBIENT AIR QUALITY-BUFFER ZONE
	Near Banjari Villaga
1	Near Pauri Village
1	Near Harup Village
1	Near Paintidi Village.





PLOT NO 33, MANSAKOVAR ENCLAYE, TUPODANA MATIA, RANCIN-BAGGE INVARKHANOV SIT NO: - YOARCESTIBUDE

ENGINEERING SERVICES PVT. LTD.

Emril: Infla@elegsLcs.in , eler , carch (Agros) .com Phone mo. : 0651-3250103 Walatte : www.elegsLcs.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/6021	Report Release Date	17.10.2024	
Work Order No.	1 13612312113	Work Order Date	128.03.2024	
ULR No.	TC135872400003914F			

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Hindalco Industries Limited	Sample Ref. No. Location	: ELES-RNC/2024/AA/7094 : Noor Weigh Bridge, Serungdug-A Browde Mines (155.81hu)
Address	: Lohardags, Jharkhand-835302	Sampling Date Sample Received Date	: 07.10.2024 to 08.10.2024 : 10.10.2024
Mines Status	: Operational	Type of Sample Sampling Procedure:	Aentient Air ELES/DOC/SMPL/02
Period of Analysis	: 10.70,2024 to 17.10,2024	Sampling Done By Sample Condition	ELES Per, Ltd. Sealed & Preserved

MI	TEOROLOGICAL INFOR	MATION			
1	Average Temperature (*C)	27	2	flarometric Pressure (mmHg)	740
1	Relative Humidity (%)	66	4	Weather Condition	Partly Cloudy

202 1111 400	W.		The second	The same
Discipline: Chemic	24	Group t	Atmospherie	Poliution
Parameter	Unit	Test Protucol	Result	Regulatory Limit
Purticulate Marser (PM10)	ug/m1	15 5182 (Pun- 23): 2022	21	100 (24hn)
Particulate Minur (PM2.5)	ugim!	15 3102 (Part- 24): 2019	30	60 (2/Birs)
Solpinar Di-Oxide (SO ₂)	µg/m³	15 51N2 (Part-2/Sec1): 2021	11.8	80 (24brs)
Nitrogen Di-Oxide (NO ₂)	µg/m³	15 5182 (Part- 6): 2022	26.4	80 (24hrs)
Ozone (O _c)	pg/m³	15 5182 (Paris 9): 2019	<20.0	100 (Shrs)
Ammonia (NH ₁)	ug/m ²	\$5.5182 (Fart-25): 2018	<10.0	400 (29hm)
Curben Menoxide (CO)	mg/m!	15 5182 (Part- 10'r, 2019 (NDEK Method)	<1.0	2 (8hn)
Lost (Ph)	PEITH	35 5182 (Part- 22): 2019	0.018	1 (24hrs)
Nickel (Ni)	ag/m*	15 5182 (Part- 26): 2020	< 6.0	20 (Annual)
Amenic (Ax)	ng/m²	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)
Benzene (C.H.)	pagim"	ELES/GC/SQP/06: 2023	<2.5	R5(Annual)
Benzi-(a)-Pymne	ingres ⁷	ILES/00/509/05/2023	<9.5	01(Annust)

Reviewed by

****End of Report****

Authorized Signatory

Dr. Deependra Kumar Sinha

100

tor full Technical Manager

Page 7 of 7

The Diameter and a Test Report to make the Laborate sade Canada Trial and Cadabas, why we Company interfered a present the same to the diameter of the rest of the Cadabas and the Deckey should be the diameter of the diameter of the same and the same of the Deckey should be the Deckey should be the Deckey of the the diameter of the diameter of the same of the diameter of the same of the Deckey of the Deckey should be the Deckey of the



OV LUMBOR COLDERSTON

ENVIRONMENTAL LABORATORIES &

PLOT NO-30, MARISAROVAR ENCLARE, TURUDANA MATIA, BANCHI-8540EE (IHARKHAND) SET NO-20ARCERTSULIA

ENGINEERING SERVICES PVT. LTD.

Email: info@elegal.co.in , eles conchi@gmail.com Phone no. : 0651-J290308 Website : www.efeast.co.in



45-4185

TEST REPORT

Test Report No.	ELES/RNC/2824/6022	Report Release Date	17.10.2024	
Work Order No.	13612312113	Work Order Date	28.03.2024	
ULR No.	TC135872400003915F			

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	: Hindako Industries Limited.	Sample Ref. No. Location	ELES/RNC/2024/AA/7095 BKB Quarry, Serenging-A Bounite Mines (155.81hii)
Address	: Lohardaga, Jharkhand-835382	Sampling Data Sumple Received Data Type of Sample	107,30,2024 to 08,10,2024 10,10,2024 Ambient Air
Mines Status	nes Status Operational Steepling Procedure		ELES/DOC/SMPL/02
Period of Analysis	: 10.10/2024 to 17.10/2024	Sampling Done By Sample Condition	Sealed & Preserved

MI	TEOROLOGICAL INFOR	MATION			
1	Average Temperature (*C)	127	2	Baromatric Pressure (mmHg)	: 740
3	Relative Hamidity (%)	166	4	Weather Condition	: Partly Cloudy

Discipline: Chemic	al	Group:	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	ug/m ³	85 5182 (Part-23): 2022	58	100 (24hn)	
Particulate Matter (PM2.5)	дg/m ³	JS 5182 (Part-24): 2019:	31	.60 (24hrs)	
Sulphur Di-Oxide (SO ₁)	113/m*	18-5182 (Part-2/Sec1); 2023	8.4	80 (24hrs)	
Nitrogen Di-Oxide (NO ₂)	µg/m²	19 9102 (Part- 6): 2022	19.7	80 (34hm)	
Ozone (O ₃)	µg/m ³	15:5192 (Part- 9): 2019	<20.0	100 (Shrs)	
Ammania (NH ₃)	ngm*	35 5182 (Purs- 25); 2018	<10.0	400 (24hn)	
Carbon Monoxide (CO)	mg/m ³	15 5182 (Part- 10): 2019 (NDEE Method)	<1.0	2 (8hn)	
Leid (Pb)	ug/m1	18 5182 (Pan-22): 2019	0.011	1 (24hrs)	
Nickel (NI)	ng/m!	15 5 DE2 (Part- 26): 2020	46.0	20 (Amust)	
Arsenic (As)	ng/m ⁷	ILES/AIR/SOR/01: 2021	<2.0	(In (Annual)	
Beneene (C.H.)	pg/m"	ELES/GE/SOP/96: 2023	<2.5	05(Annual)	
Henzo-(a)-Pyrene	ng/m²	ELES/OC/SOP/05: 2023	<0.5	(1(Annual)	

Alexan Kushar Quartey Manager

****End of Report****

Authorized Street

Dr. Deepend's William Sinha Ph. D. Environmental Engg.

Pogs Loft

Triumited Martager

The law area would be be deposed as well to the laboratory and control forms and company who had a proposed forms the results of the laboratory and the proposed forms the results of the laboratory and th



MOT NO 30, MAMIANOVAR EMCLAVE, TUNUOMUL NATIA, SANCIW BANDIS (IMARIOVANO) EST NO - MARCESTISDIAN



Email: (sfpillerless) in . etra renchilliamail com Phone mo.: 0652-2290109 Websita : www.ciessi co in



TEST REPORT

Test Report No.	: ELES/RNC/2024/6023	Report Release Date	: 17.19.2024
Work Order No.	: 12612312113	Work Order Date	1 28.03.2024
ULR No.	+TC135N72-000003916F		

CUSTOMER DET	AILS	SAMPLE DETAILS:	
Customer Name	Hindaico Industrias Elmited	Sample Raf. No. Location	: ELES/RNC/2/E24/AA/709n : Mise Pli Quarry No.ZA, Serengdag A Bunxite Mises(155.4(ba)
Address	Lehardaga, Burkhand-835302	Sampling Date Sample Received Date	; 07, 10, 2024 to 08, 10, 2024 ; 10, 10, 2024
Mines Status	- Operational	Type of Sample Sampling Precedure	Anhien Air HES/DOC/SMPL/92
Period of Analysis	: 30,10,2024 to 17,10,2024	Sampling Door By Sample Condition	Scaled & Preserved

M	ETEOROLOGICAL INFOR	MATION			
1	Average Temperatore (°C)	- 27	2	Barometric Pressure (mmHg)	: 740
3	Relative Humiday (%)	66	1	Weather Condition	: Partly Cloudy

Discipline : Chemic	ul	Group:	Atmospheric	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Perticulate Matter (PM10)	µg/m ^T	18 5112 (Part- 23): 2022	63	100 (24hrs)
Particulate Matter (PM2.5)	µg/m ⁷	15 5182 (Part- 24): 2019	35	60 (24bm)
Sulphur Di-Oxide (SO ₂)	pg/m ²	(S-5182 (Part-3/Sect): 2021	7,9	:80 (3/8m)
Nimogant Di-Oxida (NO ₂)	pg/m ⁷	18-3182 (Part- 6): 2022	23.7	80 (38m)
Ozane (O ₃)	augim ⁵	15,5102 (Part- 9): 2019	<20.0	100 (8hn)
Ammoeta (NH ₄)	ugm'	IS 5182 (Part- 25): 2018	<10.0	100 (24hn)
Carbon Monoxide (CO)	mg·m²	15 51K2 (Part-19): 2019 (NDIR Method)	<1.0	2:(8hm)
Leut (Pb)	HB/mt	05 5182 (Pan- 22): 2019	0.009	1 (24(5))
Nickel (Ni)	me/m*	15 5182 (Part- 26): 2020	<6.0	20 (Aremal)
Artunio (As)	nu/m"	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)
Benrone (C _a H _a)	ppier"	HLES/GC/SOP/06: 2023	<2.5	65(Amust)
Benzo-(a)-Pyrene	rig/m"	HLE5/GC/SOP/05: 2023	≪8.5	01(Annual)

Reviewed by Abush Kumar

**** End of Report****

of arthur land Blomate

Dr. Derpeniere Remarcinha Ph. D. Environmental Engg.

Tychnicol Manager

Pepr 1 of 1

The locure of an analysis begins the first property of the company of the property of the first property of the second of the later of



ON WHITE BRIDE TRAILING

ENVIRONMENTAL LABORATORIES &

PLOT HO-SO, MAKEARON AR ENCLAVE, TUPGIDANA NATIA, RANCHI-BURDOS (MARNINAND) CET WO - MALLY ESTERNISH

CONTENING SERVICES PVT. LED.

Enroll intolliciesal co.in . ejes.ranchi@gmail.ram Witner nn - 9651-2290203

Writifie I www.elegit.co.lit



TEST REPORT

Test Report No.	: ELES/RNC/2024/6024	Report Release Date	: 17.10.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULB No.	- TC135872400003917F			

CUSTOMER DET	AILS	SAMPLE DETAILS.	
Cutioner Name	Hindaico Industries Limited	Sample Ref. No. Location	ELES/RNC/2024/AA/7097 Mine Ph Quarty No.2B, Semuplag A Bankle Mines (155/01m)
Alldrein	Lotuntaga, Tharkhand-875302	Sampling Data Sample Received Date	(67.10.2024 to 08.10.2024 : 10.10.2024
Mines Status	Operational	Type of Sample Sampling Procedure	Ambiem Air :ELES/DOC/SMPL/02
Penod of Analysis	: 10.19.2924 to 17.10.2924	Sampling Clone By Sample Condition	Scaled & Preserved

M	ETEOROLOGICAL INFORMATION	
T	Average Temperature (°C) : 27	2 Buremettic Pressure (mmHg) : 740
3	Relative Humidity (%) 66	4 Weither Condition 1 Partly Cloudy

Discipline : Chemic	al	Group :	Atmospheric !	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulus Matter (PM10)	µg/m³	38 5142 (Part-23): 2022	- 66	300 (24fm)
Particulate Matter (PML5)	ug/m ³	IS 5182 (Pari- 24): 20) 9	34	60 (28hn)
Sulphur Di-Orode (SO ₁)	µg/m	IS 5182 (Pur): 2/Sec1): 2023	7.8	30 (2 (by)
Nitrogen Di-Oxide (NO ₁)	ug/m'	TS 5182 (Part- 6): 2022	26.3	:80 (24brs)
Ozona (Os)	agin.	1S 5182 (Pars-9): 2019	<20.0	100 (Mbrs)
Ammonia (NH.)	ag/m²	1S 5182 (Part- 25): 2018	<10.0	400 (24hn)
Carrion Monococ (CO)	mg/m²	15:5182 (Part- 10): 2019 (NDIR Method)	<1.0	2 (Khrs)
Lind (Pb)	pig/m2:	3S 5182 (Part- 22): 2019:	0.011	1 (24bn)
Nicial (Ni)	ing/m ³	IS 5182 (Part- 26): 2020	<6.0	20 (Annoal)
Americ (As)	mg/m²	ELES/AIR/SOP/01: 2021	<2.0	96 (Annuil)
Henrene (CaHa)	ug/m"	ELES/OC/SOP/06: 2023	<2.5	((S(Annual)
Beros-(a)-Pyrene	ng/m²	ELES/GC/50P/05: 2023	98.5	(tt(Annust)

Alter Resigned by Quality Manager

****End of Report****

Dr. Deependra Kuntay Sinha Ph. D. Environmental Engg.

(Schmenheine) Per Local

Explanation country that the property of the Lightness country and the country of this is allowed to be believed to be to be to be supported by the determinant of the best count to expect out that and any part of the report is not taken out of incount, reduce good or than appropriate the Laborary. The Report is \$40 or as part shall markly published. An other, well for my legal across makes over common has been exceed from the Management of the Laboratory. Another a cross of the regions of being compared and the Management of the Laboratory. Another a cross of the regions of being compared and the Laboratory of the Common of the Laboratory of the Common o Special at Martin Farmer, Millermann and Mill that Applicating Will claims Common Land LDC Cover Debutter Debut



PLOT NO-BO, MANUSAROVAR ENCLAVE, TURNIDANA HATIA, RANCHI-BENGUI (MARKHANG) ACCORDING AND ADDRESS - CONTROL

ENGINEERING SERVICES PVT. LED.

Entril: Intelligings co.in., electronchilligmost.com Phone no.: 9653-2290205

Website : www.elespi.co./n



TEST REPORT

Test Report No.	: ELES/RNC/2024/6025	Report Release Date	117.10.2024
Work Order No.	13612312113	Work Order Date	: 2N/03.2024
ULR No.	: TC135872400083918F		

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	Hierarco Jednamies Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/7000 : Near Bunjari Village Secreptug-A Baunite Mines (155/81ha)
Address	Lehanlapa, Tharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 07,10,2024 to 08,10,2024 : 10,10,2024 : Ambient Air
Mines Status	: Operational	Sampling Procedure	: ELES-DOC/SMPL/02
Period of Analysis	: 10.16.2024 to 17.10.2924	Sampling Dotat By Sample Condition	: ELES Pvt. Ltd. : Smiled & Preserved

METEOROLOGICAL INFORMATION	
Average Temperature (°C) : 27	2 Barometric Pressure (mmHg) : 740
3 Radative Humidity (%) : 66	4 Weather Condition : Partly Cloudy

Discipline : Chemic	si	Group:	Group : Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	µg/m.	35 5182 (Part-23); 2022	59	300 (24hrs)	
Particulus Matter (PM2.5)	jug-m ³	35 5182 (Part- 24): 2019	31	50 (24hn)	
Sulphur Di-Dxide (SO ₅)	H8cm.	TS 5182 (Part-2/Soct): 2023	7.1	80 (24ho)	
Nitrogen Di-Oxide (NO ₃)	µg/m	15-5182 (Part- 6): 2022	22.7	80 (24hm)	
Ozone (Os)	ugini ²	15 5182 (Part- 4): 2019	<20,0	100 (Whrs)	
Ammonia (NHa)	#g/m	15 5182 (Part- 25): 2018	<10.0	400 (24hn)	
Curton Moneculas (CO)	mg/m³	15 5182 (Part-10): 2019 (NDIR Method)	<1,0	2 (Xhrs)	
Land (P6)	sapim!	35 5182 (Part-22): 2019	0,006	1 (24hrs)	
Nickel (NO:	ingims.	(8-5182 (Part)- 26); 2020	96.0	20 (Annual)	
Americ (As)	ngin	ELES/ADUSOPIDI: 2021	<2.0	96 (Aanust)	
Benzene (Calla)	ug/m"	ELES/GC/SOP/06: 2023	<2.5	II5(Armust)	
Benzo (a)-Pyrene	np/m	ELES/GC/SOP/05: 2023	-0.5	(lit(Annual)	

THE PERSON Reserved by Akash Kumar Quality Manager

****End of Report****

Dr. Dedpolitors of Steenships

Ph. D. Environmental Engg.

Page Lof L The Common name or Too Report, a recording the Common make Commit Common and Conditions, with our Company, below hand in prospersed Americ The Common and an American Common and Conditions. the column of the photograph control of the common of the file of the column of the file of the column of the colu counts to report and the state of the state of the saper of the fact and of counts with the price of the general of the Laborary. The Payer is talk to be part class to published. where you had be an high account about the part of the second from the Superground of the Computer, Marches a discuss of the Superground of the Su council to Filter from the Date of Information of Tax Tine Separate from Superior Separate Separate Superior Separate Se min a (Anna farm) (Altanophysical STA) or named (Alta John Saroma (Anta Lib Joseph Saroma))



PLOT NO-30; MANJAROVAR ENCLAVE, TUPODANA HATIA, NANCHI #34063 (IMAREMAND) GET NO-281681237140138

engineering services put. LTD.

final Intellectuals, element grantum Phone no.: 0631-2290108

Thank no.: 0611-2290303 Website: www.siespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/6036	Report Release Date	+17.10.2024	
Work Order No.	1 13612312113	Work Order Date	28,03,2024	
ULR No.	: TC135872400003919F			

CUSTOMER DET	AILS	SAMPLE DETAILS		
Cunomer Name	: Hindalco Industries Limited	Sample Ref. No. Lucation	ELES/IO/C/2024/AA/7099 Near Pouri Village Screngdag-A Bausile Mines (155.813u)	
Address	: Lohantaga, Thurkhani-835302	Sampling Date Sample Received Date Type of Sample	: 07.10.2024 to 08.10.2024 : 10.10.2024 : Amhient Air	
Mines States	: Opmatienali	Sampling Procedure	: ELES/DOC/SMPL/IC : ELES Pvr. Ltd.	
Period of Austysis	: 10.10,2024 to 17.10.2024	Steopling Done By Steople Condition	Scaled & Preserved	

Mi	ETEOROLOGICAL INFORMATION			-,-
1	Average Temperature (*C) 27	2	Bacometric Pressure (mentig)	740
1	Relative Humidity (%) : 66	4	Weather Condition	Parily Cloudy

Discipline: Chemie	sit.	Group:	Gemp: Atmospheric Pollution		
Parameter	Unit	Test Pratucal	Result	Regulatory Limit	
Particulate Master (PM10)	µg/m ⁵	85 5182 (Purt- 23): 2022	63	100 (24hrs)	
Puroculate Mutter (PM2.5)	ug/m³	15:5182 (Part- 24): 2019.	34	60 (24hm)	
Solgitur Di-Ovide (SO ₄)	ug/m³	18 3112 (Part- 2/Sec1): 2023	7.6	80 (24hrs)	
Nitragun Di-Oxide (NO ₂)	µg/m³	18-5182 (Purt- 6): 2022	23.1	80 (24bis)	
Ozone (O ₃)	pg/m³	25-5182 (Part- 9): 2010	<0.0	100 (8hm)	
Ammonia (NH ₄)	jig/m³	35.5182 (Part-25); 2018	<10.0	400 (24hri)	
Curbon Menovide (CO)	mg/m'	1S 5302 (Part- 10): 2019 (NDIN Method)	<1.0	2 (Who)	
Lead (Ph)	sagem*	IS 5182 (Part- 22): 2019	0.009	1 (74hn)	
Nickel (Ni)	ng/m1	85 5182 (Part- 26): 2020	90.0	20 (Annual)	
Arsenic (As)	ng/m³	ELES/AIR/SON/01: 2021	<2.0	06 (Annual)	
Benzene (C _s H _a)	µg/m²	ELES/OC/SOP/66: 2023	<2.5	(iS(Annul)	
Henro-(a)-Pyrene	npm3	ELES/GC/SOP/65: 2023	< 0.5	01(Annul)	

Reviewed by Akash Kumar

****Ead of Report****

Authorised Signature

Dr. Doependra Kumar Sinha Ph. D. Environmental Engg.

Pair IVE

Technical Manager

The forces and a Tex Street, is made by the Laboratory and Clear and Limit and Laboratory and Control forces and a propertied beaut. The laborator and a Tex Supernion where the first interest in the Street Laboratory represents to the Street Laboratory and the Street Laboratory in the second of the Feed Street Laboratory in the second of the Street Laboratory and the second of the second of the second of the Street Laboratory and the second of the second of the second of the Street Laboratory and the second of th



PLOT NO 30, NUMBAROVAR ENCLAYE, TUPUDANA HATIA, NARCHI SSHIGU UHANKHARIDI ULT NO MARCHITZOODI

ENGINEERING SERVICES PVT. LTD.

Enalt info@eisst.suin, sieszooch@enal.com

Phone no.: 0651-2290203 Wichite: www.elegifos.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/6027	Report Release Date	: 17.10.2024
Work Order No.	: 13612312113	Work Order Date	128.03.2024
ULR No.	: TC135872400003920F		

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	; Hindalco Industries Limited	Sample Ref. No. Location	: ICLES/RNC/2004/AA/7100 : Near Harup Village Serengdag-A Bandte Mines (155.8)ha)
Address	: Lohurdagii, Thurkhand-835302	Sampling Date Sample Received Date Type of Sample	: 67,10,2034 to 08.10,3034 : 10.10,2034 - Ambient Air
Mines Status	Operational	Sampling Procedure	ELES/DOC/SMPL/02 ELES Pot. Ltd.
Period of Applysis	: 10,70,3024 to 17,10,3024	Sampling Done By Sample Condition	Sealed & Preserved

METEOROLOGICAL INFORMATI	ON CONTRACT		a la V
1 Average Temperature (°C) : 27		Biemocne Pressure (mmHg)	: 740
3 Helative Humidity (%) 56		Weather Condition	: Partly Cleudy:

Discipline : Chemic	al	Gruup ;	Group ; Atmospheric Pollution				
Parameter	Unit	Test Protocol	Result	Regulatory Limit			
Particulate Matter (PM10)	µg/m ¹	15 51 H2 (Part- 23): 2022	26	100 (24hm)			
Particulate Matter (PM2.5)	ug/m ²	35 5182 (Part- 24): 2019	21	60) (24hra)			
Sulphur Di-Oxide (SO ₂)	ug/m ²	15 511Q (Part-2/Sec1): 2023	7.2	30 (24brs)			
Ninogen Di-Oxide (NO ₁)	ug/m ¹	LS 5182 (Part- 6): 2022	29.3	80 (24brs)			
Openic(O _i)	идоп"	TS 5182 (Purt. V): 2019	<20.0	100 (8hm)			
Aminonia (NH ₂)	ng/m²	IS 5182 (Pan-25): 2018	<10.6	400 (24hn)			
Carbon Monoxide (CO)	mg/m ²	IS 5182 (Part- 10): 2019 (NDIR Method)	<1.0	2 (8hm)			
Lead (Ph)	µg/m²	3S 5132 (Part- 22): 2019	<6.002	1 (24hm)			
Nicket (Ni)	ng/m!	18-5182 (Part- 26): 2020	<6.0	20 (Amoul)			
Americ (As)	ng/m'	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)			
Hounte (C.H.)	ing in T	ELES/GC/SOP/06: 2023	<1.5	05(Aenual)			
Benzu-(a)-Pyrene	ng/m²	ELES/GC/SOW05: 2023	<0.5	D1(Aroual)			

Reviewed by Abarah Kumay

busilty Marrager

++**End of Report****

Authorized Stream

Dr. Deependra Kumer Sinha Ph. D. Environmental Engg.

Page Laft

Technical transper

The Holomograms of the Prince of the control of the Litherty was present for most of the Litherty of the Lithe



PLOT NO-32, MANSAROVAR ENCLAVE, TUPNOSANA MATIA, RANCH-RINGS (HARKHAND) BET NO - EGARETHTINESH

ENGINEERING SERVICES PVT. LTD.

Emrit info@leicos.com. electrochi@gmail.com

Phune no.: 0651-2290103 Website: www.efcopl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/6028	Report Release Date	: 17.10.2024
Wark Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135H724000H5921F	1	

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name	: Hindaica Industries Limited	Sample Ret. No. Location	: ELES/RNC/2004/AA/7101 : Neur Paintoli Village Serengdog-A	
Addres	: Loharduga, Iharkhund-855302	Sampling Date Sample Received Date Type of Sample	Barrior Mines (155.63bs) : 07.10.2024 to 08.10.2024 : 10.10.2024 - Ambient Air	
Mines Nation	; Operational	Sampling Procedure	: ELES/DOC/SMPL/02	
Period of Analysis	: 10.18.2024 to 17.10.2024	Sampling Dent By Sample Condition	: ELES Pvr. Ltd. : Seided & Preserved.	

M	ETEOROLOGICAL INFORMATIC	ON:	There is a	
1	Average Temperature (*C) : 27	1	Bammetric Pressure (mm)	Hg) : 740
3	Relative Hamidity (%) : 66	-4	Wentber Condition	: Partly Cloudy

Discipline: Chemic	at ta	Group:	Group : Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	µg/m³	18-5182 (Part-23), 2022	62	100 (24hrs)	
Particulate Matter (PM2.5)	дут'	18:5182 (Part- 24): 2019	- 33	60 (24hrs)	
Suiphur Di-Oxide (SO ₂)	jig/m ^j	1S 5182 (Part- ESect): 2023	7.9	80 (24hr)	
Nitragen Di-Oxide (NO ₃)	µg/m²	TS 5T82 (Part- 6): 2022	21.4	80 (24fm)	
Owne (O _i)	. jugimi	15 5182 (Part- 9): 2019	<20.0	100 (82m)	
Anmunia (NH ₃)	ag/m²	15:5182 (Part- 25): 2018	<10.0	100 (24ber)	
Carbon Monoxide (CO)	ing/is ²	IS-\$182 (Pars-10): 2019 (SDIR Method)	<1.0	I (Khri)	
Leid (Pb)	pg/m²	1S 5182 (Part-22): 2019	0,009	1 (24hrs)	
Nidad (NI)	ng/m²	15: 5182 (Part-26): 2020	<6.0	20 (Annual)	
Amimic (Ax)	tig/m"	ELES/ADR/SOP/01:2021	<2.0	06 (Annual)	
Bictione (C.H.)	"aug/m"	ELES/OC/SOP/06: 2023	<2.5	05(Annual)	
Benzo-(u)-Pytene	ngin'	ELES/GC/SOII/05: 2023	<0.5	(01(Attrual)	

Reviewed by

Abash Kumar

****End of Report****

datherized Street

Dr. Chipman Kultur Sinha Ph. D. Environmental Engg.

Continue Manager

Page Loft L

Tacilities managing

The Discount result is the frequency of the Samuray and the term of the Samuray and the Samura

ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT, LTD.

Plot No.30, Mansarovar Enclave, Tupudana, Hatia, Ranchi-834003, Jharkhand

Shrengdag A Bauxite Mine-Environmental Monitoring Report

November 2024



CONTENT

STATE OF STREET STATE OF STREET STATE OF STREET STATE OF STREET, STATE OF STREET STATE OF STREET, STATE OF STREET, STATE OF STATE OF STREET, STATE OF STATE OF STREET, STATE OF STATE OF STREET, STATE OF STATE OF STREET, STATE OF STATE OF STREET, STATE OF STREET, STATE OF STREET, STATE OF STATE OF

	Houtake Industries : Strengthy A Bouxte Mine Unvironmental Manitoring Report November 2024 Shrengtag A Bouxte Mine
	AMBIENT AIR QUALITY- CORE ZONE
	Near Weigh Bridge
1	BKB Quarty
3	Mine Pk Quarry No.2A
4	Mine Pit Quarry No.2B
	AMBIENT AIR QUALITY- BUFFER ZONE
	Near Banjari Village
2	Near Pauri Village
3	Noar Harup Village
4	Near Paletti G Village
	Drinking Water
	Effluent Water





PLOT NO-SIL MAINSAROVAR ENCLAVE, TUPUTIANA HATTA, BANCHI ESHOOZ (HARKHAND) GST NO.- JOAAFEESTERREN

ENGINEERING SERVICES PVT. LTD.

Emnit into Beinsplonin, ein zwichi@gmail.com Phone no.: 0651-2290103

Website / www.elegif.co.in



TEST REPORT

Test Report No.	ELES/RNC/2014/7005	Report Release Date	: 02.12.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULIU No.	- TC135872400004874F	1	

CUSTOMER DET	AILS	SAMPLE DETAILS	Water the same of
Customer Name	: Hindalco Industries Limited	Sample Ref. No. Location	: EEES/RNC/2024/AA/R211 : Near Weigh Bridge, Serengdag-A Bauxite Mines (155/81ha)
Address	: Lohardaga, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 28.11.2024 to 21.11.2024 : 25.11.2024 : Ambient Air
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/02
Period of Arabysis	: 25,11,2024 to 02,12,2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Scaled & Preserved

METEOROLOGICAL	INFORMATION
THE PERMITS CONTROL OF THE	41.00.000000000000000000000000000000000

1199	METEOROLOGICAL INFORMATION					
[1]	Average Temperature (°C)	-24	1	Barometric Pressure (mmHg)	: 740	
3	Relative Humidity (%)	-47	4	Weather Condition	: Clear	

Discipline: Chemic	ul	Group t	Group t Atmospheric Pullution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	ng/m	15 51/12 (Part- 23): 2022	82	100 (24km)	
Particulate Matter (PM2.5)	µg/m³	15 5182 (Part-24); 2019	46	60 (24hrs)	
Sulphur Di-Oxide (SO ₂)	µg/m	15-5182 (Part-2/Soc1): 2023	13.3	80 (24hrs)	
Nitrogen Di-Oxide (NO ₂)	µg/m²	15 5182 (Part- 6): 2022	30.8	80 (24hrv)	
Ozona (O _i)	µg/m"	18:5182 (Part- 9): 2019	<20.0	100 (8hrv)	
Ammonia (NH ₂)	ag/m*	TS 5182 (Part- 25): 2918	<10.0	600 (24hrs)	
Carbon Monoxide (CO)	mg/m ^T	IS 5182 (Part- 10): 2019 (NDIR Method)	1.22	2 (8hn)	
Lead (Pb)	μg/m ¹	IS 5182 (Part- 22): 2019	0.032	1 (24hm)	
Nickel (NI)	ng/m ⁷	TS 3182 (Part- 25): 2020	<6.0	29 (Annual)	
Amenie (As)	mp/m ³	ELES/AJR/SOP/01: 2021	<2.0	96 (Annual)	
Benzese (C ₄ H ₄)	дат'	ELES/GC/SOP/06: 2023	<2.5	95(Annual)	
Benzo-(a)-Pyrme	ng/m³	ELES/GC/SOP/05: 2023	<0.5	01(Annual)	
And I have a second left of the	the state of the s	A STATE OF THE STA		and the second s	

Reviewed by

****End of Report****

Authorised Signatory Aicrain Kumar

Page Earl's

The Demand stand of the Service of Control Control and Control and property of the Service of th common to reproduced record in this land may pert in the report or no collection or of courses, which place extract appears of the Laboratory. The Report in Mall in the probability advertise, and for one large action ordinary to promise in the Damagnet of the Calabratory. Attention to the contract or the Report of the Calabratory of the Calabratory. Attention to the contract of the Calabratory of the Calabrat ween Any conditioned alterance & residence of the content of the Text Text Text Text of the Section of the Section of the Color of the Section of the Sectio Report of March Security and N. N. Fre Application (SD), Halle (Species Level LD), Contribution (1991)



PLOT NO-30, MANSAROVAR ENCLAVE, PUPUIDANA NATIA, RANCHI-STROGE (SHARKHAND) BST NO- 3GAAFCE97130124

ENGINEERING SERVICES PVT. LTD.

Email: Info@elespl.co.in , eles.zwichi@gmail.com

Phone no.: 0651-2290103 Website : www.elespt.co.in



TEST REPORT

Test Report No.	+ELES/RNC/2024/7006	Report Release Date	: 02.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024	
ULR No.	: TC135872400604875F			

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Nume	: Hindalco Inchetries Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/8212 : BKB Quarry, Senenglag-A Butalite Mines (155.81ha)
Address	: Lohardaga, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 281.11.2024 to 21.11.2024 : 25.11.2024 : Ambient Air
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/02
Period of Analysis	: 25.11.2024 to 02.12.2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved

METEOROLOGIC	AL INFORMATION
THE LEGISLANDING	THE EALCHCREATURE

Average Temperature (°C) : 24	2	Barometric Pressure (mmH	z) :740
Relative Firmidity (%) : 47	4.	Weather Coodition	: Clear

Discipline: Chemic	ali .	Group :	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	µg/m ⁷	IS 5182 (Part- 23): 2022	63	100 (24hm)	
Particulate Matter (PM2.5)	pg/m ³	15-5182 (Part- 14): 2019	35	60 (24ho)	
Sulphur Di-Oxide (SO ₁)	pg/m ²	IS 5102 (Part- 2/Sect); 2023	11.9	80 (24hm)	
Nitrogen Di-Oxide (NO ₂)	µg/m²	IS:5182 (Part- 0): 2022	22.5	89 (24hoi)	
Ozone (O ₁)	pig/m ³	IS 5182 (Part- 9): 2019	<20.0	100 (8hm)	
Ainmania (NH ₂)	µg-m [*]	15 5182 (Part- 25): 2018	<10.0	400 (24hrs)	
Carbos Monoside (CO)	mg/m ³	IS-5182 (Parts-10): 2019 (NDIR Method)	<1.0	± (Shra)	
Lrnd (Pb)	ag/m³	18 51/12 (Part- 22): 2019	0.018	I (24brs)	
Nickel (Ni)	mp/m*	15-5182 (Purs-36): 2020	<6.0	20 (Annual)	
Anenic (At)	ng/m1	ELES/AIR/SOP/01: 2021	<2.0	O6 (Amuni)	
Benzene (Calla)	HE/m ³	ELES/OC/SOP06: 2023	<2.5	05(Annual)	
Benze-(a)-Pyrene	e ngim	ELES-OC/SOP/05: 2023	<0,5	D3(Annual)	

Reviewed by

**** End of Report****

Authorized Signatury

Akash Kumur

Page 3 of 3

Figs. 3 of 3.

The financiar mass as the property of the Laboratory code. Comment became of Conditional, any on Comments became hand in pro-opposed forms: The mass described only and notice to the Laboratory and the financiary of the laboratory on the property of the financiary of the laboratory of contacts and to be be a first port persons he has a man from the Management of the American interest in the Interest of the Management of the American interest in the Interest of the Management of the Interest of the Inter min tool to I that Appendix Will Older Handwell wat 118 there there and was



PEOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA HATIA, KANCHI-BIADDI (JKARKHAND) DST NO: 30AAECE9713012#

ENGINEERING SERVICES PVT. LTD.

Email: info@etespi.co.in , irles ranchi@gmon.com

Phone no.: 0651-2290103 Website I www.alespl.co.in



TEST REPORT

Test Report No.	ELES/RNC/2024/7007	Report Release Date	: 02.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400004876F			

CUSTOMER DETAILS		SAMPLE DETAILS	
Cassomer Name	Hindake Industries Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/R2)3 : Mine Pit Quarry No.2A. Serenging-A Brackite Mines(155/81mc)
Addraw	: Echardaga, Jharkhané-835302	Sampling Date Sample Received Date	: 20.11.2024 to 21.11.2024 : 25.11.2024
Mines Status	: Operational	Type of Sample Sampling Procedure	: Ambient Air : ELES/DOC/SMPL/02
Period of Analysis	: 25.11.2024 to 02.12.2024	300 M (201 M) (10 M) (10 M)	: ELES Pvt. Ltd. Sealed & Preserved

METEOROLOGICAL INFORMATION				
1 Average Temperature (*C) ::24	21	Barmetric Pressure (mmHg)	1/740	
3 Relative Hamidity (%) 47	4	Weather Condition	: Clear	

Discipline: Chemic	nî	Group:	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	µg/m ³	IS 5182 (Part-23); 2022	68	100 (24hrs)	
Particulate Matter (PM2.5)	µg/m*	15.5182 (Pari- 24); 2019	39	60 (24hrs)	
Sulphur Di-Oxide (SO ₃)	pg m	15 5182 (Part- 2/Sect): 2023	10.3	50 (24hrs)	
Nitrogen Di-Oxide (NO ₂)	pp/m ¹	25 51 H2 (Part- 6): 2022	26.9	50 (24hrs)	
Ozone (O ₁)	pp'm²	15:5182 (Part- 9): 2019	<20.0	100 (8hrs)	
Ammonia (NH _i)	agm ¹	15 51 K2 (Phrt- 25); 2018	<10.0	400 (24hrs)	
Carbon Monoxide (CO)	mg/m ¹	35 5182 (Part- 10): 2019 (NDIR Method)	1,19	2 (8hm)	
Lani (Ph)	µg/m²	IS 5182 (Part- 22) 2019	0.013	1 (24hrs)	
Nickel (Ni)	mp/m²	IS 51N2 (Part- 26): 2020	<6.0	20 (Annual)	
Arienic (As)	mg/m²	ELES/AIR/SOP(01: 2021	<2.0	05 (Annial)	
Benezoe (Calla)	µgm ¹	ELES/GC/SOP/06: 2023	<2.5	05(Annual)	
Benzo-(a)-Pyrene	ng/m²	ELES/GC/SOP/05: 2023	<0.5	01(Annual)	

ins a g čini. Reviewed !

****End of Report****

Anthorised Signatory Akush Kumar

Page 1.071

The Dissert start of the State or make through the rest and Condition, with the Commany force from the programmed forces. The month shows on the Total Aspect easing with. The information mound on the Tree Notice replace the Facilitys alone for the Laborator at the stors of Kernberger and specific with the lamb of a the lamb of where the Party has the last two of electricities of the fact that the second formal party where as to be second as applied that the type of the other of the party to be party to be a Report of the professor Miles above and WA/Not Applicable). This (Note: December 1996). Ultifaces December 1994)



PLOT NO-30, MANSAROVAN ENCLAVE, TUPUTIANA MATER, BANCHI ESMICIS (MURRIMANO) GST NO: 2004/05/21/2012/4

ENGINEERING SERVICES PVT. LTD.

Empir info@elesal.co.in . eles.ranchig-pmoil.co.m

Phone no.: 0651-2290103 Website : www.olespi.co.in



TEST REPORT

Test Report No.	ELES/RNC/2024/7008	Report Release Date	: 02.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	± TC135872400004877F	HUMANIA STANDARD		

CUSTOMER DET	AILS	SAMPLE DETAILS	- Institution permits assume the
Customer Name	: Hadden Industries Limited	Sample Ref. No. Location	ELES/RNC/2024/AA/8214 Mine Pit Quarry No.2B, Serengdag-A Bauxile Mines(155.51ba)
Address	: Lohardagu, Jharkhand-835302	Sampling Dute Sample Received Date	: 20.11.2024 to 21.11.2024 : 25.11.2024
Mines Status	: Operational	Type of Sample Sampling Procedure	: Ambient Air : ELES/DOC/SMPL/02
Period of Analysis	: 25.11.2024 to 02.12.2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Scaled & Preserved

MI	ETEOROLOGICAL INFOR	MATION			
1	Average Temperature (°C)	:24	1	Barmoetric Pressure (mmHg)	740
)	Relative Humidity (%)	≥47	4	Weather Condition	: Clear

Discipline: Chemic	ri .	Group :	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	µg·m²	3S 5182 (Part-23): 2022	70	300 (24bm)	
Particulate Matter (PM2.5)	μg/m³	15 3182 (Part- 24): 2019	38	60 (24fes)	
Sulphur Di-Oxide (SO ₂)	µgim ¹	15 5182 (Part- 2/Sect.): 2023	11.6	80 (2 thrs)	
Nitrojen Di-Oxide (NO ₂)	µgim'	35 5182 (Part- 6): 2022	30.2	80 (24hrs)	
Ozone (O ₅)	μg/m ³	15:5182 (Part-9): 2019	<20.0	100 (8hrs)	
Ammonia (NH _c)	ugint	1S 5182 (Part- 25); 2018	<10.0	400 (24hn)	
Carbon Monoside (CO)	mg:m*	28 5182 (Part- 10): 2019 (NUR Method)	1.32	2 (Mrs)	
Lead (Pb)	pg/m²	18 5182 (Part- 22): 2019	0.011	1 (24kn)	
Nickel (Ni)	ng/m³	IS 5382 (Part-26): 2020	<6.0	20 (Annuil)	
Americ (As)	og/m*	ELES/AIR/SOP/01; 2021	<2.0	96 (Annual)	
Benzenz (C,H _e)	μg/m ⁴	ELES/GC/80P/06: 2023	<2.5	05(Annual)	
Henzo-(a)-Pyrent	ng/m³	ELES/GC/80P/05: 2023	<0.5	01(Aroud)	

Reviewed by

****End of Report****

Authorised Signatory

Akesh Komar

Prop. 1 of 1

The January stand or pro-graved from the could form and Condition, only in Contrary from land a pro-graved from the real forms of the real forms of the following stands of the stands of mount to represent chapt to be and any part of the agent as no takes out of corner, whereas pair witness agrees of Orde Tabersons. The Super is full on in you could not be pulled out. where soid to be replaced as a few parts of the later of Separate William Sense Albertain and WA (for Appendix) 10th States Debutton, and COS Honer Tempton Limit



PLOT NO-50, MANSAROVAR ENCLAVE, TUPUDANA MATIA, RANCHI-E34003 (HARKHAND) DIT NO-MARCESTERDIZA

ENGINEERING SERVICES PVT. LTD.

Email: info@elesal.co.in , eles amchi@gmail.com Phone no.: 0651-2296103

Website: www.oleapi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/7009	Report Refense Date	: 02.12.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135872400004878F	The second secon	

CUSTOMER DET	AILS	SAMPLE DETAILS	Contract Course Contract Contract
Customer Name	: Hindulon Industries Limited	Sample Ref. No. Location	: ELES/KNC/2024/AA/R215 : Near Banjari Village Serengdag-A Banxite Mines (155/81ha)
Address	: Lohardaga, Jharishand-835302	Sampling Date Sample Received Date Type of Sample	: 20.11.2024 to 21.11.2024 : 25.11.2024 : Ambient Air
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/02
Period of Analysis	: 25 11 2024 to 02 12 2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Seniod & Preservoil

Mi	METEOROLOGICAL INFORMATION					
1	Average Temperature (*C)	: 24	1.2	Barometric Pressure (mmHg)	: 780	
1	Relative Humidity (%)	≥47	4	Weather Condition	: Clear	

Discipline: Chemic	al	Group:	Atmospheric	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m²	35 5182 (Purt- 23): 2022	62	100 (24bm)
Particulate Matter (PM2.3)	µg/m³	15 5182 (Part- 34): 2019	34	60 (24hrs)
Sulphur Di-Oxide (SO ₃)	μg/m³	IS 3182 (Part-2/Sect): 2023	10.3	80 (24hrs)
Nitrogen Di-Oxide (NO ₂)	µg/m³	15 5182 (Part- 6): 2022	24.8	80 (24hri)
Ozone (O ₁)	µg/m ¹	IS 5182 (Part-9): 2019	<20.0	(00 (8bm)
Ammonia (NH ₁)	ug/m"	35 5182 (Part- 25): 2018	<10.0	400 (24bm)
Carbon Monoxide (CO)	mp/m*	IS 51R2 (Part- 10): 2019 (NDIR Method)	<1.0	2 (Nes)
Lead (Ph)	pgm	IS 5182 (Part- 22): 2019	0.011	(24hn)
Nickel (Ni)	ng/m	TS 5182 (Part- 26): 2029	<6.0	20 (Aresuit)
Americ (As)	ngan	ELES/AIR/SOP/01: 2021	<2.0	96 (Arexal)
Benzene (C ₄ H ₄)	pagies ¹	ELES/GC/SOP/06: 2023	<2.5	05(Annual)
Benze-[a]-Pyrene	ng/m ³	ELES/GC/SOP/05: 2023	< 9.5	01(Annual)

105 A 2 Reviewed hy

****End of Report****

Authorised Signatory Altosh Kuther Centilly Manager

Page 1 of 1

The January made is a property before the resistance of a disease of a mented to Triage Note the Date of information of the Total Ages. The country for Sugalative testing as to be consisted on specifical time type of Programmer of Engineers regarding the Region of Programmer and Engineers of Engi ending and ACCOM Applicable 1818, Obtave Decision Lights 1818, Howev Streets in the Support to up Table



PLOT NO-1B. MANSAROVAR ENCLAVE, TUPUDANA HATIA, RANCHI-834003 (HARKHAND) GST NO: 20AARCESTESDESS

ENGINEERING SERVICES PVT. LTD.

Email: infocielespl.co.ia , eles ranchilligmail.com

Phone no.: 0651-3290101 Website: www.elegat.co.W



TEST REPORT

Test Report No.	: ELES/RNC/2024/7610	Report Release Date	: 02,12,2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400004879F	The state of the s	- 50500000000	

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	: Hindulco Industries Limited	Sample Hef. No. Lectrion	: ELES/ENC/2024/A/OR216 : Near Pauri Village Serringdag-/ Bauxite Mirres (155.81ha)
Address	: Lehardaga, Tharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 20.11.2024 to 21.11.2024 : 25.11.2024 : Ambient Air
Mires Status	Operational	Sampling Procedure	: ELES/DOC/SMPL/02 : ELES PM, Ltd.
Period of Analysis	: 25.11.2024 to 02.12.2024	Sampling Done By Sample Condition	Sealed & Preserved

METEOROLOGICAL INFORMATION			
1 Average Temperature (°C) : 24	2	Barometric Pressure (mml)	2 :740
3 Relative Humidity (%) : 47	4.	Weither Condition	Clear

Discipline : Chemic	al	Group:	Atmospherie)	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	ug/m ³	iS-5182 (Part-23): 2022	66	100 (24hrs)
Particulate Matter (PM2.5)	ug/m³	15 5182 (Part- 24): 2019	38	60 (24hm)
Sulphur Di-Oxide (\$0 ₁)	ug/m³	1S 5182 (Part-2/Sec1): 2023	11.8	86 (24tim)
Nitrogen Di-Oxide (NO ₂)	ug/m ^T	(S 5182 (Part- 6): 2022	26.3	89 (24tirs)
Ozone (O ₁)	ug/m³	IS 5182 (Part- 9): 2019	<20.6	100 (85cs)
Ammonia (NHs)	jug/m*	15 5182 (Part-25): 2018	<10.0	400 (24brs)
Carbon Monocide (CO)	mg/m²	IS 5182 (Part-10); 2019 (NDIR Method)	<1.0	2 (9trs)
Lend (Pb)	agen.	18:5182 (Parts 22): 2019	0.015	1 (24hrs)
Nickel (Ni)	ng/m*	15 5182 (Part- 26): 2020	<6.0	20 (Amaal)
Arsenic (An)	ngon*	ELES/ABUSOP/01:2021	<2.0	(6 (Annual)
Benzeng (C _c H _c)	hTi,uu,	ELES/GC/50P/06: 2023	<2.5	05(Armid)
Baszo (a)-Pyrune	ng/m	ELES/GC/SOP/05: 2023	<0.5	Ol(Annial)

4000 A Reviewed by

****End of Report****

Authorised Signatory About Kumar

Page 1 of 8

The Dominant study is first for the property of the Committee and the Committee of the Comm count is considered arrange in fall and man part of the super is not show our of antical widow price written approach of the Laboratory. The States in Self-or in part abid and in published. where well a my had not a finite property on the last of the last beginning that the second s comment for Philips from the Charlest parameters of the Tea Report. The manufacturer from the parameter is the content of special devices of Districtions of Completes reporting the Reports that the content of Philips from the State of Tea State of enter and 10 h Our applicable; all I did to financia Land, EX Const Balancia Land Record of the Difference Veneral - Vide



PLOT NO-30, MANUAROVAR ENCLAVE, TURGDAMA HATIA, MANCHI-834003 (HARKHAND) GET NO ZONAHERRYSHDIZA

Emsil: info@elespl.co.in , eles_ranchi@gmail.com

Phone no.: 0651-2290103 itiebalte : www.ielegic.no.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/7011	Report Release Date	: 62.12.2024	
Wark Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400004880F	The state of the s		

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer None	: Hindulco Industries Limited	Sample Ref. No. Lucation	: ELES/RNC/2024/AA/R217 : Near Harup Village Serungdag-/ Bauxite Mines (185.81ha)
Address	: Lohardaga, Jharkhund-835302	Sampling Date Sample Received Date Type of Sample	=20.11.2024 in 21.11.3024 =25.11.2024 = Ambient Air
Minus Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/07 : ELES Pvt. Ltd.
Period of Analysis	of Analysis : 25.11.2024 to 02.12.2024 Sampling Done By Sample Condition		Sealed & Preserval

METEOROLOGICAL INFORMATION			
1 Average Temperature (*C) 124	- 2	Harconstric Pressure (mmHz	740
3 Relative Humility (%) : 47	4	Weather Condition	: Clear

Discipline: Chemic	pil .	Group:	Atmospheric l	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	μg/m ³	IS 5182 (Part- 25): 2022	64	100 (24hrs)
Particulate Matter (PM2.5)	µg/m ^t	IS 5102 (Pari-24): 2019	36	60 (24hm)
Sulphur Di-Oxide (SO ₄)	µg/m¹	15 5182 (Part-2/Sec1): 2023	10.3	80 (24lm)
Nimigen Di-Oxide (NO ₁)	µg/m ¹	15 5182 (Part- 6): 2022	22.7	80 (24hrs)
Otenne (O ₁)	ug/m1	IS 5182 (Part-9): 2019	<20.0	100 (8hm)
Ammonia (NHa)	ug/m²	18 5182 (Part- 25): 2018	<10.0	400 (24hm)
Carton Monoxide (CD)	mg/m ¹	US 5182 (Part- 10): 2019 (NDIR Mellod)	1.19	2 (8hrs)
Land (Pb):	pgins"	15 5182 (Part- 22): 2019	<0.002	1 (24hrs)
Nickel (Ni)	ng/m²	15 5182 (Part- 26): 2020	<6.0	20 (Annual)
Arsenic (All)	ng/m²	ELES/A00/SOP/01; 2021	<2.0	06 (Annual)
Benzene (CaHa)	ug by	ELES/GC/SOP/06: 2023	<2.5	05(Annual)
Велло-(и)-Ругепс	ng/m ³	ELES/GC/SOP/05: 2023	<0.5	01(Amust)

Reviewed by

****End of Report****

Authorised Signatory Alceste Kustrar Guelly Manager

Page Lat 1

In the case we have a specific to the second of the second where the constitute is not a first to be a second of the constitute of the second of the constitute o within the Basis of Mart's In



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUTAMA HATIA, RANCHI-BSAROI (MARKHAND) GST NO-38ARECEVIZGEN

ENGINEERING SERVICES PVT. LTD.

Empli jefoffetissi zu in . eles zurchi@gmeil.com

Phone no.: 0651-2290103 Website: www.olespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/7012	Report Release Date	: 02.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 2K.03.2024	
ULR No.	: TC135872400004881F			

CUSTOMER DET	AIL5	SAMPLE DETAILS	under a succession of the succ
Customer Name	: Hindaloo Industries Limited	Sample Ref. No. Lecution	: ELES/RNC/2024/AA/8218 : Near Paintali Village Screngdag-A Bauxin Mines (155,81ha)
Address	: Lohardings, Tharkhand-835302	Sampling Date Sample Received Date Trans of Sample	: 20.11.2024 to 21.11.2024 : 25.11.2024 : Ambient Air
Mices Status	: Operational	Type of Sample Sampling Procedure	: ELES/DOC/SMPL/02
Period of Analysis	: 25.11.2024 to 02.12.2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved

M	ETEOROLOGICAL INFOR	MATION			
-1	Average Temperature (*C)	:24	2	Harometric Pressure (mmHg)	: 740
-3	Relative Humidity (%)	: 47	4	Weather Condition	: Clear

Discipline: Chemic	al la	Group:	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	μg/m³	1S 5182 (Part- 23): 2022	59	100 (24hrs)	
Particulate Matter (PM2.5)	μg/m ¹	18 5182 (Part- 24): 2019	30	60 (24ks)	
Sulphor Di-Oxide (SO ₁)	µg/m!	18 5182 (Part- 2/Sec.) ;: 2023	8.3	80 (24lex)	
Nitrugen Di-Oxide (NO ₂)	μg/m	IS 5182 (Part- 6): 2022	24,6	80 (24hry)	
Ozone (O _i)	agm*	15:5182 (Part- 9): 2019	<20.0	100 (Shrs.)	
Ammonia (NH ₁)	stiklad.	IS 5782 (Part-25): 2018	<10.0	400 (24)(5)	
Carbon Monovade (CO)	mg/m ²	2S 5182 (Part-10): 2019 (NDIR Method)	1.18	2 (8brs)	
Lind (26)	agint"	IS 5182 (Part- 22): 2019	0.012	3 (24hrs):	
Nickel (Ni)	ng/m²	IS 5182 (Part- 26): 2020	<6.0	20 (Annual)	
Amanic (As)	ng/m	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)	
Benzene (C ₀ H ₀)	ug/m²	ELES/GC/SOP/06: 2023	<2.5	05(Animal)	
Benzo-(2)-Pyrene	ing/m ³	ELES/GC/SOP/05: 2023	<0.5	01(Annial)	

Reviewed by

****End of Report****

Authorized Signatury

Ownity Managor

Page LeCt.

The Housest start is the proposed forms the country cannot be a start of the form of the proposed forms. He could done in the form of the start of done in the form of the for



PLOT NO-30, MANSAROVAN ENCLAVE, FUPUDANA HATSA, MANCH-#34003 (IMMUHAND) BET NO-20ARCERTIADEM

ENGINEERING SERVICES PVT. LYD.

Email: info@elexpl.co.in , eles.ranchi@gmail.com

Phone no.: 0551-2290103 Website: www.nlespl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/7045	Report Release Date	: 02.12.2024	
Work Order No.	1 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400004914F			

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name. Address	Hindsley Indostries Limited Lohardaga, Hurichand-R35302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: ELES/RNC/2024/DW/8251 21.11.2024 25.11.2024 Deloking Water R.O Water Neur Entrance Gate	
Mines Statas	: Operational	Sampling Procedure	(Sermgdag-A frauxitz Mines : ELES/DOC/SMPL/01	
Period of Analysis	: 25,11,2024 to 02.12.2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved	

Discipline: Chemical	Group :	Water	Regulatory Limit as per 18 10500:2012		
Parameter	Unit	Test Protocol	Result.	Acceptable Limit	Ferminible Limit
pH (at 24.8°C)	9	APHA 24 th Fal 2022, 4500-H	6.57	6.5-8.5	No Relaxation
Turbidity	NTU	APHA 24" Ed 2021, 2130 B	0.86	1.0	5.0
Taite	70	APHA 24th Ed 2023, 2160 C	Agreeable	Agreeable	Agreeable
Odour	N.	JS 3025 (Part-5) :2018	Agreeuble	Agreeable	Agracuble
Colour	Haem	APHA 24th Ed. 2023, 2120B&D	1,0	5.0	15
Total Dissolvest Solida (TDS)	mg/L	APHA 24 th Ed.2023, 2540B,C&D	48.6	580	2000
Chforide (as CI)	mg/L	APHA 24th Ed.2023, 4500 CLB	12.1	250	1000
Fluoride (as F)	mg/L	APHA 24 th Ed. 2023, 4500 F-D	BDL (DL: 0.1)	1.0	1.5
Total Afkalinny (as CuCO ₅)	mgT.	APHA 24th Ed.2023, 2020 8	14.8	200	600
Total Hardness (m CaCO ₂)	mgL	APRA 24th Ed.2023, 2340 C	18.2	200	600
Sulphine (as SO ₄)	mg/L	APHA 24" Ed 2023, 4500 SO ₃ "-E	2.64	200	400
Nitrate (as NO ₃)	mg/L	APHA 24 th Ed.2023, 4500 NOB	0.82	45	No Religation

Page 1 of 4

The Decisions which is Total Report, is something the Laboratory under Correct Terms and Completers, only on Company have bond in presupproved forms. The contributions as the Total Report refer or related only to the polarizations done by the Laboratory entry. The information excited on the Total Report refer or related only to the state of the first of contributions. The Laboratory is employable for all the enformation of data provided on the specific for information of the contribution of the information of the provided on the specific for information of the Laboratory is employable for the Company of the Laboratory. The Report is find in part of the specific distribution, and any part of the report to the thickness of the Company of the Laboratory. The Report is find in part of the published, advantage, and the report to the thickness of the Management of the Laboratory. Attended in all thickness of the related to any legal actions solve pure permission has been sound from the Following of the Laboratory of the Laboratory advantaged and effective may be presented to the laboratory of the Laboratory of the Laboratory and Englished and effective may be presented to the laboratory of the Laboratory

Later Commission of State Street



PLOT NO-10, MANSAROVAN ENCLAYE, TUPUDANA HATTA, RANICHI-BEADOS LIHARKHANDI SST NO-JOANECUSTEMBLEA

CINEERING SERVICES PVT, LTD

Empli: info@elesal.co.in . eles.rorchi@gmail.com Phone no.: 0651-2290103

Website / www.elespi.co.in



TEST REPORT

+ 02.12.2024 Test Report No. : ELES/RNC/2024/7045 Report Release Date : 28,03,2024 Work Order No. 1 13612312113 Work Order Date DLD No.

Discipline: Chemic	at	Grui	ip: Water		ory Limit 0500:2012
Parameter	Unit	Test Protocol	Result	Acceptable Linux	Parainible Limit
Phenolic Compound (as C _s H ₂ OH)	mg/L	15 3025 (Part 43/Sec l.): 2022	BDL (DL±0.001)	0.001	0.002
Free Residual Chlorine (RPC)	mg/L	18:3025 (Part-26): 2021	BDL (DL: 0.1)	0,2(Min)	1,0(Min)
Calcium (as Ca)	mg/L	APHA 24" Ed 2023, 3500 Cu B	4,4	73	200
Amonic Surfactants (as MEGAS)	mg/L	APHA 24 th Ed 2023, 5540-C	BDL (DL: 0.025)	0.2	3.0
Discipline: Chemic	cal	Gri	up: Residues i	n Water	
Alvaninum (m. Al)	mg/L	15:3025 (Part-35):2003; RA2019	BDL. (DL: 0.02)	0.03	0.2
Amenic (as As)	mg/L	ES 3025 (Part-37): 2022	BDL (DL: 0.005)	0.01	No. Relaxation
Boron (us B)	mgl	15 7025 (Pwn-57): 2021	BDL (DL: 0.2)	0.5	1.0
Cadmium (as Cd)	mg/L	APHA 24" Ed. 2023; 3111B	BDL (DL: 0.003)	0.003	No Relaxation
Total Chromium (as Cr)	mg/L	APHA 24 th Ed 2023; 31118	BDL. (DL: 0.03)	0.05	No Relayation
Copper (us Cu)	mg/l_	APHA 14 th Ed.2023; 3111B	BD1. (DL: 0.03)	0.05	1,5
Cyunide (as CN)	mg/l.	APHA 24" Ed.2023, 4500 CN-E	BDL (DL: 0.012)	0.05	No Relaxation
Iron (as Ec)	mg/L	APHA 24 th Ed.2023; 3111B	0.082	1.0	No Relevation
Lend (as Pb)	mg/L_	APHA 24 ⁴ Ed.2023; 31118	HDL: (DL: 0.01)	10.0	No Reinsution
Mangunese (as Mn)	ing/L	APHA 24 th Ed.2023; 3111B	BDL (DL: 0.05)	0.3	0.3
Mercury (in Hg)	mg/L	IS 3025 (Part-48): 2019	BOL. (DL: 0.001)	0.001	No Relexation
Selenium (as Se)	mg/L	1S 3025 (Pun-56): 2019	BDL (DL: 0.01)	0.01	No Relaxation

Page 2 of 4

The Discourage Hotel on Test Regard, in instead the the Enthermony under Committee and Committees, under an Committee band in pro-approved former. The residen shows in the Taxt Report point at related only to the polyment/you stone by the Laboratory only. The authorator stated on the Torc Report serface the findings down by the Laboratory at the time of professions only and within the limits of client's instructions. The Laboratory is suggested for all the inferentiat or data provided on the report, charge the information which is provided by the claim. The Report current ha reproduced countries fall and any part of the report is not taken not of content, without prior written appeared of the Laboratory. The Report on full or in part shall not be prefetched, subcratice, used for one legal actions codes prior permissions has been separal from the Management of the Laboratory. Attention is done to the limitation of radility, compression and parallel account record, August another and observed in laterization of the commet or agreement of the Tast Reports establish and officialist was be presented to the fielder estate of the late. All the complex are control for Efficy from the Date of columnisms of the Lory Report. The complex flore Regulatory hindes are to be retirent an specified. Any type of Discovarious or Completes regarding the Reports shall be done wither Halipp from the Dam of Test Report relevand valued. After the tone period stand before, no appropriate will be accepted. The estin Time releable storograms in Test Report in in Discuss Sensol Abbreviation and NAL (Fed Applicable) 2011. (Below Discussion Limits Life), LED, Clarest Demotion



PLOT NO-30, MANSAROVAR ENCLAVE, TUPLIDANA HATTA, MANCHI-834503 (INDREHANO) GST NO: 289A4E029713/0129

ENGINEERING SERVICES PVT. LTD.

Email: info@elespt.co.ltr, eles.machi@onell.com Phone no : 0651-2290193 Website : www.eleapt.co.m

TEST REPORT

± 02.12.2024 Test Report No. 1 ELES/RNC/2024/7045 Report Release Date Work Order No. 13612312113 Work Order Date : 28.03.2024 ULR No. : TC135872400004914F

Discipline: Chemical		Group : Resid	ues in Water		ory Limit 0500:2012
Parameter	Unit	Test Protocol	Result	Arregtable Limit	Permissible Limit
Zinc (as Zn)	mg/L	APHA 24 th Ed:2023; 311 UV	BDL (DL: 0.1)	5.0	15
Polymetieur Aromatic Hydrocarboni (PAH)	ug/L	ELES/GC/SOP/04: 2023	BDL (DL: 0.05)	0.1	No Rehoutio
Polychlorimated biphonyls (PCB)	pg/L	ELES/GC/SOP/01: 2023	(DL: 0.1)	0.5	No Relaxatio
Pesticides				Li	mit
Alachior	Лац	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)		20
Atrazine	ppt.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	2.0	
Butachler	μg/L	ELES/GC/SOP/01: 2023	BDL, (DL: 0.5)	125	
Chlorpyriphos	μg/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	30	
Edion	Luq.	ELES/GC/SOP/01: 2023	BDL (DL± 0.5)	3,0	
Malaffiios	.Pgq	ELES/GC/SOP/01; 2023	BDL (DL: 0.5)	140	
Methyl parathics	Page	BLES/GC/SOR/01: 2023	BDL (DL: 0.1)	U	30
Mosocrutephos	pg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)		.0
Phorate	μg/L	ELES/GC/\$0#/01: 2023	BDt, (DL: 0.5)	84	1.0
Phorate Sulphone	ng/t.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	*	
Dickirin	µg/L	ELES/GC/80P/02: 2023	8DL (DL: 0.01)	0	,03
Alpha HCH	pg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.006)	0	40
Beta HCFI	μg/L	ELES/GC/SOP/02: 2023	HDL, (DL: 0.02)	0	jj4

Page 3 of 4

The Discourse series on Transferrer, in insued by the Laboursey under Covernal Terror and Constraints, only on Coopers from head to use approved forms. The results offerent in the Time Report ratio or subspace only to the potential or the Laboratory only. The information manual or the Time Report ratios the findings should be the Laboratory at the trace of inconstructions and within the latent of element entrectains. The Laboratory is responsible for all the information on their provided on the regions, ecoupt the information which is principled by the client. The Report careal for reportational ecoupt in hill and any part of the region is not taken out of content. within price writing agreement of the Laboratory. The Regist in full or in part shell not be published, adverting small for new logal nations under province manhorm second than the Management of the Laboratory. Attention is drawn to the limitation of liability, compensation and particlesses issues. Any constitution is builtures of the content or appearance of the Test Report is subsected and effective may be processed to the fact or extent of the law. All the complete our extent of the Makes from the Case of referentiates of the Test Report. The samples from Regulatory bodder are to be enterted as equations. Any type of Observations of Completes. regarding the Reports shall be done within Utdays them the Date of Text Report editated bound. Other the time period stated before, for comprising well by accepted. The entry Time schedul monitoral in Tot Expert is in Misses Great Affections and NA, Nor Application 90% (Bules Detection Liver Liver Detection Limit)



PLOT NO-ED, MANSAROVAR ENCLAVE, TUPURDANA HATIA, RANCHI-BARDUS (HARRIHANO) SST NO-2DARICESTERUES

NGINEERING SERVICES PVT. LTD.

Email: info@elespt.co.in , cles.ranchi@omail.com Phone no.: 0651-2290101

Phone no.: 0651-2290101 Website: www.elespi.co.in



Det. Rivilla price de Lecours de

TEST REPORT

Test Report No.	: ELES/RNC/2024/7045	Report Release Date	: 02.12.2024
Work Order No.	: 13612312113	Work Order Date	128.03.2024
ULR No.	±TC135872400004914F		

Pesticides				
Parameter	Unit	Test Protocol	Result	Limit
Delta HCH	ng/L	ELEX/00/SOP/02: 2023	RDL; (DL; 0.02)	0.04
Gamma HCH (Lindane)	ugit.	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	2.0
Endowlfim (alpha, beta and sulphate)	μg/t.	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	0.40
DDT(o,p and p.p-isomers of DDT) (DDE and DDD)	ug?t.	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	1.0
Discipline : Riological		Grou	p: Water	
Total Coliforn (Qualitative)	Per 100 ml.	15/15185: 2021	Not Detected	Shall not be detected
Escherichia coli (Qualitative)	Per 100 ml.	15 15185: 2021	Not Detected	Small not be detected

Reviewed by Aknon Kumar Suzelity Manager

****End of Report****

Authorised Signatory
Dr. Despendra Xumar Sinha
Ph. D. Environmental Engg.
Technical Manager

Page 4 of 4

The Decement record in York Report, in council by the Laboratory under Opported Toppes and Constitution, wells in Constitute hand in propagative thems. The second above in the Feed of probability of the Laboratory and the first in the first in the Endough and the Constitution of the Endough and Endoug



PEDT NO-3E, MANSAROVAR ENCLAVE, TUPUDANA HATIA, RANCHI ESKOES (MARKYANO) DET NO-20AARTISTERIZE

ENGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in , eles.ranchi@gmail.com

Mane no.: 0655-2290103 Website: www.elegi.co.in

TEST REPORT

Test Report No.	: ELES/RNC/2024/7645	Report Release Date	: 02.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	

CUSTOMER BET	USTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	: Hindaler Industries Limited : Leibardaga, Burkhand-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Sewice of Sample Location of Sample	: ELES/RNC/2024/OW/8251 : 21.11.2024 : 25.11.2024 : Drinking Water : R.O Water : Near Entrance Gate (Screngdag-A Bauxite Minus)		
Mines Status	Operational	Sampling Procedure	: ELES/IXXX/SMPL/01		
Period of Analysis	: 25,11,2624 to 92,12,2624	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved		

Discipline: Chemical		Group: Wa	der	Regulatory Lin as per 18 (0500.2)	
Parameter	thit	Test Protocol	Result	Acceptable Limit	Fermioità: Limit
Mineral Oil*	Jun	2S 3025 (Part-39); 2021, Clause 6 Inferred Spectroscopic method.	BDL (DL: 0.01)	0.5	No Relevation

Remarks: (*) Parameters are outsourced to other Lab

Reviewed by

Akmili Kumar Ousliny Manager ****End of Report****

Authorised Signatury

Dr. Despendra Kumar Sintus Ph. D. Environmental Engg. Technical Manager

Page 7 of I

The Decement which is Test Report, is insurable the Laboratory state Grantal forms and Contents, such the Contents is pro-expressed format. The results shows to the Test Report refers to the test in pro-expressed format. The results of the Test Report refers to the Test Report refers to the test indicate the Results of the Section of Section of the Section of Section



PLOT NO-SO, MANSAROVAN ENCLAVE, TUPUDANA MATIA, ISANCHI-REGUES (SHARKHANZI GST MO: 2004AECE97E20124

GINEERING SERVICES PVT. LTD.

Email: info@elespl.co.ir , eles ronchi@gmail.com Phone no.: 0651-2290103 Website: www.cleapl.co.in

TREATMEN

TEST REPORT

Test Report No.	± ELES/RNC/2824/7052	Report Release Date	± 02.12.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135872400004921F		

CUSTOMER DET.	CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	: Hindalco Industries Limited : Lohardaga, Burkhand-835302	Sample Ref. No.: Sampling Date Sample Received Date Type of Sample Source of Sample	: ELES/RNC/2024/EF/8258 : 21.11.2024 : 25.11.2024 : Effluent Water - Serrogelag-A flansite Miner		
Mines Status	: Operational	Sampling Procedure Sampling Done By	(155.81 ha) : ELES/DOC/SMPL/01 : ELES Pvt. Ltd.		
Period of Analysis	= 25.11.2024 to 02.12.2024	Sample Condition	Scaled & Preserved		

Discipline : Chemical		Group : Pallution & I	avironment	Dischurge Limits – CP EPR, 1986 Schedule V	
Parameter	Unit	Test Protocol	Result	Inland Surface Water	Land for Irrigation
pH (at 24.7 °C)		APHA 24th Ed.2023,4500-H	5,98	5.5-9.0	5590
Total Dissolved Solies (TDS)	mg/L	15 3825 (Part-16); 2923	286	1,000	::=
Total Suspended Solids (TSS)	mg/L	1S 3025 (Part-17); 2022	14.8	100	200
Dissolved Oxygen (DO)	mg/L	15 3025 (Part-38): 2019	6.3		-
Biochemical Oxygen Demand (HOD) (at 27 °C for 3 days)	mp't.	15 3025 (Part-44): 2023	5.5	30	100
Chemical Oxygen Demand (COD)	mu/L	IS 3025 (Part-58): 2023	48.0	250	- 2
Dissolved Phosphate (as P)	mg/L	18 3025 (Part-31/Sec-1): 2022	BDL (DL: 0.5)	5.0	-
Fluoride (as F)	mg/L	IS 3025 (Part-60): 2019	0.294	2.0	1.5
Sulphide (as S)	.l\gm	IS 3025 (Part-29) : 2019	BDL (DL: 0.04)	2.0	-
Off & Grease	mg/L	IS 3025 (Part-39): 2021	BDL (DL: 1.0)	10	10

Page 1 of 2

The Document small at Tim Report, is most by the Calorana mode: Courtal Terms and Constitution, only on Company latter hand in pre-approved forms. The modes shows some Ton Display refer or seinter refer to the job pudging store by the Laboratory only. The information model on the Test Report reflects the firebest store by the Laborators at the time of monotonics and parts after the financial minimum and the following is responsible for all the information or date provided on the means, unarge the information which we provided by the client. The Report instead to capturished society in the less say part of the export in not taken out of exposure, without prior written approved of the Laboratory. The Report in full or in part shall not be published, advention, used for one legal across colors prior permissions has been second from the binageness of the Laboratory Atlanton in draws to fix I initiation of liability, companies and printing a time. Any symptoms of decision & fabilities in of the committee appearance of the Tant Report is subtrict and ellipsics say be proceeded to the following exists of the pay. All the complex are researed for Dilutes from the figur of referencies of the Leaf Report. The surplus from Regulatory holders are to be settented as specifical. Any type of Observatives of Compliants regarding the Reports shall be along within 15 days from the Date of Ton Report pittamid based, (the the period tested below, or a complaint will be accepted. The epter Tirus scheduli rentirend in Ton Report is in 200mm forms. Abbreviation using \$100 Glas Applicable; HER, (Helico Decembe Limit; LDA, Cover Deletions Amorp



PLOT NO-30, MANSAROVAR ENCLAVE, TUPLIDANA HATIA, RANCH-834003 (MARKHANO) GST NO-2564ECF97130124

ENGINEERING SERVICES PVT. LTD.

Empit injulielespico in , eles annel (Burnall com

Phone no.: 0651-2290103 Wataite : www.elespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/7052	Report Release Date	: 02.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400004921F			

Discipline: Chemical Group: Res		toes in Water	Discharge Limits - CP EPSL 1986 Schedule V		
Parameter	Unit	Test Protocol	Result	Inland Surface Water	Land for Irrigation
Lead (as Pb)	my't,	APHA 24th Ed.2023, 3111 B	(DL: 0.01)	41,1	=
Mangamese (as Mn)	mgT.	APHA 24° Ed.2023, 3111 B	0.092	2.0	1 8
Mercury (as Hg)	mp/L	IS 3025(Part-48): 1994; RA2019	BDL (DL: 0.001)	0.01	=
Nickel (m Ni)	mg/L	APHA 24% Ed.2023, 3111 B	(DL: 0.01)	3.0	¥
Zinc (as Zn)	mg/L	APBA 74th Ed. 2023, 3111 B	0,140	5.0	-

Reviewed by Charley Manager

****End of Report****

Dr. Deependra Kumar Sicha Ph. D. Ezvironmentat Engg. Technical Manager

Page 2 of 2

The Designant sterial is their largest in local by the Laboratory and of featured Terms and Combines, only an Company better head in pre-approved fraction, the results convenient to the political control of the Laboratory and the features of the Laboratory and the laboratory and the laboratory is the Laboratory in the laboratory in the Laboratory in the Laboratory is the expension of the laboratory of the Laboratory is the laboratory of the laboratory is the laboratory of the

ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT. LTD.

Plot No.30, Mansarovar Enclave, Tupudana, Hatia, Ranchi-834003, Jharkhand.

Shrengdag A Bauxite Mine-Environmental Monitoring Report

December 2024

CONTENT

	Hindules Industries: Shrengdag & Banate Mine Environmental Montoring Supert Herember 2024 Shrengdag & Bauxite Mine
	AMBIENT AIR QUALITY- CORE ZONE
Т	Near Weigh Bridge
1	BK#Quarty
1	Mine Pit Quarty No.2A
4	Mine Ph Quarry No.2B
	AMBIENT AIR QUALITY-BUFFER ZONE
Т	Near Binjari Village
2	Near Pauri Village
1	Neir Harup Village
1	Near Paintall Village



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDARIA HATTA, KANCHI-E34003 (SHARKHAND) 657 NO-2044ECERT13012W

ENGINEERING SERVICES PVT. LTD.

Errort info@elesol.co.in , eles ranchig gmail.com

Phone no.: 0651-2290103 Wirtsofte : owner.eleanil.co.in



TE	S.T	131		M N	иπ
4.6	<i>-</i> 21	- 64-1	r.s	34	DL S

Text Report No.	: ELES/RNC/2024/7334	Report Release Date	: 14.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400005196F			

CUSTOMER DET	All.S	SAMPLE DETAILS		
Customer Name.	Hindalco Industries Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/8647 : Near Weigh Bridge, Serongdag-A Brustite Miner (155,81hs)	
Address	: Lohardaga, Tharkhand-855302	Sampling Date Sample Received Date	: 06,12,2024 to 07,12,2034 109,12,2024	
Mines Status	Operational	Type of Sample Sampling Procedure	ELES/ODC/SMPL02	
Period of Analysis	: 09.12.2024 to 14.12.2024	Sampling Done By Sample Condition	ELES Pvt. Lni. Smiled & Preserved	

the programmer was all you to the programmer of	THE RESERVE OF THE PARTY OF THE
METEOROLOGICAL	INFORMATION

Average Temperatura (°C) : 19	1	Barometric Pressure (mmHu)	725
Relative Humidity (%) 47		Weather Condition	Clear

Discipline: Chemic	ral la	Group:	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM30)	µg/m ³	15.5182 (Part- 23): 2022	NN NN	100 (24hrs)	
Particulate Matter (PM2.5)	pg/m ³	15 5182 (Part- 24): 2019	53	60 (24hrs)	
Sulphur Di-Oside (SO ₂)	pg/m³	18 5182 (Part-2/Seci.): 2023	15.7	80 (24hm)	
Ninngen Di-Orode (NO ₂)	µg/m¹	18:51 K2 (Part-6): 2022	35,9	80 (24hrs)	
Ozone (O ₃)	pg/m ¹	15/5182 (Part-9): 2019	<20.0	100 (8hrs)	
Atmonia (NH ₄)	pgim'	15 5382 (Part- 25): 2018	<10.0	400 (24hrs)	
Carbon Monoxide (CD)	mg/m ^b	15 5182 (Part-10); 2019 (NDIR Method)	1.36	2 (8hrs)	
Lead (Pb)	ug/m	15 5182 (Part- 22): 2019	0.042	1 (24hrs)	
Nickel (Ni)	ng/m1	JS 5182 (Part- 26): 2020	≪6.0	20 (Annual)	
Arsenic (As)	ng/m ¹	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)	
Benzene (C _s H ₄)	jug/m ¹	ELES/GC/SOP/06: 2013	<2.5	05(Annual)	
Benzo-(u)-Pyreen	right)	ELES/GE/SOP/03: 2023	<0.5	Ol(Annul)	

Reviewed by

Akash Kumer Choline Memorie ++** End of Report****

Authorised Signatury Dr. Deependra Rumar Sinha Ph. D. Environmental Engg.

Page Loft

Technical Manager

The December complete has Superior becomes in Jacobs Communication of Contract Contracts, only to Company from that is weappeared forms. The purch classes in table of minor and to the principles down by the I discounts swite. The deliverage count on the limit began in Figure 4. Facings down by the Labourery of the first and development only and specific than of short a menutation. The Laboratory is constructed for all the advances in this prompts of the construction of the advances in this prompts of the construction of the advances in the prompts of the construction of the advances in the prompts of the construction of the advances in the prompts of the construction of the advances in the prompts of the construction of the advances in the prompts of the construction of the advances in the prompts of the construction of the advances in the prompts of the advances in the advances to be the second of the product. The laborate is recognized to all the allocation is not product on the product of the product of the laborate product of the product of the laborate product of the product of the laborate p



PLOT NO-30, MANSAROVAN ENCLAVE, TUPUDANA HATTA, RANCHI-834903 (HARRINANO) IST NO-35ARCERTISDES

ENGINEERING SERVICES PVT, LTD.

Email: Info@eleral.co.in , nies /conchig@gmail.com Phone no. : 0651-2290101

Phone na.: 0651-2290103 Website: www.elespt.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/7335	Report Release Date	14.12.2024
Work Order No.	: 13612312113	Work Order Date	: 28.63.2624
ULR No.	: TC135872400005197F		

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name	Hindaiso Influstries Limited	Sample Ref. No. Location	ELES/RNC/2024/AA/8648 BKB Quarry, Serengslag-A Baucite Mines (155.83ha)	
Address	: Lohardags, Jharkhund-835302	Sampling Date Sample Received Date Type of Sample	: 06.12.2024 to 07.12.2024 : 09.12.2024 - Ambient Air	
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/02	
Period of Amilysis	: 09.12.2024 to 14.12.2024	Sampling Done By Sample Condition	ELES Pvr. Ltd. Sosied & Preserved	

METEOROLOGICA	I. INFORMATION
THE LEADING OF THE PERSON OF T	THE REAL PROPERTY AND ADDRESS.

1 Average Temperature (°C) : 19	1 Barometric Pressure (mmHg)	: 725
3 Relative Humidity (%) : 47	4 Weather Condition	Clost

Discipline : Chemic	ai	Group:	Atmospheric Pollution	
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	hā,au,	15:51 82 (Part-23): 2022	69	100 (24hrs).
Particulate Matter (PM2.5)	hitar,	15 5182 (Part- 24): 2019	52	60 (24hrs)
Salphar Di-Oxide (SO ₂)	agm ²	IS-5182 (Part-2/Sec1): 2023	10.2	80 (24brs)
Nitrogen Di-Oxide (NO ₂)	ug/m³	RS 5182 (Part- 6): 2022	23.8	80 (34hrs)
Ozmne (O ₁)	Hg/m ³	IS-3182 (Pan-9); 2019	<20.0	100 (8hrs)
Ammonia (STG)	Marine ³	15:5182 (Part- 25): 2018	<10.0	400 (24hrs)
Carbon Monoxide (CD)	img/m²	18 5182 (Part-10): 2019 (NDIR Method)	<1,0	2 (fibrs)
Lead (Pb)	348003	IS-5182 (Pwt-22): 2019	6.021	1 (24hs)
Nickel (Ni)	ngim'	15:5182 (Pint-26): 2020	<6.0	20 (Annual)
Arsenic (As)	og m	ELES/AIR/SOP/01: 2021	<2.0	06 (Armul)
Benzene (CcHL)	µg/m ³	ELES/GC/SOP/06: 2023	<2.5	85(Ammal)
Bento-(a)-Pyrene	ng/m²	ELES/GC/SOP/05: 2023	<0.5	(I)(Annual)

Reviewed by

Akush Kumer

****End of Report****

Dela

Dr. Deependra Kumar Sinha

Ph. D. Environmental Engg.

Page Left

Technical Manager

The December would be fine Supert to remain by the Lathermore and Courte Cypter and Courter Court to program which the program of the test december in the Lathermore and the Lathermore



PLOT NO-38, MANSAROVAR ENCLAVE, TUPUBANA HATTA, RANCHI-ESADES (INVARKHAND) RST NO: JRANECESTINGUE

ENGINEERING SERVICES PVT. LTD.

timolt info@elesal.m.in. elet.mmcte@gmoi.com

Phone no.: 0651-2290103 Website: www.olespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/7336	Report Release Date	114.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2624	
ULR No.	: TC135872400005198F			

CUSTOMER DET	AILS	SAMPLE DETAILS:		
Customer Name	: Hindalco Indostries Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/8640 : Mine Pit Quarry No 2A, Serungdag-A Barotte Mines(155.81ha)	
Address	Lohardaga, Jharkhand-835302	Sampling Date Sample Received Date	:06.12.2624 to 07.12.2024 :08.12.2624	
Mines Status	: Operational	Type of Sample Sampling Procedure	: Ambient Air : ELES/DOC/SMPL/02	
Period of Analysis	: 09.12.2024 to 14.12.2024	Sampling Done By Sample Condition	Scaled & Preserved	

METEOROLOGICAL INFORMATION				
1 Average Temperature (°C)	3.19	12	Barometric Pressure (mmHg)	725
3 Relative Hamidity (%)	: 47	- 4	Weather Condition	: Clear

Discipline : Chemic	al	Group:	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PMOO)	ng/m ³	15:5182 (Pan-23): 2022	65	100 (24hrs)	
Particulate Matter (PM2.5)	pg/m ⁵	15 5182 (Part- 24): 2019	32	60 (24hm)	
Sulphur Di-Oxide (SO ₂)	upim*	15 5182 (Part-2/Sec 1): 2023	8.0	80 (24lus)	
Nitrogen Di-Oxide (NO ₁)	µg/m²	15 5182 (Part- 6): 2022	24.3	80 (24hm)	
Ozone (O ₅)	pg/m²	15 5182 (Part-9): 2019	<20.0	100 (8hrs)	
Ammunia (NH ₃)	- µg/m²	15-5182 (Part- 25): 2018	<10.0	400 (24his)	
Carban Monaxide (CO)	mayim.	15 5182 (Part- 10): 2019 (NDIR Method)	<1.0	2 (8hrs)	
Ecal (Pb)	ug/m²	IS 5182 (Part- 22): 3019	<0.002	1 (24brs)	
Nickel (Ni)	mp/m²	18 5182 (Part- 26): 2020	<6.0	20 (Annual)	
Arsenic (As)	ngón ²	ELES/AIR/SOP/01: 2021	<2.8	96 (Amust)	
Benzene (C.H.)	pig/m ³	ELES/GC/SOP/08: 2023	4.5	OS(Annual)	
Benzo-(id-Pyrese	agan*	ELES/GC/SOF/05: 2023	<0.5	Ol(Annual)	
	1000			0.000.000.000.000	

STREET, Reviewed by Aiosch Kumar Christity Manager

****End of Report****

Authorised Signatury Dr. Deependra Kumar Sinha

Ph. D. Environmental Engg.

Page Tof 1

Technical Manager

The Harmonian and in List Equal is bound by the Laboratory suche Control Terror and Control, only to Linguis, below much as an approved former This model where to the Agent such as the control to the advantage of the tips of laboratory and such as the laboratory of the tips of laboratory and such as the laboratory of the tips of laboratory and such as the laboratory of the tips of laboratory and the laboratory in terror and the laboratory in the control to the such as the laboratory of the tips of laboratory and the laboratory in terror and the laboratory of the control to the such as the laboratory in terror and the laboratory in the control to the laboratory of the laboratory of the control to the laboratory of the labor the completed ways in his out me part of the same one take on a part of the same and of the same of the same of the completed of the same moderal for Policy from the Class of Septembers of the Tree Support The complex trees in place by the tree the companies opending the Support of Septembers of Tree Support Su or forms Affection and P.A. No. haplance; 100, O.A. in Depute 1 and 100, Great Street



PLOT NO-30, NANSAROVAR ENCLAVE, FURUDANA HATTA, RANCH-BEASTS (JHARKHANO) 937 NO-30ARECEFTIBOETI

ENGINEERING SERVICES PVT. LTD.

Email into@elequi.co.in , eles esnoti@gmail.com Phone no.: 0651-2290103

Phone no.: 0651-2290103 Website: www.elespl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/7337	Report Release Date	14.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC335872400005199F	The state of the s		

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name	: Hindalco Industries Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/8650 : Mine Pit Quarry No.2B, Screngdag-A Bauxite Mines(155.81ba)	
Addresa	: Lehardiga, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 06.12.2024 to 07.12.2024 : 09.12.2024 : Ambient Air	
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/02	
Period of Analysis	: 69.12.2024 to 14.12.2024	Sampling Done By Sample Condition	ELES Pvt. Ltd. Scaled & Preserved	

METEOROLOGICAL INFORMATION

	THE PROPERTY OF THE PROPERTY OF TACK			
	Average Temperature (*C) : 19	- 3	Harometric Pressure (minifg)	+725
3	Relative Humidity (%) : 47		Weather Condition	Clear

Discipline : Chemie	cal	Group:	Atmospheric :	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PMIO)	µg/m ³	15 5182 (Part-23): 2022	- 81	100 (24hrs)
Particulate Matter (PM2.5)	yag/m ³	15 5182 (Part- 24): 2619	45	60 (24hra)
Sulphur Di-Oxide (SO ₂)	µg/m²	15 5182 (Part 2/Sec1): 2023	13.4	80 (24hrs)
Nitrogen Di-Oside (NO _c)	##/m,	IS 5182 (Pint- 6): 2022	33.5	80 (24hrs)
Ozune (O.)	jig'in ¹	15 5182 (Part- 9): 2019	<29.0	100 (8hm)
Aramonia (NH ₂)	pg/m²	IS 5182 (Part-25): 2018	<19.0	400 (24hm)
Carton Manuside (CO)	ing/m*	US 5182 (Part-10): 2019 (NDIR Method)	1.43	2 (8hrs)
Losd (Pb)	µg/m	15 5182 (Part- 22): 2019	0.015	1 (24hrs)
Nickel (Ni)	'ng/m'	IS 5182 (Part-16): 2020	<6.0	20 (Annual)
Anemic (Ak)	ng/m²	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)
Веллене (СфКа)	jig/m²	ELES/GC/SOP/06: 2023	<2.5	05(Annual)
Benzo-(a)-Pyrene	ng/m [†]	ELES/GC/SOP/05: 2021	di5	01(Annual)



Akreh Kumer Quality Menager

****End of Report****

Ach

Dr. Despendra Kumar Sinha Ph. D. Environmental Engg.

Page Lof 1

Technical Manager

The Description of the September of the September which There are Company of Company being bank to proportion from the September of the Septem



PLOT NO-80, MANSAROVAR ENCLAYE, TUPLIDANA HATTA, RANCHT-E34003 (HARKHAND) der NO- 20AARCES7110424



Email: info@eirspi.co.in . eles.ranchi@gmail.com Phone no.: 0651-2290103

Website: www.afespi.rp.in



TO-SHEET

TEST REPORT

Test Report No.	: ELES/RNC/2024/7338	Report Release Date	: 14.12.2024	
Work Order No.	13612312113	Work Order Date	128.03.2024	
ULR No.	: TC135872400005200F		HAAAAAAAAAAAAAAAA	

CUSTOMER DET	AILS	SAMPLE DETAILS	
Cuttomer Name	: Hindalco Industries Limnos	Sample Ref. No. Location	: ILES/RNC/2024/AA/8651 : Neur Banjari Village Serengdag-A Bauxite Mines (155.81hu)
Address	Lobardaga, /harldund-835302	Sampling Data Sample Received Data Type of Sample	: 06.12.2024 to 07.12.2024 : 09.12.2024 : Ambiem Air
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/02
Period of Analysis	109.12.2024 us 14.12.2024	Sampling Done By Sample Condition	: BLES Pin, End. : Sealed & Preserved

M	ETEOROLOGICAL INFORMATI	ON			
1	Avurage Temperature (°C) : 19	2	Harometric Pressure (mmH	a) : 725	
.)	Relative Humidity (%) : 47		Weather Condition	Clear	

Discipline: Chemis	ral	Group:	Atmospheric !	Podution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m²	IS 5182 (Part- 23): 2022	68	100 (24hm)
Purticulate Matter (PM2.5)	his/m	IS 1102 (Part-24): 2019	39	60 (24hrs)
Sulphur Di-Oxide (SO ₃)	ho.m.	IS 5182 (Part-2/Sec1): 2023	12.8	80 (24hrs)
Narogen Di-Oxide (NO ₂)	hō/m3	18 5182 (Parts 6): 2022	28.1	80 (24hn)
Ozone (O ₁)	ug/m ³	IS 5182 (Part- 9): 2019	<20.0	100 (8hm)
Ammonia (NII ₃)	µg/m³	15 5182 (Part- 25): 2018	<10.0	490 (24hrd
Carbon Monoxide (CO)	mg/m ³	IS 5182 (Part- 10): 2019 (NDIR Method)	<1.0	2 (8hn)
Lead (Pb)	, pagent	15:5182 (Part- 22); 2019	0.018	1 (24hn)
Nickel (No)	ng/m [†]	18.5(82 (Part-26); 2020	<6.0	26 (Annual)
Arsenic (Ax)	ngm	ELES/AIR/SOP/01: 2021:	<2.0	06 (Annual)
Benzine (Cdl.)	pg/m ³	ELES/GC/SOP/06: 2023	<2.5	05(Annual)
Benzo-(a)-Pyrene	ngim	ELES/GC/SOP/05: 2023	<0.5	01(Annual)

Reviewed by Akash Kumer

****End of Report****

Authorized Signatury

Dr. Deependra Kumar Sinha

Propt Fed I

Technical Manager - - Technical Manager The Division model is the Report in record by the Laborary and Great Towards Continued and the Laborary Laborary and Great Towards (Annales and Laborary and Laborary and Continued Towards) and Continued Con The forester space is not depend in companies of the Laboratory and Country Terms and Country and Surgery and space of properties of the Montal Surgery as the forest of the Laboratory and the Country of Country the Country and the Country



PLIST NO-30, MANSAROVAR ENCLAVE, TURUDIANA HATIA, RANCHI-834009 (HARKHANDI GET NO. SCAARCESTLEDGES

ENGINEERING SERVICES PVT. LTD.

Email: info@esespi.co.in , eles ranchi@amail.com

Phone po.: 0651-2290108 Website: www.elegnl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/T339	Report Release Date	: 14.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.93.2024	
III R No.	- TC135877400005201E		100000000000000000000000000000000000000	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	Hindalco Industries Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/8652 : Neur Pauri Village Serengdag-A Brande Mines (155.83ha)
Address	: Lobardaga, Jharkhund-835302	Sampling Date Sample Received Date Type of Sample	: 07.12.2024 to 08.12.2024 : 09.12.2024 Ambient Air
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/02
Period of Analysis	: 09.12.2924 to 14.12.2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved

METEOROLOGICAL INFORMATION	į
----------------------------	---

SALES OF STREET STREET, STREET			
1 Average Temperature (°C) : 19	-2	Barometric Pressure (mmilig)	1725
3 Relative Humidity (%) : 48		Weather Condition	Clear

Discipline : Chemic	rafi la	Group: Atmospheric Pollution			
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	µg/m²	15 5 82 (Part-23): 2072	70	100 (3-lhes)	
Particulate Matter (PM2.5)	µg/m²	15 5182 (Part- 24): 2019	41	69 (24hra)	
Salphur Di-Oxide (SO ₂)	µg/m³	15 51 82 (Part-2/Sec1): 2023	14.0	80 (24hra)	
Nimogen Di-Oxide (NO ₃)	µg/m³	IS 5182 (Port-6): 2022	28.7	80 (24hrs)	
Came (O _i)	pg/m ³	15:5182 (Part- 9): 2019	<20.0	100 (8hrs)	
Ammonia (NH ₂)	Hglm'	IS 5182 (Part-25): 2018	<10.0	400 (24hrs)	
Carbon Monoxide (CD)	mg/m²	15-5182 (Part-10): 2019 (NDIR Method)	<1,0	2 (8hm)	
Load (Pb)	ug/m!	IS 5182 (Part- 22): 2019	0.021	1 (24hes)	
N(ckel (Ni)	ng/m*	IS 5182 (Part-26): 2020	<6.0	29 (Annual)	
Arseric (Ax)	ng/m²	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)	
Benzene (C ₄ H ₄)	µg/m"	ELES/GC/SOP/06: 2023	<2.5	05(Annual)	
Henro-(a)-Pyrene	ng/m"	ELES/GC/SOI/05; 2023	<0.5	Ol(Annual)	

Reviewed by

Akreb Kumer

****End of Report****

Authorised Signatory Dr. Deependra Kumar Sinha

Ph. D. Environmental Enga

fres Latit

Technical Manager

the December record or Tax Dispose, a consocial tyring is about any control Constant Land and Conditions, vary on Congress Some South in processing and Tax Conditions in the Condition of the Co The property of the problem on the first planeter of the property of the prope around to Name to the or recommend of the Lat Super. The complete from Superior before or to empired a public, due type of Discounting or Complete superior superior superior and Superior super



PLOT NO-36, MANSAROVAR ENCLAVE, TURUDANA HATIA, RAMCHI-READES (INARVINAND) 957 NO. 304/6/6971 10/28

ENGINEERING SERVICES PVT. LTD.

Email: info@elissol.co.in . eles amchi@gmail.com Phane no.: 0551-2290103

Witholto: www.elegyl.co.74



TEST REPORT

Test Report No.	: ELES/RNC/2024/7340	Report Release Date	: 14.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.63.2624	
ULR No.	: TC135872400005202F	Franki swanza Libera Libera	III COMO DE LO COMO DE LA COMO DELIGIA DE LA COMO DE LA	

CUSTOMER DETAILS		SAMPLE DETAILS		
Costomer Name	Hindalco Industries Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/8653 : Near Harup Village Screngdag-A Bauxin Mines (155.81ha)	
Addresa	: Lohardigs, Tharkhand-835302	Sampling Date Sample Received Date	: 07.12.2024 to 08.12.2024 : 09.12.2024	
Mines Status	: Operational	Type of Sample Sampling Procedure	ELES/DOC/SMPL/02	
Period of Analysis	: 09.12.2024 to 14.12.2024	Sampling Done By Sample Condition	Scaled & Preserved	

METEOROLOGICAL INFORMATION

The second of th			
1 Average Lemperature (*C) :19	2	Borometric Pressury (mmHg)	: 725
3 Relative Humidity (%) : 48	4	Weather Condition	: Clear

Discipline: Chemic	tat	Group:	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulare Matter (PM10)	µg/m²	15 5182 (Part- 23): 2022	71	100 (24hrs)	
Particulare Matter (PM2.5)	ug/m²	IS-5182 (Pan-24): 2019	43	60 (24hrs)	
Sulphur Di-Oxide (SO ₃)	hitta)	IS 5182 (Part- 2/Sec.) i: 2027	13.6	80 (24hm)	
Nitrogen Di-Oxide (NO ₁)	市売却 。	15 5182 (Part-4): 2022	24.9	80 (34hm)	
Ozone (O ₁)	HW m ²	15 5182 (Part- 9): 2019	<20.0	100 (8hrs)	
Anmonia (NTI ₁)	pg/m*	15 5182 (Part- 25): 2018	<10.0	400 (24hn)	
Carbon Mosmide (CO)	mg/m²	IS 5182 (Part-10): 2019 (NDIR Method)	1,32	2 (8hrs)	
Load (Phi	ug/m²	IS 5182 (Part-22); 2019	<0.002	1 (24hrs)	
Nickel (NI)	ngm³	15:5182 (Part-26): 2020	<6.0	20 (Annual)	
Arsenic (Ax)	ng/m ³	ELES/ABUSOP/01: 2021	<2.0	06 (Artexat)	
Beronne (C ₄ H ₄)	'µg/m'	ELES/GC/SOP/06: 2023	<2.5	(IS/Amusi)	
Benzo-(a)-Pyrene	'ng/m ^T	ELES/GC/SO(//05: 2023)	41.5	01(Annual)	

Roviewed by

Aknoh Kumar

****End of Report****

Dr. Deependra Kumar Sinha Ph. D. Environmental Engg.

Page 1 of T

genment Wanager

The December count in Tips Juper, is bound by the Labratory with Grant Terracinst Community on Diseases into total a parwith a militar with to the juliciantive chart by the Landscopy only. The orders are now on the Tool Romet network to the Landscopy on the too of symmetric may not seeken the landscopy of symmetric managements of the first part of process of symmetric managements of the Landscopy of the Control Health and the process of the report of the Landscopy of the Separate Management of the Landscopy of t all only, and for any tips active also play position, in how could be the blanguage of the category. Assessor, have a the parent of letters, companies and, another a country of the country of the latest and of the lates stand in Many Service that the of other case of the fact Agent. The major the Majoran bosins at their result of quarter. Any time of Theoretical of Companies regarding the Service of Chapter and the Service of Chapter of Service of Special in Street Special Advances and Ninchas (askable SCI, Other Section Cont.) III. Hear Section Cont.



PLOT NO-30, MANSAROVAR ENCLAVE, TUMUDANA MATTA, RANCH-834503 (JHARKHANO) 551 NG-20JARCEST BOLDS

ENGINEERING SERVICES PVT. LTD.

fmail: info@elexpl.co.in , eles conchi@gmail.com Phone no : 0651-2292101

Phone na.: 0651-2290103 Website: www.elespl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/7341	Report Release Date	: 14.12.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400005203F		data da	

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindahoo Industries Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/8654 : Near Paintoli Village Screngdag-A Bauxite Mines (155,81lm)	
Address	: Lohardags, Tharkbund-835302	Sampling Date Sample Received Date Type of Sample	: 06.12.2024 to 07.12.2024 : 09.12.2024 : Ambient Ale	
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/02	
Period of Analysis	: 09.12.2024 to 14.12.2024	Sampling Done By Sample Condition	Stated & Preserved	

METEOROLOGICAL INFO	RMATION
---------------------	---------

1 Average Emperature (*C) : 19	2 Barometric Pressure (mml fat)	725
3 Relative Humidity (%) : 47	4 Weather Condition	Clear

Discipline: Chemic	cal	Group:	Atmospheric :	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µµm'	IS-5182 (Part-23): 2022	65	100 (24hn)
Particulate Manter (PM2.5)	ug/m ³	15 5112 (Part- 24): 2019	34	60 (28hm)
Sulphur Di-Oxide (5O ₂)	pp/m ³	15 5182 (Part-2/5ec i): 2023	12.8	80 (24hm)
Nitrugim Di-Oxide (NO ₁)	μg/m³	IS 5182 (Part- 6): 2022	26.1	80 (24hra)
Onine (O ₁)	HB/mg.	15 5H2 (Pan-9): 2019	<20,0	100 (8hra)
Ammonia (NFId)	#grim"	IS 5182 (Part-25): 2018	<16.0	400 (24hm)
Carton Monoxide (CO)	mg/m²	15-5182 (Part-16): 2019 (NDIR Method)	1.32	2.(8hn)
Lead (Pb)	jeg/m/	IS 5182 (Part- 22): 2019	0.019	1 (24brs)
Nickel (Ni)	ng/m²	IS 5182 (Part-26): 2020	<6.8	20 (Assemb)
Americ (As)	ng/m	ELES/AIR/SOP/01-3021	<2.0	06 (Annual)
Benzene (C ₄ H ₆)	mg/m ³	ELES/GC/SOP/06: 2023	<2.5	05(Annual)
Benzo-(a)-Pyrmie	ng/m ⁹	ELES/GC/SOP/05: 2023	<0.5	01(Annual)

Reviewed by

Akash Kumar Quality Menages

****End of Report***

Pilo

Dr. Deependra Kumar Sinha

Ph. D. Environmental Engq.

Page 1 of 1

Technical Manager

The photograph and at least largest account to the highest state of the photograph and the proposed force. The results of the photograph and the proposed force. The results of the photograph and the proposed force. The results of the photograph and the proposed force in the photograph and the phot

ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT. LTD.

Plot No.30, Mansarovar Enclave, Tupudana, Hatia, Ranchi-834003, Jharkhand.

Shrengdag A Bauxite Mine-Environmental Monitoring Report

January- 2025



CONTENT

	Hiodaloo Industries: Shrangday A Bassade Mine Environmental Musiliaring Report - January 2025
	Shrengdag A Banxite Mine
	AMBIENT AIR QUALITY- CORE ZONE
1.	Near-Weigh Beidge
2	BKB Quarry
1	Mine Pit Quarry No.2A
4	Mine Pit Quarry No.2B:
	AMBIENT AIR QUALITY-BUFFER ZONE
1:	Near Ranjari Village
2	Near Pauri Village
3	Near Harup Village
4	Near Paintoli Village
	Surface Water
	Stil



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA NATU, KANCHI-834008 (SHAREHARO) 6ST NO-38A8EE97135139

ENGINEERING SERVICES PVT. LTD.

Empil: info@elergi.co.in , eles ronchi Rymoil.com Bloom po : 0651,2290101

Phone no.: 0651-2290103 Websiter: www.elespl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/0515	Report Release Date	: 22.01.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2924	
ULR No.	: TC1358725000000506F	The University of the Land		

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Nime	Hindules Industries Limited	Sample Ref. No. Location	: ELES/RNC/2025/AA/0327 :Near Weigh Bridge, Serengdag-A Bausite Mines (155.81ha)
Address	: Lohardaga, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 13.01.2025 to 14.01.2025 : 15.01.2025 : Ambient Air
Mines Status	Operational	Sampling Procedure	: ELES/DOC/SMPL/02
Period of Analysis	: 15.01.2025 to 21.01.2025	Sampling Done By Sample Condition	Scuted & Preserved

METEOROLOGICAL INFORMATION	l
----------------------------	---

294	TEDROLOGIC ALTEROMETROS		CA STATE OF THE ST	
1	Average Temperature (*C) : 17	2	Barometric Pressure (mmHg)	: 725
3	Relative Hamidity (%) : 55	4	Weather Condition	: Clear

Discipline: Chemic	ul	Group :	Group: Atmospheric Pollution		
Purameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM 10)	μg/m³	18 5182 (Part- 21); 2022	93	100 (24hrs)	
Particulate Matter (PM2.5)	µg'm ²	15-5182 (Part-24): 2019	56	60 (24hni)	
Sulphur Di-Oxide (SO ₂)	pg/m³	1S 5182 (Part- 2/Sect.): 2021	17.3	80 (24hrs)	
Nitrogen Di-Oxide (NO ₃)	µg/m³	15 5182 (Part- 6): 2022	37,1	80 (24hrx)	
Ozone (Ch.)	hR, au	15:5182 (Part- 9): 2019	<20.0	100 (8hni)	
Ammonia (NH ₂)	pg/m1	IS 5182 (Part- 25): 2018	<10.01	400 (24hrs)	
Carbon Monoxide (CO)	mglm	4S 5182 (Part-10): 2019 (NDR Method)	1,42	2 (8hm)	
Lent (Pb)	pig/m"	IS 5182 (Part- 22): 2019	0.055	1 (24lini)	
Nickel (Ni)	mp*m*	18:5182 (Part- 26): 2020	<6.0	20 (Annuil)	
Arsenie (As)	ing/m ¹	ELES:AIR/SOP/01: 2021	<2.0	06 (Annuil)	
Benzene (CJI)	pg/m³	ELES/GC/SOP/06: 2023	<2.5	05(Ammal)	
Berizo-(a)-Pyrene	ng/m ²	ELES/GC/SOP/05: 2023	<0.5	01(Amust)	
			0		

Akash Kurper

Chieffly Mariana

****Emi of Report****

Amborised Signatury Dr. Deepandra Kumar Sinha

Ph. D. Environmental Engl.

Page 1 of 1

Technical Munager

The beautiful of the boson is to be boson to the Laborator and Company and Common and a proper of forms. The medical control of the boson is the first of the boson is the first of the boson in the first of the boson is the first of the boson in the boson in the first of the boson in the bos



PLDT NG-30, MARSAROVAR ENCLAVE, TUPHTIANA MATIA, RANCHI 634009 (HARRIHAND) SST NO:- 28AAECST130124

ENGINEERING SERVICES PVT. LTD.

Email: infe@eiespi.co.in.; eles.raschi@gmail.com Phone no.: 0651-3290102

Phone no.: 0651-2290107 Website: www.elespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/0516	Report Reisuse Date	: 22.01.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC1358725000000507F		TO SECOND	

CUSTOMER DET	AILS	SAMPLE DETAILS	CONTROL OF THE PARTY OF THE PAR
Customer Name	: Hindulco Industries Cimited	Sample Ref. No. Location	BKB Querry, Serengalag-A Bugutte Minus (155.83ha)
Address	: Lohardago, Sharkhand-835302	Sampling Data Sample Received Data Type of Sample	13.91.2025 to 14.01.2025 15.01.2025 Ambient Air
Mines Status	: Operational	Sampling Procedure	:ELES/DOC/SMPL/02
Period of Analysis	: 15.01.2025 to 21.01.2025	Sampling Done By Sample Condition	Staled & Preserved

Mi	ETEOROLOGICAL INFOR	MATION			
1	Average Temperature (*C)	:17	2	Bacuments Pressure (recally	725
3.	Relative Hamidity (%)	: 33	4.	Weather Condition	: Clear

Discipline: Chemic	at	Group:	Atmospheric !	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m ¹	3S 5182 (Part- 23): 2022	.74	100 (24lim)
Particulate Matter (PM2.5)	µg/m³	15-5182 (Part-24): 2019	36	60 (24hrs)
Sulphur Di-Oxide (SO ₂)	µg/m³	15 5182 (Part- 2/Sec1): 2023	12.4	80 (24hrs)
Nitrigen Di-Oxide (NO ₂)	µgm³	15:5182 (Part- 6): 2022	26.4	80 (34brs)
Ozone (Os)	inti/as ₃	15:5102 (Part-9): 2019	<20.0	100 (Kirs)
Ammonia (NH.)	jug/m²	IS 5182 (Part-25): 2018	<10.0	400 (24hrs)
Carbon Monesside (CO)	mg/m*	2S 5182 (Part- 10): 2019 (NDIR Method)	<1.0	2 (Rhn)
Lead (Ph)	agm*	15:51 NZ (Part- 22): 2019	0.025	1 (24hrs)
Nicket (Ni)	nem	15 5 (N2 (Part- 26): 2020	<6.0	20 (Annual)
Atsenic (Ax)	ng/m ¹	ELES/AIR/SOP/01: 2021	< 2.0	66 (Annual)
Bowene (CJIL)	pg/m²	ELES/GC/SOP/06: 2023	<2.5	05(Annual)
Benne-(a)-Pyrme	ng/m*	ELES/GC/90P/05: 2023	<0.5	9\(Annual)
The state of the s			-	1

Reviewed by Algorith Namer

Quality Manager

**** End of Report****

Dr. Companied States States

Dr. Deependra Komar Sinka Ph. D. Environmental Engg.

Page Laft

resimical manusiper

The House of state or Top Digner, a round by the Laboratory and a Country Train and Country, such as Country to the laboratory to the Laboratory and the Country of the Second Se



PEOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA HATTA, RANCHT-834003 (WARNINAND) CET NOV-2014/ECCNT LIBERA



final! infederiespl.co.in , eles.ranchi@gmml.com

Phone no.: 0651-3290103 Windsafter / www.elengif.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/0517	Report Reisase Date	: 22.01.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	+TC1358725000000508F			

CUSTOMER DET	CUSTOMER DETAILS			
Customer Name	.: Hindako Industries Limited	Sample Ref. No. Location	ELES/RNC/2025/AA/0129 Mine Pit Quarry No.2A, Serengdug-A Banche Mines(155.810a)	
Address	: Lohandaga, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample Sampling Procedure	: 13,01,2025 to 14,01,2025	
Mines Status	: Operational		- ELES/DOC/SMPL/02	
Period of Analysis	; 15.01.2025 to 21.01.2025	Sampling Done By Sample Condition	FLES Pvr. Lad. Sealed & Preserved	

METEOROLOGICAL	INFORMATION
The second secon	

1 Average Temperature (°C) = 17	2 Harometric Pressure (minHg) 1725
3 Relative Humidity (%) 55	4 Weather Condition : Clear

Discipline: Chemie	ad	Group:	Group : Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Persoulate Matter (PM10)	µg/m²	35 5182 (Parti-23): 2022	73	100 (2/Rtm)	
Particulate Matter (PM2.1)	µg/m³	15 5182 (Part- 24): 2019	35	60 (74hr)	
Salphir Di-Oxide (SO ₃)	µg/m ³	15-5182 (Part-2/Sect): 2023	12.2	80 (2 Om)	
Nitrogen Di-Oxide (NO ₂)	pg/m ³	18 5182 (Purt- 6): 2022	29.6	80 (24hni)	
Ozone (O ₄)	ug/m²	15-5182 (Part- 9): 2019	<20.0	100 (Rho)	
Ammenia (NFI)	jug/m ⁷	IS \$182 (Part-25): 2018	<10.0	400 (24hrs)	
Carbon Monostide (CO)	ing/m²	IS 5182 (Part- 10): 2019 (NDRE Stemod)	<0.0	2 (8hn)	
Lead (Pb)	hitigan,	15:5182 (Part- 22): 2019	< 8.002	1 (24hrs)	
Nickel (Ni)	nem	IS 5182 (Part- 26): 2020	<6.0	20 (Annual)	
Americ (Aii)	ngim"	ELES/AIR/SOP/01: 2021	<2.0	96 (Annual)	
Henrese (C.H.)	pgrim"	ELES/GC/SOP/06: 2023	<2.5	05(Annual)	
Heron-(a)-Pyrene	ngin	ELES/GC/SOP/05: 2023	-0.5	Di(Annual)	

Reviewed by Akash Kumar

****End of Report****

Dr. December Romar Stanz Fn. D. Environmental Engg.

Page 1 of 1

recinities internaces

To Discount and a list happy a local to the Lebester unit Gassel New and Carlisian, why so Discount had in programmed from The scale driver in the Lebester. The Handard cond of the impact a round by the Lebergery and Canada Three and Canada and the transport of the proper of the section of the transport of the condition of the section of the Egypt is in Different Come Antonia and in Scholar Application (EDC (Diches Disputer Lines), EDC (Comp Disputer Lines), 4-4)



PLOT NO-BY, MANSANOVAN ENCLAVE, TUPLPHANA NATIA, KANCHI BBAQQB DINAMINANDI EST NO: 2004E1297230128

ENGINEERING SERVICES PVT. LTD.

Email: infinitelespi.co.in , eles zwich (Damail.com Phone no.: 0651-2290103 Webster / www.elespl.rp.im

TEST REPORT

Test Report No.	: ELES/RNC/2025/0518	Report Release Date	: 22,01,2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2924	
ULRI Nu.	: TC1358725000000509F	P. C. S. A. C. I. P. C. C. A. C.	CONTRACTOR OF THE PROPERTY OF	

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindulco Industries Limited	Sample Ref. No. Location	: ELES/RNC/2025/AA/0330 : More Pit Quarry No.2B, Sorengdag-A Hounite Mines(155.6 (na)	
Address	: Lohandaga, Jhurkhund-175502	Sampling Date Sample Received Date Type of Sample	13.01.2025 to 14.01.2025 15.01.2025 Ambient Air	
Mines Status	: Operational	Sampling Procedure	-ELES/DOC/SMPL/02	
Period of Aralysis	: 15.01.2025 to 21.01.2025	Sampling Dene By Sample Condition	Scaled & Preserved	

METEOROLOGICAL INFORMATION				
1 Average Temperature (°C) = 17	2	Barometric Pressure (mmHg)	725	
3 Relative Humidity (%) 55	4	Weather Condition	: Clear	

Discipline : Chemie	al	Group:	Group : Atmospheric Pollution		
Parameter	Unit	Unit Test Protocol		Regulatory Limit	
Parisculate Matter (PM10)	µg/m ^T	1S 5182 (Part-23): 2022	88	100 (24hrs)	
Particulate Matter (PM2.5)	µg/m³	18 5182 (Fart- 24): 2019	51	60 (24hra)	
Sulphiar Di-Oxide (SO _d)	µg/m³	IS 5182 (Part- 2/Sec1); 2023	15.8	80 (24hrs)	
Nitrager Di-Oside (NO ₂)	pig/m³	IS 5182 (Part-6): 2022	36,1	80 (24hrs)	
Owne (Oc)	μgim ³	18-5182 (Parts 9): 2019	<20.0	(00 (8bh))	
Ammonia (NH ₃)	µg/m²	18-5182 (Pint- 25): 2018	×10.0	400 (2-0hm)	
Carbon Monoxida (CO)	mg/m²	18 5182 (Part) 10 x 2019 (NDIR Memod)	1.38	2 (8fm)	
Lead (Ph):	ang/or	15 5182 (Part-22): 3019	6.024	1 (24hrs)	
Nickel (Ni)	ngim*	15 5182 (Part- 26): 2020	<6,0	20 (Annual)	
Arsenic (As)	ng/m*	ELES/AIR/SOP/01: 2021	<2.0	U6 (Annual)	
Benzene (C _a H _e)	ag/m*	ELES/GC/SOP/06: 2023	<2.5	65(Azusal)	
Benzo-(a)-Pyrene	ng/m²	ELES/GC/SOF/03: 2023	<11.5	61(Amsal)	

Reviewed by

Akash Kanine Christin Munao

**** End of Report****

Dr. Deepondra Komar Sinha Ph. D. Environmental Enga

Page Lof !

The Designation of the Report in bound for the Laboratory under Gaseria Tarino and Conditions, only on Clarapory Information processed former (the results described by Tort Torino that is taken why to be an water, but to be immorrous. The releases again in the larger refigire to feeding day by the Larger or the total of any house, with any which he has not closed a manufacture. The Librature is transmitted for the transmitted of the personal content of the form of stand in May that to take at according of the Septe Tal single from Septems had not be seemed as quarted stay upon if Morroston on Complete regarding to Expert shall be dear or than Village these by Date of Too Deart Information of the two proved small before an emphasis will be supposed. The contract that is combined in Too Reports in 18 hours from Silvage from S



PLOT NO-30, MANSAROVAN ENCLAVE, TUPUDANA HATIA, NANCH-SEGOS (JHABAHAND) GET NO-20ARCESPIROIZA

ENGINEERING SERVICES PVT. LTD.

Emeth infulfelessl.co.in , eles ranchillismell.com Phone no.; 0651-2290203 Website : www.enlessl.co.in



TEST REPORT

Test Report No.	ELES/RNC/2025/0519	Report Release Date	: 22.01.3025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC1358725000000510F			

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Hindalon Industries Limited	Sample Ref. No. Location	ELES/RNC/2025/AA/0331 Near Barjari Village Screngdag-A Bursite Mines (155/81ba)
Address	: 1,ohanlaga, Jharkband-R33302	Sampling Date Sample Received Date	13.01.2025 to 14.01.2025 11.01.2025
Mines Status	Operational	Type of Sample Sampling Procedure Sampling Done By	ELES Pol. Ltd.
Period of Analysis	: 15.01.2025 to 21.01.2025	Sample Condition	Sealed & Preserved

M	ETEOROLOGICAL INFORMATION			
1	Average Temperature (*C) : 18	- 2	Barumetric Pressure (mmHg	725
_	Relative Humidity (%) 155	- 6	Weather Condition	Clear

Discipline : Chemic	d	Group:	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	ug/m ³	IS 5182 (Part- 23): 2022	74	100 (24bos)	
Particulate Matter (PM2.5)	µg/m³	1S 5182 (Parts 24): 3019	42	60 (24tes)	
Solphur Di-Oxide (SO ₂)	µg/m³	18 5182 (Part-2/Sec.) j. 2023	14.5	80 (24hrs)	
Nirrogen Di-Oxide (NO ₁)	µg/m²	15: 5182 (Part- 6): 2022	26.2	\$0 (24hrs)	
Ozone (O ₄)	upin*	1S 5182 (Part- 9); 2019	<20.0	100 (8hrs)	
Anunimia (NE)	µg/m"	IS 5182 (Pan-25); 2018	<19.6	400 (24hm)	
Cartion Moneralde (CID)	mg/m²	IS 5182 (Part- 10); 2019 (NDIR Method)	<1.0	2 (800)	
Load (Pb)	pgm*	IS 5182 (Part- 22): 2019	0.024	1 (24hm)	
Nickel (Ni)	ng/m*	(S. 5182 (Part-26): 2020	96.0	20 (Annual)	
Americ (Ak)	ng/m"	ELES/AIR/SOP/01: 2021	<2.0	06 (Annial)	
Bensent (C _a H _a)	Hg/m)	ELES/OC/SOR/96: 2023	<2.5	(i5(Annual)	
Heriza-(a)-Pyrene	ng/m ¹	ELES/GC/SOP/05: 2923	<0.5	91(Annoal)	

Reviewed by Shappi Kumiar

Coadity Managal

****End of Report****

Dr. Deependra Komar Sinha

Ph. D. Environmental Engg.

Page Loft

Technical Manager

The Harmon control for bigger a country for inducery under Harmon country of Common, and as Common, and a common for the properties of the first transfer of the Properties of the Common country of t



PEDT NO-30, MANSAKOVAR ENCLAVE, TUPUHANA HATIA, RANCHI-ESHOUS (HARKHMIND) GST NO-20ARECERT HUZZI

ENGINEERING SERVICES PVT. LTD.

Email: infedicional co.in., electroschillemail.com Phone no.: 0651-2290107 Wydelle (www.electroschi



15/387

TEST REPORT

Test Report No.	: ELES/RNC/2025/0520	Report Release Date	: 22.01.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	TC1358725000000511F			

CUSTOMER DET	AILS	SAMPLE DETAILS	
Consmer Name	: Hindalco Industries Limited	Sample Rel. No. Lucation	: PLES/RNC/2025/A,A/8332 : Neur Pauri V/linge Screngdag, / Bauxine Mines (155.81bs)
Address	: Leinardaga, Tharkhand-835302	Sampling Date Sample Received Date	: 13.01.2025 to 14.01,2025 : 15.01.2025
Misses Status	Operational	Type of Sample Sampling Procedure Sampling Done By	ELES/DOC/SMPL/02 ELES Pv., Ltd.
Perind of Analysis	±15.01.2025 in 21.01.2025	Sample Condition	Sealed & Preserved

METEOROLOGICAL INFORMATION		
1 Average Temperature (*C) : 18	2 Barometric Promes (mmH)	25 : 725
3 Relative Hamidity (%) : 55	4 Weather Condition	Clear

Discipline : Chemic	nl	Group:	Atmospheric	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	ug/m³	IS 5182 (Part- 23): 3022	65	100 (24hrx)
Particulate Minter (PM2.5)	ug/m ¹	18-3182 (Part- 24): 2019	37	60 (240m)
Sulphur Di-Oxide (SO ₁)	ug/m ¹	15:5182 (Part- 2/Sec1): 2023	12.6	80 (Z4hra)
Nitrogen Di-Oxide (NO.)	pg/m ³	\$\$.5182 (Pmt-6): 2022	24.2	80 (24hm)
Ozone (Oc)	ug/m ¹	18:3182 (Part-9): 2019	<20.0	300 (8tm)
Ammonia (NHA	pp/m²	IS 5182 (Part- 25): 2018	<10.0	400 (24hrs)
Carnon Monoxide (CO)	mg/m²	75 5182 (Part- 10); 2019 (NDER Method)	<1.0	:2 (9hra)
Lord (Pb)	pg/m	15 5182 (Part- 22): 2019	0.024	1 (24kes)
Nickel (Ni)	nam.	15:5182 (Part-26): 2020	<6.0	20 (Annual)
Americ (As)	ng/m ²	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)
Benzone (C ₄ H ₄)	"mg/m"	ELES/GC/SOP/06: 2023	<2.5	05(Annual)
Bonzo-(a)-Pyrone	ngim ²	ELES/GC/SOP/05: 2023	<0.5	01(Annual)

Acrieved by

Avails Kumar ---- End of Report

Kar

Or. Deepender Numar Susha Ph. D. Environmental Engg.

Technical Manage

Page 1 of 1 Tourness sensites from the residing der between and Committee and Committee, only as Dissipate inter-level or program of deem the reside about the former order of the former of the Defendence and the residence of the Defendence of the

THE RESIDENCE NAMED IN



PLET NO-30, MANSAROVAR ENCLAVE, TUPUTAWA HATIA, RANCHI ESHDOS (MARKHAND) GST NO-30AAGESTESDESI

ENGINEERING SERVICES PVT. LTD.

Email: info@viergl.co.in , eles.runchi@gmail.com Bhaca em , 0651,2290103

Phone no.: 0651-2290303 Website : www.elespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/0521	Report Release Date	: 22.01.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC1358725000000512F	CONTRACTOR OF THE CONTRACTOR O		

CESTOMER DET	ARS	SAMPLE DETAILS	STATISTICS WAS A CONTRACT CO.
Customer Name	: Hindston Industries Limited	Sample Ref. No. Location	: ELES/RNC/2025/AA/0353 : Near Harup Village Serengdag-A Bauxite Mines (155/81ha)
Address	: Lohardago, Pharkhand-R35302	Sampling Date Sample Received Date	: 13.01.2025 to 14.01.2025 : 15.01.2025
Mines Status	: Operational	Type of Sample Sampling Procedure	: Ambient Air : ELES/DOC/SMPL/02
Period of Amilysis	: 15.0). 2625 to 21,01.2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Seniod & Preserved

M	ETEOROLOGICAL INFORMATION				
1	Average Temperature (°C) : 18	2	Burometric Prensure (mmHg)	: 725	
3	Relative Humidity (%) 55	4	Wenther Condition	: C##	

Discipline: Chemic	al le	Group:	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocul	Result	Regulatory Limit	
Particulate Matter (PM10)	µg/m ¹	IS 5182 (Part- 23): 2022	68	100 (24hrs)	
Particulate Matter (PM2.5)	µg/m²	TS 3182 (Part- 24): 2019	37	60 (24hrs)	
Sulphur Di-Dride (SO ₂)	µg/m²	15:5182 (Part- 2/Sec 1): 2021	11.5	80 (24hrs)	
Nitragan Di-Oxide (NO ₂)	µg/m³	IS 5182 (Part- 6): 2022	26.1	80 (24hrs)	
Ozone (O ₅)	ug/m²	IS 5182 (Part- 9): 2019	<20.0	100 (Shrs)	
Ammonia (NIL)	pg/m²	IS 5182 (Part- 25): 2018	<10.0	490 (24hm)	
Carbon Monoxide (CO)	mgm ²	ES 5182 (Parts 10): 2019 (N20B Method)	1.28	2 (8hm)	
Land (Pb)	jig/m	15:5182 (Part- 22): 2019	<0.002	1 (24hin)	
Nickel (Ni)	ng/m³	18-5182 (Part-26): 2020	<6.0	29 (Ainmal)	
Arsenie (Alt)	ng/m³	ELES/AIR/SOP/01: 1021	<2.0	05 (Annual)	
Benzene (C _a H _a)	jug/m ³	ELES/GC/SOP/06: 2023	<2.5	05(Annual)	
Benzo-(a)-Pyrane	ng/m ^Y	ELES/GC/50P/05: 2023	<0.5	01(Annual)	

Reviewed by Abanti Human Qualty Managan

****End of Report****

Authorised Signatury

Dr. Decpendra Kumar Saiha Ph. D. Environmeistal Enco.

Page Fel L

Technical Manager

He blumbed stand in the Hipper, is soond by the Laboratory order Chancel Variation with the Company from the Design Standard of the Standard Standa



PLOT NO-30, MANSAROVAN ENCLAVE, TUPETOWNA NATIA, KANCHI-654003 (KARIOYANDI STRO-SMARTPETINGS

NGINEERING SERVICES PVT. LTD.

Email: info@eleszi.co.in , eles.mschi@anail.com Phone no.: 0651-2290109

Weitshie : www.elespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/0522	Roport Release Date	: 22.01.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	± TC1358725000000513F		71/11	

CUSTOMER DET	AILS	SAMPLE DETAILS	I I I I I I I I I I I I I I I I I I I
Customer Name	: Hindalco Industries Limited	Sample Ref. No. Location	ELES/RNC/2025/AA/0334 Near Paintali Village Screngdog-A Bauxite Mines (155.81ha)
Address	: Lohardags, Thurkhand-835302	Sample Received Date	: 13.01,2025 to 14.01,2025 : 15.01,2025 - Ambient Air
Mines Status	: Operational	Type of Sumple Sampling Procedure	ELES/DOC/SMPL/02
Penod of Analysis	: 15.0) 2025 to 21.01.2025	Sampling Done By Sample Condition	: Sealed & Preserved

Mi	ETEOROLOGICAL INFOR	MATION			
1	Average Temperature (°C)	:18	1	Barometric Pressure (mmHg)	: 725
1	Relative Humidley (%)	135	4	Wenter Condition	: Clear

Discipline : Chemic	a)	Griup :	Group: Atmospheric Pollution		
Puramoter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	µg/m)	18 5182 (Part-23): 2022	69	100 (24hn)	
Particulate Matter (PM2.5)	ug/m³	15 5182 (Part- 24): 2019	40	60 (24hrs)	
Sulphur Di-Oxide (SO ₂)	Hg/m ³	18 5182 (Part-2/Sect): 2023	13.3	80 (24hri)	
Nitrogen Di-Chida (NO ₁)	ug/m ¹	15.5182 (Puri- 6): 2022	23.5	80 (24hrs)	
Counc (O ₂)	ug/m²	15 5182 (Part- 9): 2019	<20.6	100 (ffxs)	
Ammonta (NH.)	µg/m²	18 5182 (Pan-25): 2018	<10.0	400 (249m)	
Carbon Monocide (CO)	m@imb	JS 5182 (Part-10): 2019 (NDIE Method)	1.22	2 (Was)	
Lead (Pb)	-pagen ²	TS 5182 (Part- 22): 2019	0.024	1 (24hrs)	
Nickel (Ni)	ngm*	15-5182 (Pan-26): 2020	-16,8	26 (Annual)	
Americ (As)	ng/m²	ELES/ADZ/SOP/01: 2021	<2.0	06 (Annual)	
Benzene (C _i H ₄)	jagem ^a	ELES/GC/SOP/06: 2023	<2.5	05(Annual)	
Benzo-(a)-Pyrene	ng/m²	ELES/GO/SOR/05: 3023	<0.5	01(Amossi)	

Reviewed by Alush Kumar

Duality Manager

****End of Report****

Authorised Signatory

Dr. Deependra Kenser Steha Ph D. Environmental Error

Page (of)

Technical Manager

Fig. 1 of 1

Tachrical Mininger

The December should be beginned on some by the Laboratory state. Commed Terms and Confidence, only of Company place based in programmer of the anticomment of the individual and the Confidence of the the Laboratory of the individual and the Confidence of the the Laboratory of the the confidence of the confidence of the the Laboratory of the the Confidence of the Confidence



PLOT NO-39, MANSAROVAN ENCLAVE, TUPUDANA HATTA, RANCH-634503 (UKARNHAND) UST NO-20A4C037140128

ENGINEERING SERVICES PVT. LTD.

Emell info@eletel.co.in , eies.co.chi@gmall.com Phone no.: 0632-2290303 Website : www.ciespl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/0580	Report Release Date	: 25.01.2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC1358725000000570F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Hindalco Industries Limited	Sample Ref. No. Sampling Date Sample Received Date	: ELES/RNC/2025/SW/0335 : 13.01.2025 : 15.01.2025
Address	: Lohardaga, Hurkhand-835302	Type of Sample Location of Sample	Surface Water Near Harhapat Village, Serengdag-A Bareste Miner
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/01
Period of Analysis	: 15:01:2025 to 24:01:2025	Sampling Done By Sample Condition	Scaled & Preserved

Discipline : Chemical	Group :	Group: Water		
Parameter	CUMIC	Test Protocol	Result	as per IS 1196-1992 Class C (Intanti Sorface Water
pH (ut 24,6 °C)		IS 3025 (Part-11): 2022	6.70	6.5-8.5
Temperature	ac.	IS 3025 (Part 9): 2023	18.0	-
Chemical Oxygen Demand (COD)	mg/L	85-3925 (Part-58): 2023	BDL (DL: 4.0)	721
Biochemical Oxygen Demand (BOD) (iii: 20°C for 5 days)	Type	APHA 24" Ed.2023; #2100	BOL (DL: 1.0)	3.0
Total Dissolved Solida (TDS)	mg/L	18 3025 (Pari-16): 2023	94.0	1300
Total Supposded Solids (TSS)	mg/L	15: 3025 (Part-17): 2022	13.5	5 -
Oil de Grenne	mg/L	1S 3025 (Part-39): 2021	BDL (DL: 0.1)	0.1
Calcium (as Ca)	mg/L	15 3025 (Part-40): 2019	4.9	-

Page 1 of 2

The Discounts stated in Tea Report, in arrived by the Laboratory and Completes, onto on Company tests had in pro-aggreed forms. The results about in the Lab Report refer or misses only in the photosisty state by the Laboratory and it. The results about the Lab Report refer or misses only in the photosisty state that the results are not as provided on the Laboratory and it is increased in the results and the laboratory and which is provided by the Colon Laboratory in the provided and the specific state of the laboratory is not about the Report and the Laboratory is not about the Report and the Laboratory is not about the Report and Report a



PLOT NO-30, MANSAROVAN ENCLAVE, TUPUDANA NATIA, RANCHI 834503 (JHARNHAND) UST NO-30AACCHTI SOLIN

ENGINEERING SERVICES PVT. LYD.

Emed: info@eleral.co.in , eles.renzhi@gmail.com Phone no.: 6653-2290103

Phone no.: 6653-2290103 Website: www.riespf.co.le



TEST REPORT

Test Report No.	: ELES/RNC/2025/0580	Report Release Date	: 25.01.2025
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024
ULR No.	: TC1358725000006570F		

Discipline: Chemical		Group: Residues in	Group: Residues in Water	
Parameter	Unit	Test Protocol	Result	as per 15 2256-1992 Clare C (Inland Surface Water
Aluminum (m Al)	Tgm	IS-3025 (Pari-55) (2003; RA2019	BDL (DL: 0.02)	
Inm (as Fg)	mg/L	APHA 24 th Ed.2023; 3111B	0.246	30

Hamarks: pH & Temperature done at site.

Reviewed by Alcush Kumer Quality Manager

****End of Report****

Authorised Signatory
Dr. Deependra Kümer Einha
Ph. D. Emerconneidal Engg.
Technical Manager

Page 2 of 2

The Decement sterred is first Report, in passed by the Laboratory under General Terrar and Conditions, only or Company letter break in presence of them. The receive choices is the Terr Report soft or solution only to the jobbourhole desire by the Laboratory only. The information soluted on the Terr Report soft can be stolen for first in the provided by the subsection of data provided on the support of the information which is provided by the sides. The Report source for reproduced country is the control any part of the report is not source of the report of the Laboratory. The Report is foll or in part abilities absention, once in any logal science arises place permission has been secured from the Mesuperson of the Laboratory According to drawn to the published advertion, once in any logal science arises price permission has been secured from the Mesuperson of the Laboratory According to drawn to the laboratory according to drawn to the laboratory according to the secure of the Laboratory According to drawn to the laboratory according to the secure of the secure of the samples are returned for the first orders of the laboratory according to the laboratory accor



PLOT NO-30, MANSAROVAN ENCLAVE, TUPUDANA NATIA, KANCHI-BBASOS (INARKNANO) GST NO - MMARCENTISCHIN

ENGINEERING SERVICES PVT. LTD.

Empl: info@elerpl.co.in, eles sunchi@gmail.com Phone no.: 0633-3290103

Mighinto - wrene, eleval, ca.le.



TEST REPORT

Test Report No.	: ELES/RNC/2025/0581	Report Release Date	± 25.01.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC1358725000000571F			

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	: Hindatao Industrias Limited	Sample Ref. No. Sampling Date Sample Received Date	: ELES/RNC/7025/5L/0336 : 14.01.2025 : 15.01.2025
Address	: Lohardagu, Jharkhand-835302	Type of Sample Location of Sample	Soil Barpat Village, Screngdog-A Bauxin; Mines (155, 81ha)
Minex Status	: Operational	Sampling Procedura	ELES/DOC/SMPL/65 ELES Pvt. Ltd.
Period of Analysis	: 15.01.2025 to 24.01.2025	Sampling Done By Sample Condition	Scaled

Discipline: Chemical		Group : Pullution & I	nvirusment
Parameter	Unit	Test Protocol	Result
pH (1:2) at 24.5 °C	2 _	15 2720 (Purt-26): 2021	6.54
Conductivity (1:2) at 24.5 °C	µS/cm	IS 14767; 2021	194
Total Organic Carbon (TOC)	96	Soil Testing in India 2011 (Walkley & Black Method)	0.63
Available Phosphorus (as P)	kg/ha:	Soil Testing in India; 2011	5.2
Potassium (as K)	mg/kg	JS 9497: 2020	900
Asultable Nitrogen	96	Soil Testing in India; 2011	5.32
Chloride (m Cl) (1:2)	54	ELES/SOIL/SOP/01: 2021	0.010
Assenic (as Aa)	:mg/kg:	ELES/SOIL/SOP/28: 2023	BDL (DL: 0.01)
Cadmium (as Cd)	mg/kg	US EPA 2050 A&B: 1995	BDI, (DL: 0.1)
Lend (as Pb)	mg/kg	US EPA 1050 A&B: 1996	BDL (DL: 0.1)

Page 1 of 2

The Disservent rotation has been because in monthly the Laboratory teach; Servent Terror and Conditions, only on Company terror hand in proceptor of Besser. The sensits above as the Total Deposit to the properties of the Laboratory of the Laboratory with The Information of the Total Deposit to the Conference of the Conference Laboratory in the torse of proclimate and made some that became it claims a transmisses. The Laborators is sequential for all the information of the processing on the input, chapt the information which is precedual by the client. The Appart current his reproduced except to find any part of the report is not which and of content. sufficed prior within approval of the Laboratory. The Expect in Act or in part shall not be published. Absorbing sood by any highlinations acknowledge parameters has been wanted from the Management of the Categories. Administration the Management and particulation become Age stransferrent discretion at fainflatives of the content or appearance of the Test Report to uniterfal and offender may be provided by the Mallot zeros of the law. All the satephin are intered by Making from the Date of Automations of the Last Report. The marphy from Regulatory backers are to be instanted as specified. Any type of Observations on Complicate regarding the Reports shall be done within 19thing from the Dam of You happen released becomes other the tree partial dated before the completels will be accepted. The office included represent in York Report is in Disservirum, Advantages and Not Our Applicability EDL (Netw. Hermites Library, CDL /Lower Receives Shell



PLOT NO 30, MANSAROVAR ENCLAVE, PUPLICADA HATIA, RANCHI-834003 (JHAKKHAND) 657 NO-2044NEST130124

ENGINEERING SERVICES PVT. LTD.

Empil: info@elexpl.co.ir , elex.ronthi@gmail.com Phone no.: 0651-2290103

Website: www.eleapl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/0581	Report Release Date	: 25.01.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC1358725000000371F			

Discipline : Chemical		Group: Pollution & Environment	
Parameter	Unit	Test Protocol	Result
Mignesium (as Mg)	mg/kg.	Soil Testing in India; 2011	1710
Mercury (as Hg)	mg/kg	US EPA 7471 - 2007	HD4. (DL± 0.01)

Reviewed by Akash Kustar Duality Menagey

*End of Report****

Authorised Signatory Ph. D. Esylvonimistal Engl. Technical Manager

Page 2 of 2

The Demand stread or Cost Supers, is small by the Laboratory under Control Tribes and Constituent, only on Computer South Scale in pre-approved forms. The results alaxims to the Tank Report Leffer of ections with to the pursuadaysic data for the Laboratory only. He aritmented plants on the Tank Report series in the Tankings done by the Librories in the time of implement ordering within the limit of stance instrument. The Laboratory is responsible for all the information at data possibilities the report, except the information which is provided by the aliest. The Report current be remotiveed except in full and one part of the report is not taken out of contract, without prior sociacy approach of the Laboratory. Due Report or full or in part shall not be published, advantage, used line any legal actions sales a prior permission has been secural from the Management of the Laboratory. Alternation is describe the factorities of Carties, commenceation and particulate instances. Any securated abstractor it liabilitation of the content or apparent or of the Ten Report is interest and effective may be processed to the follow extent or the law. All the samples are received for Address from the Dies of extransioner of the Test Report. The samples from Regardery begins are un be received as specified. Aloy type of Observations or Comptains topoling the Reports shall be done within 15 days from the Date of Date Report senses Found After the time ported stated before, no compliance will be accepted. The centre Time untraface microscope in Los Supers in its Steams Street. Afterwaves and N.S. Olio Applicables III S. Olidow Designer Limits LDC (Louis Designer Linn



PLOT NO-30, MANSAROVAR ENCLAVE, TURUDANA HATIA, BANCHI-BAROS JIHARKHANO) GST NO-2004ECENTISOLON

NGINEERING SERVICES PVT. LTD.

Email: info@efespl.co.in , eles.ranchi@gmall.com

Phone no.: 0652-2290203 Website: www.elespi.co.m

TEST REPORT

Test Report No.	: ELES/RNC/2025/0581	Report Release Date	: 25.01.2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name Address	: Fliodules Industries Limited : Lohardags, Jharkhand-855302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Legistics of Sample	: ELES/RNC/2025/SL/0336 : 14.01.2025 : 15.01.2025 : Soil : Burput Village, Screngdag & Bauxite Miccs (155.81hr)
Mines Status	Operational	Sampling Procedure	ELES/DOC/SMPL/08 ELES PVI. Ltd.
Period of Analysis	- 15.01.2025 to 24.01.2025	Sampling Done By Sample Condition	Souled

Discipline: Chemics	d	Group : Pollution &	Environment
Parameter	Unit	Test Protocol	Result
Selenium (as Se)	mg/kg	US EPA 3050 B : 1996	BDL (DL: 0.01)

Reviewed by

Akash Kumar Quality Martigar ****End of Report****

Authorised Signatory
Dr. Despendes Kumar Binha
Ph. D. Euvenamental Engg.
Technical Manager

Page 1 of 1

The Decement stand as Test Report, is issued by the Laboratory under General Terms and Computers, only on Computer based in paragraphs device. The results shown in the Lab Based wife of the Laboratory and part of the contribute for finding store by the Laboratory in the three of involutional code and wather the limits of clarify a contribute. The Laboratory is expensive for all the enforcement of the special store which is presented by the claim. The Report remaind to reposit and are part of the report of the properties of the Laboratory of the properties of the Laboratory and the Laboratory of the Report is refer to the report of the report of the Laboratory and make the part of the report of the Laboratory Attribute to drawn to the fertilistic of the properties of the Laboratory Attribute to drawn to the fertilistic of the Laboratory Attribute to drawn to the fertilistic of the Laboratory Attribute to drawn to the fertilistic of the Laboratory Attribute to drawn the supervision of the Laboratory Attribute to drawn the supervision of the Laboratory Attribute to the laboratory attributed by the Laboratory Attribute to the laboratory attributed by the Laboratory Attribute to the laboratory attributed by the laboratory at

ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT, LTD.

Plot No.30, Mansarovar Enclave, Tupudana, Hatia, Ranchi-834003, Jharkhand.

Shrengdag A Bauxite Mine-Environmental Monitoring Report

February 2025



CONTENT

	Hindaico Industries : Shrengdag A Banxie Ment Extinumental Munitoring Report - February 2025 Shrengdag A Banxie Mine
	AMBIENT AIR QUALITY-CORE ZONE
1	New Weigh Bridge
2	BKB Quarry
3	Mine Pir Quarry No.2A.
4	Mine Pft Quarry No 2ft
	AMBIENT AIR QUALITY-BUFFER ZONE
1	Near Baojani Village
2	Neur Prori Village
1	Near Harup Village
4	Near Palmoli Village
	Drinking Water-2
	Efficient Water
	Stick





PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA HATIA, KANCHI-BINOTO (PHANKHANO) GST WG:- 20446CP97110338

ENGINEERING SERVICES PVY. LTD.

Email: info@eleapl.co.in. elet.rorchi@gmail.com Phone so.; 0633-2290385

Phone su.; 0631-2290385 Website: www.elespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/1373	Report Release Date	1 03.03,2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC1358725000001344F		111111111111111111111111111111111111111

CUSTOMER DET	AILS	SAMPLE DETAILS	V.C.A.A.A.A.A.A.
Customer Name	Hindulco Industrius Limited	Sample Ref. No. Location	: ELES/RNC/2025/AA/1417 : Near Weigh Bridge, Serongdag-A Bauxite Mines (155.81ha)
Address	: Lohardaga, Tharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 20.02.2025 to 21.02.3025 : 24.02.2025 : Ambient Air
Mines Status	Operational	Sampling Procedure Sampling Done By	: ELES/DOC/SMPL/02 : ELES Pvt. Ltd.
Period of Analysis	: 34,02,2025 to 03,03,2025	Sample Condition	Scaled & Preserved

MI	TEOROLOGICAL INFORMATION			
T	Average Temperature (*C) : 21	2	Barometric Pressure (mmHg)	220
3	Relative Humidity (%) : 59	4	Weather Condition	Clear

Discipline: Chemic	al	Group:	Atmospheric	Polloti
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	ug/m ^T	15 5182 (Part- 23): 2022	96	100 (24hni)
Particulate Matter (PM2.5)	irit\m ₃	15 5182 (Part- 24): 2019	54	60 (24hni)
Sulphur Di-Oxide (SO ₂)	jag/in ³	IS 5182 (Part- 2/Sec.1): 2023	15.8	80 (24hni)
Nitrogen Di-Oxide (NO ₁)	jug/m ³	1S 5182 (Part- 6): 2022	35.5	80 (24hni)
Ozone (O ₁)	jug/m ³	IS 5182 (Part-9); 2019	<20.0	100 (8hm)
Ammonia (NH ₃)	pg/m ⁸	15 5182 (Part- 25): 2018	<10.0	400 (24hrs)
Carbon Manoxide (CO)	mg/m²	15.5(82 (Part-10): 2019 (NDIR Method)	1.27	2 (Slus)
Lead (Ph)	ing/m²	IS 5182 (Part-22): 2019	0.059	1/24bm)
Nickel (Ni)	ng/m³	15.5181 (Part-26): 2020	<0.0	20 (Annual)
Americ (Ax)	(ing/m ³	ELES/AR6/SOP/01: 2021	<2.0	66 (Annual)
Banzone (C _a H _d)	jug/m ²	ELES/GC/SOP/06; 2023	<2.5	95(Asseal)
Banzo-(a)-Pyrime	ng/m ³	ELES/GC/SOP/05: 2023	<0.5	Ol(Anexal)

Reviewed by

****End of Report****

Authorised Signatory

Page Lof |

The Proposed stand as Test Experient, record for the Labourse to the Control Terms and Control and the Designer before the proposed forms. The acceptance of the instrument and the Standard for the Standard forms and the Standard



PLOT NO-30, MANSANOVAR ENCLAVE, TUPUDANA HATIA, RANCHI-834000 (MARKHANO) GST MO: 204/AECE9713D12W

ENGINEERING SERVICES PVT. LTD.

Email: Info@eleopt.co.in, electronch@gmail.com Phone no.: 0631-JJ9610J

Website: www.eiespc.co.ir



TEST REPORT

Test Report No.	; ELES/RNC/2025/1374	Report Release Date	1 03.03.2025	
Work Order No.	13612312113	Work Order Date	: 28.63.2024	
ULR No.	: TC1358725000001345F			

CUSTOMER DET	AlLS	SAMPLE DETAILS	Control of the Contro
Customer Name	: Hinduico Industries Limited	Sample Ref. No. Location	: ELES/UNC/2025/AA/1418 : BKB Quarry, Screngdag-A Bauxite Mines (155.81hr)
Address	: Lohardaga, Tharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 20.02.2025 to 21.02.3025 : 24.02.2025 : Ambient Air
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/02 : ELES/PVL Ltd.
Period of Analysis	: 34,02.2025 to 03.03.2025	Sampling Done By Sample Condition	Smiled & Preserved

MI	TEOROLOGICAL INFORMATION		
T	Average Temperature (*C) :2)	2 Buramenic Pressure (mmHg)	720
1	Relative Humidity (%) : 59	4 Weather Condition	Clear

Discipline: Chemic	al	Group:	Atmospheric l	Pallation
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m³	18 5182 (Part- 23): 2022	78	100 (24hm)
Particulate Matter (PM2.5)	µg/m ⁴	15 3182 (Part- 24): 2019	43	60 (24hrs)
Sulphur Di-Oxide (SO ₂)	halm ₁	15 5182 (Part-2/Soct): 2023	13.5	80 (24hrs)
Nitrogen Di-Oxide (NO ₅)	µg/m³	15 5182 (Part- 6): 2022	30.1	80 (24hrs)
Ozone (O ₁)	pg/m²	IS 5182 (Part- 9): 2019	<20.0	100 (8hrs)
Anurroma (NH ₂)	µg/m²	US 5182 (Part- 25): 2018	<10.0	400 (24hrs)
Carbon Monoxide (CO)	mg/m²	IS 5182 (Part- 10): 2019 (NDR Method)	<1.0	2 (älus)
Losd (Pb)	ang/est	IS 5182 (Part-2Z): 2019	0.022	1 (24brs)
Nickel (Ni)	ng/m³	IS 5182 (Part-26): 2020	<6.0	20 (Annual)
Amenic (Ax)	hg/m²	ELES/AIIU/SOP/01: 2021	<2.0	06 (Annual)
Benzone (C _a H _a)	pg/m²	ELES/GC/SOP/06: 2023	<2.5	05(Annual)
Benzo-(a)-Pyrane	ng/m²	ELES/GC/SOP/05; 2023	<0.5	Ol(Abroal)

Your MATTER Reviewed by

****End of Report****

Authorized Signatory Abairl High

Page For E

The December state in the Report I make by the Caleston under Council Town and Counters, may be Temperature for the Parameter of the Caleston tions in correlated design in this parking year of the copies or materials and of common, which park returns a present of the Laborator. The Request is fall or to not aliast or to profession, and the set formation and an arrangement of the Laborator. After the design of the formation of the formation of the copy of the contract of the formation of the formation of the contract of region the States from the Date of relaxations of the Low Report. The monthly from Englished profession as to be regioned as quantitative by the of Chamerican of Constituting and the States of the Chamerican of Constituting and the States of the Chamerican of the States of the Stat



PLOT NO-10, MANTAROVAR ENCLAVE, TUPUCIANA HATIA, AMINCHI 1894663 (INARKHAND) GST NO: 20AAECES7130128

ENGINEERING SERVICES PVT. LTD.

Erneil: Info@vietal.co.ie. eles.ronchi@gmail.com

Phone ou.: Dittl-2790103 Website: www.eiespi.cp.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/1375	Report Release Date	± 03.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR Na.	: TC1358725000001346F			

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindalca Industries Limited	Sample Ref. No. Location	ELES/RNC:2025/AA/(419 : Mine Pit Quarry No.2A, Serengdag A Brandte Mines(135.81ha)	
Address	: Lohardaga, Jharkhand-895302	Sampling Dete Sample Riscoved Date	20.02.2025 to 21.02.2025 : 24.02.2025	
Mines Status	: Operational	Type of Sample Sampling Procedure	: Ambient Air : ELES/DOC/SMPL/02 : ELES Pvt. Ltd. : Sealed & Preserved	
Period of Analysis	: 24.02.2025 to 03.03.2025	Sampling Done By Sample Condition		

METEOROLOGICAL INFORMATION			
1 Average Temperature (°C) :21	2	Barometric Pressure (nml/g)	: 726
3 Relative Humidity (%) :59	-4	Weather Condition	: Clair

Discipline: Chemic	al.	Group:	Group: Atmospheric Pullution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	µg/m ¹	15 5182 (Part-23): 2022	76	100 (24bm)	
Particulate Matter (PM2.5)	µg/m"	(S 3182 (Part- 24): 2019	41	60 (24hn)	
Sulphur Di-Oxide (SO ₁)	µg/m ³	18 5182 (Part- 2/Sec1): 1023	13.4	80 (24hrs)	
Nimogen Di-Oxide (NO ₂)	μg/m ³	15 5182 (Part-6): 2022	28.7	80 (24hrs)	
Ozone (O ₁)	µg/m²	\$\$ 5182 (Part+ 9): 2019	<20.0	100 (8hrs)	
Ammunia (NH ₂)	pg/m²	15 5182 (Part- 25): 2018	<10.0	400 (24hrs)	
Carbon Monuside (CO)	mg/m³	IS 5182 (Part- 10): 2019 (NDIR Method)	1.12	I (8hm)	
Lend (Pb)	µg/m ⁵	1S 1182 (Part- 22): 2019	<0.002	1 (24brs)	
Nickei (Ni)	ng/m²	1S 5182 (Part- 26): 2020	<6.0	20 (Annual)	
Amenic (As)	1500 m ⁴	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)	
Benzene (C _a H _a)	pg/m²	ELES/GC/SOP/06: 2023	<2.5	05(Accept)	
Benzo-(a)-Pyrene	ng/m ²	ELES/GC/SOR/05; 2023	<0.5	Ol(Anmal)	

HUSTER YOUND Reviewed by

****End of Report****

Authorised Signatory

Figs Lot I

The Deciment were in the Eager, is recall to the Lebesters with Council Terms and Commission with the Endings there be a procurative of the Lebesters with a few behaviors of the Lebesters with the Council Terms of Commission with the Eager than the Section of the Lebesters of the Lebesters with the Council Terms of the Cou countries for States from the Date of terminations of the Fact Applies Date States States Date in terminate a second as second of the Commission of the State Applies Date States Date in the Internal States Date of Commission or Commission organisation of the States Date of the S



PEOT NO-30, MANSAROVAN ENCLAVE, TEPUDANA NATIA, RANCHI ESHODI (JHAKKHAND) IET NO:- 20AAECESTISIISEA

ENGINEERING SERVICES PVT. LTD.

Emolt injustriessication, view and information

Phone no.: 06E1-2290103 Websitz: www.efespi.co.in



AC-exec

TEST REPORT

Test Report No.	: ELES/RNC/2025/1376	Report Release Date	: 63.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC1388725000001347F	to the second second	11011004.200011	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Hindulco Industries Limited	Sample Ref. No. Lecinion	: ELES/RNC/2025/AA/1436 : Mine Pt Quarry No.28,
Address	: Loburdaga, Thankhand-835302	Sampling Date Sample Received Date	Serongdag-A Baunite Mines(155.81bg : 20.02.2025 to 21.02.2025 : 24.02.2025 : Ambient Air
Mines Status : Operational		Type of Sample Sampling Procedure	: ELES/DOC/SMPL/02
Period of Analysis	; 24 82 2025 to 63.03 2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Scaled & Preserved

MI	ETEOROLOGICAL INFORMATION				
	Average Temperature (*C) :2	2	Baremeric Pressure (mmHg)	: 720	
1	Relative Hamidity (%) : 59	4	Weather Condition	: Clenr.	

Discipline: Chemic	at	Group :	Atmospheric	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particolate Matter (PM10)	ug/m ³	15 5182 (Part-25) 2022	82	1011 (24hrx)
Particulate Matter (PM2.5)	ug/m ³	15 5182 (Part-24): 2019	48	60 (24hs)
Sulphur Di-Oxide (SO ₂)	µg/m²	8S 5182 (Part- 2/Sec1): 2023	12.9	80 (24hrs)
Nitrogen Di-Oxide (NO ₅)	ug/m ³	85 5182 (Part- 6): 2022	34.4	86 (24hrs)
Ozane (O _t)	µg/m²	3S 5182 (Part- 9): 2019	<20.0	100 (80m)
Ammonia (NH ₁)	µд/m³	IS 5182 (Part- 25); 2018	<10.0	400 (24hrs)
Carbon Minosode (CO)	mg/m ³	1S 5182 (Part-10): 2019. (NDIR Meibod)	1,24	2 (8hrs)
Lead (Pb)	Aug/mi*	1\$-5182 (Part-22): 2019	0.020	1 (24hm)
Nickel (Ni)	ng/m³)S 5182 (Part- 26): 2020	<6.0	20 (Annual)
Americ (At)	ng/m ¹	ELES/ADD/SOP/01: 2027	<2.9	06 (Annual)
Berurate (CaHa)	ng/m²	ELES/GC/SOP/06: 2023	<2.5	05(Annual)
Benzo-(a)-Pyrenz	ngm'	ELES/GC/SOP/05: 2023	<8.5	O1(Anoual)

Reviewed by

Authorized Signatory

****End of Report****

Figs 1 of 1

The Harmony annul as The Report, it issued by the Laboratory same Harmon Torong and Combons, only the Company, below the property of the State and the property of the State and the Sta



PCOT NO. 30, MANSAROVAH ENCLAVE, TUPUDANA NATIA, RANCHI-834083 (JHAREHAND) 957 NO. 20AAECERTIJOLDA

ENGINEERING SERVICES PVT. LTD.

Emili inhifisinal min, ekszonski@emil.com

Phone No.: 0653-2290203 Website : www.efespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/1377	Report Release Date	: 83.83.2625	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC1358725000001348F			

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name	: Hindalco inclustries Limited	Sample Ref. No. Location	ELES/RNC/N05/AA/1421 Near Banjari Village Seringdag-A Bauxire Mines (155.81ha)	
Address	: Lohandaga, Jharichand-835302	Sampling Date Sample Received Date	: 20.02.2025 to 21.02.2025 : 24.02.2025	
Mines Status	rype of Sample. Sampling Procedu Sampling Done By		: Ambient Air : ELES/DOC/SMPL/02 : ELES Pvt. Ltd.	
Period of Analysis	: 24,02,2025 to 03.03,2025	Sample Condition	Souled & Preserved	

M	ETEOROLOGICAL INFOR	MATION	- 1115-0	100		
1	Average Temperature (°C)	:21	- 2	Barometric Pressure (mmHg)	- 720	
	Relative Humidity (%)		4	Weather Condition	:: Clear	

Discipline : Chemic	col	Group	Atmospheric	Pelliution
Parameter	Unit	Test Pretocol	Result	Regulatory Limit
Particulme Matter (PM10)	μg/m³	IS 5182 (Part-23): 2022	79	106 (24hrs)
Particulme Matter (PM2.5)	µg/m ³	IS 5182 (Part- 24): 2019	46	60 (24hrx)
Sulphur Di-Oxide (SO ₁)	pg/m²	IS 51R2 (Part-2/Sec1): 2023	13.8	80 (24hra)
Nitrogen Di-Oxide (NO ₂)	µg/m ³	18 5162 (Part- 6): 2022	28.1	80 (24hra)
Ozone (O ₂)	ag/m³	IS 5182 (Part- 9): 2019	<20.0	100 (8hrs)
Ammonia (NH ₃)	ug/m ⁵	15 5182 (Part-25): 2018	<10.0	400 (24hrs)
Carbon Monoxide (CO)	mg/m [±]	15 5182 (Part-10): 2019 (NDRR Mishad)	<1.0	2 (Khri)
Lead (Pb)	ug/m*	IS 5182 (Part- 22): 2019	0.022	1 (24hrs)
Nickel (NI)	ng/m*	1S 5182 (Part- 26): 2020	<6.0	20 (Annual)
Amenic (As)	ng/m³	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)
Benzone (C)/W	µg/m³	ELES/GC/SOP/06: 2023	<1.5	05(Annual)
Benzo-(a)-Pyrene	ng/m¹	ELES/GC/SOP/05: 2023	< 0.5	01(Annual)

Reviewed by

****End of Report****

Authorised Signatory

Page Left

The Decement stant is the flagest is consider the intercopy order throw and continue, only on Company bear throw you queryed from the stant change is the personal transport of the specific of the personal transport of the personal transport of the personal transport of the personal transport of the transport of the



PLOT NO-30, MANSAROVAR ENCURVE, TUPUDAWA HATTA, RANCHI-834000 (WANKKANO) STEMS: MARKETERFERDEN

ENGINEERING SERVICES PVT. LTD.

Errott jedaffelesskandt, elektroschiffsamil.com Phone su.: 0651-2290203

Website : www.elespi.co.in



DO-YEST

TEST REPORT

Test Report No.	: ELES/RNC/2025/1378	Report Release Date	: 03.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC1358725000001349F			

CUSTOMER DET	CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindalco Industries Limited	Sample Ref. No. Location	: ELES/RNC/2025/AA/1422 : Near Pauri Village Screngdag-A Baunite Mines (155.81ha)		
Address	: Lohardaga, Tharkhand-835302	Sampling Date Sample Received Date	: 20.02.2025 to 21.02.2025 ; 24.02.2025		
Mines Status	: Operational	Type of Sample Sampling Procedure	LAmbiem Air LELES/DOC/SMPL/02 LELES Pvt. Ltd.		
Period of Amilysis	: 24.02.2025 to 03.03.2025	Sampling Done By Sample Condition	: Sealed & Preserved		

M	TEOROLOGICAL INFORMATION				
1	Average Temperature (°C) : 21	1	Bansonetric Pressure (mmHg)	220	
1	Relative Huntidity (%) : 60	4	Weather Condition	Clinic	

Discipline: Chemie	al	Group:	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocul	Result	Regulatory Limit	
Particulate Matter (PM10)	µg/m³	IS 5182 (Part-23): 2022	69	100 (24hrs)	
Particulate Matter (PM2.5)	µg/m²	1S 5182 (Part-24): 2019	39	60 (24hrs)	
Sulphur Di-Oside (SO ₂)	pg/m³	IS 5182 (Part-2/Sec1): 2023	13.1	80 (24hrs)	
Nitrogen Di-Oxide (NO ₂)	ug/m³	15 5182 (Part- 6): 2022	25.3	80 (24hm)	
Ozone (O ₁)	µg/m²	IS 5182 (Part- 9): 2019	<20.0	100 (8hn)	
Ammonia (NH ₁)	ag/m²	IS 5182 (Part-25): 2018	<10.0	400 (24hni)	
Carbon Monoxide (CO)	ing/m ²	(S-5182 (Part- 10): 2019 (NDIR Method)	<1.0	2 (80vs)	
Lead (Pb)	jug/m1	1S 5182 (Part- 22): 2019	6.031	1 (24hrs)	
Niekel (Ni)	ng/m³	15 5182 (Part- 26): 2020	<6.0	20 (Annual)	
Americ (At)	ing/m ³	ELES/AIR/SOP(01: 2021	<2.0	06 (Annual)	
Bendene (C _c H _c)	ug/m²	ELES/GC/SOP/06: 2023	<2.5	(05(Annual)	
Benzo-(u)-Pyrene	ng/m²	ELES/GC/SOP/05: 2023	<9.5	01(Annual)	

Yacker. Reviewed by

****End of Report****

Authorised Signatory

Pogn L of 1

The Manuscript and the Happer, to constitute the fall-states with Happer Torons and Calculations had no Company, these hand to prove approved become The totals above to the Time Superrates or relation to the photographic street by the information and the substrates of the local largest relative for the following country of the substrates of the information of the provided on the substrates of the information of the infor where the leader of algority contractions. The Laboratory is integrated the all the advanced of the report of the report, recipe the advanced to the interest of the report of the Laboratory. The Report of the Laboratory is all the other part of the report of the Laboratory. The Report of the Laboratory is all the other than the part of the report of the Laboratory. The Report of the Laboratory is the important of the laboratory is the report of the Laboratory of the Laborator



PLOT WILED, MANEARGUAR ENCLEIP, TUPUGAMA MATIA, RANCHI-GRASOS (INVARIGHANDI GST NO. - NOAMECPHYLLIDIDA

ENGINEERING REPUTCES PYT. LYD.

fred info@ziest.co.in.eiec.ronchi@gmail.com Phone par. 0033-2250303

Website : www.elespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/1379	Report Release Date	1 03.03.2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC1358725000001350F		

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	: Hindalco Industries Limited	Sample Ref. No. Location	: ELES/RNC/2025/AA/1423 : Near Hurup Village Serengdag-A Bouxite Mines (155.81ha)
Address	: Lohardags, Jhorkhand-835302	Sampling Date Sample Received Date Type of Sample	: 20.02 2025 to 21.02.3025 : 24.02.2025 : Ambient Air
Mines Status	Operational	Sampling Procedure Sampling Done By	ELES/DOC/SMPL/02 ELES Pvt. Ltd.
Period of Analysis	: 34.02.2025 to 03.03,2025	Sample Condition	Sealed & Preserved

METEOROLOGICAL INFORMATION	- Indet		
1 Average Temperature (*C) : 21	2	Baromenic Pressure (mmHg)	: 725
3 Relative Humidity (%) : 58	4.	Weigher Condition	: Clent

Discipline: Chemic	al	Group :	Group : Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	µg/m²	IS 3182 (Pwt- 23): 2022	73	100 (24hm)	
Particulate Matter (PM2.5)	µg/m³	IS 5182 (Part- 24): 2019	40	60 (24hrs)	
Sulphur Di-Oxide (SO ₂)	µg/m²	IS 5182 (Part- 2/Sec 1): 2023	12.6	80 (24hm)	
Nitrogen Di-Oxide (NO ₂)	µg/m ¹	1S 5182 (Part- 6): 2022	23.5	10 (24hn)	
Ozore (O ₁)	ug/m²	15 5182 (Part-9): 2019	<20.6	100 (film)	
Ammonia (NH ₃)	ug/m ³	15 5182 (Part- 25): 2018	<10.0	400 (24hrs)	
Carbon Monavide (CO)	mg/m ³	IS 5182 (Part- 10): 3019 (NDR Method)	1.31	2 (8hrs)	
Loid (Pb)	pg/m²	(S 5182 (Part-22): 2019	<0.002	1 (24hm)	
Nickel (Ni)	ng/m³	IS 5182 (Part- 26): 2020	<6.0	20 (Anoual)	
Americ (As)	eg/m²	FLESVAIR/SOP/01: 2021	<2.0	06 (Annual)	
Benzene (C _a H _a)	jug/m ³	ELES/GC/SOP/06: 2023	<2.5	05(Annual)	
Benzo-(a)-Pyrene	ng/m³	ELES/GC/SOP/05: 2023	<9.5	(Janual)	

SEESTING Reviewed by

****End of Report****

Authorised Signatory

Fags List E

Figs. 1 of 1

The Despite A word in Test Square 15 beaut 1, the Lebroway point Street Houses and continues, not on Conti



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA HATIA, RANCHI-BERDES (MARKHAND) 03T MO:- 2044ECE9711012W

ENGINEERING SERVICES PVY. LTD.

Exnall: infolffelespi.co.in, electronch/@amed.com Phone pp.: 8653-3390183

Website / www.efestCan.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/1380	Report Release Date	: 63.03.2025	
Work Order No.	13612312113	Work Order Date	: 28.03.2024	
LLD No.	TC1358725000001351F			

CUSTOMER DET	AILS	SAMPLE DETAILS	Commence of the Commence of th
Customer Name	: Hindalco Industries Limited	Sangle Ref. No. Location	: ELES/RNC/2025/AA/1424 : Near Paintoli Villaga Screngdag-A Bauxine Mines (155.81ha)
Address	: Lobardaga, Parkhand-835302	Sampling Date Sample Received Date Type of Sample	: 20.02.2025 to 21.02.2025 :34.02.2025 : Ambiem Air
Mines Status	: Operational	Sampling Procedure	ELES-DOC/SMPL/(2 ELES Pvt. Lid.
Period of Analysis	: 24,02,2825 to 03,03,2025	Sampling Dane By Sample Condition	Sealed & Preserved

M	ETEOROLOGICAL INFOR	MATION	111111	In the same of the		
1	Average Temperature (°C)	: 21	-2	Barometric Pressure (mm/fg)	720	
7	Relative Humidity (%)	59	4	Weather Condition	Clear	

Discipline: Chemic	al .	Group :	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	pg/m³	15 5182 (Part-23): 2022	-77	190 (24hrs)	
Particulate Matter (PM2.5)	µg/m³	IS 5182 (Part-24): 2019	43	60 (24brs)	
Sulphur Di-Oxide (SO ₁)	pig/m²	15 5182 (Pert- 2/Sect.): 2023	12.4	80 (24hrs)	
Nitrogen Di-Oxide (NO ₂)	pg/m³	IS 5182 (Part- 6): 2022	26.2	80 (24hra)	
Ozena (O _s)	µg/m²	IS 5182 (Part- 9): 2019	<20.0	100 (Sirs)	
Ammonia (NH ₀)	µg/m²	IS 5182 (Part-25): 2018	<10.0	400 (24brs)	
Carbon Menoxide (CO)	mg/m ²	1S 5182 (Part- 10): 2019 (NDIR Matisol)	1,22	2 (8hrs)	
Lend (Pb)	µg/m²	15 5182 (Pint- 22): 2019	0.029	1 (24brs)	
Nickel (Ni)	pg/m²	IS 5182 (Part- 26): 2020	<6.0	20 (Annual)	
Amenia (As)	ng/m²	ELES/ABUSOP/01: 2021	<2.0	06 (Annual)	
Benzene (C ₄ H ₄)	μ <u>t</u> ym [†]	ELES/GC/SOP/96: 2023	<2.5	05(Annual)	
Benzo-(a)-Pyrene	ng/m²	ELES/GC/SOR/05: 2023	<0.5	O1(Amust)	

ADM/A Reviewed by

****End of Report****

Authorized Signatory Storah Harry

Page 1 of 1

PAGE 1 of 4

The Discount model in Ten Report is passed by the Latinetury a unior Gamma Tile and Conditions, with an Computer order in the interest of the Contract of the school and the Contract of the Cont spaced for Many time the Cate of releasedness of the Test Septem. The margins from Supplier to be contained as specified, they type of Chargeston or Complete specified for the contained of the Cate of the Cate



PLOT NO-30, WANSAROVAR ENCLAVE, TUPLIDANA HATIA, RANCHI-RUGGOS (IHARRHAND) SELVE STAMORAL SELVEN

GINEERING SERVICES PVT. LTD.

Empli: info@elesat.co.in , eles ranch/@ampli.com Phone no.: 0551-2290103

Weinite: www.elespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/1392	Report Release Date	1 03.03.2025
Work Order No.	1 13612312113	Work Order Date	: 28.03,2024
ULR No.	: TC1358725000001363F		

CESTOMER DET	AILS	SAMPLE DETAILS		
Customer Name Address	Hindako Industries Limited Lohardaga, Buckhand-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2028/DW/1436 20:02:2025 24:02:2025 Drinking Water TAP Water Near Untrance Gate (Serengdag-A Bauxite Mines	
Mines Status	Operational	Sampling Procedure	ELES/DOC/SMPL/01	
Period of Analysis	24.02.2025 to 09.03.2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Soaled & Preserved	

Microbillian Characterist		Parine I	Water		ory Limit	
Discipline: Chemical		(stoup:	THE STATE OF		19500:2012	
Purameter	Unit	Test Protocul	Result	Acceptable Limit	Permissible Limit	
pH (at 24.9 °C)	E	APHA 24 th Ed 2023, 4580-H	6.60	65-83	No Relaxation	
Turbidity	NTU	APHA 24 th Ed.2023, 2130 B	0.65	t.o	5.0	
Taste	67	APHA 24 th Ed.2023, 2160 €	Agreeable	Agreeable	Agrecubic	
Odour	- 1	JS 3025 (Part-3) :2018	Agreeable	Agreeable	Agreeable	
Colour	Hazen	APHA 24" Ed 2023, 2120B&D	1.0	3.0	15	
Total Dissolved Solids (TDS)	mg/L	APHA 24 th Ed.2023, 2546B,C&D	290	500	2000	
Chloride (as Cl)	mg/L	APHA 24" Ed.2023, 4500 (3 B	14.1	250	1000	
Fluoride (as F)	muL	APHA 24 th Ed.2023, 4500 F-D	HDL (DL: 0.1)	1.0	1.5	
Total Alkalinity (in CaCO ₂)	mg/L	APHA 24th Ed 2023, 2320 B	122	200	600	
Tetal Hardrens (ns CaCO ₁)	mg/L	APHA 24 th Ed.2023, 2340 C	133	200	600	
Sniphate (as SO ₁)	mg/L	APHA 24 th Ed.2023, 4500 SO ₄ t-E	11.2	200	400	
Nitrate (as NO ₃)	mg/L	APHA 24 th Ett 2023, 4500 NO ₃ -B	4.5	45	No Salaxation	

Page 1 of 4

The Department manut as Top Report is impost by the Laboratory coater General Toron, and Conditions, easy on Conspany letter from the pre-approval forms. The residue storm in the Trea Expert rate or relates very to the polymorphic disse by the Lebourney only. The information much loss the Treat reflects the Lebburg down by the Laboratory or the first of involvement rady and within the latter of street's materials in. The Laboratory is responsible for all the information or sine provided on the open, assign the information which is provided by the above. The Report count be expected except in fall and any part of the open in not taken not of attract. increase prior written approved of the Laborance. The Reprise as fulface in part shall not be published; advantage, and the new logal actions written prior permission than been accord flow the Management of the Laboratory. According to the factorities of indulty, compensation and participant instant. Any according attention & fabilization of the content or agreement of the Table Report to behavior and a flavour-map be produced in the foliot colors of the Law. All the complex are released for Disays from the Date of references of the Test Report. The receptor from Regulatory Indian are to be contract as specified. Any type of Commercials or Completely regarding the Reports shall be done within Chings than the Date of That Report relaxabilities of After the interpersal stated before, we complished will be secured. The only of Televis bank the partitional to Test Report to be 200 contact for the Defendance and Test (No. 1900 Application, 1903), (finding Defending Library Lower Defendance) (Jeep)



PLOT NO-30, MANSAHOWAY ENCLAVE, TUPUOANA HATIA, RANCHI-REARDS (DIARRHAND) GST NO: 20AAECERTEADIES

ENGINEERING SERVICES PVT. LTD.

Inak hijogelessi.co.kr., eles mecki@anali.com Phone no.: 0631-1290103 Website: www.nlexpl.co.in

TEST REPORT

: 03.03.2025 : ELES/RNC/2025/1392 Report Release Date Test Report No. Work Order Date 28.03.2024 : 13612312113 Work Order No.

: TC1358725000001363F ULR No.

Discipline: Chemic	al	Grov	p: Water		ney Limit 0500:2012
Parameter	Unit	Test Protucol	Result	Acceptable Limit	Permissible Limit
Phenolic Compound (as C./E.OE)	mg/L	IS 3025 (Part 43/Sec1): 2022	BDL (DL: 0.001)	0.001	0.002
Free Residual Chlorine (RPC)	mg/L	15 3025 (Part-26): 3021	BDL (DL: 0.1)	0.2(Min)	1.0(Min)
Calcium (as Ca)	mg/L	APHA 24° Ed.2023, 3500 Ca B	35.3	75:	200
Anionic Surfactants (nt MBAS)	mg/L	APHA 24 th E4:2623, 5546-C	BDL (DL: 0.025)	0.2	1.0
Discipline: Chemic	nd	Gre	op: Residues i	n Water	
Aluminum (es Al)	mg/L	15 3025 (Part-55) :2003; RA2019	BDL (DL: 0.02)	0.03	0.2
Arsenic (as As)	mg/L	(S 3025 (Part-37): 2022	BDL (DL: 0.005)	8.81	No Reinsation
Boron (as B)	mg/L	IS 3025 (Part-57) : 2021	BDL (DL: 0.2)	0.5	1.0
Cadmium (in Cd)	mg/L	APHA 24 th Ed;2023; 371100	HDL (DL: 0.003)	6,003	No Reinsution
Total Chromium (as Cr)	mg/L	APHA 24" Ed.2023, 3111H	BDL (DL: 0.03)	0.05	No Relaxation
Copper (as Cu)	mg/L	15 3025 (Part 42): 2019	BDL (DL: 0.03)	0.05	1.5
Cyanide (as CN)	mg/L	APHA 24th Ed 2023, 4500 CN-E	BDL (DL: 0.012)	0.05	No Relexation
Iron (as Fe)	mg/L	APHA 24 th Ed 2023; 3111B	0.075	1.0	No Relaxation
Load (as Pb)	Ing/L	APHA 24 th Ed 2023; 3111B	BDL (DL: 0.01)	0.01	No. Ralaxation
Manganese (as Mn)	mg/L	APHA 24th Ed 2023; 3111B	BDL (DL: 0.05)	0.1	0.3
Mercury (m Hg)	mg/L	IS 3025 (Part-48): 2019	HDL (DL: 0.001)	0.001	No Balaxatio
Selunium (as Se)	mg/L	15 3025 (Part-56): 2019	(DL: 0.01)	0.01	No Relatation

Page 2 of 4

The Discourse rated in Test Report, is issued by the Laboratory under licented Torns and Conditions, only on Company Inter-head or prosperoved forms. The results shares in the limit Happer, refer or retirous very no the justicality done by the Laboratory entry. The inflavourses stated on the Test Report reflects the flexings dated by the Laboratory in the store of producement only seel within the leads of about a surrections. The Laboratory is compostable for all the information on data provided on the report, except the information which is previolable by the affect. The Report correct he reproduced except to field and any part of the report is not taken out of correct, welford prior written approved of the Laboratory. The Region in Self-or in pair shall not be published, informer, used for any legal actions select prior permission has been mound from the Management of the Laboratory. Actuation is diseas to the Inscriptor of hobbits, compression and jurisdiction issues. Any smadlest and elements at likeliburion of the countries approximate of the Test Report is indonest and effective may be processed to the follow except of the law. All the couples are entraned for Midging from the Date of relunctivings of the Year Report. The complex form Regulatory backet use to be extended an operation. Any type of Observations or Completions regarding the Report shall be done within United Both of Cost Report retrained lines. After the time period stated before no complaints will be accepted. The outly Ten: admitted contained in Tast Support is in Stitutes Street, Abbreviation and MA (Not Applicable); BUIL Olebox Detection Limits. UDL (Lower Detection Circuit.



PLOT NO-30, MANSAROVAN ENCLAVE, TUPUDANA NATIA, RANCHI-834003 (MARRHAND) 637 NO-30ANCENTERRUS

ENGINEERING SERVICES PYT. LTD.

Empli info@elessi.co.in , eles ranchiff printi com

Phone no.: 0651-2290303 Website: www.elespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/1392	Report Release Date	: 03.03.2025
Work Order No.	: 13612312113	Wsrk Order Date	: 28.03.2024
ULR No.	: TC1358725000001363F		

Discipline: Chemical		Gruup : Resid	lues in Water	Regulatory Limit m per IS19500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
Zinc (as Zn)	mg/L	APHA 24 th Ed 2023; 3111B	(DL: 0.1)	5.0	15
Polymucien Aromatic Hydrocarbon (PAH)	μg/L	ELES/GC/SOP/04: 2023	(DL: 0.05)	6.1	No Relaxation
Polychlorinated hiphanyls (PCB)	12gq	ELES/GC/SOP/03: 2023	(DL: 0.1)	0.5	No Relaxation
Pesticides .				£.i	mit
Alachice	Juga	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)		20
Atrazine	pg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	2	1.0
Butachler	ppl	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	1	25
Chianyriphes	ug/L	ELES/GC/SOP/61: 2023	BDL (DL: 0.5)	:30	
Edition	μgL	ELES/GC/SOP/01/2023	BDL (DL: 0.5)	3	0.0
Malmhiou	-Fgs	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	1	90
Methyl pirathion	pg/L	ELES/GC/SQP/01: 2023	BDL (DL: 0.1)	0	.30
Monocrotophos	ug/L	ELES/GC/SQP/01/2023	BDL (DL: 0.5)		.0
Phorate	.Fgu	ELES/GC/SOP/01; 2023	BDL (DL: 0.5)	3	0.1
Phonate Sulphone	pp/L	ELES/GC/SCIP/01: 2023	BDL (DL: 0.5)	12	
Dieldrin	pgL	ELES/GC/SQP/02: 2023	BDL (DL: 0.01)	0	.03
Alpha HCH	ng/L	ELES/GC/SQP/02; 2623	BDL (DL: 0.006)	0	.01
Ben HCH	μg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	0	.04

Page 3 of 4

The December stated as Test Report, is broad by the Lobertony pooler forward Territ and Consideration, only to Constant Jeffer Supers refer to relate and to the Lobertony of the Lobertony, at the state of the Supers refer to relate and without the State of Constant relate. The enforcement stated on the Test Report refers to the Supers and the State of Constant relate to the Engineering and the Supers and Supers a



PLOT NO-30, MANSAROVAN ENCLAVE, TUPLIDANA HATIA, RANCHI-834003 (JHARBINAND) GET NO-30ARCUSTEDLES



Email: info@elespico.is . eles renchi@gmail.com Phone no. / 0651-2290103 Website : www.elespi.co.in 黑

FE-1288T

TEST REPORT

Test Report No.	: ELES/RNC/2025/1392	Report Release Date	± 03.03.2025
Work Order No.	: 13612312113	Work Order Date	28.03.2024
ULR No.	: TC1358725000001363F		

Pesticides				
Parameter	Unit	Test Protocol	Result	Limit
Delta HCH	pgd.	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	0.04
Gamma HCH (Lindane)	pg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	2.0
Endosulfur (alpha, beta and sulphate)	pg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	0.40
DDT(o,p and p.p-isomers of DDT) (DDE and DDD)	pg/L	ELES/GC/SOP/02: 2023	(DL: 0.05)	1.0
Discipline: Biological		Grou	pr Water	
Tesal Coliform (Qualitative)	Per 100 mL	88 15185: 2021	Not Detected	Shall not be detected
Escherichia coli (Qualitative)	Per 100 mL	15 15185: 2021	Not Detected	Shan nee delected

Remarks: pH done at Site.

Reviewed by

Akinti Numar Quelly: Maner: ****End of Report****

Authorised Signatury

the Despendent water Blatta Ph. D. Environmental Emps.

Technical Sycurps

Page 4 of 4

The Department stand as That Report is imposed by the Laboratory trade Company Company better board to prospeptive Resear. The trades of the Teat Report refer to them only to the polymetric does by the Laboratory only. The Information stand on the Teat Report referes the facilities in the Laboratory of the first of broad standards and the Laboratory of the first of the Information of Information of Information of the Information of Information Informat



PLOT NO-36, MANSAROVAN ENCLAVE, TUPLIOANA HATSA, BANCHI-EBRODE (HURRINANO) EST NO- MARKETYPESONA

ENGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in , eles.ranchi@amail.com Phone 86.1 0651-2290103

Website: www.elexpl.co.ht

TEST REPORT

Test Report No.	: ELES/RNC/2025/1392	Report Release Date	: 03.03.2025
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024

CUSTOMER DET	ARS	SAMPLE DETAILS	
Customer Nature Address	: Hadalco Industrios Limited : Lahandaga, Jharkhand-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: III.ES/RNC/2025/DW/1436 : 20.02.2025 : 24,02.2025 : Drinking Water : TAP Water : Near Entrance Gate (Sevengdag-A Banxile Miner
Minor Status	: Operational	Sampling Procedure	ELES/DOC/SMPL/01
Period of Analysis	: 34.02.2025 to 43.03.2025	Sampling Disne By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved

Discipline: Chemical		Group : Wa	Group : Water		ory Limit 10500:2012
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
Mineral Oil*	mg/L	15 3025 (Part-39): 2021, Clause 6 Infrared Spectroscopic method.	BDL (DL: 0.01)	0.5	No Relaxation

Remarks: (*) Parameters are outsourced to other Lab

Reviewed by

Akash Kumuz Quelly Mann ... ****End of Report****

Authorised Signatory

Dr. Changes TO DESCRIPTION OF THE PARTY OF Testimizat his comme

Page Lof I

The Donorma street as Test Report, is moved by the Laboratory areas Seneral Tests and Conditions, only on Company latter head in promptowed Resear. The condiplayers in the Test Report refer or relation only to the job landy-in stock by the Laboratory only. The enforcementation should be the Test Report referre the flacting stock by the Lebendary at the time of involvences only and section the limits of chore's instruction. The Laborary is conjugately for all the information or day provided on the regard, except the information which is provided by the chees. The Region spaces be reproduced except to full and see part of the report to not military our of contest. without prior written approval of the Laboratory. The Report in fail or in part shall use be published, advention, used for any legal actions enters prior parameters has been second from the Management of the Laboratory, Attention is down to the fermation of labelley, companies and perceived times. Any secundaries abundance for all the contract of following of the popular or apparatus of the Tast Report is indicated and offenders may be processed to the fallest record of the law. All the samples are recorded to Militages Bears that Dear of neignacionate of the Text Report. The complex fitnes Rangeboary booker are in be ortained as agreeful. Any type of Observations or Comprehen suggesting the Reports shall be done within 15 days from the Date of Year Support mix wealthward. After the poet purish extent before, no completes will be accepted. The print Three schedule recreioned in Test Supply is in Microsis Status. Afterwise used: N.S. Clas Applicable), D.D. (Debre Denotes) U.S.S. (Level Denotes)



PLOT NO 30, MANSAROVAN ENCLAVE, TUPUDANA MATIA, RANCHI-834003 (INDIXIMANO) 637 NO - 20AAECESTISOLEE

ENGINEERING SERVICES PVT. LTD.

Emvil info@elesyl.co.in. eles remobilismosil.com

Phone ro.: Mi31-2290309 Website : www.elespi.co.iv



AP-LINE

TEST REPORT

Test Report No.	ELES/RNC/2025/1294	Report Release Date	: 28.02.2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC1358725000001265F		

CUSTOMER DET	AHS	SAMPLE DETAILS		
Customer Name Address	: Hindaico Industries Limited : Luhardaga, Jharkhand-835362	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: ELES/RNC/2025/DW/1297 : 20.02-2025 : 21.02-2025 : Drinking Water : RO Water : Near Entrance Gate (Secondag-A Bauxite Mines)	
Mines Status	: Operational	Sampling Procedure	ELES/DOC/SMPL/01	
Period of Analysis	± 21.02.2025 to 28.02.2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Scaled & Preserved	

Discipline: Chemical		G	roup : Water Regulati		ery Limit 10500:2012
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
pH (at 24.7 °C)		APHA 24 ⁶ Ed 2023, 4500-1	6.63	6.5-8.5	No Relaxation
Turnidity	NTU	APHA 24 th Ed 2023, 2130	8038	1.0	5.0
Tieste	-	APHA 24th Ed.2023, 2160	C Agreenble	Agreeable	Agreeable
Odeur		JS 3025 (Phrt-5) :2018	Agreeable	Agreeable	Agreeable
Colour	Hazen	APHA 24" Ed.2023, 2120Ba	(D) 1,0	5.6	15
Total Disselved Solids (TDS)	mg/L	APHA 24th Ed.2023, 2540B,0	&D 75	500	2000
Chloride (as Cl)	mg/L	APHA 24 th Ed 2023, 4500 C	10 123	250	1000
Fluoride (as F)	mg/L	APHA 24 th Ed.2023, 4500 F	-D (DL: 0.1)	1.0	1.5
Total Alkalinity (as CaCO ₃)	mg/L	APHA 24 th Ed 2023, 2320	B 26.7	300	600
Total Hardness (as CaCO ₆)	mg/L	APHA 24 th Ed 2023, 2340	C 34.2	200	600
Sulphute (av SO ₄)	mg/L	APHA 24 th Ed.2023, 4500 SC), E BDL (DL: 1.0)	200	490
Nitrate (as NO ₃)	mg/L	APHA 24 ⁶ Ed.2023, 4500 No	DeB 0.74	45	No Relesation

Page 1 of 4

The Diagrams suited in Tier Report, is second by the Lebermany under Guernal Terror and Conditions, only on Company have bound to proceeding and. The smaller shows in the Tier Report order or extensionly at the joint order by the Laboratory and a Tier Report order or extensionly at the trace of consequences or the formation which is provided by the closer. The Report names for report and covery in the laboratory and the segret is not taken on a formation without prior terrors approved of the Laboratory. The Report is that on the particle of the distribution from the second first terrors approved of the Laboratory. Attention is distributed in the particle of the distribution from the Report is not the formation of interest and jurisdiction of the cover or the first terror of the cover or approximately according to the first terror of the cover or approximately according to the first terror of the cover or approximate of the cover or the first terror of the cover or approximate or approximate of the first Report is uniqueful and offended in the ballest counts of the first terror of the cover or approximately of the first terror of the cover of the co



PLOT NO-10, MANSAROVAR ENGLAVE, TUPLDANA NATA, KANCHI ISADDI DHAMBIANCI GST NO- BGAARCERTESDIZE

Emili infrafferonico.in. eles.conchi@amali.com Fhone no.: 3653-3290303 Website: www.efemf.co.in

TEST REPORT

: 28.02.2025 : ELES/RNC/2025/1294 Report Release Date Test Report No. Work Order Date : 28.03.2024 Work Order No. +13612312113 ULR No. : TC1358725000001265F

Discipline: Chemic	Discipline: Chemical		ip: Water	Regulatory Limit us per IS10500:2012	
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Ferminsible Limit
Plenolic Compound (m C _s H ₂ OH)	mg/L	15 3025 (Part 43/Sec1): 2022	BDL (DL: 0.001)	0.001	0.002
Free Residual Chlorine (RFC)	mg1.	1S 3025 (Part-26): 2021	BDL (DL: 0.1)	0,2(Min)	1.0(Min)
Calcium (as Ca)	mg/L	APHA 24 th Ed. 2023, 3300 Ca B	9.1	75	290
Anionic Surfactanta (za MBAS)	mg/L	APHA 24 th Ed 2023, 5540-C	BDL (DL: 0.025)	0.2	1:0
Discipline : Chemic	al	Gre	nup: Residues i	u Water	
Alaminum (as Al)	mg/L	IS 3025 (Part-55) :2003, RA2019	BDL (DL: 0.02)	0.03	0.2
Americ (as As)	mg/L	15 3025 (Part-37): 2022	BDL (DL: 0.005)	0.01	No Retesation
Berun (as B)	mg/L	IS 3025 (Part-57) : 3021	HDL (DL: 0.2)	0.5	1.0
Cadmium (as Cd)	mg/L	APHA 24° Ed.2023; 3111B	BDL (DL: 0.003)	€00,0	No Relexation
Tetal Chromium (as Cr)	mg/L	APHA 24 th Ed.2023; 3111B	BDL (DL: 0.03)	0.05	No Relaxation
Copper (as Cu)	mg/L	19-3025 (Part 47): 2019	BDL (DL:: 0.03)	0.05	13
Cyanide (as CN)	mp/L	APHA 24th Ed 2023, 4500 CN-E	BDL (DL: 0.012)	0.05	No Relaxation
Iron (as Fe)	mg/L	APHA 24th Ed; 2023; 3111B	0.072	1.0	No Releastion
Lend (as Pb)	mgT.	APHA 24 th Ed 2023; 3111B	8DL (DL: 0.01)	0.01	No Relaxation
Manganese (as Mn)	mg/L	APHA 24 th Ed 2023; 3111B	BDL (DL: 0.05)	6.1	9.3
Mercury (an Hg)	mg/L	1S 3025 (Part-48): 2019	BDL (DL: 0.001)	100.0	No Relatation
Selenium (m. Se)	mg/L	15.3625 (Part-56): 2019	BBL (DL: 0.01)	0.01	No Relaxation

Page 2 of 4

The Discount reason in Tipe Supert, is maked by the Laboratory upder General Terror and Conditions, only on Company latter head or pro-appeared farmer. The results grown in the best figures rate or references, so the principles done by the Laboratory unity. The information manual on the fine impost reflects the findings street by the Laboratory or the term of revolvement only and writen the limits of client's instructions. The Laboratory is empossible for all the information or data provided on the report, except the information which is provided by the client. The Report served by expredience report in that any part of the report is not raise our of control. walkest prior written approved of the Laboratory. The Report in full or in part chall not be published, advertise, send for any legal actions orders prior pursuasion from the extension of the American order for the American States of the American order for the American order for the American of the Laboratory of the American order for the Ame Nations from the Date of reference of the Test Report. The samples time, Regulatory booker are to be unabled as quantiled. Any type of Ornavations or Computers requiring the Reports shad be done within 15days from the Date of Test Report references. After the test period carried before, no compliants will be accepted. The CREW Time schedule custiqued in Text School is as Distance forem. Alternations used NA (Not Agestudic) HTM. (Below Descripe Limit), LIFE (Lower Descripe



PLOT NO 30, MANUAROVAR ENCLAYS, TUPUDANA HATIA, BANCHI 834003 (IHARKHAND) GST NO - JOAAFCEEFLINDER

ENGINEERING SERVICES PVT. LTD.

famil- jefr@eieigt.co.in. eies.com/A@gmail.com

Phone to:: 0851-2290105 Website: www.pleip/.co.id



TEST REPORT

Test Report No.	: ELES/RNC/2025/1294	Report Release Date	28.02.2025	
Work Order No.	T 13612312113	Work Order Date	: 28.03.2024	
ULR No.	r TC1358725000001265F			

Discipline: Chemical		ory Limit 10500:2012				
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit	
Zinc (as Zn)	mg/L	APHA 24 th Ed:2023; 3111B	BDL (DL: 0.1)	5.0	15	
Polynuclear Aromatic Hydrocarbons (PAH)	pgL	ELES/GC/SOP/04: 2023	BDL (DL: 0.05)	0.1	No Relusation	
Polychlorinated hipbenyls (PCB)	µg/L	ELES/GC/SOP/03: 2023	(DL: 0.1)	0.5	No Relaxation	
Pesticides				L	mut	
Alachlor	µg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	3	20	
Atrazine	μg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	- 1	2.0	
Butaclifor	µg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	125		
Chlorpyriphus	μ <u>η</u> /Ι	ELES/GC/SOP/01/2023	BDL (DL: 0.5)	38		
Ethion	µg/L	ELES/GC/SOP/01/2023	BDL (DL: 0.5)	BDL 10		
Maisthios	µg/L	FLES/GC/SOP/01: 2023	BDL (DL: 0.5)		190	
Methyl parathios	µg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.1)	BDL 0.30		
Messerotophos	ug/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	1.0		
Phonte	.ng/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	2.0		
Phorate Sulphone	ag/L	ELES/GC/SOP/01; 2023	BDL (DL: 0.5)	論		
Dieldrin	pg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.01)	0.03		
Alpha HCH	μ <u>κ</u> /L	ELES/GC/SOP/02; 2023	BDL (DL: 0.006)	DL DOI		
Веш ИСН	µg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	0	, 0 4	

Page 3 of 4

The Document install as Tire Region, is termed by the Laboratory under Compant Terror and Conditions, well on Company letter band in propagational format. The results there is the Test Report with or influence to the justice of particular come by the Laboratory only. The influence is and on the Test Report reflects the findings does by the Laboratory of the time of involvement may and widow the blook of diserce importance. The Laboratory is required for all the infraredistrate data provided on the report, sample for submission which is provided by the clime. The Report current for expression except in fall and any part of the report is one extent out of context, without prior written appeared of the Lateratory. The Expert in full or in part shall not be published, advertise, used for any legal actions so has prior permission has been record from the Addressment of the Cohomology, According to down on the lineagues of lidelity, components on a personal consum. Any uncohomous extension & facilities of the armost or approximate of the Torr Report is according of clienters may be processed to the folial calculated of the text. All the complex are retained for Didge from the Dam of retrosphoras of the Test Report. The samples from Regulatory Studies on to be retained as specified. Age type of Observations or Compliants requaling the Reports should be described in Many from the Discret Text Report retinated associ. After the term period stated before, no completene will be securped. The estin Time substidy responsed in Tail Region is in Different Monte Spring and WA (Not Application; BET), (Holow Detection Limit), LDL (Lower Detection Cont



ULR No.

ENVIRONMENTAL LABORATORIES &

PLOT NO- KO, MANSAHOVAN ENCLAIR, TUPUGANA HATIA, KANCH-834003 (IMAKKKAND) GST NG: JOARECEST130124

: TC1358725000001265F

ENGINEERING SERVICES PVT. LTD.

Emril Info@pleral.co.m. elet.ranshi@amail.com Phone ou - 0051-2200101

Phone ou.: 0031-2190103 Website: www.elespi.co.in



TEST REPORT

Release Date : 28.02,2025
Order Date : 28.03.2024

Pesticides					
Parameter	Unit	Test Protocol	Result	Limit	
Delta HCH	µg/L	ELES/GC/SOI//02: 2023	BDL (DL: 0.02)	0.04	
Garnma HCH (Lindone)	pg/L	ELES/GC/SOP/02; 2023	BDL (DL: 0.02)	2.0	
Endosolfan čaloha, bota and sulphate)	µg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	0.40	
DDT(o.p and p.p-isomers of DDT) (DDE and DDD)	ρμL	ELES/GC/SOP/02: 2023	BD1. (DL: 0.05)	1.0	
Discipline : Biological		Grou	p: Water		
Total Coliform (Qualitative)	Per 100 sst.	15 15 (8): 2021	Not Detected	Shall not be detected	
Excherichia voli (Qualitative)	Per 100 mL	15 15185: 2021	Nat Detected	Shall not be delecte	

Bamurks: pH done at Site.

Reviewed by

Akesh Numer Outling Nameous ****End of Report****

Authorised Signatory

Ph. D. Environmental Engg. Technical Manager

Page 4 of 4



PEOF NO-30, MANSAROVAN ENCLAVE, TUREZMALA HATTA, RANCHI-634003 (MARKHANO) SST NO: 254,03797130129

NGINEERING SERVICES PVT. LTD.

Email: info@eiespl.co.in , eles.ranchi@gmail.com Phone no.: 0651-2290103 Website: www.elegs.co.in

TEST REPORT

Test Report No.	: ELES/RNC/2025/1294	Report Release Date	: 28.02.2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	: Hindalco Industries Limited : Lobardaga, Parkhand-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2025/DW/1297 20.02.2025 21.02.2025 Drinking Water RO Water Near Entrance Gate (Serenging-A Bauxite Mines)	
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	±21.02.2025 to 38.02.2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved	

Discipline : Chemical Group : Water		ter	Regulatory Limit as per 48 10500:201		
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Pereducible Limit
Mineral Oil*	mgL	15 3025 (Part-39): 2021. Clause 6 Infrared Spectroscopic method.	BDL (DL: 0.01)	0.5	No Religionism

Remarko: (*) Paramours are introduced to other Lab

Reviewed by

Akash Numbe Quality Managa ***End of Report****

Authorised Signatury

Dr. Dyapandra Kumir Sibha Ph. D. Endrommental Enga-Technical Manager

Page I of I

The Discovery stored in Test Report, is because the the Cohoratory coder General Tests and Conditions, only on Company latter hand in pro-approved farmer. The conditi about in the Text Report order or relates only to the job wedpets show to the Laboratory only. The information should be Text Report reflects the findings down by the Laboratory at the tone of avortoness; only and within the lasts of clears a manustees. The Laboratory is corporable for all the information or duty provided on the report, among the information which is precised by the class. The Supert annual he reproduced another as full and any part of the report is not infancing of content. orthography without agreement of the Last. "May. The Report in Station in year shall not be published, advertise, usual for any larger actions unless prior presents on his term scental than the Management of the Lab. 105 Attorion is drawn to the transplan of liability, compensation and parameters innec. Any assustanced algorithm is industrication of the convers, or approximate of the Tapit Report, is included a and self-majors were translated to the California extension of the Case, Ad the complex was recovered to Makeys from the Date of exceptables or the "on Rapids. The exceptables made Regulatory hades are to be received as specified. New type of Observations or Complains regarding the Reports that he done widow US days from the Date of You Report released forms! After the time parties stated before, an energiness will be accepted. The order Time adodule occident in Time Rayor is in Stimus Server, Afternature and N/A (Fot Applicable); Bills, (Behrs Decision Lieut); 1DL (Lewer Delection Links



PLOT NO-30, MANSAROVARI ENCLAVE, TUPUDANA HATIA, RANCHI-RISOGI (HARKHAND) BST NO-30ARECESTIBUEN

ENGINEERING SERVICES PYT, LTD.

Email: Info@eleipt.co.in , electronchi@ymeil.com

Phone no.: 0651-3290103 Website: www.cinspl.co.ie



TEST REPORT

Test Report No.	: ELES/RNC/2025/1391	Report Release Date	1 03.03.2025
Work Order No.	T 13612312113	Work Order Date	: 28.03.2024
ULR No.	±TC1358725000001362F		

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindalco Industries Limited	Sample Ref. No. Sampling Date Sample Received Date Type of Sample	: ELES/RNC/2025/EF/1435 : 20.02.2025 : 24.02.2025 : Effluent Water	
Address	: Lohardaga, Jhurkhand-835362	Source of Sample Sampling Procedure	: Serengdag-A Bausite Mines (155-81 ba) : ELES/DOC/SMPL/01	
Mines Status	: Operational	Sampling Done By	ELES Pvt. Ltd.	
Period of Analysis	: 34.02.2025 to 03.03.2025	Sample Condition	: Sepled & Preserved	

Discipline: Chemical		Group : Pullution & E	aviranment	of EPR, 1986 Schedule	
Parameter	Unit	Test Protocol	Result	Island Surface Water	But in many and the last of
pH (at 34.9 °C)		APHA 24* Ed.2023,4500-H	8.82	5,5-9.0	5590
Total Dissolved Solids (TDS)	mg/L	18 3025 (Part-16): 2023	262	- 50	-
Total Suspended Solids (TSS)	mgL	IS 3025 (Part-17): 2022	12,4	100	280
Disselved Oxygen (DO)	ngL	IS 3025 (Part-38): 2019	6.3		-
Biochemical Oxygen Demand (BOD) (at 27 °C for 3 days)	mg/L	8S 3025 (Part-44): 2023	3.2	30	100
Chemical Oxygeo Demord (COD)	mg/L	IS 3025 (Part-38): 2023	23	250	-
Dissolved Phosphate (as P)	mg/L	IS 3025 (Part-31/Sec-1): 2022	BDL (DL: 0.5)	5.0	**
Fluoride (io. F)	mg/L	IS 3825 (Purt-60): 2019	0.216	2.6	2
Sulphide (m S)	mg/L	IS 3025 (Part-29) : 2019	IIDL (DL: 0.04)	2.0	æ
Oil & Grosse	mg/L	18 3025 (Part-39): 2021	BDL (DL:: 1.0)	10	10

Page 1 of 2

The Discourse regard or Test Report is sound by the Laboratory seeint General Toron and Confinence, wife on Gospony inter-band in prospersor forms. The resolutions in the Test Report series only to the principles show by the Laboratory setty. The information period on the Test Report series are due to the indices only and settor the limits of clearly instructions. The Laboratory is respectable for all the information or due provided so the information which is provided by the client. The Report nerved by reportance except in had only part of the input to the their care of context, without prior without approved of the Laboratory. The Report is full on a part shall not be published, advertise, and for may legal actions orders pero personance has been secured from the Management of the Laboratory. Apertise to desire the installation of the published of the prior of the period of the peri



PLOT NO-30, MANSAROVAR ERIZAME, TUPGDANA HATIA, RANCHI-RIADIS (PHARINIAND) 037 NO-20ARECESTISUES

ENGINEERING SERVICES PVT. LTD.

Email: Info@elespl.co.in . eles.ranchi@gmail.com

Phone no : 0651-2290103 Website : www.elespl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/1391	Report Release Date	: 03.03.2025
Work Order No.	: 13612312113	Work Order Date	: 28,03.2024
ULR No.	: TC1358725000001362F		

Discipline : Chemical Group : Residues in Water			Discharge Limits – CPCB EPSL 1986 Schoole VI		
l'arameter	Unit	Test Protocul	Result	Inland Surface Water	Land for lerigation
Lead (as Ph)	mg/L	APHA 24 th Ed 2023, 3111 B	(DL: 0.01)	0.1	-
Manganese (au Ma)	mg/L	APHA 34* Ed.2023, 3111 B	0.234	2.0	-
Mercury (as Hg)	mg/L	1S 3625(Part-48): 1994; RA2019	BDL (DL: 0.001)	0.01	-
Nickel (as Ni)	mg/L	APRA 24" Ed.2023, 3111 B	0.140	1.0	-
Zinc (in Zn)	mg/L	APHA 24th Ed.2023, 3111 B	0.263	5.0	-

Remarkat pH & DO done at Site.

Reviewed by

Akest Numer Quality Manage ****End of Report****

Authorised Signatory

Dr. Coependra Filmar Binha

Ph.O. Eminormental Enga. Technical Number

Page 2 of 2

The Dynament stand as Total Report, to become by the Laboratory under Licenses Torres and Conditions, only on Company latter total in presengenced forms. The excite shows in the Total Report relates only to the period types of these by the Laboratory corp. The information stand on the Total Report relates the presentation to the presentation of the laboratory of the information of the standard corp. The Laboratory is responsible for all the information or does prescribed on the appear to except the information which is provided by the olders. The Report is account to expendituded orders in our laws and of the standard corp. The Report is Differ in part shall not be published, of section, only provided in the standard corp. The Report is Differ in gard shall not be published, of section when and particular manner. Any resolution is altered to differ allocates of the Laboratory. Report is safewed to distributed of labeling, compensation of the particular manner of the Laboratory of the Laboratory is advantable of the laboratory of the Laboratory of the laboratory is advantable of the laboratory of the laboratory of the laboratory is advantable of the laboratory of the laboratory of the laboratory is advantable of the laboratory of the l



PLOT NO 30, MANSAROVAR ENCLAVE, TUPUDANA HATIA, RANCH-ESPORS (PHARKHAND) UIT NO - ZUARCESTIBULES

ENGINEERING SERVICES PVT. LTD.

Email: Info@elespi.co.in , elex.roachi@pmail.com

Phone no.: 0651-2290103 Website : www.eiespl.co.ie



TEST REPORT

Test Report No.	: FLES/RNC/2025/1390	Report Release Date	1 03/03/2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
LLR No.	1 TC1358725000001361F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	Hindulan Industries Limited	Sample Ref. No. Location	Shrengdag A (140.07ha) Benxite Shrengdag A (140.07ha) Benxite Mine DG (25 KVA)
Address	Lohardaga, Jharkhand-#35302	Sampling Date Sample Received Date Type of Sample Sampling Procedure Sampling Done By	: 22.02.2025 : 24.02.2025 : Flue Gas : ELES/DOC/SMPL/02(A)
Mines Status	Operational		: ELES Pvt. Ltd.
eriod of Analysis 24.02.2825 to 03.03.2025 Sample Condition		Sample Condition	: Sealed

1	Particular of the Plant	2 Bauxite Mines
2	Emission Due to	: Burning of HSD
3	Stack Connected to	: DG:25 KVA
4	Material of Construction of Stack	±MS
5	Stack Height from Ground Level (m)	:3.5
6	Height of Sampling Port from Ground Level (m)	:35
T	Inner Diameter of Stack at Sampling Point (m)	:0.07
8	Shape of the Stack	: Circular
9	Working Lawl of the Stack	: 25 KVA
10	Pollution Coarned System	N/A
11	Luider & Platform	Temporary

FU	EL CHARACTERISTICS DETAILS		
1	Type of Fael Used	HSD	
2	Fuel Consumption	: N/A	
3	Calorific Value of Fuel (KenVKg)	ENGAS	

Page 1 of 2

The Boundary relation Tax Report is usually by the Laboratory relative Term and Conditions only as Company bites band in proapproved forms. The relationship is for the Laboratory of the Laboratory of the later relative to the Laboratory of the later relative to the Laboratory of the Laboratory of the later relative to the Laboratory of the later relative to the Laboratory of the later relative to the Laboratory of the Labo



PLOT NO-30, MANGAROVAN ENCLAVE, TUPUDANA HATIA, RANCHI-83303 (JHANKHARID) GST NO-20ANCESTINIEN

ENGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in . eles ranchilligmail.com

Phone no.: 0651-2290103 Website: www.cfespl.co.in



TEST REPORT

Test Report No.	+ELES/RNC/2025/1390	Report Release Date	1 03.03.2025
Work Order No.	N 73617112113	Work Order Date	+28 03 2024

ULR No. : TC1358725000001361F

Discipline : Chemical		Group : Atmospheric Pollution	
Parameter	Cnit	Test Protocol	Results
Particulate Matter (PM)	mg/Nm ¹	1S 11255(Part-1): 2023	36
Sulphur Di-Oxide (SO ₁)	mg/Nm	USEPA 6C: 2017	28
Oxides of Nitrogen (NO ₄)	mg/Nm ¹	USEPA 7E 2020	75
Carbon Monoxide (CO)	mg/Nm ³	USEPA 108; 2017	30
Carbon Di-Oxide (CO ₂)	35	UNEPA 3A: 2017	4.8
Fise Gas Temperature	*C	1S 11255 (Pint-3); 2018	:140
Barometric Pressure	mmHg	1S 11255 (Part-3): 2018	740
Velocity of Plue Gas	mesee	IS 11255 (Part-3): 2018	11.20
Quantity of Gas Flow	Norther	1S 11255 (Part-3): 2018	109

Resident by

****End of Report****

Authorised Signatury

Tallet I

Page 2 of 2

The Conserver securities from Report, to issued by the Laboratory under General Terms and Catalibras, only on Company before from the management flatter. The region is for him dependently of the information of the Catalibras, only on Company with their statements of the information of the Laboratory with the Catalibras of the Information of the information of the provided of the region of the information in information of the information in information in

ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT, LTD.

Plot No.30, Mansarovar Enclave, Tupudana, Hatia, Ranchi-834003, Jharkhand.

Shrengdag A Bauxite Mine-Environmental Monitoring Report

March 2025



CONTENT

	Hondalen Industries : Shrengdag A Bausste Mine Environmental Montoring Report March 2025 Shrengdag A Bauxite Mine
	AMBIENT AIR QUALITY- CORE ZONE
1	Near World Hodge
1	BKB Quarty
	Mine Pit Quary No 2A
1	Mine Pit Quary No.2B
	AMBIENT AIR QUALITY-BUFFER ZONE
	New Bunjact Village
1	Neur Paur: Village
1	Neue Florup Village
	Near Painteli Village
	AMIJIENT NOISE
=	WORKZONE NOISE
	Spring Wuter
	Toogra Catha
	Stream Water
	Lip Stream (Kadhaki Nadi)
2	Down Steam (Kachaki Nadi)
	Up Stream (Sergngdag Nadi)
1	Down Stream (Serengdag Nadi)



PLOT NO-83, MANIAROVAR ENCLAVE, TUPUDANA HATIA, RANCH-834003 (HARKHAND) GST NO-200480597130100

ENGINEERING SERVICES PVT. LYD.

Ewaii info@ejessi.ca.iv. ejes.conchi@qmaii.sam Munu na.: 0651-2290200

Website : www.elespt.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/2009	Report Release Date	124.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28,03.2024	
ULR No.	TC1358725000001967F			

CUSTOMER DET	AllS	SAMPLE DETAILS	
Customer Name	: Hindaleo Industries Limited	Sample Ref. No. Location	ELES/RNC/2025/AA/2151 Near Weigh Bridge, Serongdag-A Bausite Minus (155.81ha)
	; Lohardaga, Jharkhand-835302	Sampling Data Sample Received Date Type of Sample	= 15.03.2025 to 16.03.2025 = 17.02.2025 = Ambient Air
	: Operational	Sampling Procedure	ELES/DOC/SMPL/02
Period of Analysis	: 17.03.2025 to 24.03.2025	Sampling Done By Sample Condition	Scaled & Preserved

MI	ETEOROLOGICAL INFORMATION			
1	Average Temperature (°C') : 28	2	Buremetric Pressure (mmH)	() : T20
3	Relative Humility (%) 5	4	Weather Condition	: Clear

Discipline: Chemia	nt	Group :	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Manor (PM10)	µg/m²	38-5182 (Part- 23): 2022	.96	100 (24km)	
Particulate Maner (PM2.5)	µg/m ⁸	15:5182 (Port- 04): 2019	57	60 (24hrv)	
Sulphur Di-Oxide (SO ₂)	µg/m ³	IS 5182 (Part- 2/Sec1): 2023	14.2	80 (24hn)	
Nitrogen Di-Oxide (NO ₂)	µg/m	45-5182 (Part-6): 2022	32.8	IID (24firs)	
Ovonc (O ₁)	pg/m ³	1S 5182 (Part- 9): 2019	<20.0	100 (Bhrs)	
Ammooia (NH ₃)	µg/m³	IS 5182 (Part- 25): 2018	<10.0	400 (24hni)	
Carbon Monoxide (CO)	mg/m	IS 5182 (Part- 10): 2019 (NDIR Method)	1.22	2 (#Prs)	
Lmč (Pb)	http.m.	15 5182 (Pan-22); 2019	0.042	1 (24hrs)	
Nickel (Ni)	ag/m	IS 5182 (Part- 26): 2029	<6.0	29 (Aonoii)	
Ammic (Ax)	ng/m	ELES/AIR/SOP(01: 2011	<2.0	fi6 (Annuil)	
Benzene (C _a H _n)	µg/m³	ELES/GIC/SOP/06: 2023	<2.5	05(Armui)	
Bineo-(z)-Pyrens	ru/m"	ELES/GC/SOP/05; 2023	<0.5	0f(Armail)	
	-				

Reviewed by Alexan Remain

****End of Report****

Amhorised Signatury

Dr. Deependra Kumar Sinha

Omniny to the owner,

Page 1 (C) Ph. D. Environmental Engg.

The financial and a Ten based is described and the following and Ten based and the financial and the f



PLEST NO-30, MAKSAROVAR ENCLAVE, TUPLIDANA HADIA, RANCH-BEIGES (MARRINAND) GST NO:- 20MARCE 971301274

ENGINEERING SERVICES PVT, LTD.

Amolt into melatal co.in. ries renchiffematicam Frame no.: 0681-2290109

Watelle: www.elegal.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/2010	Report Release Date	: 24.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC1358725000001968F			

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	: Hindulco Industries Limited	Sample Ref. No. Location	: ELES/RNC/2025/AA/2152 : BEB Quarry, Servingdag-A Baucite Mines (155.81hu)
Address	: Lohardags, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 15:03:2025 to 16:03:2025 : 17:03:2025 : Ambiere Air
Minus Status	Operational	Sampling Procedure	: ELES/DOC/SMPL/02
Period of Analysis	17:03:2025 to 24:03:2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved

M	ETEOROLOGICAL INFOR	MATION			
T.	Average Temperature (*C)	128	2	Barometric Pressure (mmHg)	±720
3	Relative Humidity (%)	:61	4	Weather Condition	: Clear

Discipline: Chemic	at	Group:	Atmospheric !	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	pg/m²	18 5182 (Part-23); 3922	7.3	100 (24hm)
Purficulator Matter (PM2.5)	pg/m	15 5182 (Part-24): 2019	40	60 (24hm)
Sulphur Di-Oode (SO ₁)	pg/m²	1S 5182 (Part-2/Sect); 2023	11.8	80 (24hrs)
Nitrogen Di-Ovide (NO ₂)	ppm.	18 5182 (Part- 6): 2022	28.2	80 (24brs)
Ozone (O ₁)	µg/m²	18 5182 (Part- 9): 2019	<20.0	100 (8hm)
Ammonia (NH _i)	pg/m ³	15 5182 (Phri- 25): 2018	<10.0	400 (24km)
Carbon Moneuide (CO)	mg/m?	IS 5182 (Part-10): 2019 (NDIR Method)	<1.0	2 (8hs)
Led (Pb)	HR/m2	15 5182 (Part- 22): 2019	0.026	1 (24hni)
Nickel (Ni)	ng/m	15 5182 (Part- 25): 2020	<6.0	20 (Annual)
Amenie (As)	ng/m²	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)
Bertrene (C ₁ H _e)	μg/m [‡]	ELES/GC/SOP/06: 2023	<2.5	05(Annual)
Bento-(a)-Pytene	nu/m³	ELES/GC/SOP/05: 2023	<0.5	Ol(Annual)

Reviewed he Alcook Nuristic

****End of Report****

Authorised Signatory

Dr. Deependra Kumar Sinha

PRODUCTION OF THE PROPERTY OF

Page Lof 1

The financial material fact fragments in social ty the Laborary sinks Grapped Terms and Financians, press on Laborary with their September 1 Manual William in the Tree Report wite at unique only to the princent was time by the Lamenton, onto The information meant on the Time Agree reflects the findings since by the Laboratory is the pain of provided on the lament of the laboratory is the paint of the laboratory of the dome, and is not had come of in progression to the countries to himseast City Change, States of East to be before a City to a separate and produces come. Any part for the process A October of the process or appearance of the Tool Engine or a subscribe only the Book only to process of the Nobel enterior of the Dot Man appearance of the Tool Engine of the Super of the Super



ALCT NO-30, MANSAROVAR ENGLAVE, TURNOANA HATTA, RANCHERSHOOS WHERKNAMO! GS7 NO: 20XAGCE97130129

ENGINEERING SERVICES PVT. LTD.

Error! into Melaspilico.in. eles.rorchi@gmail.com Phone no.: 0663-2290103

Website: www.elegal.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/2011	Report Referen Data	1 24.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024	
ULR No.	± TC1358725000001969F			

CUSTOMER DET	AILS	SAMPLE DETAILS	The same of the sa
Customer Name	2 Hindaigo Industries Limnos	Sample Ref. No. Location	HLES/RNC/2015/AA/2153 Mine Pit Quarry No.2A. Serengdag-A Bauche Mines(155.80m)
Address	: Lohardaga, Tharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 15.03.2025 to 16.03.2025 : 17.03.2025 : Ambient Air
Misses Status	: Operational	Sampling Procedure	ELES/DOC/SMPL/02
Period of Analysis	; 17.03.2025 to 24.03.2025	Sampling Done By Sample Condition	ELES Pvt. Ltd. : Souled & Preserved

METEOROLOGICAL INFORMATIO	YN.	ATR	RMA	INFO	AL	OGH	PROL	TE	MB
---------------------------	-----	-----	-----	------	----	-----	------	----	----

	CLEOROPOGICATE TALORDIA LIGA	THE STATE OF THE S	
1	Average Temperature (°C) 28	2 Barumetric Pressure (mmHg) : 720	
3	Relative Hamidity (%) : 61	4 Weather Condition Clear	

Discipline : Chemic	ut	Group:	Atmospherie !	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m ⁴	(8.3182 (Parti- 23): 2022	81	100 (24hm)
Particulate Matter (PM2.5)	µg/m³	1S 5182 (Part- 24): 2019	45	66 (24hrs)
Sulpius Di-Oxide (SO ₅)	µg/m ³	IS 5182 (Part- 2/Soci.): 2023	12.6	80 (24hrx)
Nimgen Di-Oxide (NO ₃)	µg/m ³	15 5182 (Pan- 6): 2022	31.5	80 (24hrs)
Ozone (Os)	jagem*	IS 5182 (Part-9): 2019	<20.0	(mth) 001
Ammunia (NH ₅)	Hg/m ³	IS \$182 (Part- 25): 2018	<10.0	400 (24hra)
Curbon Monoxide (CO)	mg/m²	3S 5182 (Part- 10); 2019 (NDIR Method)	1.28	2 (8hnc)
Lend (Pb)	yaym ⁸	1S 5102 (Part-22): 2019	<0.002	1.(24ies)
Nickel (Ni)	ing/m ³	15.5182 (Part- 26): 2020	≤6.0	20 (Annui)
Amenic (Ar)	ng/m*	ELES/AIR/SOI/01: 2021	<2.0	06 (Annual)
Benzene (C ₄ H ₄)	agan ³	ELES/GC/SOP/06: 2023	<2.5	95(Annual)
Benzo-(a)-Pyrmie	ng/m ⁴	ELES/GC:SO/v05: 2023	<0.5	01(Amust)

Additionally

****End of Report**** Quality, Manager

physical distriction Sinha Ph. D. Environmental Engg.

Technical Manager

Page 1 of 1

The Description of the September 1 and September 1 and the Septemb of retire, and in the logic action at the properties the hope according to Paragraph of the Library According to the text below of public, compared and provide and provided and according to the provided and according to the Library according to t Basel to a Planta frame Attachance and NAA Set Applicable 2004 Dates Describe 2004 (Long Describe Lond).



PLOT NO-30, MANSAROVAH ENCLAVE, TEMPLOMALA HATIA, RANCHI-BIAGES (SHARKHAND) GST NO:- 20AAECESTLSGLD#

ENGINEERING SERVICES PYT. LTD.

Timeli info@eirsel.ou.in. nits.omchi@email.com Phone no.: 0651-2210303

Morbudie: www.elegal.co./w



TEST REPORT

Test Report No.	: ELES/RNC/2025/2012	Report Refease Date	: 34,03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024	
ULR No.	± TC1358725000001970F			

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name	Hindrica Industries Limited	Sample Ref. No. Location	ELES/RNC/2025/AA/2154 Mine Pit Quarty No.2B, Serengilag-A Bassine Mines(155.87ha)	
Address	: Lohardaga, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample	15:03:2025 to 16:03:2025 17:03:2025 Ambient Air	
Minus Status	: Operational	Sampling Procedure	ELES/DOC/SMPL/02	
Period of Analysis	± 17.03-2025 to 24.03-2025	Sampling Done By Sample Condition	: Senied & Preserved	

M	ETEOROLOGICAL INFORMATION			
1	Average Timperature (°C) : 28	2	Barometric Pressure (namHg)	720
3	Relative Hamildity (%) : 63	1	Weather Condition	: Clear

Discipline: Chemic	al	Group:	Atmospheric:	Poliutina
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m³	15 5182 (Part- 23): 2022	76	100 (24hrs)
Particulate Matter (PM2.5)	ug/m ²	35 5182 (Part-24): 2019	42	60 (24hn)
Sulphur Di-Oxide (SO ₂)	pg/m ³	IS 5182 (Part- 2/Sect): 2023	13.6	80 (34hrs)
Nimogen Di-Oxide (NO;)	µg/m/	15 5182 (Pan-6): 2022	32.1	80 (34hrs)
Osone (O ₄)	µg/m¹	15 5182 (Part-9): 2019	<28.0	100 (8hm)
Assimumin (NH ₂)	µg/m ¹	18 5182 (Part- 25): 2018	<10.0	400 (24hts)
Carbon Monoxide (CO)	mg/m [†]	15:5182 (Part- 10): 2019 (NOIB Method)	1.24	2 (Nhm)
Loud (Ph)	parm":	15 5182 (Pan-22); 2019	0.025	I (24hn)
Nickel (Ni)	algalan)*	IS 5182 (Part- 26): 2020	<6.0	20 (Annual)
Arsenic (As)	ng/m)	ELES/AJR/SOP(01: 2021	<2.0	96 (Annul)
Benzene (C ₄ H ₄)	pg/m	ELES/OC/SOP/06: 2023	<2.5	(d(Annual)
Benne-(a)-Pyrene	ragina"	ELES/OC/SOP/05: 2023	<0.5	07(Amuil)

Reviewed by

Abirali Kannia

****End of Report****

Authorised Signators

Dr. Deependra Komar Sinha

Ph. D. Chambroom - I sign

Page 1:013

The Demonstrated on East Report is broad by the Liberary and a Dissert streets and for on topic street, one purpose he has been acced from by the purpose of the Library of the librar hape to shall be from waters I hape from the little of first flagger of shared livered. After the companied are of below to company will be subjected. The pairs flagger of the company will be subjected from the company of the compa happer in an J Barrier Browne Addition rates and W. A. Phie. Applicabile. HER, Chile Propriet Later, LDI, Chile of Propriet Later.



PLOT NO-30, MANIAROVAR ENCLAVE, TLIPIOANA HATIA, RANCH-834015 (JHARRHAND) GST NO:- 20AAECEPT-130128

ENGINEERING SERVICES PVT. LTD.

Emain info@elicsal.co.in. elss.conshi@email.com Phone no.: 0651-2290103 Wabulle : www.elicyal.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/2013	Report Release Date	: 24.03.2025	
Work Order No.	13612312113	Work Order Date	: 28.03.2024	
ULR No.	± TC1358725000001971F			

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindako Industries Limited	Sample Ref. No. Location	BLES/BNC/2025/AA/2155 Near Burgari Village Serengdag-/ Burghe Mines (155/81ha)	
Address	: Lishanlaga, Jharkhund-835362	Sampling Date Sample Received Date	: 15.65 2025 to 16.03 2025 : 17.03.2025	
Minus Status	: Operational	Type of Sample Sampling Procedure	: Ambient Air : ELES/DOC/SMPL/02	
Period of Analysis	17:03:2025 to 24:03:2025	Sampling Done By Sample Condition	: Seniod & Preserved	

MB	ETEOROLOGICAL INFORMATION		
-1	Average Temperature (°C) : 28	2 Barametric Pressure (mmHg) : 720	
3	Relative Humidity (%) : 60	4 Weather Condition : Clear	

Discipline : Chemic	tul	Group :	Atmospheric:	Pollution
Parameter Unit		Test Protocol	Result	Regulatory Limit
Particulate Matter (PMT0)	ug/m³	IS 5182 (Part- 23): 2022	72	100 (24hm)
Perticulate Matter (PM2.5)	pg/m ³	MF 5182 (Pan- 24); 2019	50	60 (24hrs)
Sulphur Di-Oxide (SO ₂)	ug/m³	15 5100 (Part-2/Sec1): 2023	12.4	80 (24hrs)
Nitrogen Di-Oxide (NO ₂)	μμ/m³	15-5182 (Part-6): 2022	30.7	80 (24hrs)
Ozone (G.)	ug/m ¹	15 5102 (Part- 9: 2019	<20.0	100 (8hrs)
America (NH ₂)	ug/m³	US 5182 (Part- 25): 2018	<10.0	400 (24hrs)
Carbon Monovide (CO)	mg/m*	1S 5182 (Part- 10): 2019 (NDH Method)	<1.0	2 (fbs)
Lost (PH)	hitigan	US 5182 (Part- 22): 2019	0.028	1 (24tm)
Nickel (Ni)	ng/m²	15 5:182 (Pany 26): 2020	<6.0	20 (Annual)
Americ (As)	ng/m	ELES/AIR/SOP/01: 2021	<2.0	06 (Annual)
Benzere (C.H.)	HD/M/	ELES/GC/SOP06: 2023	<15	05(Annual)
Benzo-(a)-Pyrene	eg/m²	ELES/GC/SOP/09: 2023	< 0.5	(D1(Annoal)
			-	1

Reviewed by

Aktaly Kumor

**** End of Report****

Authorised Signatory

De. Deependra Kumar Sletha

DUBLING PRINTED

Page Luf I

The transmission is the Property is broad to the Liberton code Commission of Commission, this is Company was been a property of the Liberton of the Commission of the Commissi

Section represent Sections



PLOT NO 30, MANSAROVAR ENCLAVE, TUPUDANA HATIA, RANCHI-834503 (HARRHAND). GST NOV- PRAABCESTS SIDED!

frest! info@elerpl.co.bt, elec.roncht@groot.com Phone ra.: 0651-2290101

Website , www.eiespi.co.in



TEST REPORT

Test Report Na.	: ELES/RNC/2025/2014	Report Release Date	: 24.03.2025	
Work Order No.	: 13612212113	Work Order Date	: 28.03.2024	
ULR No.	: TC1358725000001972F	(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(

CUSTOMER DET	AILS	SAMPLE DETAILS	AND A STREET OF STREET
Customer Niene	: Hindulça İndustries Limited	Sample Ref. No. Location	: ELES/RNC/2025(AA/2156 : Near Pauri Village Screngdag-/ Bauxite Mines (155/81ha)
Address	: Lohardaga, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 15.03.2025 to 16.03.2025 : 17.03.2025 : Autisent Air
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/02
Period of Analysis	; 17.03.2025 to 24.03.2025	Sampling Done By Sample Condition	: FLES Pid. Ltd. : Smith! & Preserved

METEOROLOGICAL	INFORMATION

	Average Temperature (*C) :2	18 3	2	Bannuetric Pressure (mortly)	: 729
3	Relative Hamildity (%) : 6	50: 4	4	Weather Condition	: Clear

Discipline: Chemic	in.	Griup :	Atmospheric	Pollution.
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM 10)	µg/m²	15 5182 (Part-23); 2022	73	100 (24hra)
Particulate Matter (PM2.5)	µg/m²	15:3182 (Part- 24): 2019	42	60 (24hn)
Sulphur Di-Oxide (5O ₂)	ugint ¹	15-5182 (Part-1/Sect): 2023	10.9	(0) (39m)
Nitrogen Di-Oxide (NO ₁)	µg/m³	1S 5182 (Part- 6): 2022:	24.5	(0) (24hrs)
Ozone (O ₄)	jig/m ³	15 5382 (Part-9): 2019	<20.0	100 (Shrii)
Ammunia (NHa)	ug/m².	15 5182 (Part- 25): 2018	<10.0	400 (24hrs)
Cirtich Monoxide (CO)	mg/m²	(S 5182 (Part- 10): 2019 (NDDR Method)	<1.0	2 (8hm)
Lend (Ph)	pg/m	IS 5182 (Part- 22): 2019	0.024	1 (24hrs)
Nakel (Ni)	ng/m³	15:5182 (Part- 26): 2020	<6.0	20 (Annual)
Amerik (Ar)	ng/m³	ELES/AIR/SOP/01: 2021	<2.0	66 (Annuil)
Benzene (C ₄ H ₄)	apm ¹	ELES/GC/SOP/06; 2023	<2.5	95(Annual)
Benzo-ça)-Pyrene	egg/m ³	ELES/GC/SOP/05: 2023	<0.5	9)(Amusi)

Reviewed by Altash Kemar

****End of Report****

Authorized Signatury Dr. Deependra Kumar Sinha

The Diameter came to Too binner, it is not by the Laborator came Grand Term and Continues of the Company is not have a provided by the Laborator came of Continues of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company of the Company is not have a provided by the Company of the Company is not have a provided by the Company of the Company o ode or other and to be presided that he my laborates one. The advances on the Text Notice reflects the lineage one by the Laborates of our or other hands of the president of th when he product many is fall as a part of the representative of the temperature of the period of the Separation of Present Althoropius and William Applicable 2004, (Milliam Deportung Limits LDC (Donot Deportung Death)



PLOT NO-30, MANSAROVAR ENCLAVE, TUPLIDANA *
HATIA, RANCH-BARDE (HARRIMAND)
GST NO- 2044ECT17130124

ENGINEERING SERVICES PVT. LTD.

Email: Infolliplespi.co.in, vier, ranchidigmail.com Phone on, 0651-2290203

Website: www.elings.co.in



TEST REPORT

Test Report No.	1 ELES/RNC/2025/2015	Report Release Date	: 24.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	± TC1358725000001973F		S S S S S S S S S S S S S S S S S S S	

CUSTOMER DET	AILS	SAMPLE DETAILS	The Street of the United Street of the Street
Customer Name	: Hindulco Industries Limited	Sample Ref. No. Location	: HLis/RNC/2025/AA/2157 : Near Harup Village Serongdog-A Baroute Mines (155.81ha)
Address	: Loharitaga, Jharkhund-935502	Sampling Date Sample Received Onte	: 15.03.2025 to 16.03.2025 : 17.05.2025
Mines Status	: Operational	Type of Sample Sampling Procedure	: Ambient Air : ELES/DOC/SMPL/62
Period of Analysis	; 17.03.2025 to 24.03.2025	Sampling Done By Sample Condition	: BLES Pvt. Lid : Sealed & Preserved

METEOROLOGICAL INFORMATION			
1 Average Temperature (*C) 28	2	Starometric Pressure (mm1/g)	: 720
3 Relative Humidity (%) 160	+	Weither Candition	Clear

Discipline: Chemis	al	Group:	Group: Atmospheric Pollution		
Parameter Unit		it Test Protocol		Regulatory Limit	
Particulate Matter (PM10)	ug/m ³	15:3182 (Piet-23): 2022	77.	(90 (24hn)	
Perticulate Matter (PM2.5)	ag/m ⁷	35 3182 (Pan-24); 2019	43	60 (24hrs)	
Sulphur Di-Oxide (50-)	ag/m ²	15.5182 (Part-2/Sec1): 2023	12.2	80 (24hr))	
Nitrogen Di-Oxide (NO ₃)	µg/m ³	15:5182 (Part-10): 2022	25.1	80 (24hrs)	
Olone (Oi)	jig/m"	18-5182 (Part- 9): 2010	<20.0	100 (8hrs)	
Ammunia (NH ₂)	µg/m³	35-5182 (Piet-25): 2018	<19.0	400 (24bm)	
Carbon Monoxide (CO)	mg/m ^r	19.5182 (Part-10): 2019 (NDIR Method)	1.37	2 (thrs)	
Lead (Ph)	sg'm"	15 5182 (Part- 22); 2019	<0.092	1 (24hrs)	
Nickel (Ni)	ngrim	16:5182 (Part-26); 2020	<6.0	20 (Annual)	
Arsenic (As)	ng/m)	ELES/AIR/SOP/01: 2021	<2.0	96 (Annual)	
Benzene (C ₄ H ₄)	pg/m"	ELES OC/508/06, 2023	<2.5	95(Annual)	
Benzo-(a)-Pyrene	t⊕'m'	ELES GC/90P/05: 2923	<0.5	D1(Annual)	

Reviewed by Akash Yorman

****Emi of Report****

Amhorised Signatury Dr. Deependra Kumar Sinha

PRI D'Environmental Enga

Page 1 of 1
The Street, would be for finish a result by the Columnia and reference and tradement and as Company from these or properties as properties as the fact the Columnia and the fact the Columnia and the

es latinomina des homo



PLOT NO-30, MANSAKOVAR ENCLAVE, FUPULIANA MATIA, PANCH'-ETAME (MATERIAND) GST NO: 204AFCERT130124

ENGINEERING SERVICES PYT. LTD.

Erwolt info@icierpl.co.in. inlea.ronchi@pmod.com Phone 20.: 0651-2290101

Wishelte : www.plessi.co.lh



TEST REPORT

Test Report No.	: ELES/RNC/2025/2016	Report Release Date	: 24.03.2025	
Work Order Nr.	: 13612312113	Work Order Date	: 28,03.2024	
ULR No.	: TC1358725000001974F		- CARLON CONTRACTOR	

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	: Hindaino Industries Limited : Luhardaga, Jhackhuod-835302	Sample Ref. No. Location Sampling Date Sample Received Date	ELES/RNC/2025/AA/2158 None Painteil Village Screngdag-A Bracolar Mines (155.81ba) 15.03.2025 to 16.63.2025 17.03.2025
Mines Status Period of Analysis	: Operational : 17.03.2025 to 24.03.2025	Type of Sample Sampling Procedure Sampling Done By Sample Condition	: Ambient Air : ELES/DOC/SMPL/03 : ELES Pvt. Ltd. : Seuled & Preserved

MI	ETEOROLOGICAL INFOR	MATION			
1	Average Temperature (*C)	126	2	Barometric Pressure (mmHg)	720
3	Relative Humidity (%)	: 60	47	Weather Condition	Clear

Discipline: Chemic	al	Group:	Atmospheric !	Pollution
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m ⁴	15 5182 (Part- 23): 2022	73	100 (24hrs)
Particulate Matter (PM2.5)	µg/m²	IS 5182 (Part- 24): 2019	.39	60 (24lbrs)
Sulphur Di-Onide (SO ₅)	µg/m³	15 5182 (Part- 2/Sect): 2023	11.7	80 (24brs)
Nitrugen Di-Oxide (NO _c)	ug/m²	IS 5182 (Part- 6): 2022	25.4	80 (24brs)
Ozone (O ₃)	µg/m³	1S 3182 (Part- 9): 2019	<20.0	100 (8hrs)
Ammonia (NIL)	µg/m ¹	US 3182 (Part- 25): 2018	<10.0	400 (24brs)
Curbon Monoxide (CO)	mg/m²	(S 5182 (Part- 10): 2019 (NOIR Method)	1.26	2 (8hm)
Cenif (Ph)	(agrm) ⁸	3S 5182 (Part- 22): 2019	0.031	T (24hrs)
Nickel (Ni)	rigi/m [†]	IS 5182 (Part- 26): 2020	<6.0	20 (Annual)
Arsenic (Att)	ngiai"	ELES/AIR/SOP/01: 2021	<2.0	96 (Annual)
Benneno (CaHa)	papim"	ELES/GC/SOP/06: 2023	<1.5	05(Annual)
Benzo-(a)-Pyrmir	ing/in	ELES/GC/SOP/03: 2023	-0.5	01(Annual)

Reviewed by Alcely Kenney

****End of Report****

Authorized Signatory Dr. Deependra Rumar Sinha

Pour 1-af t Page 1-07.1

The Designate contribution is bound by the Laborator and of formed Tenne and Confidence, only an Congress in the hours, as we Tagging Section 2016 and the Section 2 table or which will be the provincial of the Labourery sets. The minimizes example the Test Report softens the Delayer has be the Labourery or the form of a relative to the types, usually the minimizes of the the case of t cannot be regardance entropy in talk and are post of the context at our talks and of expert, referent person appeared of the Laboratory. The Report in Fel. to in part shall not be published. Absence and the one logal access which prior parameter has been added to be become and the latest control of the Laborators, American problems to the latest control of the control of the Laborators and t Equational to from which likes that to like of two Warnt (shows made in the first posted rated below, or compliants of the except in the rates of the except.) The rates of the except in the control is been as the first posted in the first posted Right to in Different formats. Addition to the many many W.A.(No. Approximation) HDA, (Different Desprises Limits, LD), (Lives Determine Limits)



PLOT NO-30, MANSAROVAN ENCLAVE, TUPUDANA HATIA, KANCHI BIAGOJ (HIARKHANO) GST NG:- JOAAECESTIJOIZA

ENGINEERING SERVICES PVT. LTD.

Erick infellelespica in, ein, ranchilligmeil.com Phone no.: 0651-2290100 Website ; www.elespica.co



TEST REPORT

Test Report No.	: ELES/RNC/2025/2021	Report Release Date	: 24.03.2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC1358725000001979F		

CUSTOMER DETAILS		SAMPLE DETAILS		
Costomer Name Address	: Hindakeo Industries Limited : Loburdaga, Durkhand-835302	Sampling Date Sampling Received Date Type of Sample Sampling procedure Sampling Done By	15.03.2025 to 16.03.2025 17.03.2025 Ambient Naise ELES/DOC/SMPL/03 ELES/DOC/SMPL/03	
Mines Status	: Operational	Period of Analysis	: 17.03.2025 to 22.03.2025	

M	ETEOROLOGICAL INFORMATION			
1	Average Temperature (°C) = 28	2	Barometric Pressure (mml	igi : 720
1	Relative Humidity (%) : 61	4	Weather Condition	: Clear

Discipline : Chemical	Group: Atmospheric Pollution				
Location	Unit	Test Protocol	Rem	dt	Regulatory Limit (Industrial Zine)
Near Mine Office.	iB(A)	18 9489, 2020	Time	L_{01}	
Serengdag- A Bauxite Mines (135.81ha)			Day Time	64	75 dB(A) Day Time
Sample ID: ELES/RNC/2925/AN/2163	1,255,654		Night Time	47	70 dB(A) Night Time

Reviewed by Aktath Kenter Quality Managia

****End of Report****

Authorized Signatury
Dr. Deependra Kumar Sinha
Ph. D. Environmental Engg.
Technical Manager

Page 1 of 1

The Homerum stated as Teal Report or less only to the Laboratory space Control Letters and Conditions, only as Company letter head in pre-approved forms. The teach is pre-approved in the teach of the Laboratory at the Laboratory at the best of specification only and within the brane of closely subtraction. The Laboratory is responsible for all the information or that pre-approved interests which is pre-approved by the Laboratory in the Laboratory in responsible for all the information or that pre-approved interests which is pre-approved to the teach. The Report in this is a particular, the pre-approved for the teach in the control of control which is pre-approved to the particular in the particular and the pre-approved for any applications are the pre-approved in the particular and


PLOT NO-30. MANSAROVAR ENCLAVE, TUPUDAMA HATIA, RANCHI-BARRIS (IMARKHAND) GST NO:- 20AAECEST23DESK

ENGINEERING SERVICES PVY. LTD.

Email: info@cinssi.co.in. circs.co.co/d@amail.co.m

Phone no.: 0651-2290103 Website : www.elespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/2058	Report Refease Date	: 25.03.2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC1388725000002015F		

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	: Hindalco Industries Limited : Lohardaga, Jhurkhand-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: ELES/RNC/2025/SW/2189 : 15.03.2025 : 17.03.2025 : Surface Water : Up Stream : Kaschii Nadi, Serengdag-A Banote Mines (155.81 ha)	
Mines Status	; Operational	Sampling Procedure	ELES/DOC/SMPL/01	
Period of Analysis	: 17.03:2025 to 24.03:2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Senied & Preserved	

Discipline: Chemical		Gr	oup: Water	Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 1S 2296-1992 Class C (Intant Surface Water)
pH (at 24.9 °C)	1.0	15-3025 (Pwn-11) : 2022	6.54	6.5-8.5
Colour	Hazen	IS 3025 (Part -4) : 2021	3.4	300
Odmir	3.6	IS 3025 (Part-5) : 2018	Unobjectionable	=
Turbidity	NTU	15 3025 (Part-10): 2023	8.68	141
Total Disselved Solids (TDS)	mg/L	IS 3025 (Part-16): 2023	142	1500
Tetal Alkalinity (as CaCO ₃)	mg/L	1S 3025 (Part-23) : 2023	51.0	=
Total Hardness (as CaCO ₃)	Tqm)	IS 3025 (Part-21): 2019	58.8	8
Sulphite (as SO ₄)	mg/L	18:3025 (Part-24/Sec1): 2022	9.2	400
Chiloride (as CI)	mg/L	3S 3025 (Part-32): 2019	19.4	600
Fluoride (m F)	mp/L	15 3025 (Part-60); 2019	0.112	1.5
Nitrate (as NOc)	mg/L	APHA 24" Ed 2023, 4500 NOB	1.23	50

Page 1 of 4

The December issue as that Report is bound by the Laboratory and Caroline and Carolines, sold on Coursesy total band in properties. The traditional physics is the Laboratory and to the Laboratory and the companies of the Laboratory and the L



PLST NO-10, MANGAROVAR ENCLAYE, TUPUDAKA HATIA, RANCH-130003 (IMARKKAND) ISST NO-20AARCH97130124

ENGINEERING SERVICES PVT. LTD.

Email: info@eleasl.co.in. elea.ranchi@amail.com

Phone on: 0651-2290103 Waterite: www.elegal.co.in



TEST REPORT

Test Report No. : ELES/RNC/2025/2058 Report Release Date : 25.03.2025 Work Order No. : 15612512113 Work Order Date : 28.03.2024

ULR No. : TC1358725000002015F

Discipline : Chemical		Group: Wa	ter	Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992 Class C (Inland Surface Water
Free Residual Chilorine (RFC)	Lym	IS 3025 (Part-26) : 2021	(DL: 0.1)	÷
Phenolis Compounds (as C _c H ₂ OH)	mg/L	1S 3025 (Part-43/Sec1): 2022	BDL (DL: 0.001)	0.005
Calcium (as Ca)	mg/L	15 3025 (Part-40): 2019	15.7	#
Discipline : Ches	nical	Gn	nup : Residues	in Water
Aluminum (se Al)	mg/L	18 3025 (Part-55): 2005;RA2019	BDL (DL: 0.02)	=
Arsenic (as Aa)	mg/L	15 3025 (Part 37):2022	BDL (DL: 0.005)	0.2
Biseon (as B)	mg/L	15 3025 (Part-57): 2021	8DL (DL: 0.2)	144
Cadmium (as Cd)	mg/L	APHA 24* Ed.2023; 3111B	BDL (DL: 0.003)	0.01
Total Chromium (es Cr)	mg/L	APHA 24 ⁸ Ed.2623; 31110	BDL (DL; 0.03)	0.05
Copper (as Cir)	mg/L	15 3025 (Part 42): 2019	BDL (DL: 0.03)	1.5
Instrument (no Fe)	mg/L	APHA 24* E£2020; 3110B	6.260	50
Lead (In Ph)	mg/L	APHA-24 ^a Ed.2023; 31118	BDL (DL: 0.01)	0.3
Manganese (as Mn)	mg/L	APHA 24 th Ed.2623; 3111B	BDL: (DL: 9.05)	=
Mercury (as Hg)	mg/L	IS 3025 (Part-4X): 2019	BDL (DL: 0.001)	-
Selemium (as Se)	mg/L	IS 3025(Purt-56): 2019	BDL (DL: 0.01)	0.05
Zinc (as Zu)	mg/L	APHA 24 th Ed.2623; 3111B	BDL. (DL: 0.1)	15

Page 1 of 4

The Discount should be Lost Regard, in bound by the Laboratory and General Terror and Conditions, only we Company better hand in pro-approved feature. The records shown in the Lost Regard reflects the foreign does by the Laboratory and the Lost Regard reflects the foreign does by the Laboratory and the laboratory and the desired of the information of the laboratory and the information of information of the information of the information of information of the information of the information of information of the information of information of the information of information



PLOT NO-30, MANSAROVAR ENCLAYE, TUPLIDAGA RATIA, RANCHI-834663 (HIGNINAND) GST ND--20448CE17130124

ENGINEERING SERVICES PVT. LTD.

imuk inteffelrationin elementriffemellaum

Phone no.: 0655-3290303 Widulte: www.elecol.co.in



TEST REPORT

Test Report No. : ELES/RNC/2025/2058 Report Release Date : 25:03:2025

Work Order No. : 43612312113 Work Order Date : 28:03:2024

ULR No. : TC1358725000002015F

Discipline: Chemi	csl	Group: Residue	Tolerance Linella as per IS 2296-1992 Class C (Inland Surface Water)	
Parameter Unit		Test Protocol		Result
Cyanide (as CN)	mg/l.	APHA 24 th Ed:2023, 4500 CN-E,	BDL (DL: 0.012)	0:05
Polynocleur Arnmatic Hydrocarbons (PAH)	Pg/L	ELES/GC/50P/04: 2023	BDL (DL: 0.05)	<u>+</u>
Pesticides				
Alachior	μg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	- 5
Ameine	μμ/Σ	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	2
Butachlor	jeg/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	
Chiorpyriphos	μg/L	ELES/GC:SOP/01: 2023	BD1, (DL: 0.5)	*
Ethiou	ap/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	
Malethion	ид/1.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	8
Methyl parathion	µg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.1)	22
Meanecrotophos	jig/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	-
Phorase	Туци	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	
Phorate Sulphone	pg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	
Dieldrin	ug/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.01)	8

Page 3 of 4

The Dimension species have been a presented by the Lebermany under General Terms and Combiners, we'ver Company later hand in pre-approved forms. The results shown to the Tent Report split or not state only to the jubinosity do not by the Lebermany or the trace of Interference only an extent the District Company or the trace of Interference only an extent the District Company or the information or district the District Company or the Interference of Interference only the Interference of Int



PLOT NO-30, MANISAROVAR ENCLANT, TUPLIOUSA HATIA, RANCH-834003 (MARKHAND) GST NO-3044/CERT(20174

ENGINEERING SERVICES PVT. LTD.

imelt info@elesolas.is. eles ranchi@gmail.com

Phone no.: 0633-3290103 Website: www.elessf.co.in



SE-HOR

TEST REPORT

Test Report No.	: ELES/RNC/2025/2058	Report Release Date	: 25.03.2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC1358725000002015F		

Pesticides				Tolerance Limits
Parameter	Unit	Test Protocol	Result	es par 15 2296-1992 Class C (Intend Surface Water)
Alpha HCH	μg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.006)	THE STATE OF THE S
Beta HCH	μg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	W W
Delta HCH	ug/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	14
Gamnia HCH (Lindane)	µg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	-
Endosulfan (alpha, beta and sulphate)	имТ.	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	14
DDT(o.p and p.p-isomers of DDT) (DDE and DDD)	μg/t.	ELES/GC/SOP/02: 2023	(DL: 0.05)	:8
Discipline: Biolo	gical	Gn	oup: Water	
Fotal Coliform	CFU/100 mL	IS 15185-2021	2.36×10 ³	5000
Excherichia colt	CPU/too mt.	18 15185: 2021	98,0	-

Remarks: pH & RFC done at vive.

Reviewed by Ahash Kumar Quality Managur

****End of Report****

Authorised Signatory Dr. Deependra Rumar Sinha

Ph. D. Environmental Engg.

Yechnical Manager

Page 4 of 4

The Homenors stated as Tare Region, is assess to the Laboratory under General Terms and Constituent, with on Company interfered in pro-opposed forms. The resonation is the Test Report critic or relative only to the job molytis date by the Laboratory only. The information stated on the Test Report referred for findings does by the Laboratory as the time of insultaneous and you desired in the latest of information which is provided by the catest. The Report menus to reproduced encoper in Test and one part of the report is not state or the resonator which is provided in the Laboratory. The Report in full or in part field only the problemed and only in Test and one part of the separation of the Laboratory. The Report in fall or in part field only to expect advantage, used as any legal ancient actions prior particularly which advantage, used as any legal ancient actions. Any introduced struction is faintfully interpretation for the Plantagement of the Laboratory. Attention in these or the production of the States and appropriate of the Laboratory of the States and appropriate of the Laboratory of the States of the States and a specified of the late. Any test supply and of States of the States and all the states are the States and a specified of the late. Any test supply and the States are the States and Company and Company and Company and the States and Company and the States and Company and the States and Company and Company and the States and Company and the States and Company a



PLOT NO-RE, MANSAROVAR ENCLAVE, TUPUTANA NATIA, RANCH-ESHOES (PHANGHAND) SET NO-SHARETEVILLOUS

ENGINEERING SERVICES PVT. LTD.

Email: Info@elespl.co.in , eles.ranchi@gmail.com

Phone no.: 0651-2290303 Website: www.efespl.co.in

TEST REPORT

Test Report No.	: ELES/RNC/2025/2058	Report Release Date	: 25.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	

CUSTOMER DETAILS		SAMPLE DETAILS		
Address	: Hindajee Indontries Limited : Leihierdaga, Jhurkhand-835502	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: ELES/RNC/2025/SW/2189 : 15/03/2025 : 17/03/2025 : Surface Water : Up Stream : Kanchiti Nadi, Serengilag-A Bauxite Mines (155/81 ha)	
Mines Status	Operational	Sampling Procedure	: ELES DOC: SMPL/01	
Period of Analysis	: 17.03.2025 to 25.03.2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved	

Discipline: Chemie	Tolerance Limits			
Parameter Unit		Test Protocol	Result	Class C (Jelian) Norther Water
Taske	(2)	APHA 24 th Ed.2023, 2160C	N/A:	500
Amonic Surfactants (as M8AS)	ngt	APHA 23* EH 2023, 5540-C	BDL, (DL: 0.025)	1.0
Mineral Oil*	mg/L	1S 3025 (Part-39):2021 o'Classe 9 Intraced Specific Scopic Memoria	(DL; 0.05)	744.

Romarks: 1, (*) Parameters are consourced to other Lah.

Albahan

Reviewed by Aleash Komar Quality Manager

****End of Report****

Authorised Signatory
Dr. Deependra Kumar Sinha
Ph. D. Environmental Engg-Technical Manager

Page 1 of 1

The Deciment supplies from the supplies of the deciment of the deciment of the Company were been a properties of the Action of the September o



PLOT NO-30, MANSAROVAR ENCLAUE, TUPUDAMA HATIA, RANCH-BHODS (HIMBURANO) GST NO:- 20AAECERT15012A

ENGINEERING SERVICES PVT. LTD.

Email: info@pleapl.co.in. eles.com/hi@gmail.com

Phone no.: 8653-2290103 Website: week-alegaliss in



TEST

TEST REPORT

: 25.03.2025

Work Order No. : 13612312113

Report Release Date Work Order Date

: 28.03.2024

ULR No.

Test Report No.

: TC1358725000002016F

: ELES/RNC/2025/2059

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	: Hindako frahatries Limited : Lohardaga, Jharkhand-835300	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2025/SW/2190 15.03.2025 17.03.2025 Surface Water Down Stream Kanchki Nadi, Serengding-A Bancine Mines (153.81 ba)	
Mines Status	: Operational	Sampling Procedure	ELES/DOC/SMPL/01	
Period of Analysis	17.03.2025 to 24.03.2025	Sampling Done By Sample Condition	: ELES Pvt, Ltd. : Sealed & Preserved	
		The state of the s	The state of the s	

Discipline: Chemical	oup: Water	Tolerance Limits		
Parameter	Unit	Test Protocol	Result	as per IS 2296-1992 Class C (Island Surface Water
pH (at 24.9 °C)	- 5	IS 3025 (Part-11): 2022	7.18	6,5-8.5
Colour	Harm	15 3025 (Part -4) : 2021	3.6	300
Odour	- (+	IS 3025 (Part-5): 2014	Unobjectionable	
Turbidity	NTU	38:3025 (Part-10)::2023	8.09	-
Total Disselved Solids (TDS)	mg/L	15: 3025 (Part-16): 2023	156	1500
Total Alkalinity (as CaCO ₃)	mg/L	28/3025 (Part-23) / 2023	61.2	
Total Hardness (as CaCO ₃)	mg/L	15 3025 (Part-21): 2019	64.7	1 1
Sulphate (as SO _i)	mg/L	15 3025 (Part-24/Sec1): 2022	9.6	400
Chloride (as Cl)	mg/L	1S 3025 (Part-32): 2019	15.5	600
Fluoride (as F)	mg/L	IS 3025 (Part-60): 2019	9,131	1.5
Nitrate (as NO ₁)	mg/L	APHA 24 [®] Ed 2023, 4500 NO ₅ -B	2.16	50

Page 1 of 4

The Document visited on Ten Regert, to second by the Laboratory contex General Terror and Consistence, only on Company before their in relative colors for the percentages described by the Laboratory color. The national or the Ten Regert refer or relative colors is investigated by the Laboratory or requirement of the percentage of the interpretage of the Laboratory. The Regert amount to repretate the ment of the most the country of the Laboratory. The Regert is find and to published, admitted model any part of the register of the Laboratory. The Regert is find and to published, admitted model for any legislatives indeed to the percentage of the Laboratory. According to the Interpretage of the Laboratory. According to the Interpretage of the Laboratory of the Interpretage of Interpretage of the Interpretage of Interpreta



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA HATIA, RANCHI-ESIDIS (JHARKHAND) GST NO:- 20ANECENTADASA

ENGINEERING SERVICES PVT, LTD

Emeil: <u>info@elespl.co.in</u>. <u>eles.conthi@gmail.com</u> Phane no.: 0661-8290103

Phone no.: 0655-2290103 Website : www.elespl.co.in



TEST REPORT

Test Report No. : ELES/RNC/2025/2059 Report Release Date : 25.03.2025

Work Order No. : 13612312113 Work Order Date : 28.03.2024

ULR No. : TC1358725000002016F

Discipline: Chemical		Group: Wa	ter	Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per IS 2296-1992 Class C (Jaland Surface Water)
Free Residual Chlorine (RFC)	mg/L	18-3025 (Part-26) : 2921	(DL: 0.1)	H
Phenols Compounds (as C ₂ H ₂ OH)	ngil	IS 3025 (Purt-43/Sec1): 2022	8DL (DL: 0.001)	0.005
Calcium (as Ca)	mg/L	15 3025 (Part-40): 2019	16.5	
Discipline : Cher	nical	Gn	oup : Residues	in Water
Ahanamun (as Al)	mg/L	IS 3025 (Par-55's 2003;RA2019)	8DL (DL: 0.02)	-
Arsenic (as As)	mg/L	IS-3025 (Part 37):2022	BDL (DL: 0.005)	0.2
Boson (iis B)	mg/L	15 3025 (Part-57): 2021	BDL (DL: 0.2)	4
Cudmium (us Cd)	mg/L	APHA 24 Ed.2023; 3111B	BDL (DL: 0.903)	0.01
Tetal Chromium (as Cr)	mg/L	APHA 24 [®] Ed.2623; 3111B	BDL (DL: 0.03)	0.05
Copper (as Cu)	mg/L	IS 3025 (Part 42): 2019	BDL (DL: 0.03)	1.5
fron (as Fe)	mg/L	APHA 24" Ed.2023; 31118	0.232	50
Lead (as Ph)	mg/L	APHA 24" Ed.2023; 3111B	BDL (DL: 0.01)	0.2
Mongamuse (as Mn)	mg/L	APHA 24 th Ed.2023; 3111B	BDL (DL: 0.05)	
Mercury (as Hg)	mg/L	f5 3025 (Part-48): 2019	BDL (DL: 0,001)	4
Selinhim (us Se)	mg/L	IS 3025(Part-56): 2019	BDL (DL: 0.01)	(0.05)
Zinic (m. Zn.)	mg/L	APHA 24 ^{re} Ed.2023; 3111B	BDL (DL: 0.1)	15

Page 2 of 4

The Discourse small in Total Region, is because by the Laboratory under Countril Terms and Conditions, only on Company below to precept social absence of the Term Region of the part of the part of the part of the Laboratory only. The information stated on the Term Region of the Section of the Laboratory is the part of the Information of Information of Information of Information of Information of Information Information of Information Informat



PLOT NO-30, MANUSACIVAN ENCLAVE, TUPUDAMA. MATIA, RANCHE-884003 (IHARICHGNO) GST NO:- 20AAECES7E30124

ENGINEERING SERVICES PVT. LTD.

Email: infetticipi,ca.ln. eles.com/hittiameis.com

Phone no.: 0653-2290103 Website: www.elegicas.ln



10-1100

TEST REPORT

Discipline : Chemi	cal	Group: Residue	in Water	Telerance Limits
Parameter	Unit	Test Protocol	Result	au per IS 2296-1992 Class C (Iniant Surface Water)
Cyanide (as CN)	mg/L	APHA 24th Ed. 2023, 4500 CN-E	BDL (DL: 0.012)	0.05
Polymeticar Aromatic Hydrocarbons (PAH)	Jug/L	ELES/GC/SOP/04: 2023	BDL (DL: 0.05)	=
Pesticides				
Alschlor	ngT.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	- *
Atrazine	pg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	#
Butuchler	μg/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	
Chlorpyrigitos	μg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	14
Ethion	pg/t.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	+
Malichice	μg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	#
Methyl parathion	Pg/L	ELES/GC/SOR/01: 2023	BDL (DL: 0.1)	e
Manocrotophos	µgT.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	п
Phorate	μg/1.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	-
Phoente Sulphone	pg/t.	ELES/GC/SOP/01: 2023	BDL (DL= 0.5)	잌
Dieldrin	µg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.01)	4

Page 3 of 4

The Document stand as Tun Report, is insured by the Laboratory under Germal Terror and Conditions, only on Company latest hand in presignment flower. The results shown in the Teel Report refer to relatest only to the presentation does by the Laboratory endy. The information plant on the Teel Report refers the findings from he for Laboratory at the terror of continuous and the individual and the findings from he for open of the information which is presented by the claims. The Report is recommended and problem in the findings from the foreign in the terror in any terror of control ended to provide the information which is abstract prior remove approach of the information. The Report is fall or in part shall not any relate and for any legal actions indeed prior process the house accord from the Management of the Laboratory. The Report is preliminated advertise, and for any legal actions indeed prior process. Any analysis of the fall formation of the Laboratory of the Laboratory of the Laboratory of the complete of the control of any analysis of the fall of the control of the laboratory of the la



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA HATTA, RANCHI-BEHREE DWARKHANDE GST NO:- 26AAEKEKFERDEZA

ENGINEERING SERVICES PVT. LTG

Smoth tribill elevation in elevation they must com

Finne no.: 0651-2290103 Wishabe: www.eingel.co.ln



TEST REPORT

Test Report No.	: ELES/RNC/2025/2059	Report Release Date	: 25.03,2025	
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024	
ULR No.	: TC1358725000002016F		114,414,000,1141,141,1	

Pesticides				Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992 Class C (Inland Surface Water)
Alpha HCH	µg/L	ELES/GC/SOP/02: 2021	HDL: (DL: 0.006)	
Вен ИСН	μ <u>ω</u> 1,	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	2
Delta HCH	µg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	
Gamma HCH (Lindane)	грди.	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	-
Endosulfan (alpha, beta and solphme)	ματ.	ELES/GC/SOP/82: 2623	BDL (DL: 0.05)	-
DDT(o,p and p.p-isomers of DDT) (DDE and DDD)	pgT.	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	-
Discipline: Biolo	rgical.	Gri	up: Water	
Total Coliforn	CFU200 mL	IS 15185: 2021	3.63×10 ³	5000
Escherichiu coli	CFU/306 mL	IS 15185: 2021	1.01×10 ²	-

Remarks; pH & RFC dots at she.

Reviewed by Akash Kumar Quality Manager

****End of Report****

Authorised Signatory Dr. Deependra Kumar Sinha Ph. D. Environmental Engg. Technical Manager

Page 4 of 4

The Discounty street on Text Report, in resent by the Lebitanes's under Current Terror and Conference only in Computer latter head in pro-expensed forms. The results shows to the Test Report refer or relates only to the job tradyon slove by the Laboratory only. The individualism maked we the Test Report reflects the flodings dates by the Laboratory at the time of involvement only and within the laster of when a interception. The Laboratory is required to the laboratory as depreciate for all the reformation or data provided on the report, usuage the information which is provided by the client. The stayort senses he percentaged except in his and any part of the report is not taken not of cronest. without price written approved of the Laboratory. The Report in Bell or to pain staff, on, he published advertory, used for any legal actions unless prior persons but home secured from the Management of the Laboratory. Attaction is drove to the limitation of judyley, componentials and paradiction totals. Any annealyment observable deidenfeature of the contact or appearance of the Test Report to indicated and offendors may be prosecuted to the fedicine orders of the law. All the samples are received for Make that the Date of infraccions of the Total Region. The souther from Regulation bodies are to be reasonal as operated. Amy top of Observations or Unreplayers regarding the Remote shall be about within 1 Mays from the Lieu of Lots Remot splanted listed. (After the rittle period stated believe, we constitute the accepted. The estern Time schedule management in Two Report is in Sticker Securit Affirmation could Mith Only Application, MID, Illicine December Limits LDL, Concer December | Heat



PLOT NO 30, MANSAROVAR ENCLAVE, TURNOMNA HATTA, BANCHE EMDEL (INAMIORAND) (IST NO: 204A0CES7130129

VCINEERING SERVICES PVT, LTD.

Email: info@elespl.co.in , eles.ronchi@gmail.com

Phone op.: 0651-2290103 Website - www.plespi.sn/m

TEST REPORT

Test Report No.	: ELES/RNC/2025/2059	Report Release Date	± 25.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	

CUSTOMER DETAILS		SAMPLE DETAILS		
Castomer Name	: Hindatco Industries Limited : Leburdage, Barkhand-833302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Lexistion of Sample	: ELES/RNC/702S/SW/2190 :15.03.2025 :17.03.2025 : Surface Water : Down Stream : Kanchki Nadi, Sevengday-A Bounite Mines (155.81 ha)	
Mines Stmar	: Operational	Sampling Procedure	(ELES/DOC/SMPE/0)	
Period of Analysis	: 17.03.2025 to 25.03.2025	Sampling Done By Sample Condition	: ELES Pvs. Ltd. : Sealed & Preserved	

Discipline : Chemic	scipline: Chemical Group: Water			Tolorunce Limits
Parameter	Unit	Test Protocol	Result	as per IS 2296-1992 Class C (Inhed Surface Water)
Tritte		APRA 34" Ed.2023, 2160C	NA	-
Anionic Sarfactares (as MBAS)	Jum	APHA 24* EL 2023, 5540-C	BDL (DL: 0.025)	1.0
Mineral Oil*	mg/L	IS 3025 (Part-79):2021 (Classe 6 Infrard Symmosopic Method)	BDL (DL: 0.05)	170

Remarks: L. (*) Parameters are nemourced to other Lab

Reviewed by Alcord Nombr

Quality Manager

****End of Report****

Authorised Signatory Dr. Deependra Kumat Sinha Ph. D. Environmental Engg. Technical Manager

Page 1 of 1

The Decement cased as Test Report, is lessed by the Eubersony under General Terms and Conditions, only on Company later head in presupposed forms. The results agrees as the Tiest Report refer or schape only to the published in dear to the Laboratory undo. The information could set the Tiest Report reflects the Endings done by the Libraries at the time of an elements and women the band of diser's consumer. The Laboratory is responsible for all the information of time provided on the report. expensive information which is provided to the chief. The Report issuant be expenditural except in full and any part of the operation at taken our of content, without price writes approved of the Lebertury. The Report in fall or to pair shall one to path that, advantal, and for now logal dataset prior personant has been expect their the Management of the Laboratory. Assertion of determine of labeling, compounding one productory made, have considered abstract abstract abstract abstract abstract and the creaters or appearance of the Tast Region is untainful and offendary true to processed to the latter account of the few, All the screens are natural few Johns from the third of school trag of the Test Report. The complex tree Regulatory reades are to be returned as executed than from all these contents of Companies to Report about to date within 15th to that the Barr of Test Report Management After the one period word before, no completes will be assumed. The assets Take schools remained to The Report to be 144 care former Admirestative used Not (No. Applicable) 2011 (States Detection) control (Lower Structure) Lient)



PLOT NO-30, MANSAHOVAR ENCLAVE, TUPUDANA HATIA, RANCH-434593 (PIARKHAND) GST NO- 20AAECEFT JULIF

ENGINEERING SERVICES PVT, LYD.

final: info@elessi.co.in. eleszanshi@amail.com Mune no.: 0653-3250703

Phone no.: 0653-2250203 Website . www.elespi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/2060	Report Release Date	: 25.03.2025
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC1358725000002917F		

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	: Hindalco Industries Limited : Lohardaga, Jharkhand-835302	Sample Ref. No. Sampling Data Sample Received Date Type of Sample Source of Sample Locution of Sample	: ELES/RNC/2025/SW/2191 : 15.03.2025 : 17.03.2025 : Surface Water : Up Stream : Screngdag Nadi, Screngdag-A	
Mines Status	; Operational	Sampling Procedure	Baseite Mines (155.81 ha) ELES/DOC/SMPL/01	
Period of Analysis	: 17.03.2025 to 24.03.2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Seeled & Preserved	

Discipline: Chemical		Gr	oup: Water	Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992 Class C (Joinnt Surface Water)
pH (at 24.9 °C)	2.0	IS 3025 (Part 11): 2022	6.71	6.5-8.5
Colour	Hazen	18/3025 (Part +4): 2021	2.0	300
Odour	22	15'3025 (Part-5): 2018	Unobjectionable	#:
Turbidity	NTU	18 3025 (Part-10): 2023	1.93	12
Total Dissolved Solids (TDS)	mg/L	15 3025 (Part-16): 2023	160	1.500
Total Alkalimity (au CaCO ₀)	myL	IS 3025 (Part-23) : 2023	57.1	H
Total Hardiness (no CuCO ₁)	myL	IS:3025 (Pan-21): 2019	68.6	ес
Sulphate (as SO ₄)	mu/L	tS 3025 (Part-24/Sec.)): 2022	7.8	400
Chloride (as CI)	mg/L	1S 3025 (Part-32): 2019	21.3	600
Fluoride (m F)	mg/L	IS 3625 (Pan-60); 2019	0.120	1.5
Narate (m NO ₅)	myī.	APHA 24 [®] Ed 2023, 4500 NO ₁ -B	1.25	50

Page Luf-4

The December stand or Ten Report is most by the Laboratory under Constal Terms and Conditions, only on Conquery latter hand to proceed printed. The makes have been a few for the personal printed from the Laboratory of the England American stands of the Laboratory of the Laboratory of the England American stands of the Laboratory of the England American stands of the Laboratory of the England American stands of the England England American stands of the England E



PLOT NO-30, MANSAROVAN ENCLAVE, TUPUSANA MATIA, RANCHI-BINGOS (WARKHAND) GST NO: 20AAECEYT23D23K

ENGINEERING SERVICES PVY. LTD.

Email infe@elegi.co.ht. eles.conchi@email.com Phore as.: 0613-7250100

Phone no.: 0652-2250203 Website ... www.elegit.co.in



TEST REPORT

Test Report No. : ELES/RNC/2025/2060 Report Release Date : 25.03.2025

Work Order No. : 13612312113 Work Order Date : 28.03.2024

ULR No. : TC1358725000002017F

Discipline : Chemical		Group: Wa	ter	Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992 Class C (Intané Serface Water
Free Residual Chlorine (RFC)	mg/L	IS 3025 (Part-26) : 2021	(DL: 0.1)	-
Phenols Compounds (us C ₀ H ₂ OH)	mg/L	(\$ 3025 (Part-43/Sect.): 2021	BDL (DL: 0.001)	0.005
Colcium (os Ca)	mg/L	15 3025 (Part-40): 2819	18.0	177
Discipline : Cher	nical	Gr	oup : Residues	in Water
Aluminum (as Al)	mg/L	IS 3025 (Part-55); 2003;RA2019	BDL (DL: 0.02)	4
Arsenic (m As)	mgL	IS 3025 (Part 37):2022	BDL (DL: 0.005)	0.2
Borum (as: B)	ngī.	1S 3025 (Part-57): 2021	BDL (DL: 0.2)	ā
Cadmium (as Cd)	mg/L	APEA 24* Ed.2023; 3111B	BDL (DL: 0.003)	0.01
Tend Chromium (us Cr)	meL	APHA 24" Ed.2023; 31118	BDL (DL: 0.03)	0.125
Copper (as Cu)	mg/L	4S 3035 (Part 42): 2019	BDL. (DL: 0.03)	1.5
lmn (as Fe)	mg-T.	APEIA 24 th Fid.2023; 311111	0.285	50
Lead (so Pb)	mg/L	APHA 24 th Ed.2023; 3111B	(DL: 0.01)	0.1
Manganese (m Mu)	Typn	APHA 24 th Ed.2623; 3111B	BDL (DL: 0.05)	9 4
Moreury (= Hg)	mg/L	15 3025 (Part-48): 2019	BDL (DL: 0.001)	<u>₹</u>
Selenium (as Se)	mg/L	IS 3025(Part-56): 2019	BDL: (DL: 0.01)	0.05
Zinc (as Zn)	mg/L	APHA 24 ⁰ Ed.2023; 3111B	BDL. (DL: 0.1)	15

Page 2 of 4

The Decement stand in Test Report, is second by the Laboratory under General Terror and Completes, with an Company state in provepanced linear. The results shown in the Test Report refer or indicate only in the polarisation into the laboratory refer. The addressment stand on the Test Report refers or indicate only in the polarisation which is provided by the Laboratory in requirement of the foreign does by the Laboratory in the report of the results are not of the maximum or that purched so the recognition which is provided by the claim. The Report is dependent of copied by the angle and provided by the standard provided by the claim of the polarisation of the report of the foreign provided by the claim of the laboratory. The Report is interested by published, and provided in the Vibraganess of the Laboratory. Approvided in the the Indiana, and provided by the Report of the Laboratory is approximate the published of the angle of the Laboratory of the Report is interested and discount of the Indiana, and the samples are removed in Reference that of the laboratory of the Indiana, and the samples are removed in Reference the Date of retineer some of the Test Report is interested and the complete and the laboratory of the samples are removed in Reports that the samples are removed in Reports of the Reports of the Indiana, the samples are removed in Reports of the Reports of the Report of the Report of the United Standards and before, no completed with the analysis of the Reports of the Report of the Report of the United Standards of the Reports of the Report of the Report of the United Standards of the Report of the Report of the Reports of the Report of the



PLOT NO-30, MANUAROVAR ENCLAVE, TUPUDANA HATIA, RANCHI-8340EE (HAMEHAND) GET NO:- 2004/ECEP713/0124

ENGINEERING SERVICES PVT. LTD.

Email: enfogseerables in email: construit amedicam

Phone no.: 8651-2290181 Websitz : www.elegal.co.in



TEST REPORT

Test Report No. : ELES/RNC/2025/2060 Report Roleuse Date : 25.03.2025

Work Order No. : 13612312113 Work Order Date : 28.03.2024

ULR No. : TC1358725800002017F

Discipline: Chemi	cul	Group: Residue	in Water	Tulermore Limits
Parameter Unit		Test Protocol	Result	as per 18 2296-1992 Class C Onland Serface Waters
Cyanide (m CN)	mg/L	APEA 24 th Ed.2023, 4500 CN-E	BDL (DL: 0.012)	0.05
Polynuclear Aromatic Hydrocarbons (PAH)	pg/L	ELES/GC/SOP/04: 2023	(DL: 0.05)	-
Pesticides			11-11000-001	
Alachior	igit.	ELES/GC/SOP/01: 2023	IDL: (DL: 0.5)	
Atrazine	ag/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	2
Butuchlor	ag/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	-
Chlorpyriphos	Juga.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	- 8
Ethion	Pape	ELES/GC/50P/01: 2023	BDL (DL: 0.5)	H
Maluthinn	ug/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	
Methyl parathion	ag/L	ELES/GO/SOP/01: 2023	BDL (DL: 0.1)	2
Маностогорьов	µg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	
Phorate	ag/L	ELES/GC/SOP/01: 2021	BDL (DL: 0.5)	
Phorate Sulphone	Лур	ELES/GC/SOP/01/2023	BDL (DL: 0.5)	8
Dieldrin	apři.	ELES/GC/5OP/02: 2023	BD1. (DL: 0.61)	-

Page 3 of 4

The (function send is first taper, is send by the Laboratory wider General Torse and Combines, only on Company later than in pro-approach forms. The results shown in the Tors Report of the contract shown in the Tors Report of the contract shown in the Tors Report of the physical shown by the Laboratory of the provided by the Laboratory of the contract in the Tors Report of the physical soft in the contract in the third contract in the physical soft in the contract in the physical soft in the contract in the physical soft in the contract


PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA HATTA, RANCHE-EMPER (SHARKKAND) GST NO: 20AAECESTLEDEZ4

ENGINEERING SERVICES PVT. LTD.

Wicholte - www.eleust.co.in

Email: info@cicust.co.m. cicu.conchi@gmail.com Phone no. 0651-2290203



TEST REPORT

Test Report No.	: ELES/RNC/2025/2060	Report Release Date	: 25.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024	
ULR No.	: TC1358725000002017F		-11/200-04180-011	

Pesticides				Tolerance Limits
Parameter	Unit	Test Protocol	Result	an per 15 1296-1991 Closs C (Intend Surface Water)
Alpha HCH	μg/L,	ELES/GC/SOP/02: 2023	BDL: (DL: 0.006)	<u> </u>
Betu HCH	μg/L,	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	Ħ
Delta HCH	Луц.	ELES/GC/SOP/02: 2023	BDL: 0.02)	(+)
Gamma HCH (Lindane)	Jan	ELES/GC/SOP/02: 2021	BDL (DL: 0.02)	-
Endosulfan (alpha, beta and sulphan)	µg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	
DDT(e.p.sec p.p-isomers of DDT) (DDE and DDD)	μg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	- 4
Discipline: Biole	gical:	Gri	up: Water	
Tetal Collform	CFU/100 mt.	15 15185: 2921	3.30×10 ⁴	5000
Escherichia cult	CFLV100 mL	IS 15185: 2021	2.72×10	

Remarks: pill & RFC done at size.

Reviewed by Quality Manager

****End of Report****

Authorised Signatory Dr. Deependra Kumar Sinha Ph. D. Environmental Engg.

Technical Manager

Page 4 of 4

The Countries stated as I are Report, in proceed to the Labrature under General Terms and Combiners, such on Company terms band in you-approved factors. The countries shown as the Test Report of the contract purply to the cut-markets done to the Laboratory only. The inflammation stand on the Test Report addeds the facings again by the Laboratory of the corp of proposed cuts and within the location of charge a management. The Laboratory is compressible for all the information of data provided on the report, except the information which is provided by the claim. The Report context is reproduced covers in fell and are part of the expert to but taken and of potents. without print written approved of the Laboratory. The Report in Editor is part shall not be published, advertise, send the sety legal actions write a prior permission becomes scared from the blangement of the Lithogramy. Amount to down to the lithings of lightly, companies and jurisdiction loans. Any counterpart allowing A fabilitation of the consens or appearance of the Tabilitapent is indepthil and offenders may be presented to the fability obtain of the law. All the complex are consisted for States here the Day of educations of the Iras Report. The natural from Regulators troub to the minute to operated. Any topic of Observations of Completion regarding the Neports chall be done within 15 days from the Date of Tool Report prime Rhound. After the store period stand before, no completes well be incorporal. The 1800; The schools transpord to Dec Super is a 2-though Letter. (Dries letter until 3/A (Not Applicable) (IDI, (Below December Letter) LIR. (Lower December)



PLOT NO-RO, MAINSAROVAR ENCLAVE, TURUDANA HATIA, RANCHI-BURDO (DIARIOIANDE GET NO - 2014/CERTERDEN

VGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in , eles.ranchi@gmail.com Phone no.: 0651-2290103

Website: www.elespl.co.in

TEST REPORT

Test Report No.	: ELES/RNC/2025/2060	Report Release Date	: 25.03.2025	
Work Order No.	13612312113	Work Order Date	: 28.93.2024	

CUSTOMER DET.	AILS	SAMPLE DETAILS		
Customer Name.	: Hindules Industries Limited : Lohanlage, Jharkhand-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNU/2025/SW/2191 15:01:2025 17:03:2025 Surface Water Up Stream Serengdag Nadi, Serengdag-A Baucite Mines (155:81 ha)	
More Stone	: Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	: 17.03.2025 to 25.03.2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved	

Discipline: Chemical		Gro	op: Water	Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 18 1296-1992 Clava C (Intand Surface Water)
Tanto	2.0	APHA 24* Ed,2023, 2160C	NA	
Anionic Surfactores (as MBAS)	mg/L	APHA 24th Ed 2023, 5540-C	BDL (DL: 0.025)	1.0
Mingral Oil*	Jam	IS 3025 (Part-39):2021 (Classe 6 Inforced Specimscopic Method)	HDL (DL: 0.05)	383

Remarks: L (*) Parameters are neconneed to other Lab

Reviewed by Akirah Kumar

Quality Manager

*****End of Report****

Authorised Signature Dr. Deependra Kumar tiinha Ph. D. Environmental Engg.

Technical Manager

Page 1 of 1

The Decement parad on Test Supply, to describ to the Laboratory ander General Terms and Conditions, such on Company hear band to prove approved forces. The weather down to the Test Report rate to relays only by the publicatives true by the Lebesguy only. The information materials with Tax Report raffic in the Budget from by the Laboratory at the time of anytherment orby and either the inext of obsert a community. The Laboratory is approximate for all this accomment or then percented on the report. aways for information which is pressing to the client. The Report parent by reproduced around as find and any part of the region is not subject that of content, without prior ertion agrees of the Laborary. The Region is full or in part shall on the particular salvague, shall for any legal actions achieve prior provision has been increased from the Management of the Laboratory Alexandria Survey Sachinstance of English, acaptempters and paralleless received Any attachment character & Welligian of Securities or appearant of the You Aspect is activable and afficiates that the promoting for the follow count of the face. All the samples are received for Milaton from the Disc of committees of the Text Report. The purplet lives Regulatory bedus on to be returned as exercised. Any type of Observations or Completion regarding the Reports of the best for the completion of does with Albert the tre flow of fast force of two disease. After the tree point should be for the pregions will be complete. The corne Time when his intervent will Total April in the New York of the Commission and NA (No Agriculta) 2001 (Notes Excess Long LOL (Love Descript Long)



PLOT NO-30, MANSAROVAN ENCLAVE, TUPUNIANA MATIA, RANCHI-BRIEBI (MARKHAND) GST NO:- 304AETERTI3DIZA

ENGINEERING SERVICES PVT. LTD.

Email: info@eleipl.co.in. eler.ranchi@amail.com Phone no.: 0651-2290:100

Phone na.: 0651-2290:103 Website : www.elespi.co.iv



TEST REPORT

Test Report No.	: ELES/RNC/2025/2061	Report Release Date	: 25.83.2925
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	TC1358725000002018F		

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name Address:	Hindulco Industries Limited Lohardaga, Barkhand-835392	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Louzing of Sample	ELES/RNC/2025/SW/2192 : 15,03,2025 : 17,03,2025 : Surface Water : Down Striam : Screngilag Nadi, Screngilag-/ Bauxite Mices (155,81 ha)	
Mines Status	Operational	Sampling Procedure	: ELES/DOC/SMPL/bi	
Period of Analysis	: 17.03.2025 to 24.03.2025	Sampling Done By Sample Condition	: ELES 9vs. Ltd. : Sealed & Preserved	

Discipline: Chemical		Gr	oup : Water	Tolerance Limits
Parameter	Unit Test Protocol		Result	as per 18 2296-1992 Class C Unland Sector Water)
pH (m 34.9°C)		15 3025 (Part-11) : 2022	6,94	6.3-8.5
Colour	Huen	15 3025 (Part -4) : 2021	2.2	300
Odour		IS 3025 (Part-5) 1 2018	Umobjectionable	+
Turbidity	NEU	IS 3025 (Part-10): 2023	1.70	E-1
Total Disselved Solids (TDS)	mg/L	15 3025 (Part-16): 2023	168	1500
Total Alkalinity (as CaCO ₁)	mg/L	15 3025 (Part-23) : 2023	63.2	-
Total Handoess (us CaCO ₁)	mg/L	JS 3025 (Part-21); 2019	70.5	+:
Sulphare (as SO ₄)	Jugar	1S 3025 (Part-24/Sec1): 2022	8.2	400
Chleride (as CT)	mg/L	1S 3025 (Part-32): 2019	19.4	600
Phoride (as F)	mg/L	IS 3025 (Pan-60): 2019	0.124	13
Nitrate (as NO ₀)	mg/L	APHA 24 th Ed.2023, 4500 NO ₅ -B	1.72	50

Page 1 of 4

The Decement served is from Region is bound by the University under Commit Toms and Conditions, only the Company both hard to pre-approach herein. The modes some for less Region active to take the problem of the less and the l



PLOT NO-30, MANSAROVAN ENCLAVE, FUPUDUNA HATIA, RANCHI-834003 (IMARKHANDI GST NO-304AECEST13D128

ENGINEERING SERVICES PVT. LTD.

Emrit info@elerat.com, eler.conchi@amail.com

Phone ps.: 0651-2250105 Website: www.elespl.co.in



TEST REPORT

Discipline: Chemical	100	Group: Wa	ter	Tolerance Limits
Parameter	Unit	Test Protocul	Result	as par 15 1296-1992 Class C (Inlané Surface Water
Free Residus) Chlorine (RFC)	mg/L	15 3025 (Part-26) : 2021	(DL: 0.1)	H
Phimols Compounds (as C ₄ H ₂ OH)	mp/t.	15 3025 (Part-43/Sec1): 2022	BDL (DL: 0.001)	0.005
Calcium (as Ca)	mg/L	15 3025 (Part-40): 2019	18.8	12
Discipline : Cher	nical	Gre	sup : Residues	in Water
Aluminum (as Al)	mg1.	(S 3025 (Part-55): 2003;RA2019	BDL (DL: 8.02)	in the second
Arsenie (as An)	mg/L	IS 3025 (Part 37):2022	BDL (DL: 0.005)	0.2
Boron (as B)	mg/t.	8S 3025 (Part-57): 2021	BDL (DL: 0.2)	2
Cadmium (as Cd)	mg/L	APHA 24th Ed.2023; 3111B	BDL (DL: 0,003)	10.01
Total Chromium (as Cr)	mg/L	APBA:24° Ed:2023; 3111B	BDL: (DL: 0.03)	0.05
Copper (as Cu)	Lym	IS 3025 (Part 42): 2019	BDL (DL: 0.03)	1.5
lion (as Fe)	mg/L	APHA 24th Ed.2023; 3411B	0.178	50
Leuf (as Pb)	mg/L	APHA 24° Ed.2023; 3111B	BDL (DL: 0.01)	0.1
Manganese (as Mn)	mg/L	APHA 24th Ed.2023; 3111B	BDL (DL: 0.05)	-
Mercury (as Hg)	mg/L	IS 3025 (Part-48): 2019	BDL: (DL: 0.001)	-
Selenium (as Se)	mg/L	IS 3025(Part-56): 2019	BD1. (DL: 6.01)	20.0
Zinc (us Zn)	mg/L	APHA 34 th 8id 2023; 3111B	BD1. (DL: 9.1)	15

Page 2 of 4

The Department about in Expert refer or retain only to the Laboratory such referred Terror and Constitution, only on Contrary letter hand in prosperated forms. The retains of the last Expert refer or retains only to the physical date to the Laboratory and the Expert refer or retains and the referred to the Expert refer to th



PLOT NO-30, MANSAROWAH ENCLAVE, TUHUDANA HATIA, RANCHI 834863 (MARKHANO) GST NO:- 20A46CEHT13D1ZA

ENGINEERING SERVICES PVT. LTD.

tmst/ infollielesel.ce.in. electroschilifomeil.com

Phone ox.: 0651-2290101 Website: www.ejespt.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/2061	Report Roleuse Date	± 25.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03,2024	
DLR No.	+TC1358725000007918F			-

Discipline : Chenn	ciil	Group: Residue	in Water	Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 18 2296-1992 Class C (Inland Sorface Water)
Cyunido (nr CN)	mg/L	APHA 24 th Ed.2023, 4500 CN-E	BDL: (DL: 0.012)	0.05
Pelynuclear Aremutic Hydrocarbons (PAH)	Fgq.	ELES/GC/SOP/04: 2023	BDL, (DL: 0.05)	H
Pesticides				
Alachior	pgfl.	ELES/GC/SOP/01: 2023	BDL (DL: 0.3)	
Atrazine	pg/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	
Batachlor	Pan	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	FA
Chlorpyriphos	Pg4.	ELES/GC/SOP/01: 2023	BDL, (DL: 0.5)	
Exbiou	Lgu	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	j.
Malathion	ng/L	ELES/GC/SOP/01: 2023	BDL (DL: 6.5)	
Methyl parathion	μg/L.	ELES/GC/SOP/01: 2023	BDL (DL: 0.1)	1
Monocrotophos.	µg/L	ELES/GC/SOP/01: 2021	(DL: 0.5)	¥
Phonite	μg/L	ELES/GC/SOF/01: 2023	BDL (DL: 0.5)	H
Phonate Sulphone	pgd.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	-
Dieldrin :	pg-L	ELES/GC/SOP/02: 2023	(DL: 0.01)	7

Page 3 of 4

The Decement would be less Report to be easily the Laboratory wider formula Terms and Combinates with the Company before their prosperoved forms. The residuation in the Superior of the residuation only to the product of the terms of the Superior of S



PLOT NO-30, MANGAROWAY ENGLAVE, TUPUDAWA NATIA, RONCHI-ESAUDI (INGRIGIANO) GST NO-20AMECESTIZIOZIA

ENGINEERING SERVICES PVT. LTD.

Ernall: infrafficienal.co.in. eles.co.shifflameil.com Phone es.: 0651-3290101

Website www.elegsl.co.in



TO MAKE

TEST REPORT

ULD No.	+ TC1558725000002018F			
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
Test Report No.	: ELES/RNC/2025/2061	Report Release Date	: 25.03.2025	

Pesticides				Tolerusee Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992 Class C (Inford Sorface Water
Alphs HCH	1994.	ELES/GC/SOP/02: 2023	BDL (DL: 0.006)	artine - agili - iliya
Вета НСН	μg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	2
Delta HCH	pg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	112
Gomma HCH (Lindane)	ug/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	+
Endosulfim (alpha, beta and sulphate)	ug/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	
DDT(o,p and p.p-isomers of DDT) (DDE and DDD)	µg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	2
Discipline: Biole	gical	Gre	oup: Water	
Total Colliform	CFU/100 mL	15 15185: 2021	2.27×10	5800
Escherichia coli	CFU/100 mL	15 15185; 2021	1.22×10 ²	2.

Remarks: pH & IU/C done it site.

Reviewed by Charles Manager

****End of Reportance

Authorised Signatury
Dr. Despendra Kumar Sinha
Ph. D. Environmental Engg.

Technical Manager

Page 4 of 4

The Decimination is that Report, is installed by the Laborators under trained forms and Conditions, only on Company being hand at pro-approved former. The results down to the last Report reflects the findings done by the Laboratory and the last Report reflects the findings done by the Laboratory at the time of decidence; and welfare the last report of the advantage or that provided or the report to the findings of the laboratory of the report or not taken out of content, attack provided in the report of the advantage or that provided or the report of the laboratory. The Report content content countries approved of the laboratory. The Report is abid on the partitional advantage laboratory legislative solution provided of the laboratory. Another in date or year shall not be partitional advantage laboratory to the laboratory of the



PLOT NO: 30, MANSAROVAR ENCLAVE, TUPUDANA MATIA, RANCHI-BHOSE (MARRHAND) GST NO: - 2014FENTITIOEN

ENGINEERING SERVICES PVT. LTD.

Email: info@elespl.co.in , eles ranchi@amail.com Phone ma.: 0653-2290103

Phone no.: 0651-2290103 Website: www.eissif.co.in

TEST REPORT

Test Report No.	± ELES/RNC/2025/2061	Report Release Date	: 25.03.3025	
Work Order No.	: 13612312113	Work Order Date	: 28.65.2024	

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	: Linhardagu, Jhackhund-835362	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: ELES/RNC/2025/SW/2102 : 15.03.2025 : 17.03,2025 : Surface Water : Down Stream : Severaging Nadi, Screengday-A Bauxitz Mines (155.81 ha)
Mines States	Operational	Sampling Procedure	: ELES/DOC/SMPL/01
Period of Analysis	: 17.03,2075 to 25.03,2025	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Snaled & Preserved

Discipline: Chemical		Group: Water		Tolerance Limits
Parameter	Unit	Test Protocol	Result	ns per ES 22%-1992 Class C (Intend Sorface Water)
Taxe	(20)	APHA 24" Ed.2023, 2160C	N/A	7.5
Anionic Sorfactums (as MBAS)	mg/L	APHA 24" Ed.2023, 5540-C	BDL (DL: 0.025)	1.0
Mineral Od*	mg/L	IS 3025 (Part-30);2021 (Class 6 Infamil Igamissopic Method)	BDL (DL: 0.05)	(E)

Remarks: L (*) Parameters are outsourced to other Lah

Reviewed by Alexh Kumar Quality Manager

****End of Report****

Authorised Signatory
Dr. Deependra Kumar Sinha
Ph. D. Environmental Engly
Technical Manager

Fuge 1 of 1

The Harmonia string or Ten Report is travel by the Laborator while General Town and Cordenous, only be Company Icans hand is no appeared for the remains about in the Lett Report relies only in the publishes done by the Laboratory left. The information ment on the Report relies the individual done to the Laboratory in the laboratory is required to the Tent Report relies to the individual control to the Laboratory. The Laboratory is required to the information or this privately great to the control to the report of the report is the individual control to the report of the report is not whole to the formation of the Report of the Laboratory. The Expert control to the Report of the Laboratory. The Expert is formation in relation of fairlies, compared to the fairlies of the Report of the Report is schooled and effective report of the fairlies of the Report of the Report is schooled and effective report of the fairlies of the Report of the Report is schooled and effective report of the fairlies of the Report of the



PLOT NO-30, MANSAROVAR ENCLAVE, TUPUDAMA HATIA, RANCHI-BRIDGO DHARKHANDI GST NO. 200ASCENTURDIZA

ENGINEERING SERVICES PVT. LTD.

firmal: info@vieusi.co.hr. nico.conshi@gmeil.com

Phone no.; 0653-72307.03 Websile / www.ciespi.co./n



TEST REPORT

: 25.03.2025 : ELES/RNC/2025/2062 Report Release Date Test Report No. : 28.63.2624 Work Order Date : 13612312113 Work Order No.

: TC1358725000002019F UER No.

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name Address	: Hindalco Industries Limited : Lohardaga, Jharldund-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2025/SW/2193 15:03:2025 17:03:2025 Surface Water Spring Water Tengra Gurha, Serengolog-A Bauxita Mine (155,81ha)
Mines Status	: Operational:	Sampling Procedure	: ELES/DOC/SMPL/0)
Period of Analysis	: 17.03.2023 to 24.03.2025	Sampling Done By Sample Condition	Sealed & Preserved

Discipline : Chemical		Gre	up : Water	Tolerance Limits
Parameter	Loit	Test Protocul	Result	us per IS 2296-1992 Class C (Inland Surface Water
pH (ut 24.9 °C)		1S 3025 (Part-11): 2022	6.51	6.5-8.5
Colour	Hazen	IS 3025 (Part -4) = 2021	1.8	300
Odosz	2	3S 3025 (Part 5) : 2018	Unobjectionable	**
Turbidity	NTU	1S 3025 (Part-10): 2023	1.16	
Total Disnolved Solids (TDS)	mgT.	IS 3025 (Pan-16): 2023	48.0	1500
Total Alkalinity (as CaCDa)	.Pgm	IS 3025 (Part-23) : 2023	10.2	/2
Total Hardness (as CuCO ₁)	mg/L	IS 3025 (Part-21): 2019	15.6	171
Sulphine (as SO ₄)	mg/L	15 3025 (Part-24/Sec1): 2022	5.2	400
Chimide (as CI)	mg/L	15.3025 (Part-72): 2919	9,7	600
Fluoride (ns F)	my/L	15 3025 (Pun-60): 2019	BDL (DL: 0.1)	1.5
Nitrate (as NO ₃)	mgL	APHA 24 th fid 2023, 4500 NO ₁ -B	BDL (DL: 0.5)	50

Page 1 of 4

The Steamen: unto five Test Report, is bessel by the Laboratory under General Terror and Constitutes, order on Computer Jense band in pre-approved forms. The models shows his the Top Separat radio or ratings only to the percentage done by the Laboratory rady. The softeneous states are the Top Separat radio or the Top Separation of the Se Lideratory at the same of irreducerant coty and write the laster of stant a autocorrene. The following or impossible for all the incommence or data provided for the segion, except the retiremakes retact to principal by the cries. The Supert Lauren in reproduced except in this and any part of the report to task taken pad of content. without your version approved of the Laboratory. The Separt in full or regard shall not be published, adversion, send the any legal actions action price partitions has been operated from the bilineapproper of the Laboratory Allegation to Square, to the Bernarius of Sarbday, companying and particle in these Any scandiarroad alternation & felaforate of the annual or opposituate of the find Report is uniqueful and office over the presented to the following every of the law, the samples are network to Stations from the Limit of nelconstraint of the Last Report. The purples from Registery feature at his estated on opening. Any type of Officeworkers of Computation tempolicy the Reports shall be done within theses, burn the Day of Text August recognitioned. After the time posted open before, he complicate well by assigned, the pairs Tare whouldo continued in Tex Super is in Salaran formal Abbreviation south N.A. That Application, DUA, (Salara Detection Lines) LTM therein Salaran Lent (c)



PLOT NO-ME MANSAROVAN ENCLAVE, TUPUDAWA MATIA, RANCHE-REGOGE (IMARKHAND) GST NO.- 20AAECER7120124

ENGINEERING SERVICES PVT. LTD.

final job Being co.in. nics zouchill growt con-

Phone no.: 06113-7290201 Websitz : www.elespi.co.in



TEST REPORT

125,03,2025 : ELES/RNC/2025/2062 Report Release Date Test Report No. : 28.03.2024 Work Order Date : 13612312113 Work Order No. : TC1358725000002019F ULR No.

Discipline : Chemical		Group : Wat	ter	Tolerance Limits
Parameter	Loit	Test Protocol	Result	as per 15 2296-1992 Class C (Inland Surface Water
ree Residual Chlorine (RFC)	mg/L	(S 3025 (Part-26) : 2021	BDL (DL: 0.1))±1
Phonels Compounds as C.H.OH)	mg/L	IS 3025 (Part-43/Sec1): 3022	BDL (DL: 0.001)	0.005
Calcium (ns Cn)	mg/L	IS 3025 (Part-40); 2019	4.7	
Discipline: Chen	favir	Gre	oup: Residues	in Water
Aluminum (as Al)	mg/L	15 3025 (Part-55): 2003.RA2019	BDL (DL: 0.62)	-
Arsenie (us As)	mg/L	IS 3025 (Part 37):2022	BDL (DL: 0.005)	0.2
Becom (an B)	mg/L	IS 3025 (Pan-57): 2021	BDL (DL: 0.2)	7.6
Cadmium (as Cd)	mg/L	APHA 24 ⁸ Ed.2023; 3111B	BDL (DL:: 0.003)	0.01
Total Chromium (as Cr)	mg/L	APHA 21" Ed 2923; 31118	BDL (DL: 0.03)	0.05
Copper (as Cu)	Tyn	15 3025 (Part 42): 2019	BDL (DL: 0.63)	1.5
Inin (as Fa)	mg/L	APHA 24 th Fd 2023; 3111B	0,203	50
Lead (as Pb)	mg/L	APHA 24 th Ed.2023; 3111B	BD1. (DL: 0.01)	0.1
Manganese (as Mn)	mg/L	APHA 24 ⁸ Ed.2023; 3111B	BDL (DL: 0.05)	2
Mercury (as Hg)	mgT.	IS 3025 (Part-IS): 2019	BDL (DL: 0.001)	#
Selenium (nx Sc)	mg/L	IS 3025(Purt-56): 2019	BDL: (DL: 0.01)	0.05
Zinc (as Zu)	mg/L	APHA 24 th Ed 2023; 3111B	BDL (DL: 0.1)	15

Page 2 of 4

The Electronic atomic or Tay Report, is second by the Laboratory under Cleaned Tomas and Conditions, believe the Company inter found to pre-approved forces. The results of some in the Line Report in the or relater only to the jet interpretation by the Laboratory only. The supercuries stated on the Last Hayrer reflects the findings disas by the Libraries, at the time of printeness such and rethness between the departs managines. The Constraints in the properties of the printeness report, except the information relicals to provided by the client. The Report Assess has reproduced except in fall and any part of the report to not taken our of content. will see provinces appeared of the Labourery. The Report on fulfor in party shall not the politicistical, advertise, used for any legal necessive print permissions has been priested from the Management of the Lancestony Asteriors is describe the Instance of Sabring, compensation and puriodicion insect. Any promises of described for (designation of the country or applicances of the Test Report is autorite and offender may be promoted to the followers and the ine. All the surephoses managed for Heavy down the Date of referencement the Lost Report. The complex trees Augustums in their new in he attracts an operation. Any type of Observations or Complemen regarding the Reports shall be done within 15days from the Date of Tox Report relaxabilities; After the time parted report refer to a company the manager of the Reports shall be done within 15days from the Date of Tox Report relaxabilities; price Tree schools operated in Ton Report is in Missas Server. Abbreviators and NIA (Not Applicable). SCR. (Basic Colorina Limit) LDE, (Liver Depotes



PLOT NO-TO, MANSAROVAR ENCLAVE, TUPUDANA HATIA, RANCHI-BUAGOS DHARRHANDI GST NO: 20AAECES713D12#

ENGINEERING SERVICES PVT. LTD.

Email: infrafferiengs.co.in. etex-canabi@gmail.com Phone on: 0612-2290101 Website convenedagat co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/2062	Report Release Date	: 25.03.2015
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	±TC1358725000062019F		

Discipline : Chemical		Group : Residues	in Water	Tolerunce Limits
Parameter	Unit	Test Protocol	Result	ov per 15 2296-1992 Class C (Infand Sarface Water)
Cyunide (as CN)	mg/L	APEIA 24th Ed. 2023, 4500 CN-E	BDL (DL: 0.912)	0.05
Polynucieur Aromatic Hydrocarbons (PAH)	μg/L	ELES/GC/SOP/04: 2023	BDL (DL; 6,05)	*
Pesticides				
Alushlor	μg/L.	ELES/GC/SOP/01: 2023	(DL: 0.5)	-
America	µg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	-
Bunachilor	µg/L	ELES/GC/SOP/01: 2023	BDL, (DL: 0.5)	-
Chlopyriphos	μg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	(#)
Ethion	pg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	177.
Malarhion	pg/L	ELES/GC/SCP/01: 2023	BDL (DL: 0.5)	121
Methyl parathion	jąg/L	ELES/GC/SOP/01: 2023	(DL: 0.1)	19:
Monocratophes	pg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	-
Phorate	mg/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	-
Phorate Suiphone	μg/L	ELES-GC/SOP/01: 2023	80L (DL: 0.5)	-
Dieldrin	Park	HLES/GC/SOP/02: 2023	BDL (DL: 0.01)	

Page 3 of 4

The December smoother Eye Report, is record by the Laborator under General Torres and Conditions, only on Company brain hand in pro-approved forms. The results shows in the Total Report action or related units to the just transfers done by the Laboratory cody. The authorization stated on the Total Report suffects the findings done by the Laboratory at the tiple of translateness rate and within the break of allow's termination. The Calendary is companied for all the information or date provided for the report, except the information which is provided by the state. The Report cases he remodered except in full and any part of the report is not taken one of assistant. without price increasing agreement of the Carboratory. The Report in full or in part that I can be published, advantage, and for any legal accessor access price personage, has been second from the bitracycones of the Laboratory, Atlantics is described to be furnished of behing, a responsible well particular to second of second of decisions of behing, a responsible well particular to second of second of the bitracy of behing the second of the bitracy of Takisfactions of the present or appearance of the Test Report is understall and offenders may be presented to the father extent of the law. All the complex we expende to Midway more the Date of networks at other Levi Report. The menutar from Regulatory funds are to be recovered an operation. Any type of Observations or Comptaints requesting the Reports shall be done within 15 days from the Date of Ten Report relevand to such that the time period states believe, we complaint well be accepted. The print Time actuable recovered in Tou Report is to Different former. Administrational 1610, Dies oppositely. BOX, (Bellew Detection County LDL (Corner Detection).



PEOT NO-30, MANSAROVAR ENCLAVE, TUPUDANA HATIA, KANCH-834001 (MARICHAND) GST NO-200AECEVIJSDIZB

ENGINEERING SERVICES PVT. LTD.

Fruit infull ciesal as in cles constributed and Plane to: 0653-7250103

Wodults: www.elegal.co.ln



TEST REPORT

Test Report No.	: ELES/RNC/2025/2062	Report Release Date	; 25.63.2025	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULILNo.	: TC135872500002019F	11		

Pesticides				Tolorance Limits
Parameter	Unit	Test Protocol	Result	es per 15-2296-1992 Class C (Inland Surface Water)
Aipha HCH	µg/L	ELES/GC/SOP/02: 2023	BDL: (DL: 0.006)	
Beta HCH	μş:L	ELES/GC/SQP/02: 2023	BDL. (DL: 0.02)	-
Delta HCH	μg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	#3
Gamma HCH (Lindanc)	ug/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	597
Endosulfan (sipha, beta and sulphate)	Fgu	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	925
DDT(c.p and p.p-isomers of DDT) (DDE and DDD)	ρ <u>ά</u> /L	ELES/GC/SOP/02: 2923	(DL: 0.05)	
THE SECRETARY OF THE PARTY OF T	igical	Gr	oup: Water	
Total Collector	CFLI/100 mL	IS 15185, 2021	3.68×10 ²	5000
Excherichta call	CFU/100 ml.	IS 15185; 2021	BDL (DL: 1.0)	+

Remarks: pH & JUFC done at nits.

Reviewed by Abath Kamaz Quarry Manager

****End of Report***

Authorised Signatory

Dr. Deependra Kumur Sinha Ph. D. Environmental Engg. Technical Manager

Page # of 4

The December state is the Report of the second by the Laboratory under Lighest's Terms and Conditions, only on Company inter hand in propagation forms, The conditions on the Tast Report referes the Haddays done by the Laboratory of the International Second Seco



PLOT NO-3E, MANSAROVAT ENCLAVE, TUPUDANA NATIR, ARNON-ESAGOS (HARRHAMO) EST NO-36ARCCYPTSOISM

ENGINEERING SERVICES PVT. LTD.

Email: Info@elespl.co.in , eles.ranchi@gmail.com

Phone no.: 0651-2290103 Watsite: www.elespf.co.in

TEST REPORT

Test Report No.	: ELES/RNC/2025/2062	Report Release Date	25.03.2025	
Work Order No.	13612312113	Work Order Date	: 28.03.2024	

CUSTOMER DET	AUS	SAMPLE DETAILS		
Customer Name	: Hinduico Industrien Limited : Lahardaga, Frankhand-835362	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2025/SW/2193 15:03:2025 17:03:2025 Surface Water Spring Water Tengra Garha, Savengdag-A Bauxite Mine (155:81hu)	
Mines Stutus	Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	: 17.03.2025 to 25.03.2025	Sampling Done By Sample Condition	ELES Pvt. Ltd. Scaled & Preserved	

Discipline: Chemic	at:	Gro	op: Water	Tolerance Limits	
Parameter	Unit	Test Protocol	Result	as per 18.22%-1992 Class C (Jaluad Surface Water)	
Taste		APHA 24th Ed.2023, 2160C	N/A	-	
Anionic Surfactums (as MBAS)	mg/L	APHA 24th Hdt.2023; 5540-C	BDL (DL: 0.025)	1.0	
Miseral Dit*	mg/L	15 3025 (Part-39):2021 (Classe b Infrared Spatterscope Method)	BDL (DL: 0.05)	-	

Remarks: 4. (*) Freamsters are ostsourced to other Lab.

Reviewed by Akash Kamar

Quality Manager

****End of Report****

Authorised Signatory Dr. Despendra Kumar Sinha Ph. D. Environmental Engg. Technical Manager

Page I of I

The Beautine issued as Tee Report is instant by the Laternates action to Expense Term and Completes, such as Comment which is growing action by the contract of the Tee Report informs and to the processing action by the Comment of the Tee Report informs and the features of the Tee Report informs and the features of the Entire of the Tee Report informs and the features of the Entire of the Tee Report informs and the report in the standard which is provided by the chart. The Report informs are the special and many and of the report in the theory of the chart. The Report informs are the special and many informs and the report in the theory of the Enterior of the Enterior informs and the sum of the report in the Enterior American informs and the enterior of the Enterior American informs and the course of the Enterior American informs and the Comment informs and the Enterior informs are the Enterior of the Enterior informs and the Enterior informs informs and the Enterior informs informs and the Enterior informs information in Enterior informs and the Enterior information informs and the Enterior information informs and the Enterior information information informs information informs information in Enterior information in Enterior information information information i



PLOT NO-30, MANISAROVAN ENCLAVE, TUPUDANA HATTA, NANCHI-BERGOS (JHAMKHAND) GST NOI-20AASCESTERULIS

ENGINEERING SERVICES PYT. LTD.

Email: jafoži elesti, so.in. eles ranchišhameli.com Phone no.: 0653-2290303

Websity: www.rings.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2025/2026	Report Release Date	: 24.03.2025	
Work Order No.	: 13612312113	Work Order Date	: 28,03,2024	
LILR No.	: TC1358725000001984F			

CUSTOMER DE	TAILS	SAMPLE DETAILS		
Customer Name Address	: Hindulco Industries Limited : Leharduga, Jherkhand-835302	Sampling Date Sampling Received Data Type of Sample Sampling procedure Sampling procedure	16.03.2025 : 17.03.2025 : Workzune Name : ELES/DXC/SMPL/03 : ELES Pvt. Ltd.	
Mines Status	: Operational	Period of Analysia	: 17.03.2025 to 22.03.2025	

METEOROLOGICAL INFORMATION			
1 Average Temperature (°C) : 29	1	Barametric Pressure (mmHg)	: 720
3 Helative Humidity (%) : 61	4.5	Weather Condition	: Clear

Location	Unit	Test Protocol	Result		Regulatory Limit (Industrial Zone)
Near Peciain—		fS 4738, 2017	Time	Loq	
Serengdag-A Bausite Mines (155,81ha)	dR(A)		Day Time	69	90 dB(A)
Sumple ID: ELES/RNC/2025/WN/2168			549,1100	75	

Restricted by Akash Kumor Opality Managor

****Emi of Report****

Authorised Signatury
Dr. Deependra Kumar Sinha
Ph. D. Environmental Engg.
Technical Manager

Page 1 of 1

The Dispersion space as This Report to record by the Laboratory under Henrical Turns and Conditions, only on Company better hand or proceedings to the hand or the Report of the Section Series to the Laboratory of the Test Report of the Section Series to the Laboratory of the Contract of the Report of the Section Series to the Section Series Section Series Section Series Section Series Section Series Section Series Section


Annexure 3

Date - 01.05.2025

Office Order

Environmental Cell has been re-constituted for Sherandag Group of Mines (Sherandag-155.81 ha, Serandag-77.89 ha and Jalim - Sanai-12.14 ha Bauxite Mines). This cell consists of the following team members who will ensure compliance with the Environment Acts, Rules & Regulations in respect of the said mines of Hindalco Industries Limited

- 1. Mr. Akhilesh Sinha (Coordinator)
- 2. Mr. Sanjay Sharma (Geologist)
- 3. Mr. Girija Tamrakar (Environment Engineer)
- 4. Mr. Anand Prakash Tiwari (Environment Engineer)

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

Basudev Gangopadhyay
AVP (Planning, Environment & Compliance)

Annexure 4

	Production, Mined Out, Back Filled and Over Burden removal from October'24 to March'25							
S No	Name of the Mines	Mining lease area (ha)	Production Capacity (MT)*	Lease Period*	Production (MT)	Mined out area (ha)	Backfilled area (ha)	Over burden (Cu.M)
1	Bagru Bauxite Mine	75.41	85000	22.01.1974 to 31.03.2030	NIL	NIL	NIL	NIL
2	Bhusar Bauxite Mine	65.31	280000	11.07.1981 to 31.03.2030	86061	1.53	0.695	88218.66
3	Hisri (New) Bauxite Mine	14.55	100000	19.07.1981 to 31.03.2030	25362	0.345	0.10	30825.23
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	109753	2.12	7.6	332929.81
7	Sherangdag-A Bauxite Mine	155.81	260000	16.10.1974 to 31.03.2030	2989	0.02	0.02	2110.0
8	Serangdag-B Bauxite Mine	77.89	100000	04.10.1978 to 31.03.2030	35253	0.756	0.35	38119.67
9	Jalim & Sanai Bauxite Mine	12.14	50000	16.10.1974 to 31.03.2030	24760	0.13	0.08	12444.82
10	Gurdari Bauxite Mine	584.19	325000	23.03.1985 to 22.03.2035	105401	4.42	3.76	185747.47
11	Kujam - I Bauxite Mine	80.87	150000	13.03.2006 to 12.03.2056	NIL	NIL	2.54	NIL
12	Kujam - II Bauxite Mine	157.38	300000	24.03.2006 to 23.03.2056	61250	2.40	4.72	136798.61
13	Amtipani Bauxite Mine	190.95	150000	13.03.2006 to 12.03.2056	62240	4.047	6.423	255249.72

	Minerals & Minerals Limited							
14	Pakhar (109.507) Bauxite Mine	109.507	280000	26.07.2008 to 25.07.2058	112559	0.44	3.62	255124.1
15	Pakhar (15.58) Bauxite Mine	15.58	60000	28.04.1965 to 31.03.2030	5015	0.26	0.42	11644.5
16	Bimarla Bauxite Mine	134.526	300000	18.07.2009 to 17.07.2059	93500	3.956	5.37	156892.41
17	Amtipani Chirodih Bauxite Mine	130.01	450000	11.01.2017 to 10.01.2067	114100	5.43	5.133	233823.46

^{*}Static information about the mines included in the above table

Basudev Gangopadhyay
AVP (Planning, Environment and Compliance)

BREAK UP THE COST OF ENVIRONMENTAL MEASURES DURING THE YEAR 2024-25

The composite cost during the year 2024-25 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 2024-25 (From Oct'24 to Mar'25)	Actual (in Rupees) FY 2024-25 (From Oct'24 to Mar'25)
1	Pollution Control and Environmental Monitoring	61,35,000.00	42,08,879.10
2	Reclamation/ Back filing & Rehabilitation**	5,62,80,000.00	5,32,33,879.71
3	Green belt, Plantation & Water sprinkling arrangement	73,42,000.00	43,51,560.28
4	Rural Development	2,75,00,000.00	3,13,06,810.81

^{**}Part of OB removed cost

Basudev Gangopadhyay

AVP (Planning, Environment & Compliance)