

Date: 20.11.2024

HIL/LHD/ENV/MoEF/GURDARI/992

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: Compliance Report of EC conditions for Gurdari Bauxite Mining project of M/s Hindalco Industries Limited located in Gumla, Jharkhand for the period April'24 to September'24.

Ref: Environmental Clearance letter no J-11015/136/2006-IA II (M) dated 7th February 2007

Sir,

With reference to the above, we are submitting herewith the Compliance status report of EC conditions for **Gurdari (584.19 ha)** Bauxite Mining project of **M/s Hindalco Industries Limited** located in Gumla, Jharkhand for the period April'24 to September'24.

The lease details are below:

Lease area (ha)	Production Capacity (MT)	Lease Period
584.19	325000	23.03.1985 to 22.03.2035

Hope you will find the same in order.

Thanking You

Yours Sincerely

FOR HINDALCO INDUSTRIES LIMITED

(Basudev Gangopadhyay)

AVP (Planning, Environment & Compliance)

Enclosure: - As Above

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

Name of the Project : Gurdari Bauxite Mine (584.19 ha)

M/s Hindalco Industries Ltd

Environment Clearance No & date

: J-11015/136/2006-IA.II (M), dated 07.02.2007.

Period of compliance Report : From 1st April 2024 to 30th September 2024

A. Specific Conditions

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

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

Condition 2- The environmental clearance is subject to approval of the state land use Department, Government of Jharkhand for diversion of agricultural land for non-agricultural use.

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

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

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

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

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

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

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

Condition 6- The waste generated shall be concurrently backfilled in the mined-out area. There shall be no external OB dump. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status should be submitted to the Ministry of Environment & Forest on a six-month basis.

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

Condition 7- Catch drains and siltation ponds of appropriate size should be constructed to arrest silt and sediment flows from mine working. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted particularly after monsoon and maintained properly.

Garland drains (size, gradient and length) shall be constructed for mine pit and sump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Sump capacity should also provide adequate retention period to allow proper setting of silt material. Sedimentation pits should be constructed at the corners of the garland drains and desilted at regular intervals.

Reply to Condition 7- To collect & manage rainwater during monsoon, part of mined out area is used as a settling tank for the runoff. Rainwater stored is being used for watering the mine area, roads, green belt development and sprinkling as necessary.

Catch drains, Garland drains of appropriate size are being constructed in both around the mine pit to prevent runoff of water and flow of sediments directly into the agricultural field and water bodies, if applicable.



Garland drain around mine pit.



Catch drain Near mine pit.

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

Reply to Condition 8- Progressive plantation of native species is being carried out in and around mining lease, reclaimed area etc. in consultation with local forest department on regular basis.

Total 1350 saplings have been planted on reclaimed area during the period from April'24 to September'24. Cumulative 25.11 ha areas have been planted till date. In addition to this agricultural activity is going on reclaimed land as per the consent from the landowners. Rest to be complied during project period.









Plantation and Agriculture on Reclaimed land

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

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



Rainwater Harvesting Pond.

Condition 10- Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new piezometers during the mining operation. The monitoring should be carried out four times in a year – pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to MOEF, Central Ground water Authority and Regional Director Central Ground Water Board.

Reply to Condition 10- We are not using ground water for mining purposes. Shallow depth mining is being carried out, hence there is no intersection of ground water table during the mining operation at present and in future. A piezometer has been installed for monitoring of ground water level. The Water level and water quality reports are being sent regular to regional office of Ministry, CGWA and JSPCB. The same is attached herewith as **Annexure 1 & 2**



Piezometer Installed at Mine

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

Reply to Condition 11- We are not using any water from natural streams/ ground water for mining operation. Rainwater harvesting ponds with proper fencing have been already constructed in the mine premises. Rainwater harvested during 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 same NOC and photographs of Rainwater harvesting ponds are attached below.



NOC for Ground water Extraction





Rainwater Harvesting Pond at mines.

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

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

Condition 13- Vehicular emissions should be kept under control and regularly monitored. Measures shall be taken for maintenance of vehicles used in mining operations and transportation of minerals. The vehicles should be covered with a tarpaulin and shall not be overloaded.

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





Tarpaulin covered Vehicle

PUC Certificate

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

Reply to Condition 14- Wet drilling is in practice.



Wet drilling is being carried out.

Condition 15- Blasting operation should be carried out only during the daytime. Controlled blasting should be practiced. The mitigative measures for control of ground vibration and to arrest fly rocks and boulders should be implemented.

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

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

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

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

Reply to Condition 17- 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 for treatment of this effluent. The treated water is in close circuit and being reused for washing of vehicle in the workshop. We are not discharging any wastewater outside the mine lease area.

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

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



Washing Ramp with Oil and Grease trap

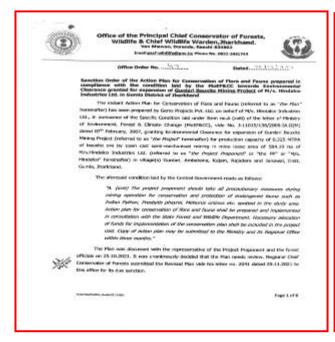
Condition 18- The project proponent should take all precautionary measures during mining operation for conservation and protection of endangered fauna such as Indian Python, <u>Presbytis phayrei</u>, <u>Melsurus ursinus</u> etc. Spotted in the study area. Action plan for conservation of flora and fauna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

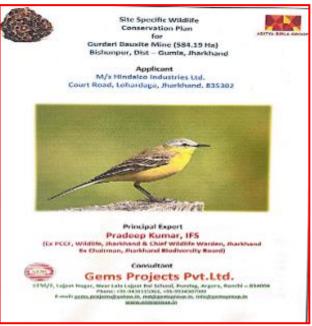
Reply to Condition 18- Safeguard Measures already implemented and being implemented as suggested by forest department are as follows: -

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

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

A copy of same Approval letter has been submitted to your good office on 21.02.2022





Condition 19- A Final Mine Closure plan along with details of Corpus Fund should be submitted to the Ministry of Environment & Forest 5 years in advance of final mine closure for approval.

Reply to Condition 19- Mining Plan along with progressive mine closure plan has been approved by Indian Bureau of Mines. Final Mine Closure Plan will be submitted in due time as per applicable guideline and timelines mentioned in MCDR/IBM guideline 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.

B. General Conditions

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

Reply to Condition 1- Noted.

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

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

Condition 3- Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone for RPM, SPM, SO₂, 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 to Condition 3- 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 4- 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 to Condition 4- Being adhered to. Monitoring Reports for the reporting period are attached as **Annexure-2**. Now, the Regional office of MoEF&CC is in Ranchi.

Condition 5- Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer points should be provided and properly maintained.

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



Water Tanker for dust suppression

Condition 6- Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operation of HEMM, etc. should be provided with ear plug / muffs.

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

Condition 7- Industrial wastewater (workshops and wastewater from the mine) Should be properly collected and treated so as to conform to the standards prescribed under GSR 422 (E) dated 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 to Condition 7- There is no industrial wastewater generation from mining operation. We are not discharging any wastewater outside the mine lease area. However, negligible amount of wastewater is generated in workshop from washing of vehicles and Oil & grease trap system is

already installed for treatment of this effluent. The treated water is in close circuit and being reused for washing of vehicles in the workshop.

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



Washing Ramp with Oil and Grease trap

Condition 8- Personnel working in dusty areas should wear protective respiratory devices and they should also provide with adequate training and information on safety and health aspects. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

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

Condition 9- A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the Organization.

Reply to Condition 9- A separate environmental management cell with suitable qualified personnel has been set up under the control of a Senior Executive, who is reporting directly to the Head of the Organization. The same is attached herewith as **Annexure 3.**

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

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

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

Reply to Condition 11- Every year, the funds earmarked for environmental protection measures is being budgeted separately and its expenditure is being reported to the Ministry. The copy of the same is attached as **Annexure 5**. Now, the Regional Office of MoEF&CC is in Ranchi

Condition 12- The Regional Office of this Ministry located at Bhubaneshwar shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.

Reply to Condition 12- Noted and Agreed.

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

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

Condition 14- State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Center and Collector's office / Tehsildar's Office for 30 days.

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

Condition 15- The project authorities should advertise at least in two local newspapers widely circulated, one of which locality concerned, within 7days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment and Forests at http://envfor.nic.in and a copy of the same should be forwarded to the Regional Office of this Ministry located Bhubaneshwar.

Reply to Condition 15- Noted and complied. The information on grant of the EC has been published in two local newspapers. The copy of the advertisement has already been submitted to the Regional Office vide letter no HIL/GMO(M)/ENV/140 Dated 23.04.2007. Now, the Regional office of MoEF&CC is in Ranchi.

Annexure 1

Piez	Piezometer Reading - Gurdari Bauxite Mine				
S No	Month	Depth (meter)			
1	Apr-24	32.42			
2	May-24	32.52			
3	Jun-24	32.58			
4	Jul-24	32.83			
5	Aug-24	31.97			
6	Sep-24	31.76			

ENVIROCHECK

Lab: MIG, R-3 Housing Colony, Dhanbad, Pin-826001, State- Jharkhand.

Gurdari Bauxite Mine-Environmental Monitoring Report

April 2024

CONTENT

	Handako Industrias : Gardior Barrier Mine Environmental Monitoring Report	April 2021
	Gurdari Bouxite Mine	
	AMBIENT AIR QUALITY- CORE ZONE	
4	Entrance Gate / Near Mine Office	
2	Near Kathawaponi Ph-23	
A.	New Mine Weigh Beidge	
+	Near Dhobi Katumb	
	AMBIENT AIR QUALITY-BUFFER ZONE	
4	Neor PakriGoda Village	- 5
2	Near Pol Pol Village	
3	Nore Shokhuapani Village	
4	New DipoKinian Village	



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Lab. HEC. R.J. Housing Colony, District. Pro. 42 (1907), Text. - Backbard & WESSELDSON / \$10000000000

TEST REPORT

Test Report No.	± ENVJK/1143/APR/TR(W)24-25	Report Release Date	129,64.2024
Work Order No.	:13612312113	Work Order Date	+ 28.03.2024

CUSTOMER DETA	ILS	SAMPLE DETAILS	
Castomer Name	Hindako Inhotries Umited	Sample Ref. No. Location	ENVIK/2024/AA/1668 Entrance Gate/Near Mine Office Gunlari Bascita Mine (584.190a)
Address	: Cohantaga, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample	: 17.04.2024 to 38.04.2024 : 22.04.2024 : Ambieut Air
Minim Status	: Operational	Sampling Procedure Sampling Done By	ELES/DOC/SMPL/02 ELES Pvt. Ltd.
Period of Analysis	: 22.04.2074 to 28.04.2024	Sample Condition	Sealed &Preserved

METEOROLOGICAL INFORMATION

- M	ETEOROLOGICAL INFORM	ATHUS			
- 1	Average Temperature (*C)	31	2.	Barometric Pressure (mmHg)	: 742
3	Relative Humidity (%)	59	4	Weather Condition	: Clear

	Disciplin	e: ChemicalGroup: Atmmphoric Pollut	ine.	
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	sup/m ³	85 5182 (Part 23): 2006	60	100 (24hra)
Particulate Matter (PM2.5)	11g/m ³	USEPA 1997a,40 CFR Part 50, Appendix L: 2006	32	60 (24hrs)
Sulphur Di-Oxide (SO ₂)	μμ/m³	15 5182 (Part 2): 2001	9,5	80 (24hrs)
Nitrogen Di-Oxide (NOs)	ug/m	15 5182 (Part 6): 2006	22.8	88 (24lmö
Ozone (Os)	jag/m [†]	JS 5182 (Purt- 9): 2019	<20.0	190 (Rhn)
Ammonia (NH ₂)	pg/m	IS 5182 (Part- 25); 2018	<10.0	400 (24hn)
Carbon Monoxide (CO)	mg/m³	(S 5182 (Part-10): 2019 (NDIR Method)	41,0	2 (8hm)
Lend (Pb)	agm ²	15 5182 (Part-22): 2019.	9.009	1 (2(hrs)
Nickel (Ni)	ng/m ²	IS 5182 (Part-26): 2020	<6.0	20 (Aamid)
Arsenie (As)	ngin ¹	USEPA Method - IO-3.3 (ICP-MS Method)	<2.8	05 (Asmal)
Bewere (C ₆ H ₆)	http:	USEPA Method - TO-3 (GC-MS Method)	<2.5	05(Annual)
Векло-(а)-Ругене	tig/m ²	USEPA Method - TO-JA (GC-MS- Method)	<0.5	01(Annual)

****End of Report****

Freihard KERROL

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Reviewed by z

TOTAL . (Seswalt Bernan Roy, Dy. Quality Minager) Authorised Signatory :

(Rigin Disc Dy. Technical Manager)

Page I of I





TEST REPORT

Test Report No.	+ ENVJK/1144/APR/TR(W)24-25	Report Release Date	: 28,84,2924
Work Order No.	: 13612312113	Work Order Date	: 28.83,2024

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	Hinduleo Industries Limited	Sangle Ref. No. Location	ENVJR/2024/AA/1669 Nine Kathawapani Pit-23 Gordari Bauvite Mine (384.19ba)
Address	Lehantaga, Jhurkhand-835302	Soughing Date Sample Received Date	: 17,64,2924 to 18,64,2024 : 22,64,2924
Mines Status	Operational	Type of Sample Sampling Procedure Sampling Done By	: Ambient Air : ELES/DOC/SMPL/02 : ELES Por. Ltd.
Period of Analysis	22.04.2024 to 28.04.2024	Sample Condition	: Scaled &Preserved

METEOROLOGICAL INFORMATION		mac	
1 Average Temperature (°C) : 31	2	Becorners Pressure (mm?	lai : 742
3 Relative Humidity (%) : 59	4.	Weather Condition	: Clear

Parameter	Unit	e: ChemicalGroup: Atmospheric Pollut Test Protocol	Result	Regulatory Limit
Particulate Matter (PM7il)	ng/m²	18 5182 (Part 23): 2000	68	100 (7-thes)
Particulate Matter (PMC.5)	лули ²	USEPA 1997a,40 CFR Part 50, Appendix L: 2006	45	60 (2 thrs)
Sulphur Di-Oxide (SO ₂)	jąg/m²	IS 5182 (Part 2): 2001	9.7	80 (24hni)
Nitrogen Di-Oxide (NO ₂)	µg/m³	IS 5142 (Part 6): 2006	23.1	86 (24hrs)
Ozone (O ₁)	hith.	IS 5182 (Part- 9); 2019	<29.0	100 (8hrs)
Ammonia (NHz)	pg/m²	15:5182 (Part- 25): 2018	<10.0	400 (24bm)
Carbon Monoxide (CX2)	mg/m²	IS 5182 (Pari- 10): 2019 (NDIR Method)	<1.0	2 (Hira)
Lend (Ph)	pg/m²	IS 5182 (Pari- 22): 2019	9.012	1 (24km)
Nickel (Ni)	ng/m ³	15 5182 (Part- 26): 2020	46.8	20 (Annual)
Arsenie (Au)	ng/m ³	USEPA Method - IO-3.5 (ICP-MS Method)	<2.8	06 (Annual)
Bestzese (C ₆ H ₆)	hitipus,	USEPA Method - TO-J (GC-MS Method)	<2.5	05(Annual)
Henzo-(a)-Pyrene	ng/m1	USEPA Mithod - TO-2A (GC-MS Mithod)	-0.5	01(Annual)

Reviewed by :

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(Sawrata Barmas Roy, Dy. Quality Manager)

Authorised Signatury :

The same

(Bapan Das, Dy. Technical Manager)

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Test Report No.	+ ENVJK/1145/APR/TR(W)24-25	Report Release Date	: 28,64,2624	
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024	

CUSTOMER DET	(ILS	SAMPLE DETAILS	
Customer Name	(Hindako Industries Limited	Sample Ref. No. Location	: ENVJK/2024/AA/1670 : Near Mine Weigh Bridge Gendort Bassite Mine (384.19hr)
Address	; Lohardaga, Jharishand-835302	Sampling Date Sample Received Date Type of Sample	: 17.04.2024 to 18.04.2024 : 22.04.2024 : Ambient Air
Minus Status	: Operational	Sampling Procedure Sampling Done By	: ELES/DOC/SMPL/02 : ELES Pvt. Ltd.
Period of Analysis	: 22.04.2024 to 28.04.2024	Sample Condition	: Scaled &Preserved

ķ	ETEOROLOGICAL INFORMATION			
	Average Temperature (°C) 31	1.2	Baronaric Press	re (mmHg) :: 742
)	Relieive Humidity (%) : 59	4	Wenther Condition	Clear

	Disciplin	e: ChemicalGroup: Atmospheric Pullut	tion.	and the same of the same of
Furameter	Unit	Text Protocul	Result	Regulatory Limit
Farticidate Matter (PM10)	µg/m²	15 5182 (Part 23): 3006	74	100 (24hm)
Particulate Motor (PM2.5)	µg/m²	USEPA 1997a,40 CFR Part 50, Appendix L: 2006	55	60 (24hm)
Sulphur Di-Oxide (SO ₂)	ng/m³	HI 3182 (Part 2): 2001	11.6	80 (24hm)
Nitrogen Di-Oxide (NO ₁)	pg/m²	18-5182 (Part 6): 2006	36.1	80 (24hn)
Ozone (Di)	µg/m²	18 5182 (Part-9): 2019	<20.0	190 (Wm)
Ammonia (NH ₁)	Millian)	IS 5182 (Part- 25): 2018	<10.0	400 (24hrs)
Carbon Monoxide (CO)	mg/m²	15 5182 (Part- 10): 2019 (NDIE Method)	<1.0	2 (film)
Lead (Ph)	pater.	18 5182 (Part- 22): 2019	0.012	1 (24km)
Nickel (Ni)	ng/m²	18-5182 (Parti-26): 2020	<6.0	20 (Annual)
Arsenic (As)	ng/m ⁵	USEPA Method - IQ-3.5 (ICP-MS Method)	<2.0	96 (Annul)
Benzene (C ₀ H ₀)	papins*	USEPA Method - TO-3 (GC-MS Method)	<2.5	05(Annual)
Bezero-(a)-Pyrene	ng/m ¹	USEPA Method - TO-3A (GC-MS Method)	<0.5	93(Annual)

Reviewed by : THE P

(Seriousta Burman Roy, Dy. Quality Manager).

Authorized Signatory:

(Bapan Das, Dy. Technical Manager)

Page 1 of 1

Rollista Office : 63/8, Rantragoro Avenue, Kalbata - 706028 [322-25792881/25687880 ANG meninerack@@gmail.com

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22.04.2024 to 28.04.2024

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TEST REPORT

Test Report No.	1 ENVJK/1146/APR/TR(W)24-25	Roport Release Date	: 28.04.2024
Work Order No.	: 13612312113	Work Order Date	: 21.64.2023
CUSTOMER DET	All.S	SAMPLE DETAILS	entral tradition of the contract trace
Customer Name	Hindalov Industries Limited	Sample Ref. No. Location	: ENVJK/2024/AA/1671 : New Dhobi Katumb; Gurden Bausto Mine (584.19ha)
Address	Lohantaga, Thurkhand-835302	Sampling Date Sample Received Date Type of Sample	: 17.04.2924 to \$8.04.2024 : 22.64.2024 : Ambient Air
Mines Status	: Operational	Sampling Procedure Sampling Done By	: ELES/DOC/SMPL/(2 : ELES Pvt, Ltd.

METEOROLOGICAL INFORMATION			0.00
1 Average Temperature (°C) (3)	1.2	Barometric Pressure (nurd	fgi : 742
3 Relative Hamidity (%) 159	4	Wenther Condition	: Class

Sample Condition

	Disciplin	e: ChemicalGroup: Atmospheric Pullet	ion	
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m³	15:3182 (Part 23): 2006	62	100 (24hrs)
Particulate Matter (PM2.5)	µg/m²	UNEPA 1997s,40 CFR Part 50, Appendix L: 2006	37	60 (24hrs)
Sulphur Di-Chride (SO ₂)	μg/m ²	IS 5182 (Part 2): 200)	8.3	80 (24hrs)
Narogen Di-Oxide (NO ₂)	pg/m²	IS 5182 (Part 6): 2006	25.8	80 (24hrs)
Ozone (Os)	pg/m²	IS 5182 (Pari- 9): 2019	<20.0	100 (Shrs)
Ammonia (NHs)	payin°.	IS 5182 (Pure-25); 2018	<10.0	400 (24hrs)
Carbon Monoxide (CO)	mg/m ³	IN 5182 (Past-10): 2019 (NDIR Method)	<1.0	2 (8hrs)
Load (Ph)	ug/m ²	IS 5182 (Part- 22): 2019	< 0.002	1 (24lm)
Nickel (Ni)	ag/m²	18-5182 (Part- 26): 2020	<6.8	20 (Annual)
Americ (As)	ag/m1	USEPA Mathod - ICI-3.5 (ICP-MS Method)	<2.0	06 (Annual)
Benzene (C.H.)	pg/m²	USEPA Method - TO-3 (GC-MS Method)	<2.5	95(Annual)
Benzo-(a)-Pyrene	Agrin ¹	USEPA Method - TO-JA (GC-MS Method)	< 0.5	OT(Amusl)

Reviewed by z

(Saswata Burman Roy, Dy. Quality Manager)

Authorited Signatory :

: Scaled & Preserved

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(Bapus Das, Dy. Technical Manager)

Page 1 of 1





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TEST REPORT

First Report No.	: ENVIRONMENTAL TRANSPORTE	Report Release Date	28.84.3524	
Work Greber No.	(30)23(2)()	Work Delter Date	+38.0%3904	

CLIFTUMER DET	ULS	SAMPLE BETAILS	
Convertient	Himselin Indonés Certais	Sumple Ref. No. Lincation Someties (Nov.	#WIK-1034-1A 1944 Hear Pro/Units Wileys 17.04.2004 to 18.04.2514
Activis	Literage, Reviseo 67501	Sample Ranged Date: Type of Sample Sampling Procedure	: 25/4/3104 : Author Air : BLES/DOC/SHIPL/07
Miras Boras	Operational	Sampley Simoldy	ELES PALLIS
Pariette Assessa	12.842004 to 25.64210+	Sample Condition	Smith & Property

METEUROLOGICAL INFORMATION		
Average Temperature (*C) = 29	2 Neurolic Procestionity)	1702
3 Names Frankling (%) (6)	a Wester Condition	

	_ Uniplie	et ChristicalGroups Almenpheris Polisi	ten	
Personner	Unit	Test Protecti	Rendt	Replaces Unit
Particular Manur (PM) (1)	HE'RE	ili 5202 (Fort 23) 2004	43	(0) (34 hrs
Torrission Mater (1902.)	light)	USERI, 1997s-16 CFR Part St. Apposits L: 2004	34	50 (24 m)
Scipture Di-Chrisis (NO):	sight?	55.5192 (Part 2): 2005	301	00.(200n)
Nitrogen DI-Oxide (NO ₂)	pg/m²	5332 Parin 300	31.5	29 (24m)
Oraw (Ou)	HER.	35 5112 (Part-7), 20/1	<201.0	100 (00m)
Aremanic (NHL)	1970	75 5 (30) (Pyrs-25); 2016	<08.0	400 (C4)mp
Curbon Manusido (CO)	ingre."	(NOIB Malad)	<1.8	2(9m)
Led (h)	1077	Vi 5002175m 221: 2015	-0.HG	7.0Hm2
trictor (NII)	right	15.3 (10.2 (Part-20)); 2000)	41.0	20 (Amusii
Americ(Ax)	ign!	USCP4 Method - ICA3 5 (ICPANS) Methods	42.0	(N/Annal)
Heroche (CJC)	upor"	LISEPIA Method - TB-1 (OC-MS Hutbod)	42.5	(d)(Amount)
finou-sist year	97	USBYA Neptal - TO-YA (CC-NCS) Statud)	-465	90,5 month

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Servers Burrar Big. Dy. Quilly Manger

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(Benevilles, Dr. Technist Nonger)

Page 1 of 1





TEST MEPORT

Tot Report No.	ENVIRGIONAPRETRIW(24-25	Report Baleane Date	129,04,2074
Work Onler No.	: 13612312113	Work Order Date	128.85.2624

CUSTOMER DETA	AILS:	SAMPLE DETAILS	
Conner Note	: PEndales Industries Limited	Semple Ref. No. Location Sempling Date	: ENVIK 2024/AA/1865 : New Pol Pol Village : 17,04.2624 to 18,04.2024
Address	: Lielandege, Standard-1033CS	Scopie Received Date Type of Scopic Sempling Procedure	: 22.04.280A : Autoles: Als : BLIES/DOC/SMPL/92
Mines Status	: Operational	Semiling Book By	: ELES PALLES
Person of America	1 22:04:3004 to 28:84:3004	Stimple Consisters	: Sested 80/mented

TETEOROLOGICAL INFORMA	ATHON		
Avenue Temperature (°C)		Darumenia (Yennary (mmilg))	1742
Relative Homistiy (%)	61 8	Weather Condition:	: Clear

	Disciplin	e: Chemlesi/Group: Atmospheric Pollut	ton	
Paraiseto:	Valt.	Test Protocol	Wesult	Regulatory Lind
Psyciophau Matter (PMIN)	yarbo*	15 5182 (Part 23): 2006	76	106 (24hrd)
Particulate Matter (PSCL2)	µg/m²	USEPA 1997s,45 CFR Part 50, Appendix L. 2000	32	80 (5.0km)
Sulphar Di-Oxide (SO ₃)	pann,	(8-5182 (Pwt 2); 2001	5.5	80 (246/4)
Witrogen Di-Guide (NO ₂)	µg/m³	IS 5182 (Part 6): 2006	24.1	80 (24km)
Overal (Os)	agm.	15-5182 (Part-9): 2019	<26.	100 (Rkm)
Ammonia (NHA	ing/m ² .	th \$182 (Part- 25): 2018	<10.0	400 (34hm)
Carbon Monrolide (CIO)	mg/m²	18 5182 (Part-10); 2019 (NDB1 Method)	<1.0	2 (8km)
Lind (Ph)	99/66	(S-5192 (Part-21): 2019	-0.6	1.(20m)
Nickel (Nil)	040m1	IS 3182 (Flat-36): 2929	-6.0	29 (Annuil)
Arseoic (Ari)	ng/m²	USEPA Method - IO-3.5 (ICIF-MS Method)	<3.6	04-(Anna)
Between (CoHo))(g/m²	USEPA Mathet - TO-3 (TC-M5 Mathet)	43	25(Annual)
Denos-(a)-Pyrans	rg/m1	USEPA Method - TO-JA /GC-MS Method)	41.1	ØI(Annul)

Reviewed by a

(Satwata Barriers Ray, Dy. Quality Manager)

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Authorised Signatury (

(Ripar Day, Dy. Tachnical Mongar)

Page I of





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TEST REPORT

Test Report Fin.	ENV/H/1141/APR/TR/W)24-25	Report Balance Date	: 28.04.2024
Work Onler No.	13412352113	Work Oyder Date	: 25.03.2024

CUSTOMER DETAILS		RAMOLE DETAILS		
Customer State	3 Hindules Indianology Limited	Sangle Ref. No. Location Sangling Date	: E94V7K:201WAA/1696 : Near Stektospeni Vilkigo : 12.04,2028 to 18.04.2024	
Address	Libertogs, The Advert 42/1912	Sample Hamiled Dan Type of Sample Sampling Procedure	22:04:3034 : Avroles: Alt : ELERODOCISMPL/62	
Miles Street	Operations	Sampling Orner By	ELES For LW.	
Perciut of Analysis	- 22 64 2024 to 38.64,2324	Sample Condition	(Smint &Transyed	

METEOROLOGICAL INFORMATION			
Average Temperature (°C) (30)	2	Baconetric Pressure (webHg)	2747
3 Hefative Humiday (%) 62	-4.	Wester Condition	t Clay

	particular to Bridge	ze Cheralosi Genspr Azamsphorić Pollul	V Feb.	
Pursuator	Unit	Test Protocol	Result	Begulatory Limit
Englisches Matter (PM10)	ug/m3	15 5182 (Part 23): 2806	48	100 (2/flend
Particulate Matter (PMC.5)	sam*	USEPA 1997a, 40 CFR Part 10, Appendix L: 2006	36	60 (24hrs)
Subhite Di-Oxide (50%)	pg/m ³	15 5182 (Part 2); 2001	7.4	(0) (24hot)
Nitrogen Di-Oxide (NO ₁)	µam³	[5:31 (3: (Pen 6): 2006	24.1	(0 (2shrs)
Doone (U ₁)	pg/m ²	15.5182 (Pwn-9): 2019	<20.0	100 (8ho)
Americais (NH ₃)	ppm!	16 51 fd (Pan-25 r 2011	<16.6	400 (24hn)
Casbon Manusida (CC2)	mg/m^3	15-5182 (Part-141): 2019 (NDIR Method)	<1.0	2 (Mm)
Look (Ph)	jag/m ²	18 5192 (Part- 22), 2010	0.009	1 (14km)
Michael (NO	18,000	TS 5182 (Part- 26): 2020	<0,0	29 (Atmost)
Anesic (Aa)	10/107	USEPA Method - IO-3.2 (ICP-885 Method)	<2.6	86 (Armod)
Smanii (C _i H _i)	349/107	LISEPA Method - TG-3 (GC-MS Method)	<2,8	95(Annud)
Неказ-(и)-Руппы	agrice!	DSEPA Method - TO-DA (GC-MS Method)	485	N(Annail)

Reviewed by 2

(Nassum Harmes Roy, Dy. Quality Manager)

Anatiant 6000)

Authorized Signatory :

(Roper Day, Dy. Technical Manager)

Page 1 of 5





TEST BEFORT

Tast Report No.	1 KNVJK/1142/APR/TR/W/24-25	Report Relinor Detr	128,942024
Work Onler No.	13612502713	Wars Order Date	128.05.2024

CUSTOMER DETA	III.6	SAMPLE DETAILS	
Dietomer None	1 Mindules Industries Limited	Sample Ref. No. Location Sampling Own	: 524V30/2006/A-0/1661 : New Dipid/Ligary Village : 17 04/2024 to 18 04/2024
A/dyesi	: Luhartaga, Jantitum (-135702-	Sample Roseives Date Type of Sample Sampling Procedure	23.04.2934 1 Antiliest Air 1 EL EB/GOC/SMPC/02
Miles Ruess	Clienthool	Surprise Deep By	: ULRS Pvt. List
Periot of Autysis	22.04.3394 to 28.04.3354	Sample Condition	1 Smiret Affront and

METEOROLOGICAL PSPORMATION		
I. Assemge Europerstone (PC) : 31	2 Bammatric Pressure	(mmRg) 742
3 Relative Hamilday (%) : 39	4. Weather Condition	: Elleur

F	vin interior in	The second secon		
		e: ChemicalGenup: Atmospheric Follon	ion	
Parameter	Undt	Test Peatons	Result	Regulatory Limit
Partimiete Metter (PMT0)	ug/mi	15 5112 (Part 23); 2006	58	100 (24krs)
Particulus Metter (PMC 5)	pp/m ⁴	LISEPA (1997a, 40 CFR Part 50, Appendix L., 2006	33	56 (240m)
Sulphur DR-Ouide (NOs)	pg/m ³	15 5 HZ (Pint 2): 2001	7.2	80 (24hni)
Nitrogen DI-Oxide (NOs)	pg/m ²	(5.5182 (Part 6): 2006	23.1	RD (34hrs)
Ontor (O ₁)	pg/m2	15 5182 (Part-9): 2019	129,1	100 (Rimi)
Ammonia (NII)	ug/m2	19-5182 (Pws-25); 2018	<10.0	400 (24hrs)
Cather Mountide (CCI)	ringin ³ .	85 5182 (Part-10); 2019 (NIXIR Method)	<1.0	2 (Mm)
Lend (Ph)	pg/m ⁷	16 SUK2 (Pert-32); 2010	0.013	1 (24fm)
Nickel (NI)	ng/m²	15-5:32 (Puri- 2k): 2020	46,0	- 28 (Annol)
Amenie (As)	ng/m²	USEPA Method - IO-3.5 (ICP-MS Method)	+3.8	Distance) in
Beraus (C _t H ₀)	30/m²	USEPA Method - YO-3 (GC-MS Method)	42.5	05(Amusi)
Benzo (a)-Pyteno	eg/m²	USEPA Method - TO 3A (GCAdS Mothod)	×0.5	91(Annual)

Reviewed by 2

(Sayvara Barnan Roy, Dy. Quility Manager)

discious William Co.

Authorized Signatory : The !

(Beyon Des. Dy. Technical Menoger)

Page 1 of 1

ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT.LTD.

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

Gurdari Bauxite Mine-Environmental Monitoring Report

May 2024



CONTENT

33363	alco-Industries (Gentler) Busines Mine Emissionnested Monitoring Report	May2024
	Gurdari flauxite Mine	- Continuer
	AMBIENT AIR QUALITY- CORE ZONE	
T	Estrance Gate / Near Mine Office	
2	Near Karkang Mines	
3	Near Mine Weigh Bridge	
4	Near Dhobi Kutomb	
	AMBIENT AIR QUALITY-BUFFER ZONE	
1	Neur PointGada Village	
1	Near Pol Pol Village	
1	Near Shakhuopani Villago	
4	Near DipaKujan Village	
	Drinking Water	
	Effluent Water	& England



PLOT NOS-30, MANGARONAR ENCLAVE, TUPUDANA HATTA, RAWCH-858005 (IHARITHKWO) GUT NOS-35846CFFFEEDIN

ENGINEERING SERVICES PVT, LTD

Email: info@elesal.co.le., eles.romihi@grasil.com Phone ac.: 19632-72900218 Widosia : www.elesal.co.in



To com

TEST REPORT

Test Report No.	: ELES/RNC/2024/2676	Report Release Date	: 18.05.2024	
Work Order No.	: 13612312113	Work Order Date	: 25.03.2024	
ULR No.	: TC135872400000645F			

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Nama	Hindako Industries Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/2967 : Entrance Guto/Near Mine Office Gundari Bauxite Mire (MA.19ha)	
Address Loh	Lohardago, Murkhand-835302	Sampling Date Sample Received Date Type of Sample	+10.05.2024 to 11.05.2024 +13.05.2024 -Authiers Air	
Minos Status	Operational	Sampling Procedure Sampling Doce By	ELES/DOC/SMPL/02 ELES Pol. Ltd.	
Period of Analysis 13.05.2024 to 18.05.2024		Sample Condition	Sealed & Preserved	

MI	TEOROLOGICAL INFORMATION			
1	Average Temperature (*C) : 33	2	Baromatric Pressure (nemble	742
1	Relative Humidity (%) : 59	4	Weather Condition	: Ciear

Discipline:	Chemical	Group: Atmospheric Pollution			
Parameter	Unit	Test Protocul	Result	Regulatory Limit	
Particulate Motor (PM70)	µg/m ²	15 5182 (Piet-25): 2022	68	100 (24hn)	
Paniculata Maner (PM2.5)	µg/m²	15 5182 (Part- 24): 2019	35	60 (241es)	
Sulphur Di-Oxide (SO ₃)	µg/m ³	15 5182 (Pan-11/Sec-1): 2023	18.1	80 (24hn)	
Nitragen Di-Oxide (NO ₃)	µg/m ¹	18 5182 (Part- 6): 3022	24.7	80 (249s)	
Ozote (O ₁)	agen?	IS 5182 (Part- 9): 2019	<20.0	100 (8hn)	
Ammonia (NH ₁):	pare?	(8 5182 (Puri- 25): 2018	<10.0	400 (24hrs)	
Carbon Monoxide (CO)	mg/m³	IS 5182 (Part-10): 2019 (NDIR Method)	<1.0	2 (86ex)	
Lend (Pb)	ng/m*:	IS 5182 (Part- 22): 2019	0.011	1 (24hrs)	
Nickel (NI)	ng/m ^y	15:5182 (Pari- 26): 2020	<6.0	20 (Annual)	
Arsenie (As)	rig/m ³	ELES/ATR/SOP/01: 2021	<2.0	06 (Annual)	

Page Laf 2

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PLOT NO. 30, MIGNEGARDINAS ENCLAVE, TUTVIDANA HINTIA, TANON-4214882 (JAMERICANO) GUT NO. 2014/00571/20124

NGUKEERING SERVICES PVT, LTD.

Emili isfo@elessi.co.m. eks.rands@gmal.com Phace no.: 0051-2290103 Waterly : memutassi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/2676	Report Release Date	: 18.05.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400000645F	- A TOTAL CONTROL OF THE PARTY	144511111111111111111111111111111111111	

Discipline: Chemical		Group: Atmospheric Pullution			
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Barrene (C _e H ₀)	pagrim ¹	ELESGC/SOP/06: 2023	<2.5	(S(Annal)	
Benzo-(n)-Pyrene	ng/m³	ELES/GC/S0P/05: 2023	<0.5	Ot(Annual)	

AKASHYAMAR Quality Managor ELES PVT. LTD.

****End of Report****

Dr. Deependra Kurnar Sinha Ph. D Environmenta 15-329 ELES Per. Ltd. Technical Messager

Authorised Signatory

Page 2 of 2

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PLOT NO-30, MARGAROVAR ENCLAYE, TUPLORAN HATIK, BANCIO BORGOS (MARCHAND) GIT NO-36ANICISY130131

ENGINEERING SERVICES PYT. LTD.

Ermit igla@elegil.co.m. eles concis@gmail.com Phone no.: 0652-2290203 Wester : ressu elegil.co.ir



TEST REPORT

Test Report No.	: ELES/RNC/2024/2677	Report Release Date	: 18.05.2024
Work Onler No.	: 13612312113	Work Order Date	128.03.2024
ULR No.	TC135872400000646F		

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	: Hindaleo Industries Limited	Sample Ref. No. Location	FLES/RNC/2024/AA/2968 Near Karkang Mines Gurdari Bausire Mine (384-19b)
Auldrenn : 1	: Lohardago, Jharkhand-\$35502	Sampling Date Sample Received Date Type of Sample	10.05 2024 to 11.05.2024 13.05 2024 Antisen Air
Mixes Status	: Operational	Sampling Procedure Sampling Done By	ELES/DOC/SMPL/02 ELES Pot. Ltd.
Period of Analysis	: 13.05.2024 to 18.05.2024	Sample Condition	: Sealed & Preserved

MI	ETEOROLOGICAL INFORMATION	(167	Approximate Approx	780.00
1	Average Temperature (°C) +33	2	Harometric Province (mmHg)	:742
3	Relative Humidity (%) : 59	4.	Westher Condition	Clear

Discipline: 9	Chenical	Group: Atmospheric Pullation			
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	ug'm ³	1S 5182 (Part- 23): 2022	61	100 (24brs)	
Particulate Matter (PSI2.5)	ug/m²	15 5182 (Purp- 24): 2019	37	60 (24hrú)	
Sulphur Di-Oxide (SO ₂)	pg'm'	15:5182 (Part-II/Sec-1): 2023	8.4	80 (240m)	
Nimgen Di-Oxide (NO _i)	Aprim"	35, 5182 (Part- 6): 2022	23.9	300 (24fers):	
Orane (O ₁)	apm!	15 5182 (Part- 9): 2019	<20.0	100 (8hrs)	
Ammonia (NH ₂)	μ ρ τη ³	15 5182 (Pwt- 25); 2018	<10.0	400 (24hes)	
Carbon Mosocide (CO)	ong/m ¹	IS 5182 (Part-10): 2019 (NDIR Method)	<1.0	2 (8hn)	
Load (Pb)	letticat,	IS 3112 (Part- 22): 2019	0.010	1 (24hm)	
Nickel (Ni)	eg/m²	(8 2182 (Part- 26): 2020	<6.0	20 (Annual)	
Ansenie (An)	ephn'	ELES/AIR/SOP/01-2021	<2.0	66 (Annual)	

Page 1 of 7

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PLOT NO-25, MINESANDVAR ENCLAYE, FUPUDANA HATIA, KANCHI BINGIZ (MARKHAND) GLT NO-2644CTSYERIEZI

MODREERING SERVICES PVT. LTB.

Ernel: Info@elesal.co.in., eles conclu@gracil.com Pluma na.: 0653-3290103 Wessler: www.slaspl.co.in



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TEST REPORT

Test Report No.	: ELES/RNC/2024/2677	Report Release Date	: 18,05,2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872408000646F			
ULR No.	: FC135872406060646F			

Disciplines Chemical		Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Betwerte (CuH _e)	10g/m ²	ELES/GC/SOP/06: 2023	<2.5	(6(Annal)
Beisso-(a)-Pyrime	ng/m²	ELES/GC/50P/05: 2023	<0.5	01(Amust)

Reviewed by

AKASH KUMAR Quality Managur ELES PVT, LTD ****End of Report****

Asakarhed Signatory

Dr. Deependra Kumar Sinha Ph. D Environmental Engl SLES Pvt. Utd. Tuchman Library

Page 1 of 2

The Demonstrated as This Report, at animal by the Laboratory varies German Terran and Conditions, each on Company forth that is principle and in the Condition of the Laboratory and the Scholland and the Scholla



PLOT MO-SIL MANSAROVAY ENCLAYS, TUPMINANA MATA, SANCHI-ESHOOS (WARKKAMO) SIT MO-SOARCCESSINGS

ENGINEERING SERVICES PVT. LTD.

Email: Info@electic co.m., electrocki@grad.com Phone ma.: 0552-3200203 Waterly : promotes to in ₽

TEST REPORT

Test Report No.	: ELES/RNC/2024/2078	Report Release Date	r 18.05.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135872400000647F		

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindalop Industries Limited	Sample Ref. No. Location	ELES/RNC/2024/AA/2969 Near Mine Weigh Bridge Gurdari Bazacte Mine (584.19ka)	
Address : Leiterdaga, Jharkhand-835302		Sampling Date Sample Received Date Type of Sample	18.05.2024 to 11.65.2024 13.05.2024 Ambigut Air	
Mines Status	Sampling Procedure		ELES/DOC/SMPL/02 ELES Pv. Ltd.	
Period of Analysis	: 13.05.2024 to 18.05.2024	Sample Condition	Sealed & Preserved	

METEOROLOGICAL INFORMATION	the second of the second	
1 Average Temperature (*C) : 33	2 Barometric Pressure (mmHg)	: 742
3 Radstive Humiday (%) : 59	4 Weather Condition	; Clear

Discipline: Chemical		Group: Atmospheric Pollution			
Parameter	Cuit:	Test Protocul	Result	Regulatory Limit	
Particulate Matter (PM10)	agim ³	35 5182 (Part- 23); 2022	79	100 (24hes)	
Particulate Matter (PM2.5)	µg/m³	IS 5182 (Part- 24): 2019	46	60 (24hm)	
Sulphur Di-Oxide (SO ₁)	µg/m²	15:5182 (Part-11/Soc-1): 2023	12.1	80 (24hn).	
Nitrogen Di-Oxide (NO ₁)	µg/m ³	1S 5182 (Part-6): 2023	35.7	WI (24hm)	
Ozone (O ₅)	µg/m²	35 5182 (Pun-9): 2019	<20.0	100 (Rus)	
Ammunia (NH ₁)	ap'm'	IS 5182 (Part- 25); 2018	<10.0	400 (24hrs)	
Carton Monoxide (CO)	mp/m ³	18 5182 (Part- 10); 2019 (NDIR Mithed)	<1.8	2 (Shrs)	
Loud (Ph)	sight!	IS 5182 (Part- 32); 2019	0.015	1 (24hn)	
Nicial (Ni)	right."	IS 5182 (Part- 26): 2020	<6.0	20 (Annual)	
Arsenic (Asi)	ng/m²	ELES/AIR/SOP/01: 2021	<2.0	66 (Annual)	

Page I of 2

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PLOT WO-SE, WANSAROVER ENCLAYE, TUPOCANA MATIA, 64N-CH 254603 (MARKHAYO) 651 NO-36ACCIOTSINEN

ENGINEERING SERVICES PVT. LTD.

Email info@closel.co.in , oles renciv@gmeil.com Phone mr.: 0651-2240500 Walnute : www.ofcool.co.in



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TEST REPORT

Test Report No.	: ELES/RNC/2024/2678	Report Release Date	: 18.05.2024	
Work Order No.	: 13612312113	Work Order Date	28.03.2024	
ULH No.	: TC135872400000647F			

Discipline: Chemical		Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Benzone (C ₃ H ₄)	µg/m²	ELES/GC/90P/06: 2023	<2.5	05(Annual)
Benzo-(a)-Pyrene	ng/m³	ELES/GC/90P-05: 2023	<0.5	OT(Armist)

AKASH KUMAR Quality Managar

ELES PVT. LTD.

****End of Report****

Authorised Signatory

Dr. Deependra Kumar Sirvia Ph. DEneroments Bays BLES Pet Ltt. Technologistement

Page I of 2

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Email: Info@elespi.co.pr., eles.renchi@ornol.com Physics no. 2 0651-2200203 Watabe : enemistrapi.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/2679	Report Rolease Date	± 18.05.2024
Work Order No.	: (36)23)21)3	Work Order Date	1 28.63.2024
ULR No.	: TC135872400000648F		

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindaco Industries Limited	Sample Half, No. Location	ELES/ICNC/2024/A/A/2970 Near Dhobi Kutumht, Gurdari Baucite Mine (584-19ha)	
Address	: Lobardaga, Therkhand-635302	Sampling Date Sample Received Date Type of Sample	10.05.2024 to 11.05.2024 13.05.2024 Anthiest Air	
Mires Status : Operational		Sampling Procedure Sampling Done By	ELES/DOC/SMPL/02 ELES Pv. Ltd.	
Period of Analysis	: 13.05.2024 to 18.05.2024	Sample Condition	Scaled & Preserved	

METEOROLOGICAL INFORMATION		Total Control of the	272.00
1 Average Temperature (°C) : 33	-1	Barumatric Pressure (mmHg)	: 742
3 Relative Humidity (%) : 59	-4	Weather Condition	: Clear

Discipline:	Chemical	Group: Atm	Group: Atmospheric Pollution		
Parameter.	Unit	Test Protocul	Result	Regulatory Limit	
Particulate Metter (PM10)	µg/m³	85 5182 (Part-23); 2022	64	100 (24hes)	
Particulate Matter (PM2.5)	µµ/m²	18 5182 (Pan- 24): 2019	38	60 (24hm)	
Sulphur Di-Oxide (SG ₁)	µg/m²	15 5182 (Part-11/Sec-1): 2023	8.9	80 (24hn):	
Nitrogen Di-Oxide (NO ₅)	pg/m ⁵	15 51 K2 (Pwr- 6): 2022	25.7	83 (24lin)	
Ozone (O _i)	pg/m²	15:5182 (Purt- 9): 2019	<20.0	100 (Mms)	
Ammonia (NH ₁)	pg/m ³	IS 5182 (Part- 25); 2018	<10.0	400 (2thos)	
Curbon Monoxide (CD)	mg/m²	IS 5182 (Part- 10): 2019 (NDIR Method)	<1.0	2 (8hm)	
Lead (Pb)	pgin'	IS 5182 (Pan- 22): 2019	0.01	1 (24hrs)	
Nicket (Ni)	ng/m²	15 51 62 (Pan- 26): 2629	<6.0	29 (Annual)	
Americ (Ax)	ag/m ¹	ELES/AIR/SOR/01: 2021	<2.8	06 (Annual)	

Page 1 of 2

The Discounts total of Test Report, is moved by the Laboratory units Discount Tests and Laboratory, only in Company better based in proceedings of the contraction of the Company of the C



PLOT NO-SE, MANSAROVAR ENCLARE, TUPOCAMA META, BANCOL-BRADDI (HIGHWAND) GOT NO- ZORATCOUZZIELN

WODERSHO SERVICES PVT. LTD.

Emait info@leisusl.co.ir., eles.reschi@grood.com Phone no.: 9552-2290200 Wolsete : www.alsoni.co.ir



TEST REPORT

Test Report No.	+ELES/RNC/2024/2679	Report Release Date	18.05.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024	
ULR No.	: TC135872400000648F			

Disciplina	r: Chemical	Group: Atmospheric Pollution		ition
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Bangapa (C _a H _a)	ug/m ¹	ELES/GC/90P/96: 2023	<2.5	05(Amual)
Benzo-(a)-Pyrene	ng/m³	ELES/GC/5OP/05: 2023	413	(H(Annul)

Reviewed by

Quality Managur ELES PVT LTD. **** End of Report****

Authorised Signatory

Dr. Deependra Kumar Sinna Ph. Denwonment Frop BLES Pvt Ltd. Solvical Honor

Page 2 of 2

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TEST REPORT

Test Report No.	ELES/RNC/2024/2600	Report Researc Date	110.05.2024	
Work Order No.	13612312313	Work Order Date	28.93.2624	
ULR No.	: TC139812400000649F			

CUSTOMER DET	AELS	SAMPLE DETAILS	
Customer Namu	Hindsley Intenting Limited	Sumple Ref. No. Location Sumpleme Date	: ELESTRING/3034/A/2973 : New Paint Gath Village 10:05/3024 to 11:05/3024
Address	Lehanlags, Flankhaud-833302	Sample Russives Date Type of Sample	13.05.2024 Amirent Ale
Mines Status	: Operational	Sampling Procedure Sampling Dorte By	ELECTRIC Dat.
Period of Analysis	: 13.05.2024 to 18.05.2024	Simple Condition	Sealed & Preserved

METEOROLOGICAL INFORMATION			
1 Average Temperature (°C) 133	2	Baruminoic Prossure (mmilig)	0.7470
3 Relative Hamietty Phil 38	4	Weigher Condition	Cital

Discipline: 6	Streetal	Group: Afric	espheric Pollo	tion
Parameter.	Usit	Test Proment	Rent	Regulatory Limit
Percodate Matter (PMDF)	(min)	(8 5142 (Pan-23) 3022	59	100 (2000)
Pertusion Meter (PMI 5)	ppin ³	18-5180 (Port-24): 2019	32	60 (24hr)
Support Di-Oxide (SO ₂)	pg/m ³	25 5182 (Part 11/5es 1): 2023	8.5	80 (24tin.)
NimperDi-Oxide (NO ₃)	pagrim ³	25 3 002 (Peri-A): 2022	34.9	80 (24hrc)
Drone (O ₄)	judn*	15.5182 (Pan-9) 2019	<20.0	(00 (Hirt)
Aneroxia (59%)	uming.	(B. (140 (Part-25)) 2618	<330.8	400 (2klm)
Djehou Merjesike (CD)	make.	25 5182 (Part-10): 2018 (NDR: Mathod)	:139	2 (film)
Leuf.(Yt)	(4)/hit	16 5182 (Part-22): 2019	-93,080	1.0249(0)
Michiel (141)	rig(m)	IN 3 (R) (Port-20); 2020	-40.00	29 (Amasil)
Aronii sAri	19/6"	ELEKARGORG: 2011	42.6	(65 (Airmid) -

Page 1 of 3

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Test Report No.	: ELES/RNC:2024/2000	Report Release Date	18.85.2024
Work Order No.	13612312113	Wirk Order Date	28.65.2024
ULRNs.	- TC335872400000649F		

Disciplinal Chamical		Geouge Atmospheric Pullation		
Paracietes	Unit	Test Protocoli	Result	Rightency Limit
Research (CaHa)	og/m²	ELEDVOG/500/06: 2023	<2.5	\$\$(Access()
Bessel-(a)-Pyrone	ruini*	ELENGOSOPOS 2623	<il5< td=""><td>OH/Amost)</td></il5<>	OH/Amost)

AKAGH KUMAR Quality Managar ELES PVI. LTD

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CHECKERASING SERVICES PVT. ATD

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TEST REPORT

Test Report No.	: ELESTONC 2104/2681:	Report Beliase Date	18.95.2624
Work Order No.	13612312113	Work Order Date	128.83.2834
ULR No.	: 10135812401010690		

CUSTOMER DET	ARS	SAMPLE DETAILS	
Container Name	: Hindeles Industries Limited	Sample Reff No. Location Sampling Date	10.05/100C/S024/AA/2972 Near Pol Pol Village 10.05/2024 to 11.05/2024
Address	: Lollandags, Therkhand-835302	Sample Received Date Type of Sample Sampling Procedure	: 13.05.2024 : Amhient Air : BLPS/DOC:SMPLED
Minis Sutui	Openitional	Surugiling Done By	ELRS Pri-Lid
Project of Analysis	: 13.05.2004 to 18.05.2016	Sumple Condition	Smini & Preserved.

METEOROLOGICAL INFORMATION		
J. Average Temperature (*C) = 10.	3 Historiatelic Pressure (modify) (742)	
5 Relative Himiday (%) 159	4 Weather Condition Clear	

Discipline:	Cheulmil	Group: Alan	implicatio Publi	(Ciry)
Parameter	Unit	Tast Findand	Result	Regulatory Limit
Particulary Matter (PMT0)	142/20	19 (1182 (Part-21): 2022	66	100 (2 flun)
Pacificulate Matter (1947.5)	pp/m²	(f) S182 (Part-24); 2019	32	48 (24hrs)
Subtar Di-Oxide (NO ₆)	pg/m²	15-11-182 (Part-19/Sec-1): 2021	8.5	107 (24 less)
Nitrogen Di Oxide (ND ₃)	ppm'	35 5182 (Pwi- 6): 2022	24.7	RF (24hs)
Cerata (Ch)	signs?	19-7482 (Part-9): 2019	<20.0	100 (Slarc)
Annonia (925)	pig/m ³	III 5182 (Pun-25) 2018	<10.0	400 (\$4lins)
Carbon Momoride (CO)	sughts?	18.3182 (Part-10): 2019 (NORCMethod)	<1.0	2 (9hrs)
Load (7%)	Augho [†]	IS 5330 (Pun-22): 2015	9.009	1 (24he)
Sistaid (NI)	ngm!	29 S1X2 (Part-26): 2000	+0.6	30 (Aminst)
Animic (Ail)	ngm2	ELES/ADD/SCRVII 2021	<2.0	(Name (1)

Page 1 of 2

The December pend on Test Report is record by the Laboratory and the soil Tests and Continuous, why to Company below level is presented from the following as to the Continuous as the Continuou



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TEST BEPORT

Test Report No.	: ELESTRNC19141AU	Report Meleure Dute	18.05.2024
Work Order No.	13632312113	Work Order Date	25.03.3024
ELR No.	: 33:1358724000006598		

Dissipline Chemical		Groups Atmospheric Pollution		
Paramoter	Unit	Test Protonic	Hesalt.	Regulatory Limit
Horacon (C _e H _e)	10/201	TLENGCSOP(6, 202)	<2.5	05(Annual)
Boun-(g)-Pytens	'agin'	ELABAGCISOPAS 2023	-8.5	#UAnmal)

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Quality Moneyur ELES PVI. LED. ****End of Report****

Authoritist Menarchy
Dr. Diegosodra Korme Sincia
Ph. II Environmente Frod
vLES Put, Lin Technical Menors

Page 2 of 2

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Prised to .: 2001-2250163

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TEST REPORT

Work Order No.	: ELISANGARIPZIAZ : DODDITO	Work Order Date 28:63.2024
ULR No.	: TC3358724000016518	T. Hawk mark mark

CUSTOMER DET	AH.8	SAMPLE DETAILS	
Castomer Name	: Hindeon incurries I, in led	Sample Ref. No. Location Sensiting Date	PLES-WINCOUS-PAA/1973 Strar Shakhupuni Villego 10.65.2504 to 11.05.2624
Althos	.; Lehenbys, Mickland-835302	Bample Received Date Type of Beautic Hazeiling Procedure	ELESTROCISMPLATE
Mires State	: Opinious	Sampling Dote By	: ELES PVI, LIII.
Period of Analysis	: 13.05.2024 to 18.05.2024	Scools Cordition	Seshil & Preserval

METEOROLOGICAL INFORMATION			
1 Average Tumpurature (°C) : 33	1.3	Berometrie Presium (manifu)	:742
3 RifnOve Himidily (%) 5%	- 4	Weather Condition	Cint

Discipline	Divelatine Chemical		Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Mesett	Regulatory Limit	
Particulate Monte (PM30)	Jight.	Di 5182 (Pen-33): 2023	60	100 (240m)	
Particular blane (PM2.5)	ngm ³	Bi XIB2 (Non-24): 2019	. 33	65 (2 fbn)	
Sulpitor Di Ositte (SO ₃)	sig/m"	(S 5182 (Part-11/Sec-1) 2023	7.1	90 (2/8ss)	
Milmgos Di-Onnie (NO ₃)	pg/m	15 5187 (Part-4): 1017	18.8	90 (2-thro)	
Clime (Cc)	agine"	25 5167 (Nov-9), 2019	<9.6	100 (Stars)	
Anmaia (NH.)	p±/m/	DE 5182 (Plate 25); 2018	40.0	400 (24(m)	
Carbon Minus Ide (CO)	sug/m*	19.5182 (Part-10); 2019. (NDIK 55ehod)	43.8	2 (0m)	
Leut/Pbj	24/m	19 5132 (Pars-22): 2019	0.005	1 (24/24)	
Nickel Oils	ng/bi ¹	19 5182 (Peri-26): 2020	<[.]]	-20 (Atmost)	
Aremia (Ad)	ng/m*	ELESVADI/SOPPRI 2021	<2.0	.06 (Amost)	

Page 1 of 2

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ENGINEERING SERVICES POT, LCD.

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TEST REPORT

Test Report No.	ELESTRIC/2016/2002	Report Release Date	18.65.2028	
Work Deter No.	13603000	Work Order Buss	29.03.2024	
ULRNu	: 1C13812400006588			

Discipline: Chemical		Group Almospheric Pullation		
Parameter	Unit	Test Protorul	Result	Regulatory Limit
Denocue (Califa)	100/100	ELES/GC/90P96-2007	<2.5	05(Amod)
Bunno-(n)-Pyrene	na/m²	ELES/GC/80P461: 2021	<0.5	(H(Armel)

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Quality Manager

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ELES PVI Ltd. Technical Claim

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American State Company Company



TEST REPORT

First Report No.	/ ELES/RNC/2024/2683	Report Release Date	: 10.05.2804	
Work Order No.	: 13012312113	Work Order Date	1.28.65.2924	
ULICNS.	1.71.1358724090006529			

CUSTOMER DETAILS		SAMPLE DETAILS		
Cutomir Name	: Hadalar Interpret Limital	Sample Ref. Ma. Location Sempling Data	: III.ES-RNC2014/AA/2974 : Near Dipa Kajam Village : III.05.2024 to 11.05.2024	
Address	: Loborhaga, Hurchard-035302	Sample Received Data Type of Sample	: 13.05.2624 : Amhion Air	
Mines Status	1. Operational	Scooling Procedure Sempling Done By	: ELES/DOC/SMPL/02 TLES/Pvt. Did.	
Period of Analysis	: [3.05.3624 to 18.05.2024	Strepte Condition	: Seoled A. Prover cut	

METEOROLOGICAL INFORMATION		
1 Average Tonperature (*C) ±35	3 Diamentric Pressure (mm/lg)	1747
1 Relative Hamilto (%) 19	4 Wester Confiden	: Cline

Discipline:	Denical	Group: Alm	Group: Atmospheric Politeion		
Parteneter	Unit	Tiest Frutuess	Toudt	Regulatory Link	
Particular Mane (PMT)	pp/m1	15 51 92 (Part- 278): 2022	61:	100 (200m)	
Particular Market (PMC 5)	pg/m ²	35 5182 (Part- 34): 2019	35	90 (2Hm)	
Suplar Di-Odda (SOs)	sug/re ³	25 5 (82 (7sr) - (1/Sec - 1): 2023	1.6	80(28tps)	
Himgen Di-Onkie (NO.)	pg/m²	15 file2 (Part-4): 2021	347	10 (Silbed	
Chrone (Oc)	jug/in/*	15 5140 (Port-9); 2019	<20.0	100 (Blind)	
Acmeris (NH)	pg/m ⁵	JH 1182 (Pan-25), 2018	<0.00	400 (241:0)	
Curbon Motoroldic (CO)	mgm [†]	ER 51 63 (Part- 16) 2010 (NORTE Method)	<3.0	2 (flin)	
1,end (Ph)	pagnor.	15 5132 (Part-22) 2010	(0.00)	1 (20to)	
Nickel (NI)	1900	75-2193 (Part-26): 2020	<80	20 (Annual)	
Arsenn (Ari	ngo."	DESARISONO 7017	<2.0	Ol (Appeal)	

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Test Report No.	ELESTOC/2024/2683	Report Ridease Date	18.05.2024
Wirek Order No.	: 1391292113	Work Order Date	29.83.2924
ULR Nu.	TC138871#0000052F		

Disopline Cherical		George Attempterie Politation			
Partomotor	32600	Test Protorol	Reult	Begstoney Limit	
Hessen (C.H.)	98/W	ELES/OC/90/99, 2027	-2.5	05(Annial)	
Benze (k) Pyrms	ngin*	ST HAVIGOROPHIE 2023	<0.5	91(Annual)	

AKASPHOLINAS Quality Managar ELES PVT. LTD.

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TEST REPORT

Test Report No.	: ELES/RNC/2024/2891	Report Release Date	: 28.05.2024	
Work Order No.	: 13612312113	Work Order Date	28,63.2024	
ULR No.	: TC135872400000851F			

CUSTOMER DE	TAILS	SAMPLE DETAILS	menera an a anaka menerana sa
Customer Name	: Hiodaico Industries Limited	Sample Ref. No. Sampling Date Sample Received Date	: ELES/RNC/2024/DW/2978 : 11.05.2924 : 13.05.2924
Address	: Leitardags, Jharkhand-835302	Type of Sample Source/Location of Sample	: Drinking Water : Gorderi Baoxita Mines (584,19ht)
Mines Status	Operational	Sampling Procedure Sampling Done By	: ELES/DOC/SMPL/01 : ELES Pvt. Ltd.
Period of Analysis	13.05.2024 to 20.05.2024	Sample Condition	: Sealed & Preserved

Discipline : Chemical		Group :	Water		ory Limit 10300:2012
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Porminible Limit
pH (st 25.3°C)		APHA 24 [®] Ed.2023, 4500-H	6,52	5.5-8.5	No Relaxation
Turbidity	NTU	APHA 20° Ed.2025, 2120 B	0.08	1.0	5.0
Tissw	+	APHA 24° Ed 2023, 2160 C	Agreeable	Agreeable	Agreeable
Odour	120	15-3025 (Part-5) :2018	Agreeable	Agrecable	Agreeable
Colour	Hazen	APHA 24 ⁴ Ed.2023, 2120B&D	1.0	5	15
Yetal Dissolved Solids (TDS)	mg/L	APHA 24th Ed. 2023; 2540B,C&D	50	300	2000
Chloride (as CI)	mg/L	APHA 24 ⁸ Ed.2023, 4500 CLB	9.6	250	1000
Fluoride (ss F)	mg/L	APHA 24" Ed 2023, 4500 F4D	8DL (DL: 0.1)	1.0	1.5
Total Alkalinity (as CaCO ₄)	mg/L	APHA 24° Ed.2023, 2326 B	6.1	200	500
Total Hardness (as CaCO ₃)	mg't.	APHA 24 st Ed.2023, 2340 C	4,0	200	500
Sulphate (as SO _e)	mg/L	APHA 24 th Ed.2023, 4500 SO ₂ ⁻³ -E	BDL (DL: 1.0)	200	400
Nimie (su NO ₃)	.Pgm	APHA 24th Ed.2023, 4500 NO ₃ -B	(DL: 0.5)	45	No Relatation

Page 1 of 4

The Discussion series in Terr Report with the Laboratory under Transmit Terror and Configure, refer to Company leads to pre-approved from it. The results often in the Test Report with the probability of the polytheological come by the Laboratory of p. The pictures to test in the Test Report informs the bearing time by the Laboratory of p. The pictures to test in the Test Report informs the bearing time by the Laboratory of p. The pictures to the Test Report in the time of the probability of the picture of the pict



PLOT NO. 30, MANSARONAR BYCLAVE, TUPUGAMA MAPIA, RANCHI-BURDOS (IMARIKAMO) GET NO. 20440297137131

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TEST REPORT

Test Report No. : ELES/RNC/2024/2891 Report Release Date : 28.05.2024

Work Order No. : 13612312113 Work Order Date : 28.05.2024

ULR No. : TC135872400000851F

Discipline: Chemic	ul	Gran	p: Water		ory Limit 16500:2012
Parameter	Lair	Test Protocol	Result	Azorptoboc Limit	Permissible Limit
Phenolic Compound (as C.H.OH)	mg/L	15 2025 (Part 43/Soci): 2022	BDL (DL: 0.001)	0.001	0.002
Free Residual Chlorine (RFC)	mg/L	IS 3825 (Part-26): 2021	BDL (DL± 0,1)	0.2	1.0
Calcium (as Ca)	mg/L	APHA 24 ⁸ Ed.2023, 3500 Ca B	1.0	75	200
Anienie Serfactanis (as MBAS)	mg/L	APHA 24 ⁸ E4.2823, 554040	BDL (DL: 0.025)	0.2	1,0
Discipline : Chemic	cal	Gre	rup : Residues i	n Water	
Aluminum (as Al)	mg/L	IS 3025 (Part-55):2009; RA2019	HD1. (DL: 0.02)	0.03	0.2
Arsenic (38 Ax)	mg/L	15 3025 (Part-37): 2022	BDL (DL: 0.005)	0.01	No Relaxation
Boron (as 21)	mg/L	IS 3025 (Part-57) / 2021	BDL (DL: 0.2)	0.5	2.4
Cadmium (as Cil)	.Pgm	APBA 24 th E4.2023; 311108	BDL (DL: 0.003)	0.003	No Relaxation
Total Chromium(as Cr)	mg/L	APHA 24" Ed.2020; 31118	BDL (DL: 6.03)	0.85	No Relocation
Copper (as Cu)	mg/L	APHA 24 th Ed.2025; 31118	BDL (DL: 0.03)	0.05	1.5
Cyanide (ns CN)	mg/t.	APHA 24 th Ed.2023, 4500 CN-8	BDL (DL: 0.012)	0.05	No Relaxation
fron (as Fe)	ngL	APHA 24 th Ed.2023; 3111B	0.079	1.0	1.0
Lead (as Pb)	mg/L	APHA 24 th Ed.2023; 3111/B	(DL: 0.01)	0.01	No Relaxation
Manganese (as Mn)	ngt.	APHA 24 th Ed.2023; 3111B-	BDL (DL: 0.05)	0.1	0.3
Mercury (as Hg)	ngL	IS 3025 (Part-48): 2019	BDL (DL: 0.001)	9,001	No Relexation
Selenion (as Se)	ngt.	IS 3025 (Part-56): 2019	(DL; 0.01)	10.0	No Relaxatio

Page 2 of 4

The Discounts stand as Ton Report, is insuffly the Laboratory under Guerral Tierra and Conditions, only or Company letter food or pre-appeared forms. The results shown in the Ton Report nells or follows only to the politicality of one by the Laboratory only. The information stands in the Ton Report reflects the fooling show by the Laboratory or the tierral is not tone of the reflect of the other control of the adversarial or the information of the information of the previous of the supervised on the report of the substantian which is provided on the report of the substantian which is provided on the region of the Laboratory. Alteriors is reflect in the few places and the report in no relative and or inspect, exclude a previous formation and provided and the report in no relative and of the report in the substantial tier. The Report is reflected on the published substantial and particles in terms of the result of the substantial tier. The substantial is a facilities on the control of the result of the Ton Report is instead in adversarial to the false control of the result of the



PLOT NO. 50, 1841/SAROVAR ENCLARE, TURVIDANA HATIA, RANCHI-BIADOS (MARKININIS) GST NO.- MAAKCHSTIJINIIA

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TEST REPORT

Test Report No. : ELES/RNC/2024/2891 Report Release Date : 28.05.2024
Work Order No. : 13612312113 Work Order Date : 28.03.2024

ULR No. : TC135872400000851F

Discipline : Chemical		Group Resid	ues in Water	Regulatory Limit An per 1810/00/2012	
Parameter	Unit	Test Protocol	Result	Acceptable Person Lieux Lin	
Zinc (as Zn)	mg/L	APHA 24 ⁴ Ed.2023; J111B	8DL (DL: 0.1)	- 5	15
Polynocleur Aromatic Hydrocarbons (PAH)	pg/L	ELES/GC/SOP/04: 2021	(DL: 0.05)	1.0	No Relaxation
Polychlorinated higheryly (PCB)	pgrt.	ELES/GC/SOR/03: 2023	BDL (DL: 0.1)	0.5	No Relaxation
Pesticides				L	mit
Alacidor	μg/t.	ELES/GC/SOP/01; 2023	BDL (DL: 0.5)		20
Atregise	μg/L	ELES/GC/SOP/61: 2023	BDL (DL: 0.5)	- 1	1.0
Buttehlor	μg/L	ELES/GC/SOP/01: 2023	8DL (DL: 0.5)	125	
Chlorpyriphos	µg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	30	
Ethion	pg/L	FLES/GC/50P/01; 2023	BDL (DL: 0.5)	3.0	
Malathion	Jan	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	, Pa	90
Methyl garathion	agT.	ELES/GC/SOP/01: 2023	BDL (DL: 0.1)	0	30
Monocrettiphos	pg/L	ELES/GC/SOP/01: 2023	HDL (DL: 0.5)		0,1
Phorate	pp1.	ELES/GC/SOP/01: 2023	BDL (D£4 9.5)	2.0	
Phorate Salphone	agL	ELESGC/S00/01: 2023	BDL (DL: 0.5)		Ħ,
Dieldrin	pg/L	ELES/GC/SOP/02: 2023	(DL: 0.01)	0	.03
Alpha HCH	µg/L	ELES/GC/SOP/02: 2023	(DL: 0.006)	0	10

Page 3 of 4

The Lieument stated as Test Report, as intend by the Laboratory under Geyard Terras and Conditions, only not Configure better hand as you approved forms. The results above to the time of time of the time of the



PLOT NO. 30, MANSANDIVAN ENCLAND, TUPVIDANA MITTA, MANCHI-ERRODO (IMM BISMAND) GCT NO. MANIFER LIDITAL

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TEST REPORT

Test Report No.	: ELES/RNC/2024/2891	Report Release Date	: 28.05.2024
Work Order No.	13612312113	Work Order Date	1 28.03.2024
ULR No.	TC135872400000851F		

Pesticides				-	
Parameter	Unit	Test Protocol	Result	Limit	
Delta HCH	ug/L	ELES/GC/SOP/02: 2023	(DL: 0.02)	0.04	
Gomma HCH (Lindane)	ug/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	2.0	
Endeaulfan (alpha, bera and salphan)	ug/L	ELES/GC/90P/02: 3023	BDL (DL: 0.05)	0,40	
DOT(o,p and p,p-isomers of DOT,DDEand DOD)	wg/L	ELES/GC/90P/02: 2023	BDL (DL: 0.05)	1.0	
Discipline : Biological		Group	: Water		
Total Coliform (Qualitative)	Per 100 mL	IS 15185: 2021	Not Detected	Shall not be detected	
Ercherichia coli (Qualitative)	Per 100 ml.	IS 15 (R5: 3021	Nat Detected	Smill not be detect	

Remarka: L. plf. and RFC done at Lah.

AKASIA KUWAR Quality Managur ELES PVT LTD

****End of Report****

Authorised Signatory
Dr. Deependra Kumar Sinha
Ph. D Environmental Brigg.
ELES Pvt. List. Technical Manager

Page 4 of 4

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Website: www.olespi.cz.ln

TEST REPORT

Test Report No.	: ELES/RNC/2024/2891	Report Release Date	29.05,2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name	Hindaloc Industries Limited	Sample Ref. No. Sampling Date Sample Received Date	: ELES/RNC/2024/DW/2978 : 11.05.2024 : 13.05.2024	
Address	: Lohardaga, Jharkhand-835302	Type of Sample Source/Location of Sample	: Drinking Water : Gurdari Bauxite Mines (584.19ha)	
Mines Status	Operational	Sampling Procedure Sampling Done By	: ELES/DOC/SMPL/01 : ELES Pvt. Lid.	
Period of Analysis	: 13.05.2024 to 20.05.2024	Sample Condition	: Scaled & Preserved	

Discipline : Chemical		Group : Water		Regulatory Limit to per 15 10500:2012	
Parameter	Unit	Test Protucul	Result	Acceptable Limit	Ferminible Limit
Mineral Oil*	mg/L	CL-6, 15: 3025 (P-39)	(DL: 0.1)	1.0	Ne Relaxation

Remarks: (*) Parameters are outsourced to other Lab.

****End of Report****

Authorized Signatory
Dr. Deependra Kurner Sinhal
Ph. Diswigamanial Brugs
ELES Put. List. Technical Manager

Page 1 of 1

The December stand or Test Report, is mostly in bulbonessy under Greenel Terms and Confidence, only on Company letter bear in prospersion from it. The country which is in Test Report entry or inflate only in the potentiality of the the test and an above the Early Report of the standard and the Test Report of these the Laboratory is the time of cheerly interpreted and the test proposed by an above the proposed on the report, where the information is the formation of the provided on the report, where the information is the interpret which appears the first provided by the cheer. The Report causes in reportant accountry in Test and the provided are provided as the report of the report is not information of the Laborators. The Report is not reported a country in the first provided and altertary, and for any large account on the test information of the Laborators. As the same of the Laborators is dissued to the Inflations of Hardington and provided are considered attention of the country or appearance of the Test Report is an adverted and of Spatians was the procurated to the foliations of interpret provided and the same accountry of interpret and the same accountry of the Test Report is an adverted and of Spatians was the procurated to the foliation of the test provided and the same accountry of the test provided and accountry of interpret and the same accountry of the test provided and the same accountry of th



PEDT NO-30, MANSAROVAR ENCLAVE, TUPUDIANA HATIA, RANCIN-834002 (MARKHAND) GST NO-20AAKCEPT35024

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TEST REPORT

Test Report No.	: ELES/RNC/2024/2907	Report Release Date	1 28.05.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400000867F	11-00-00-00-00-00-00-00-00-00-00-00-00-0		

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Neme	: Hindelco Industries Limited : Lehardaga, Jharkhead-835302	Sample Ref. No. Sampling Data Sample Received Data Type of Sample Source of Sample Sampling Procedure	- ELES/RNC/2024/EF/2980 : 10.05/2024 : 13.05/2024 : Effluent Water : Work Shop Effluent - Gurdan Bauxite Mines (584.19 ha) : ELES/DOC/SMPL/01	
Mines Status	Operational	Sample Collected By	: ELES Por. Ltd.	
Period of Analysis	: 13.05.2024 to 20.05.2024	Sample Condition	: Sealed & Preserved	

Discipline : Chemical		Group : Pollution & I	Group : Pollution & Environment		in CPCB belie VI
Parameter Unit		Test Protocol	Result	Intent Surface Water	pronounce of
pH (at 25.3°C)	-	APHA 24 [®] Ed 2023,4500-H*	6.98	5.5-9.0	5,5-9,0
Total Disselved Solids (TDS)	mg/L	18-3025 (Part-16): 2023	497		-
Total Suspended Solids (TSS)	mg/t.	IS 3025 (Part-17): 2022	8.0	100	200
Dissolved Osygen (DO)	mg/L	IS 3025 (Pan-38): 2019	6.2	12	-
Biochemical Oxygen Demand (BOD) (at 27 °C for 3 days)	mg/L	18 3025 (Part-44): 2023	4.3	30	100
Chemical Oxygen Demand (COD)	mgil	18 3025 (Part-58): 2023	39.6	250	
Dissolved Phraphare (as P)	mg/L	IS-5025 (Part-31/Sec-1): 2022	BDL (DL; 0.04)	5,0	
Fluoride (m F)	mg/L	18:3025 (Part-60): 2019	0.75	2.6	1.3
Sulphide (ni S)	mg/L	IS 3025 (Pars-29) : 2019	BDL (DL: 8.04)	2.0	2
Oil & Grosse	mg/L	15 3025 (Part-39): 2021	1.2	10	10

Page 1 of 2

The Discourse stated as Tota Report, to instact by the Liftenbory miler General Turns and Conditions, only to Compute histor boad in pic-approved forms. The conditions in the Total Report with a witness only to the partnershow here by the Liftenbory only. The information must as the Total Report of the stating that by the Liftenbory or the information which is provided by the Liftenbory or only in the stating of the state of the s



PLOT NO-70, MANSAROVAN EINCLAVE, TUPUDANA HATVA, BANCHI-RINGGI (THURKHANO) 637 NO-36AARTENTI JURN

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TEST REPORT

Test Report No.	: ELES/RNC/2024/2907	Report Release Date	: 28.05,2024
Work Order No.	: 13612312113	Wark Order Date	128.03.2924
ULR No.	: TC135872400000867F		

Discipline: Chemical		Group: Residues in Water		Discharge Limits CPCII EPR, 1986 Schwide VI	
Parameter Unit		Test Protocol	Routt	Inland Surface Water	Land for Irrigation
Lead (as Ph)	mg/L	APHA 24 th Ed 2023, 3111 B	BDL, (DL: 0.01)	0.1	1947
Manganese (as Ma)	mg/L	APHA 24 ^A Ed 2023, 3111 B	BDL (DL: 0.05)	2.0	350
Moreury (sa Hg)	.Tym	15 3025(Pan=18): 1994; RA2019	BDL. (DL: 0.001)	0.01	***
Nickel (as Ni)	mg/L	APHA 244 Ed 2023, 3111 B	(DL; 0.01)	3.0	
Ziec (as Zn)	mg/L	APHA 24° Ed 2023, 3111 B	RDL, (DL: 0.1)	5.8	**

Remarks: pH done at Lab.

Reviewed by AKASH KUMAR Quality Menager FLES PVT, LTD

****End of Report****

Dr. Deependre Komer Sinklu-Pt. Delwiconcertiffengs ELES Pvt. List. Technical Manager

Page 2 of 2

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ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT.LTD.

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

Gurdari Bauxite Mine-Environmental Monitoring Report

June 2024



CONTENT

Hint	laker Industries Giordari Upasita Mino Environmental Maninolog Report June 2024.
	Gurdari Haucite Miau
	AMBIENT AIR QUALITY+ CORE ZONE
1	Entrance Gate / Near Mine Office
2.	Near Kerkeng Mines
3	Nase Mine Weigh Bridge
4	Near Dholti Kutumb
	AMBIENT AIR QUALITY-BUFFER ZONE
J.	Near PakriGoda Village
4	Near Pol Pol Villaga
3	Near Shakhagani Village
+	Near DippKujam Village and 8 Engl





PLOT NO-SO, MANSAROVINA ENCLAVA, TUPLDANA MATIA, RANCIN-ESERIS (MANSHAND) EST NO-20MARCEFFEDUSE

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TEST REPORT

Test Report No. : ELES/RNC/2024/3389 Report Release Date : 24.06.2024

Work Order No. : 13612312113 Work Order Date : 28,03.2024

ULR No. : TC1358724000013409

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindulco Industries Limited	Sample Ref. No. Location	ELES/RNC/2024/AA/3840 Emerance Gene/Near Mine Office Genturi Bassite Mine (584.19ha	
Address	: Lohandiga, Jherkhand-835302	Sampling Date Sample Received Date Type of Sample	17.96.3024 to 18.96.3024 : 20.06.2024 : Architect Air	
Mines Status : Operational		Sampling Procedure Sampling Done By	ELES/DOC/SMPL/02	
Period of Analysis	: 20.06:2014 to 14.06:2024	Sample Condition	: Sealed & Preserved	

METEOROLO	GICAL INFORMATION			
1 Average Ter	opendure (*C) : 38	2	Barometek Pressure (mmHg	1 1742
3 Relative Hu	midity (%) : 59		Weather Condition	: Clear

Discipline:	Chemical	Group: Atm	Group: Atmospheric Pollution			
Parameter	Ueit	Test Protocul	Result	Regulatory Limit		
Particulate Matter (PM10)	ugm ³	15 5182 (Part-23): 2022	71	100 (24hrs)		
Particulate Matter (PM2.5)	µg/m ⁹	IS-5182 (Part-24): 2019	40	60 (24hm)		
Sulphur Di-Oxide (SO ₃)	ugim!	TS 5182 (Part-TVSec-T): 2023	10,8	80 (240m)		
Nitrogen Di-Oxide (NO ₂)	hh.m.	IS 5182 (Purt-6); 3022	26.1	80 (24hm)		
Czone (O ₁)	pg/m²	18-5182 (Part- 9): 2019	<20.0	1(0 (8hrs)		
Ammonia (Nilia)	jugiro"	IS 5182 (Part- 25): 2018	<10.0	400 (24hrs)		
Carbon Monoxide (CO)	mg/m³	15 5182 (Part- 10): 2019 (NDIR Method)	√1.0	2 (8hrs)		
Lead (Pb)	pg/m²	15 5182 (Part- 22): 2019	0.015	1 (24hrs)		
Nickel (NI)	ngim1	IS 5182 (Part- 26): 2020	<5.0	20 (Annual)		
Anunic (Aii)	ngine*	ELES/AIR/SOP(01: 2021	<2.0	06 (Amusi)		

Page 1 of 2

The December month in Total Report, is inseed by the Laboratory inhise Georgia Terms and Conditions, only a n Company inhise hand a propagative distant. The social advances in the Total Report value on colors only to the inhibitative on the St. Laboratory on the Total Report in the Standard St. The social advances in the Standard St. The Standard St. The Laboratory on the Standard St. The Standard St. The Laboratory is the superior of all the information of this provided on the report and propagative for any layed and provided by the class. The Standard stranges is full and any part of the superior is not related to the superior of the Laboratory. The Report is the not part to the problem, advances and any part of the superior is not provided by the class of the Laboratory. The Report is the transmission of the Laboratory of the Standard St. The Standard St



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TEST REPORT

Test Report No.	: ELES/RNC/2024/3389	Report Release Date	± 24.06.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024	
ULR No.	: TC135872410001340F	1,1-2,10,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0		

Disciplines Chemical		Group: Atmospheric Pullation			
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Boszene (C _s H _s)	ug/m²	ELES/GC/90P/06: 2023	<2.5	05(Annual)	
Henry-(ii)-Pyrene	ng/m ⁰	ELES/GC/SOP/05: 2023	<0.5	Ol(Annual)	

AKASHAKUMAR Quality Menagur ELES PVT_LTD

have End of Report ****

Authorized Signatory

Dr. Deependra Kurner Sinha.
Ph. D Environmental Engli
HLES Pvt. Ltd. Technical Manager

Page 2 of 2

The December rested as Test Report, is issued by the Lybertanny under General Terms and Commission, only by Computy letter bood by pro-pageword from The header shows in the Test Report color on the latest color by the Lybertanny and the internation store on the Test Report colors are the Making show to the Lybertanny or the medicination of the december of the latest colors and the latest are the latest as provided by the close. The Report colors are the report colors are the report of the report of the report on the latest as provided by the close. The Report colors are the report of the report of the report on the latest are the report of the report of the report of the report of the latest are latest lates



PLOT NO. BE, MEANS AND UNIT FINELY FUNDAMA HATTA, RANCH 254803 (JHANDUANO) GET NO. 2044 (TENTURE)*

NGINEERING SERVICES PVT. LTD.

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Winterfor: www.chrupi.co.le

TEST REPORT

Test Report No.	; ELES/RNC/2024/3390	Report Release Date	: 24.06.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	TC135872400001341F	3-1000111001134-001	Translation (Control of Control o	

CUSTOMER DET	MLS	SAMPLE DETAILS		
Customer Name	Hindalee Industries Limited	Sample Raf, No. Lucation	: ELES/INC/X/24/AA/7841 : Near Karkarg Mines Guntari Bacaite Mine (584.19ka)	
Address	Lotumbiga, Darkhesd-835302 Operational	Sampling Date Sample Received Date Type of Sample Sampling Procedure	: 17,06.2024 to 18.06.2024 : 20.06.2024 : Ambient Ale : ELES/DOC/SMPL/02	
Mines Status	- Operational	Sampling Done By	I ELES Por Lail	
Period of Analysis	20.06,2024 to 24,06,2024	Sample Condition	Scaled & Preserved	

541	ETEOROLOGICAL INFORMATION				
1	Average Temperature (*C) : 38	2	Harometric Pressure (mod)	(g) :742	
1	Relative Hamidity (%) : 59	4	Weather Condition	Cine	

Disciplines (Chemical	Group: Atmospheric Pollution				
Parameter	Unit	Test Protecul	Result	Regulatory Limit		
Particulate Matter (PM10)	ug/m ¹	15 5182 (Part- 25): 2022	.58	100 (24hn)		
Particulate Matter (PM2.5)	pg/m²	15:5182 (Part-24): 2019	32	60 (24hrs)		
Sulphur Di-Oxide (50 ₅)	pg/m ¹	IS 5182 (Part-11/Sec-1): 2023	7.8	80 (24hm)		
Nitrogen Di-Oxide (NO ₂)	pg/m ²	18 5182 (Part- 6): 2022	22.5	80 (24les)		
Oxine (O ₁)	MANUAL.	IS 1182 (Part- 9): 2019	<20.0	100 (Rhrs)		
Ammonia (NH ₃)	pages.	15 5182 (Part- 25): 2018	<10.0	400 (24hm)		
Carbon Monoside (CO)	mg/m ²	25 5182 (Part- 10): 2019 (NEXR Method)	<3.0	2 (Rhn)		
Lend (Pb)	'Mg/m"	85 5182 (Part- 23): 2019	0.039	1 (24hrs)		
Nickel (NI)	ngin ³	IS-5182 (Part-26): 2020	<6.0	20 (Annual)		
Anenic (As)	ng/m²	ELES/AIR/50P/01: 2021	<2.0	06 (Annual)		

Page 1 of 2

The Discourage stand at Tota Report, to be used by the Laboratory under Greened Terrae and Conditions, only on Company Labor hand in pre-approved from the standard of the Discourage of the report of the Discourage of the Disco



PLOT NO. 20, MANSARDIAR ENCLAYE, TURGOANA MATIA, RANCHI-EFROZO (MARRIMINE) BUT NO. ESKARTET LIBELIA

INGINIERING SERVICES PVT. LTD.

Emil (duBelegicum, electroch@emei.com Phone na.: 8653-2790303 Website : www.elespi.co.in



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TEST REPORT

Test Report No.	: ELES/RNC/2024/3399	Report Release Date	: 24.06.2024	
Work Order No.	: 13612312113	Work Order Date	28,63,2624	
ULR No.	: TC135872400001341F	111-200-000-0010	The state of the s	

Discipline: Chemical		Group: Atmospheric Pollution			
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Harvane (C _c H _c)	Jugrim ³	ELES/GC/9OP/06: 2023	4.5	05(Annual)	
Benzo-(s)-Pyrene	rg/m³	ELEX/GE/SOP/05: 3023	-01.5	01(Annual)	

AKASH KUMAR Quality Managur

FLES PVT LTD.

****End of Report****

Authorized Signatory

Dr. Deependra Kumar Sinha Ph. D Environmental Engg ELES Pvt. Ltd. Technical Manager

Page 2 of 2

The Department would be Toot Report, to travel by the Laboratory make General Toron and Directment, only on Company before hard to presupposed formst. The productions in the Tark Report ratio or the basis or to be philadequal above by the Laboratory is to be principled on the Toot Department on the production of the first of the company of the travel of the travel



PLOT NO-30, MANGARDVAR ERICLAYE, TUPUGANA HATTA, BANCHI ASAGOS (LHARRIMANO) 637 NO-26A60797135324

ENGOVERNOVO SERVICES PVT. LTD.

Email: influiferent.co.in. electrochiffigmail.com Phone no.: 3655-2290108 Ventallo: serve electrochin.lo



TEST REPORT

Test Report No.	: HLES/RNC/2624/3391	Report Release Date	: 24.06.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135872400001342F		

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name	± Hindaico industries Limited	Sample Ref. No. Location	ELES/RNC/2024/AA/9842 : Near Mine Weigh Bridge Gurdari Barorte Mine (584,19tm)	
Address	: Lohardaga, Barkhand-835302	Sampling Date Sample Received Date Type of Sample	: 17.06.2024 to 18.06.2024 : 20.06.2024 : Ambient Air	
Mires Status	: Operational	Sampling Procedure Sampling Done By	ELES DOC/SMPLAR	
Period of Analysis	: 20.06.2024 to 24.06.2024	Sample Condition	Sealed & Preserved	

METEOROLOGICAL INFORMATION			
1 Average Temporature (*C) : 38	2	Barometek Pressure (mmHg)	: 742
3 Relative Humidity (%) : 59	4	Weather Condition	:: Clear

Discipline: (Chemical	Group: Atm	ospheric Pulh	rtion
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	hittar ₃	18:5182 (Part-21): 2022	69	100 (24hrs)
Particulate Matur (PM2.5)	µg/m³	IS 5182 (Parts 24): 2019	41	60 (24hn)
Sciphur Di-Oxide (50 ₁)	pg/m ²	IS 5182 (Part-1)/Sec-1): 2023	11.5	80 (24trs)
Nitrogen Di-Oxide (NO ₃)	μg/m³	35 5182 (Part- 6): 2022	35.9	\$0 (24hn)
Ozone (O ₁)	agm*	18 5182 (Part- 9): 2019	<20.0	100 (8hrs)
Ammonia (NH ₀)	ugfer*:	15 5182 (Part- 25); 2018	<16.0	400 (24hrs)
Carbon Monoxide (CO)	mg/m ³	ES 5182 (Peri-10): 2019 (NDIR Method)	<1.0	2 (fbn)
Lead (Pb)	µg/m ²	IS 5187 (Part-22): 2019	9.014	T (24hn)
Nickel (NI)	mpm ²	18-5182 (Part- 26): 2020	<6.0	20 (Annual)
Anenic (Ak)	ngtri*	ELES/AIR/SOR01: 2621	<2.0	U6 (Annual)

Page 1 of 2

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PLOT NO. JO, MANSARDNAR ENCLAVE, TUPLIDANA NA TIA, MANCHI-ESHOOD (JANBRIMAND) 617 NO. 20148[TV713030]

INGINETHING SERVICES PVT, LTD.

Eouil: info@eleusico.in., eleuranshi@erail.com Murre nu.: 0653-2290100 Websto : www.eleusico.in



TEST REPORT

Test Report No.	: ELES/RNC/2624/3391	Report Release Date	: 24.06.2024	
Work Order No.	1 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400001342F			

Discipline: Chemical		Group: Atmospheric Pullution			
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Benzonii (C _p H _k)	µg/m³	ELES/GC/SOP/06: 2023	<2.5	05(Armad)	
Benzo-(a)-Pyrene	19/31	ELES/GC/SOP/05: 2023	40.5	01(Annual)	

AKASH KOMAR Quality Managur ELES PVT, LTD

**** End of Report****

Antivorsed Signatory
Dr. Despendra Kumar Sinhal
Ph. D Environmental Enga
ELES Pvt. Ltd. Technical Mennger

Page 2 of 2

The December 4 shades Test Report, in bound by the Laboratory units Content Terms and Continues, only an Content board in propagation of terms. The results across to the Test Report of the analysis of the principles of the State State



PLOT NO-RI, MARSAROYCAN FINCLAIRE, TUP-IDANIN MATIA, BONCH-ESREDI (MARKHAND) BIT NO-2004ECET/1305H

ENGINEERING SERVICES PYT. LTD.

Email: info@glassics. electrochid amakanii Pinana na.: 6651-2200103 Waladia: avana alagi (as.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/3392	Report Release Date	: 24.06.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2924	
ULR No.	: TC135872400001343F			

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	Hadales Industries Limited	Sample Ref. No. Location	: BEES/RNC/2004/AA/3843 : Near Dhob! Kutumb; Gurturi Bucutte Mine (584.19ha)
Address Mines Status	: Lohardaga, Thurkhand-835302 : Operational	Sampling Data Sample Received Data Type of Sample Sampling Procedure	: 17,06.2024 to 18,06.2024 : 20,06.2024 : Ambient Ale : ELES/DOC/SMPL/02
Miner States	: Cociations:	Sampling Danie By	: ELES PV. Ltd.
Period of Analysis	20.06.2024 to 24.66.2024	Sample Condition	: Scaled & Preserved

M	ETEOROLOGICAL INFOR	MATION			
1	Average Temperature (*C)	138	2	Baronetos Pressure (mmHg)	743
3	Relative Humidity (%)	:39	4	Weather Condition	Cieur

Discipline: C	hemical	Group: Atm	ospheric Polic	tion
Parameter	Unit	Test Protocol	Hesult	Regulatory Limit
Particulate Metter (PM10)	µg/m²	15:5182 (Part- 23): 2022	60	100 (24km)
Particulate Metter (PM2.5)	µg/m²	IS 5182 (Part- 24): 3019	35	60 (24krs)
Sulphur Di-Oxide (SO ₂)	ug/m ³	15:5182 (Pen-11/Sec-1); 2023	7.8	80 (24hm)
Nitrigen Di-Oxide (NO ₁)	ug/m*	3S 51 82 (Part- 6): 2022	24.5	80 (2-0es)
Ozone (O ₂)	ag/m*	15:5182 (Part- 9): 2019	<20.0	100 (Shrii)
Ammonia (Nilia)	µg/m²	IS 5182 (Part-25): 2018	<10.0	400 (24hrs)
Carbon Monoside (CO)	mg/m²	1S 5182 (Part-10); 2019 (NDIR Method)	<1.0	2 (Mins)
Loid (Ph)	ng/m²	19 5182 (Part- 22): 2019	0.007	1 (24lins)
Nichel (Ni)	ng/m²	IS 5142 (Part- 26): 2020	<6.0	20 (Aemail)
Antric (As)	rg/m³	ELES/AIIL/SOP(0): 2021	<2.0	06 (Annual)

Page 1 of 2

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PLOT NO. 30, MANUARONAS EHICLAVE, TUPUDANA HATIA, RANCH-ESEDD (INAAKHINO) IST NO. 20AIDZERTSEDJI

INCOVERNING SERVICES PVT. LTD.

Email: lefo@nicapi.co.in , electronchi@gmail.com Phone no.: 0651-2290103 Website | executaristics.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/3392	Report Roleuse Date	24.06.2024	
Work Order No.	: 13612312113	Work Order Date	28.63.2624	
ULR No.	: TC138872400081343F	- Halling Company Comp		

Discipline: Chemical		Group: Atmospheric Pollation			
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Borzone (CaHa)	µg/m ³	ELES/GC/80P/06-3023	<2.5	05(Annual)	
Berzo-(u)-Pyrene	ng/m³	ELES/GC/SOP(05: 3003	<0.5	(bunneA)(0	

AKASH KUMAR Quality Managor

ELES PVT. LTD.

****End of Report****

Authorized Signatory
Dr. Deependra Kumar Sinha
Ph. D Environmentol Enga
ELES Pyr. Ltd. Technical Manager

Page 7 of 2

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TEST REPORT

Test Report No.	: ELES/RNC/2024/3393	Report Release Date	: 24.06.2024
Work Order No.	: 13612312113	Work Order Buts	: 28.93.2024
ULR No.	TC135872400001544F		

CUSTOMER DET	AJES	SAMPLE DETAILS	
Cumorus Nama	: Hindalco Industries Limited	Sample Ref. No. Location Sampling Date	: ELES/RNC/2624/AA/3844 : Near Paint Gods Village : 17.06.2024 to 18.06.2624
Address.	Lohanbegs, Burkhant-835702	Sample Received Date Type of Sample Sampling Procedure	20,06.2024 Archien Alr ELESTODO/SMPL/02
Minor Sumo	Operational	Sampling Done By	ELES Pvs. Ltd.
Period of Analysis	129 86 3024 to 24,96 3024	Sample Condition	Sealed & Frantised

METEOROLOGICAL INFORMATION		
1 Average Temperatury (*C) : 38	2 Darometrik Pressure (mmHg)	742
3 Relative Humidity (%) 59	4 Weather Condition	Clor

Discipline:	Chemical	Group: Atm	cophecic Folia	dim
Parameter	Unit	Test Protocul	Resit	Regulatory Limit
Particulate Matter (PMDD)	hā ar	TS 5182 (Fam-25): 2022	57	100 (24hm)
Perfectate Matter (PM2.5)	http://mg	ES 5182 (Pan-24): 2019	.39	50 (24hn)
Sulphur DI-Oxide (50 ₁)	ugin'	15 5182 (Part- B/5ec- 1): 2023	7,9	86 (24krs)
Nitrogen Di-Oxida (NO ₂)	ag/m ³	15-51 K2 (Part- 6): 2022	34.1	10 (2 0m)
Ozone (O ₄)	jugite ³	.18 3182 (Park 9): 2019	<20.8	300 (8h/s)
Ammonia (NFI ₂)	agint.	75-5000 (Part-25): 2008	<10.0	490 (24hrs)
Carbon Monucide (CO)	my/m	15 5182 (Part-10): 2019 (NEXR Method)	41.0	2 (800)
Les4 (29)	108/10	18 51/12 (Psics- 22): 2019	<0.092	1 (24hn)
Nickel (Nii	ng/m"	(\$ 5110 (Puri-26): 2020	46.0	29 (Annul)
Animic (As)	ngin'	ELES/ADUSOP/61: 2021	<2.0	66 (Annual)

Page Lot 2

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TEST REPORT

Test Report No.	: ELES/RNC/2024/3393	Report Release Date	1 24.06,2024	
Work Order No.	13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400001340			

Discipline: Chemical		Group: Atmospheric Pollution			
Parameter	Unit	Test Protocol	Result.	Regulatory Limit	
Beums (Cdf ₀)	yg'm"	ELES/GC/50P/66-3023	43	SS(Armel)	
Berran-(4)-Pyrane	ng/m²	ELESIGOSOPOS 2023	41.5	Ut(Annal)	

AKASH KUMAR Quality Managor ELES PVI, LTD

End of Report

Influrited Signatury
Dr. Despendra Kumar Sinha
Ph. O Sinemmantal Enga.

ELES Pvt. Ltd. Technical Warne

Pege 2 of 2

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TEST REPORT

Test Report No.	± KLENRNC/2014/3394	Report Release Date	: 24.66,2624	
Work Order No.	13612312113	Work Order Date	: 28.03.2024	
ULB No.	TC135872400001345F			

CUSTOMER DET	AILS	SAMPLE DETAILS	
Cotomer Name	Hiodaics Industries Limited	Sample Ref. No. Levation Sumpling Date	ELES/RNC/2024/AA/3845 Near Pel Pul Village 17.06.2624 to 18.06.2024
Address	Liteardaga, Thankhand-835302	Sample Received Date Type of Sample Sampling Procedure	- 20.06.2024 : Anthest Air : ELES-DOC/SMPL/02
Stines Status	Operational	Sampling Divini lity	ELES Pro. Ltd.
Period of Analysis	; 38.86.3028 to 24.86.3024	Sample Condition	Scaled & Preserved

METEOROLOGICAL INFORMATION	The party of the state of the s
1 Average Temperature (°C) :38	2 Bacometric Pressure (mostly) : 742
3 Rolstine Humbrity (%) 159	4 Wenther Condition Clear

Discipline: (Chemical	Groupe Atmospheric Pollution		
Parameter	Unit -	Test Protonst	Heralt	Regulatory Limit
Porticulos Motor (PMH)	Military.	18 5182 (Pon-21): 2012	51	700 (24hri)
Particulate Matter (PM2.3)	mit/im,	85 S182 (Part- 24): 3019	31	63 (24hn)
Solphur Di-Oxide (50 ₁)	mpm ³	15 5) 82 (Part-19Sec-1): 2023	7.3	30 (245m)
Nitrogan Di-Oxide (NO ₂)	pgm3	ES 5182 (Pws-6): 2022	34,0	80 (21hm)
Ozone (O ₂)	yg/m²	15/5142 (Part- 9): 2010	<20.0	100 (8his)
Aastoonia (NH ₀)	agam ²	15 5182 (Part-75): 2018	<\$0.0	400 (2-0in)
Certon Menoxide (CO)	mg/m ²	IS 5182 (Part-10): 2019 (NIZIR Method)	<1.0	2 (Hiro
Lend (Ph)	Jugger V	[5:3180 (Pan-22): 3019	\$.007	1 (24hn)
Nickel (Ni)	ing/m"	19 5182 (Part- 26): 2020	<6.0	20 (Annual).
Assertic (As)	ng/m³	BLES/AJR/50201; 2021	42.8	36 (Annual)

Page 1 of 2

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TEST REPORT

Test Report No.	: ELES/INC/2624/3394	Report Reinese Date	24.06.2024	
Work Order No.	13632312113	Work Order Date	28,83,2024	
III.II Vo.	+ TUT L15872.000001 MSP			

Discipline: Chemical		Group: Atmospheric Pollution		
Parameter	Delt	Test Protocol	Result	Regulatory Limit
Beranne (Califa)	agint*	ELEPGOSOPINE 2021	<2.5	(05(Annual)
Bexan (a) Pyrone	ngim ¹	ELES/GC/SDP/05/2023	49.5	Of(Armual)

AKABBANIMAR

Quality Managar ELES PVT, LTD. **** End of Report****

Authorized Nignatory
Dr. Deependra Kumar Sinha
Ph. D Environmental Enga
En ES Pur. Ltd. Tactinion Monoco-

Page 2 of 3

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TEST REPORT

Test Report No.	: ELES/RNC/2024/0398	Report Release Date	+24.06.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC1358724000013468		

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	: Hirdaleo Industries Limited	Sample Ref. No. Location Sampling Date	PLES/RNC/2014/AA/3848 New Shakhuapini Village 17/06/2024 to 18/06/2014
Address	: Lohandaga, Prankhend-835302	Sample Received One- Type of Sample Sampling Procedure	20.96.2024 Antider Air ELES/DOC/SMPL/02
Mines Stron	:Operational	Sampling Done By	HES Pec Ltd.
Period of Analysis	: 78.06.2024 to 24.66.2024	Sample Condition	Socied & Perserved

METEOROLOGICAL INFORMATION		
Average Temperature (90) 38	 Barometric Perssare (medig): 	: 742
3 Relative Hamility (%) : 59	4 Weather Condition	: Clear

Discipline: Chemical		Geoupt Almospheric Pullation		
Parameter	Unit	Test Protocol	Hevelt	Regulatory Limit
Preniesdama Metter (PSUIII)	intigar ₂	15 5182 (Pwn-23): 3022	58	100 (24hrs)
Particulate Matter (PMC.5)	upim1	35 5182 (Pun-34): 2019	31	60 (24hru)
Salphur Di-Oxide (90 ₁)	sig/m ⁸	IS 5182 (Part-11/Sec-1): 2023	6.9	300 (24her)
Nimgen Di-Oslds (NO ₂)	µg/m ³	35:5182 (Part-6): 2022	24.2	80 (\$46m)
Came (Oc)	ug/m²	15.5182 (Pun-9): 2019	<20.0	200 (Blec)
Ammonia (NSi)	μp/m²	58.5185 (Part-25): 2018	<10.0	400 (24hm)
Carbon Menoside (CO)	regim*	US 9182 (Part-10); 2019 (NDER Method)	<1,6	2 (Strn)
Lesd (Pli)	pig/to*	25 5182 (Pwb-22): 2019	0.007	1 (24hn)
Modeliki	ogene*	15:511(2:(Part-26)):2020	46.0	20 (Annul)
Ammic (Art)	ng/m²	ELES/ADJ/SCP01 2021	<2.8	Oli (Annuil)

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MIST NO BY, MANNARSHAP DICAYS, THRUDANA MITIA, RANCH EBROSS (WATERWAY) GY AD-EMANDRY MICH



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TEST REPORT

Test Haport No.	ELES/RNC/2024/3295	Report Release Date	24.06,2624	
Work Order No.	: 13612312113	Work Order Date	: 28.83.3824	
ULR No.	TC135872400001346F			

Discipline Chemical		George Atmospheric Pullution		
Parameter	Unit	Test Protocol	Newdy	Regulatory Limit
Bossonia (C _c H _c)	spm*	ELENGO/SOP/05: 2023	<1.5	02(Assual)
Benzo-(x)-Pyrene	ng/m ¹	ELES/GC/SOR/05/2023	49.5	01(Ammal)

AKASH KUMAR Osafiy Minagu

FLES PVT LTD.

****End of Report****

Ambarined Signatury

Dr. Deependra Komar Binha Ph. D Bretonna au Enco

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Page 7 = f 2

The December word or Test Super, a record to the Language state December on Companies, only of December 2 the Test Experiment of the Test Experiment of the Test Experiment of the Super value of the Super



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TEST REPORT

Test Report No.	ELES/RNC/2024/3396	Report Researe Date	+34.06.2024	
Work Order No.	13612312113	Work Order Date	: 28.83.2024	
ULIL No.	: TC1358724600013479			

CUSTOMER DETAILS		SAMPLE DITAILS		
Contentr Name	: Hindsino Industries Limited	Sample Ref. No. Location Sampling Date	- BL BS/RNC/2024/AA/2841 New Diga Kujam Village - 17.06 2024 to 18.06.2024	
Audress	Lohardaga, Therkinesi-835302	Sample Received Date Type of Sample Sampling Procedure	: 20/06/2004 : Anthier Air : ELES/DOC/SMPL/III	
Mines Skine	Openional	Scopling Done By	ELES Pyt. Lid.	
Period of Analysis	: 30.06.3034 to 34.06.2024	Sample Condition	: Sealed & Preserved	

MI	ETEOROLOGICAL INFO	RMATION			ac - 277.5
1	Average Temperature (*C)	138	2	Baromatric Pressure crimit	to :70:
3	Relative Burnidity (%)	159	4	Weather Condition	. Clear

Discipline: Chemical		Group: Atmospheric Pullation			
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Preticulare Mater (PMIII)	agm!	IS 5182 (Part-23)/ 2022	57	100 (24hn)	
Particulate Matter (PM2.5)	NETE-	25-5182 (Part-24): 2019	32	80 (20trs)	
Solphur DI-Ordde (SO _C)	pg/m1	15 51 12 (Part-10 Sec-1), 2023	2.4	80 (24hrs)	
Nicogao Di-Oxida (NO ₁)	aug/m ^T	15:5182 (Parts 6): 2022	23.8	80 (24hm)	
Osomr (O ₂))ig/m³	JS: 5182 (Purt-9): 2019	<20.0	100 (Was)	
Ammenia (NH ₀)	pgin"	15 5132 (Part- 25): 2018	√10.0	400 (34nn)	
Carbon Musocials (CO)	right ^a	IS 5182 (Part. 10): 2010 (NEXIK Medical)	<1.0	2 (film)	
Tasif (Pb)	Hillian,	28 5182 (Pin-27): 2009	0.007	1 (24fm)	
Nickel (Ni)	rg/m²	75 5190 (Pers- 26): 2100	91.0	20 (Amod)	
Americ (As)	ng/m²	ELEVAROPONI 2021	42.0	Hill (Amenal)	

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TEST REPORT

Test Report No.	1 ELES/RNC/2024/33%	Report Relinee Date	24.06.2024	
Work Order No.	: 13672312113	Wirk Order Date	: 28.93.2024	
ULR No.	± TC1359/73400001347F			

Discipline: Chemical		Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Betaten (Cally)	ng/m²	ELES-GC/50248-2021	<2.5	05(Annual)
Benni-(a)-Pyrone	agint'	ELES/GC/909/05: 2023	<8.5	@1(Anmat)

Retiried by AKASH KUMAR

Quality Managor ELES PVT LTD ****End of Reports as

Amberical Signatory
Dr. Despendra W. Har Sinha
Ph. D. Brandon W. Bar Sinha

BLESPY, De Tadystal Market

Page 3 of 3

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ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT.LTD.

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

Gurdari Bauxite Mine-Environmental Munitoring Report

July 2024



CONTENT

Mind	den Industries Guederi Basaite Mine Environmentel Montaring Report 3-05/2024
	Gorden Hampito Mino
	AMBIENY AIR QUALITY- CORE ZONE
1	Entrance Gate / Near Mine Office
2	Near Karkang Mines
3	New Mise Weigh Bridge
+	Near Doobi Katurds
	AMBIENT AIR QUALITY-BUFFER ZONE
	Near Pakeri Goda Virlago
1	Near Pol Pol Village
3	Near Shakhuapani Village
+	Near DigotKujum Village





PLOT NO-30, MANSAROVAR ENCLAVE, TUPL/DAMA NATIA, BANCH: 838000 (MANSHAND) UIT NO-2MARCEPTEUDZI

INCOVERNING SERVICES PUT. LTD.

Email: info@eleapl.co.int . eles reschi@sprod.com Phone no.: 0033-3290303 Website ; www.eleapl.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/4093	Report Release Date	122.07.2024
Work Onler No.	: 13612112113	Work Order Date	; 28.63.2024
ULR No.	1 TC135872400002028F		110000000000000000000000000000000000000

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindoice Industries Limited	Sample Ref. No. Location	ELES/RNC/2024/AA/4688 Extrance Gete/Near Mine Office Gurdari Bassite Mine (584,19h)	
Address	: Lohordaga, Tharkhond-855502	Sumple Received Date	15.07.2024 to 16.07.2024 17.07.2024 Archiest Air	
Mines Status	: Operational	Type of Sample Sampling Procedure Sampling Done By	ELES PA. Ltd.	
Pariod of Analysis	; 17:07:3024 to 22:07:2024	Sample Condition	Socied & Preserved	

M	ETEOROLOGICAL INFOR	MATION			
1	Average Temperature (*C)	1:20	2	Barronetric Pressure (mmHg)	: 741
3	Relative Humidity (%)	1.67	4	Weather Condition	: Cloudy

Discipline:	Chemical	Group: Atmospheric Pollution			
Furameter	Unit	Test Protocul	Result	Regulatory Limit	
Particulate Matter (PM10)	Children,	35 5182 (Pan-23): 2022	56	100 (24hrs)	
Particulate Matter (PM2.5)	ug/m³	8S 5182 (Part- 24): 2019	30	60 (24hm)	
Sulpiur Di-Oxide (SO ₂)	µg/m ¹	IS 5182 (Part-19/Sec-1): 2023	7.3	#0 (24hm)	
Nitrogen Di-Oxide (NO ₂)	pg/m²	(S 1182 (Part-6): 2022	20.4	86 (240rs)	
Ozone (G-)	Aug/m ³	35 5182 (Punt- 9): 2019	<26.0	100 (Stati)	
Azimonia (NH ₁)	pp/m*	IS 5182 (Part- 25): 2018	<10.0	400 (24hm)	
Carbon Monoxide (CO)	mg/m²	15 5182 (Part- 10): 2019 (NDIB Method)	4.0	2 (8tm)	
Lead (Pb)	10km,	15.5182 (Part- 22): 2019	0.012	1 (24bn)	
Nickel (NI)	ng/m³	JS 5182 (Part-26): 2020	<6.0	20 (Award)	
Arsenic (As)	ng/m*	ELES/AIR/SON01: 2021	<2.0	(6 (Annual)	

Page 1 of 2

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PEDT NO-30, MANSAROWAR ENCLAYE, TEPPODANA HATTA, RANCH-234000 (HARRINAND) GST NO-30A00397270329

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TEST REPORT

Test Report No.	± KLES/RNC/2024/4093	Report Rolense Date	: 22,07,2024	
Work Order No.	: 13612312113	Work Order Date	28.03.2024	
ULR No.	: TC135872400002028F			

Discipline: Chemical		Group: Atmospheric Polliction			
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Benzere (C _c H _c)	agin ¹	ELES/GC/SOP/06: 2023	<1.5	95(Annual)	
Benzo-(a)-Pyrene	ng/m³	ELES/GC/SOP/05: 2023	<0.5	OI(Annial)	

Review Ay AKASH KUMAR

Quality Manager ELES PVT, LTD. ares End of Reports

Dr. Deependra Kumar Sinha Ph. D Environmental Engg. ELES Pvt. Ltd. Technical Manager

Page 2 of 2

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PLOT NO-20, MANSAROWAN ENCLAYE, TUPUDANA NATIA, BANCHI-ESESSI (HARRINARD) IST NO-26ARESPECUES

ENGINEERING SERVICES PVT. LTD.

limair infolimingi,co.in. elec.nechi@grasii.com Phone no.: 0653-3250168 Wahata (www.alagii.co.i)



TEST REPORT

Test Report No.	: ELES/RNC/2024/4094	Report Rolouse Date	: 22.07.2024	
Wark Order No.	1 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400002029F	110000000000000000000000000000000000000		

CUSTOMER DET	CUSTOMER DETAILS		
Customer Name	: Hindako Industries Limited	Sample Raf. No. Location	: FLES/RNC/2004/AA/4689 : Near Kurkang Mines Gundari Bouxite Mine (584.19ta)
Address	: Lehardaga, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample	15.07.2024 to 16.07.2024 17.07.2024 1 Ambiens Air
Mines Status	(Operational	Sampling Procedure Sampling Done By	: ELES DOC/SMPL/02 : ELES Pv. Ltd.
Period of Analysis	: 17,67 2024 to 22,07 2024	Sample Condition	: Sealed & Preserved

M	ETEOROLOGICAL INFORMATION			
1	Average Temperature (*C) : 28	2	Barometric Pressure (mmi	(g) : 741
3	Relative Humidity (%) : 67	4	Weather Conditions	: Cloudy

Discipline:	Chemical	Group: Atmospheric Pollution			
Parameter	Unit	Test Protocul	Result	Regulatory Limit	
Particulate Matter (PM10)	μg/m³	IS 5182 (Part- 23): 2022	58	100 (24hm)	
Paniculate Matter (PM2.5)	µg/m³	IS 5182 (Purt-24): 2019	32	60 (24hrs)	
Sulphur Di-Oxide (SO ₂)	µg/m ³	15:5182 (Part-11/Sec-1): 2023	8.5	80 (34tes)	
Nitrogen Di-Oxide (NO ₃)	pg/m ¹	15 5182 (Part- 6): 2922	20.7	80 (24tms)	
Ozone (O ₁)	ug/m ³	15 5182 (Part- 9): 2019	<29.0	100 (8hrs)	
Ammonia (NH ₂)	pgm ³	IS 5182 (Part- 25): 2018	<10.9	400 (24hm)	
Carbon Monoxide (CO)	mg/m²	85 5182 (Part- 10); 2019 (NDIR Method)	<4.0	2 (8hm)	
1-ead (Pb)	lig/m²	IS 5182 (Part- 22); 2019	0.006	1 (24hrs)	
Nickel (NI)	ng'm"	35.5182 (Part- 26); 2029	<6.0	20 (Annual)	
Arsenic (As)	ng/m²	ELES/AIR/90P/01: 2021	<2.0	06 (Annual)	

Page 1 of 2

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PLOT ME-30, NEARSH ROWAR ENCLAIME, TEPHENAMA MATIA, RANCH-234003 (MARIEMAND) GET NO-3044(1977)33334



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TEST REPORT

Test Report No.	± KLES/RNC/2024/4094	Report Release Date	: 22.07.2024
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024
ULR No.	: TC135872400062029F		

Discipline: Chemical		Group: Atmospheric Pollution			
Parameter	Unit	Test Protucui	Result	Regulatory Limit	
Between (CaHa)	eg/m²	ELES/GC/SOP/04: 2023	<2.5	05(Annual)	
Benzo-(a)-Pyrene	ng/m²	ELES/GC/SGP/05; 2023	<0.5	OI(Annul)	

Reviewed by

Quality Managor ELES PVT_LTD **** End of Report****

Dr. Deependra Kumar Sinha

Ph. D Environmental Engg. ELES Pvt. Ltd. Technical Manager

Page 2 of 2

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NGINEERING SERVICES PVT. LTD.

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TEST REPORT

Test Report No.	: ELES/RNC/2024/4095	Report Referre Date	: 32.07.2024	
Work Order No.	: 13612312113	Work Order Date	28.83.2024	
ULR No.	: TC1358724090020309		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	: Hindako Industries Limited	Sample Ref. No. Location	: ELESABNC/2024/AA/46/0 Near Mine Weigh Bridge Gurdari Berzeitz Mine (584.19he)
Address	Lohardaga, Runkband-833302	Sampling Date Sample Received Date Type of Sample	: 15.07.2024 to 16.07.2024 : 17.07.2024 : Ambient Air
Mines Status	: Operational	Sampling Procedure Sampling Done By	: ELES/DOC/SMPL/02 ELES Pvt. Ltd.
Period of Analysis	: 17.07.2024 to 22.07.2024	Sample Condition	Scaled & Preserved

METEOROLOGICAL INFORMATION	
I Average Temperature (*C) : 28	2 (Baromatric Prosture (mmHg) : 741
3 Relative Humidity (%) : 67	4 Weather Condition Cloudy

Discipline: Chemical		Group: Atmospheric Pollution			
Parsoneter	Unit	Test Protocal	Heusli	Regulatory Limit	
Particulare Matter (PM10)	ag/m5	JS 5142 (Part-23); 2022	62	100 (24hn)	
Particulate Matter (PM2.5)	ag/m ³	18-5182 (Part- 24): 2019	30	(80 (24hrs)	
Sulphur Di-Oxide (SO ₂)	pp/m ^b	19:5182 (Part-II/Sec-1): 2023	7,2	80 (24bes)	
Nitrogen Di-Oxide (NO ₁)	pg/m ³	88 5182 (Part-6): 2802	32.7	80 (24hrs)	
Denne (O _c)	µg/m²	18 5182 (Part- 9): 2019	<26.0	100 (Bles)	
Ammonia (Nff ₆)	(agrint)	15 5182 (Part-25): 2018	<10.0	400 (24hm)	
Carbon Manuscille (CO)	mg/m³	15:5182 (Part- 10): 2019 (NDB: Method)	<1.0	2 (Mrs)	
Lind (Pb)	μg/m²	15 5182 (Part- 22); 2019	0.809	1 (24hrs)	
Nickel (Ni)	ng/m²	JS 5182 (Part- 26); 2020	×6.0	20 (Aretual)	
Americ (As)	ng/m²	ELES/AIR/SOIV01: 2021	<2.0	06 (Aneual)	

Page 1 of 2

The Procurem mated as Tool Report, is inseed by the Lebesgue; under thereof Terms and Completion, only an Company Letter hand in pro-approved forms. The material control of the State of t



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DECINEERING SERVICES PYT, LTB.

Email: infull elecut, cs. in , elec.runchi@amili.com Phone e.o.: 0655-2296203 Wobulte ; www.elecut.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2824/4095	Report Release Date	22.07.2024
Work Order No.	: 13612312113	Work Order Date	: 28.10.2024
ULR No.	: TC135872400002030F		

Discipline: Chemical		Group: Atmospheric Pollution		
Parameter	Ceit	Test Protocol	Result	Regulatory Limit
Beniene (C _s H _s)	jug/m²	ELES/GC/SOP/06: 2023	42.5	05(Annual)
Betwo-(x)-Pyrone	tig/ter	ELES/GC/SOP/65: 2023	<6.5	Ot(Annual)

AKASH KUMAR Quality Managor ELES PVT TTD

****End of Report****

Dr. Deopendra Kumar Sinha Ph. D Environmental Engg. ELES Pvt. Ud. Technical Menant

Page 2 of 2

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INGINEERING SERVICES PVT. LTD.

Emsit injuljelessi os. in., eks. ramihilijansii.com Phone no. 1 0653-2290103 Wahata : srewelayi.co.in



TEST REPORT

Test Report No.	; ELES/RNC/2024/0096	Report Release Date	22,07,2034
Work Order No.	: 13612312113	Work Order Date	28.03.2024
ULR Nu	: TC135872400002031F		- Anna Carlotte

CUSTOMER DET	AILS	SAMPLE DETAILS	
Cattorior Name	: Hindalen Industries Limited	Sample Ref. No. Location	H.ES.RNC/DIGA/AA/4691 New Dhobi Kutumit; Gordan Banxing Mine (384,19lat)
Address	: Lohardaga, Tharkband-835902	Sampling Date Sample Racelved Date	: 15.07.2024 to 16.07.2024 : 17.07.2024
Miner Status	Operational	Type of Sample Sampling Procedure Sampling Done By	- Ambient Air - ELES/DOC/SMPL/02 - ELES Put, Lut
Period of Analysis	: 17.07.2024 to 22.07.2024	Sample Condition	: Sealed & Preserved

Mi	TEOROLOGICAL INFOR	MATION	1/1=		
1	Average Temperature (*C)	:28	2	Discominate Prisonry (mmHg)	1741
3	Relative Humidity (%)	167	-4	Weather Condition	Ciruly

Discipline: Chemical		Group: Atmospheric Pullution			
Parameter	Unit	Test Protocul	Result	Regulatory Limit	
Particulate Metter (PM10)	ha, ing	IS 5182 (Part-23): 2022	67	100 (24hm)	
Particulary Matter (PM2.5)	pg/m ³	18:5182 (Party 24): 2019	46	60 (24hm)	
Sulphur Di-Oxide (SO ₅)	µg/m²	15.5182 (Part-11/Sec- 1): 3023	10.4	80 (24hrs)	
Nitrogan Di-Oxide (NO ₃)	µg/m³	35 5182 (Part- 6): 2022	29.7	80 (24fes)	
Ozono (O ₁)	lyg/m²	15 5182 (Purt-9): 2019	<26.6	100 (8hrs)	
Anmosia (NH _c)	sig/m²	1S 5182 (Part- 25): 2018	<10.0	406 (24hm)	
Carbon Monuslik (CD)	mp/m ^r	(S 5182 (Part-10); 2019 (NDIR Method)	<1.0	2 (8hrs)	
Lead (Pb)	Ag/m	15 5182 (Pers- 22): 2010	0.009	1 (24hrs)	
Nickel (Ni)	ngin ⁴	35 5) 82 (Purt- 26): 2020	≪6.0	20 (Amust)	
Asseric (As)	ng/m²	ELES/ADR/SOP/01: 2021	<2.0	06 (Armasi)	

Page 1 of 2.

The Discount stated or Test Report, in record to the Laboratory under Counts Tests and Condition, as is not Company form thanking programs former. The results shown at the Test Report in the Section of the Section of



PLOY NO. SE, MARKARETHAR ENCLAVE, FUPUDAMA NATIA, RANCHI EDICOZ (MARKARED) SET NO. ZNAMOCE PLESZA

INGINEERING SERVICES PVT. LYB.

Ernak info@elesal.co.in , eles sanchi@grasil.com Pitone no.: 19651-2290303 Website : www.elesal.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2824/4896	Report Release Date	: 22.07.2024	
Work Order No.	T 13612312113	Work Order Date	: 28.03,2024	
ULR No.	1 TC138872400002031F	A Constitution of the Cons	300000000000000000000000000000000000000	

Discipline: Chemical		Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Benzenc (C _a)& _a)	µg/m²	ELES/GC/SDP/06: 2023	<2.5	05(Annual)
Benzo-(x)-Pyrime	ng/m²	ELES/GC/SDP/05: 2023	<0.5	01(Annu()

AKASH KUMAR

Quality Managur ELES PVT. LTD. ****End of Report****

Authorized Signatory
Dr. Deependra Kumar Sinha
Ph. D Environmental Engs.
ELES Fire List. Technical Manager

Page 2 of 2

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TEST REPORT

Test Report No.	: ELES/UNC/2014/4097	Report Release Date	22.07.2024	
Work Order No.	13912312118	Work Order Date	128/01/2024	
ULB No.	: TC155W72400002B02F			

CESTOMER DET	AH,5	SAMPLE DETAILS	
Colomor Name	Handales Industries Limited	Sample Ref. No. Location Sampling Date	ELESADIC/2024/AA/46/02 Noor Pake Gods Village 11:07:2924 to 16:07:2924
Address	: Lohanlegs, /horkbund-835302	Sample Received Data Type of Sample	17.07.2024 Ambient Air
Mines Status	Operational	Sampling Propadies Sampling Done By	ELES/DOC/SNPL/02 ELES PALEAL
Facod of Amegras.	: 17 07 2034 to 72.01 2034	Sample Condition	Seeled & Preserved

METEOROLOGICAL (NFO)	MATION			
Assenge Temperature (YC)	:31	2	Barricockla Pressure (mmHg)	(34)
3 Relative Humidity (%)	26T	4	Weather Condition	Cloudy

Discipline: Chemical		Gring: Ann	implactic Polls	etica
Parameter	Unit	Test Protocol.	Heselt	Regulatory Limit
Puriositive Matter (PM14)	pg/m ²	18 5100 (7 50 - 23) (20 02	55	(00-(34fm)
Particulate Matter (PM2.5)	pg/m²	15 S182 (Post-24): 2018	28	60 (24hrs)
Sulphur Di-Oxide (SO ₅)	ng/m²	18 1182 (Fun-10Sec-1): 2023	4.7	NF (24hirs)
Nitrugar Di-Oxida (NO ₂)	ughi ¹	35 51 82 (Part- 6): 2022	22.2	81 (34hrs)
Ones (O ₂)	lig/m ²	18 5162 (Pen- 9): 2019	<20.0	100 (Rhrs)
Aromonia (NH ₃)	pigim"	15:5182 (Purb-25): 3018	<310.0	800 (24he)3
Curbon Monus/de (CO)	ngu ¹	25 5182 (Part-10): 2019 (MDR: Method)	41.8	2 (850)
Luid (%)	100/07	25 5143 (Part-22); 2019	<3.082	(14hs)
Michael (NV)	Tractor*	15:51.62 (Pam-26): 2000	+6.0	20 (Amusl)
Actomic (As)	ra/sr*	ELEGIATRUSOPVITI 2021	<2.0	(90 GAmme)

Page 1 of 2

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ENGINEERING SERVICES PYT. LTD.

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TEST REPORT

Terr. Haport No.	ELES#NC/2024/4007	Report Release Date : 22.97.2024	
Work Order No.	13612312113	Work Order Date : 28,83,2624	
ULR.No.	TC138872400002032F	transaction and a section of	

Disciplinet Chemical		Group: At	Group: Attempheric Pulhetico		
Parameter	Liuit	Test Protocul	Routt	Regulatory Limit	
Between (Culty)	ug'm"	ELES/GC/SQN96-3023	<2.3	(S(Armal)	
Henro (a) Pyrana	ngm ¹	ELES/GC/509/05: 2023	46.5	01(Aresost)	

Reviewed by AKASH KUMAR Quality Managor

ELES PVT. LTD.

****End of Report****

Dr. Deependra Kurner Sinns Ph.D.ErwironmentalEngo. ELESTIVI, Ltd. Technical Manager

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ENGINEERING SERVICES PTT ATB.

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TEST REPORT

Test Report No.	: ELES/RNC/2024/098	Report Release Date 22.07,2024
Work Order No.	13612312113	Work Ovdor Burn : 28.63.2024
ULR No.	TC135872400042633F	- William Walliam and a state of the state o

CUSTOMERDET	AB.5	SAMPLE DETAILS	
Customer Name	/ Mishalor Industries Liteland	Sample Ref. No. Lexation Sempling Date	HI, ESKNIC/2004/XA/4605 Near Pol Pol Village 15/07/2024 to 16/07/2024
Adress	: Leourdage, Norshood-835902	Sample Received Data Type of Sample Sampling Procedure	1 ET.07.2024 Ambient Air ELES/DOC/SMPL02
Vilnes Notas	: Operational	Sampling Done By	ELES Por. Lut.
Period of Analysis	17.07.2034 to 33.07.2034	Sample Condition	1 Sealed & Freserved

METEOROLOGICAL INFORMATION			
1 Average Europerature (*C) :28	1	Banmatric Presion (mmFg)	[76]
3 Relative Humidity (%) 67		Weather Condition	: Chiraly.

Discipline Chemical		Group: Am	Group: Amoupheric Politation		
Purameter	Ustr	Test Protecul	Rout	Regulatory Limit	
Particulate Matter (PM)(9)	pg/m²	15 5142 (Part-23); 2012	51	100 (20km)	
Particulate Meter (PM2.5)	pg/m	[5:5182 (Pan-34): 3019	.26	60 (28hrs)	
Sulptur Di-Oxida (NO ₅)	μg/m ²	15:51X2 (Pan-12/Sec-1): 2023	6.5	30 (24hrs)	
Nitrogen Til-Oxode (NO ₁)	pare 1	Bi 1162 (Part-6): 2022	16.7	30 (24hrs)	
Osome (O ₄)	'ages'	35'518Z (Part-9): 2010	<10.0	100 (86n)	
Amesonia (NIII.)	agini.	18-3182 (Pen-25): 2018	<30.0	400 (24hm)	
Carbon Monoside (CO)	ngm ⁹	15 5182 (Parts 80): 2010 (NDIR Method)	+1.8	Z (fhn)	
Leuf (Pl)	"Milital	15-5182 (Pun-22): 2019	<0.002	1 (20hrd)	
Nodal (NO.	ngm³	15 5102 (Pen-26): 1029	<0.0	(20 cAveraid)	
Asterio (As)	rgm ²	ELES/ACRESCIP/01-2021	42.0	Of (Arms)	

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PUT NO-30, MANGARDVAN DVCLAVZ, TUMESANA NATIA, MANCH-BANGS CHARRINANGI NET NO-2014/CH7110123

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LEST BEPORT

Test Report No.	1 ELES/RNC/2024/4098	Report Release Date	: 22.07.2024	
Work Onler No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	+ TC1358724000020339			

Discipline: Chemical		Geoup: Atmospheric Pullstion		
Pacameter	Unit	Test Protocol	Result	Regulatory Limit
Distance (CaHa)	agin'	31.E9GC90896-2021	<2.5	05(Armsl)
Benns (a) Pyrene	ngm²	ELEWISCHOP65: 2021	<0.5	O1(Annual)

AKASH KUMAR Ougity Manager ELES PVT LTD

****Eed of Report****

Dr. Deepender Külffer Sinh... Ph. D Environmental Engs. ELES Pvt. Lat. Technical Manager

Page 2 of 2

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INCOMESMING SERVICES PYT. LTD.

Emil Job Grissius A. maranti Speel con Phone no. 0832-225000 Vepate : www.stap.co.v



TEST REPORT

Test Report No.	: X1.E3/30NC/2024/4099.	Report Robuse Date	122.07.2024
Work Order No.	: 13612312113	Work Order Date	: 28.93.2024
ULR No.	TC135972484062634F	****	111

CUSTOMER DET	CUSTOMER DETAILS		
Costoner Num	Hindalon Industries Limbud	Sample Ref. No. Location Sampling Date	HLES/RNC/2024/AA/4604 Near Shakhuapani Village 15/87/2024 to 16/87/3024
Address	: Loburdaga, Durthum F53507	Sample Received Data Type of Sample Sampling Procedure	117.07.2024 Ambiest Air - ELES/DOC/SMPL/02
Miner Status	: Operational	Sampling Done By	: ELES Pvt. Lie.
Period of Aradysia	117.07.2004 to 22.91.2004	Sample Condition	Smind & Progress

METEOROLOGICAL INFORMATION	
1 Average Temperature (%) :28	2 Baronetric Prenner (mmHg) : 741
3 Relative Hamility (%) : 67	4 Weather Condition : Cloudy

Disapiline:	Chemical	Grisqi: Ain	Group: Atmospher); Pullutian:		
Parameter	Unit	Test Protocol	Headt	Regulatory Limit	
Furticulate Matter (PMIII)	agin'	15.5182 (Pad-23): 2022	.58	100 (24tipi)	
Preticulate Matter (PMLS)	upin ¹	15 5182 (Parts 24): 2019	29	60 (749x)	
Salphur Ol-Osalv (80 ₂)	iag/m²	IS 5182 (Part 11/Sec. 1): 2021	6.2	80 (24hrs)	
Nirogm Di-Oxate (NO ₁)	Mg/m²	Ht 5182 (Part-1): 3922	18.5	80 (748m)	
Coone (E)()	Min.	05:51012 (Phrs. 9): 2019	<28.0	100 (Rhn)	
Amesoli (NEL)	agm ²	35 5 HZ (7hm - 25): 3018	<10.0	400 (24fes)	
Carbon Manacide (CCI)	mg/m²	15:5182 (Pari-10); 2019 (NDO: Method)	41.0	2 (film)	
Lend (Ph)	: PEPTO	35 5162 (Fur)-22y 1019	<0.003) (218bps)	
Nickel (NI)	Agen	19 5182 (Part-26): 2021	46.0	26 (Ammi)	
Acumic (Ai)	na/ro*	ELES/ADJ-SOP(01: 2021	40	06 (Annual)	

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PLOT NO. 3E, MANGAROVAN ENCLÁVE, TURGENNA HATJA, RENCHE #38023 (DIAIRCHAND) SET NO. SHAREFFEELISA

ENGINEERING SERVICES PVT. ATD.

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TEST REPORT

Test Report No.	ELES/RNC(2024/400)	Report Release Date	23.07.2024
Work Order No.	13612312113	Work Order Date	: 28.03.2924
ULR No.	TC135872400002034F		

Discipline: Cherocal		George Atmispheric Pollution		
Parameter	Vait	Tust Protecti	Result	Regulatory Limit
Became (Cally)	11,0111	ELES/GC/SOP/06: 2022	-25	05(Annul)
Seuc-(x)-Pyrone	115/20	ELES/GC/S09/05/2/21	<1.5	Olf-Annual)

AKASH KUMAR Quality Managur ELES PVT LTD

**** End of Report****

Dr. Deependia Kuma: Sinha Ph. D Environmental Engs ELES Put. List Tactorical Manager

Page 2 of 2

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PLET NO-SO, MERCHAROWA ERICLAVE, TOPUDRAA HETIA, RANDH-ESHINE (HEARCHAND) EUT NO-STAANDERTARTE

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TEST REPORT

Test Report No.	ELES/RNC/2024/1100	Report Release Date	+ 23.07.2024
Work Order No.	13612312113	Work Order Date	28.03.2024
ULR No.	: TC135872460062635F		

CUSTOMER DETAILS		SAMPLE DETAILS		
Custimer Name	:Hindus Industries Limited	Sample Ref. No. Location Sumpling Date	*ELESAINC/2004/AA/4698 New Dips Kapan, Village 15.07.2024 in 16.07.2024	
Aldreis	: Lohaninga, Hurkhand-635502	Sample Received Date Type of Sample Sampling Procedure	17.07.2024 Ambier Air ELES/DOC/SMPL/02	
Minns Status	: Operational	Sampling Done By	ELES No Lui	
Period of Analysis	1 17.07.2604 to 12.17 2104	Sample Condition	1 Stated & Preserval	

METEOROLOGICAL INFORMATION	70.1		
1 Average Temperature (°C) : 28	2	Barometric Pressure (mm)	lp : : 741
3 Relative Hamility (%) : 67	A	Weather Condition	: Cloudy

Discipline	Cheminal	Group: Atm	Group: Atmospheric Pollution		
Parameter	End	Test Protecti	Heroch	Regulatory Limit	
Pacticulate Matter (PMIII)	ag/m ³	19.5182 (Part-23): 3022	.51	100 (20hm)	
Particulate Maner (PM2.5)	- pylin!	15:51.62 (75m-34): 2019	28	60 (34hn))	
Sulphur D. Oxide (SO ₃)	pg/m ³	IS 5162 (Fen-1/Sec-1)/2023	6.1	80 (34km)	
Nimper Di-Onide (NO ₂)	ug/m	19 5182 (Part- 6): 2022	20.5	80 (24te)	
Orece (Cu)	hite/ari	15 5182 (Plant- 9); 2019	<26.0	100 (8ho)	
Aromonia (NES)	ngmt	16 5182 (Pan-25): 2018	+19.0	400 (24hn)	
Carbon Microscop (CG)	mpm	85 5132 (Part-10); 2010 (NDB: Method)	<1.0	I (Mm)	
Lead ((%))	100/00	89 5182 (Puri+ 22): 2019	0.003) (54hrs)	
Nickel (NI)	THE THE	JH 5182 (Part-26): 2020	40	20 (Annal)	
Ammie (Ail)	Agres 1	III.ES/ARESO(NI) 2021	<2.8	05 (Asmol)	

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PLOT NO-30, MANSARDIAR ENCLAVE, TUFUSANA MATIA, BANCH-ESKOS (MARFINARI) IIIT NO-3844877718003

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Erec'i oftoffelool (m.e., eles mediciliames) com Phone m.: 0003-2200003 Website: www.aletpi.co./n

TEST REPORT

Year Dayroet No.	ELESTOC/2024/4108	Report Reissur Date	22.07.2024	
Work Order No.	- 13612312113	Work Order Date	: 28.93.3194	
ULK No.	: TC135872400002035F			

Discipline: Cheminal		Grouge Atmospheric Pullutine		
Perameter	Unit	Test Protocol	Result	Regulatory Limit
Beninne (Calla)	ppm1	ELESGC-SOPISE 2023	<2.5	b5(Armai)
Benzo-(s)-Pyrene	ng/m³	ELESTIC/909/04 2021	<0.5	OleAnneall

AKASH KUMAR Quality Managur ELES PVT LTD

**** End of Report****

Attehunited Signatury
Dr. Deependra Kumar Sinha-Ph. D Environmental Enga.
ELEO Pin. Ltd. Technical Manan.

Page 2 of 3

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ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT. LTD.

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

Gurdari Bauxite Mine-Environmental Monitoring Report

August 2024



CONTENT

Hink	aleo Industries : Guedare Bustite Mine Environmental Monitoring Report August 2024 Gerdari Bouville Mine
	AMBIENT AREQUALITY: CORE ZONE
1	Entrance Gate / Near Mine Office
2	Near Karlang Mines
3	Neur Mine Weigh Beidgn
4	Near Dhobi Kutumb
	AMBIENT AR QUALITY-BUFFER ZONE
1.	Near PakriGoda Village
2	Near Pol Pol Village
1	Nor Stekhogeni Villoge
4	New DipaKujam Village
	Drinking Water
	Efficat Water



PLOT NO-30, MANSAROVAR ENCLAVE, TOPODANA MATIA, RANCHI-838083 UMARRINANDI GIT NO-38AAFCH973BICSI

NGINEERING SERVICES PVT. LTD.

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Website - www.shipf.co.in

TEST REPORT

Test Report No.	: ELES/RNC/2024/4753	Report Release Date	: 22.98.2024	
Work Order No.	1 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400002672F	THE PROPERTY OF THE PARTY OF TH	7	

CUSTOMER DET	AIL5	SAMPLE DETAILS		
Customer Name	Hinduleo Industries Limited	Sample Ref. No. Location	: ELESTRNC/2014/AA/5436 : Entrance Geto Near Mine Office Gurdari Bussile Mine (584.1994)	
Address Mines Status	: Leherdaga. Jharkhand-835302	Sampling Date Sample Received Date Type of Sample Sampling Procedure	12.08.2024 to 13.08.2024 114.08.2024 : Ambien Air - ELES-DOC/SMPL/III	
Military Statute	2 Оригиния	Sampling Dona By	: ELES Pvc. Ltd.	
Period of Analysis	: 14.08.2024 to 22.08.2024	Sample Condition	: Sealed & Preserved	
	The second secon			

METEOROLOGICAL INFORMATION	11000000 000000000000000000000000000000	
1 Average Temperature (*C) = 27	2 Barumetric Pressure (mmHg)	1741
3 Relative Humidity (%) : 68	4 Weather Condition	Cloudy

Discipline: Chemical		Group: Atmospheric Pollution		
Purumeter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PMIII)	µµm¹ .	IS \$182 (Part-25); 2022	48	100 (24hrs)
Particulate Matter (PM2.5)	µg/m ¹	15 5182 (Part- 24): 2019	26	60 (24brs)
Sulphur Di-Oxide (SO ₂)	iag/m ³	15 5142 (Part-195ec-1): 2023	9.1	80 (24hrs)
Nitrogen Di-Oxide (NO ₁)	jeg/m²	19 5182 (Part- 6): 2022	18,7	80 (24fes)
Ozone (O ₁)	ma,m,	15:5182 (Pws-9): 2019	<20.0	100 (8hm)
Ammonia (NH ₃)	pg/m²	15 5182 (Part-25): 2018	<10.0	400 (24hrs)
Carbon Meneotide (CO)	mg/m²	1S 5102 (Port-10): 2019 (NDIR Michod)	41,0	2 (8hrs)
Last (Ph)	maju,	15 5182 (Part- 22): 2019	0.006	1 (24hri)
Nickel (Ni)	ngin [†]	15 5182 (Part- 26): 2020	<6.0	20 (Annial)
Americ (Ai)	ngon ¹	ELES/AIR/SOP01-2021	<2.0	06 (Annual)

Page 1 of 2

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Website I sewalatespl co.in



TEST REPORT

Test Report No.	: ELES/RNC/28/24/4753	Report Release Date	22.08.2024
Work Order No.	: 13412312113	Work Order Date	±28.03.2024
ULR No.	: TC135872400002672F		

Discipline Chemical		Group: Atmospheric Pullution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Berzene (C _a H _a)	ug/m ³	ELES/GC/90P/06-2023	<2.5	d5(Amuel)
Beszo-(a)-Pyrene	ng/m²	ELES/GC/90P/05: 2023	<9.5	01(Annual)

AKASH KUMAR

Quality Managor ELES PVT, LTD. and End of Report

Authorised Signatury

Dr. Deependra Kumar Ginha Ph. D Environmental Enga

BLES Pvs. Ltd. Technical Manager

Page 2 of 2

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TEST REPORT

Test Report No.	: ELES/RNC/2024/4754	Report Release Trate	: 22.08.2024
Work Order No.	: 13612312113	Work Order Date	28.03.2024
ULR No.	1 TC138872400102673F		

CUSTOMER DET	AH.5	SAMPLE DETAILS		
Customer Name	: Hindalco Industries Limited	Semple Ref. No. Location	: ELES/RNC/2024/AA/5437 : Near Karkang Mines Gurdari Buusite Mine (584.19ha	
Address Mines Status	: Lohundaga, Harkhand-835302 : Operational	Sampling Data Sample Received Data Type of Sample Sampling Procedure	12.08.2024 to 13.08.2024 14.08.2024 : Ambient Air : ELES/DOC/SMPL/02	
Period of Analysis	: 14.08.2024 to 22.08.2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Souled & Preserved	

METEOROLOGICAL INFORMATION		THE STATE OF THE S	
1 Average Temperature (*C) : 27	7	Stromanic Pressure (mintle)	: 745
3 Relative Hamility (%) : 68		Weather Condition	Cloudy

Discipline: Chemical		Group: Atmospheric Pollution		
Parameter.	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	μg/m²	IS 5182 (Part-13): 2012	50	100 (24hrs)
Particulate Matter (PMC.5)	µg'rs¹	15 5182 (Part- 24); 2019	28	60 (24hn)
Sulphur Di-Oxide (50g)	µg/m²	18 5182 (Part-1) Sec-1): 2023	6.1	80 (24las)
Nitrogen Di-Oxide (NO ₁)	µg/m ^h	19 5182 (Part- 6): 2022	18.5	80 (24hm)
Ozene (O ₁)	ирт	IS-5182 (Part-9): 2019	<20.0	100 (Stars)
Ammonia (NH ₄)	µg/m²	IS 5182 (Part- 25): 2018	<10.0	800 (24hrs)
Curbon Menoxide (CO)	me/m³	IS 5182 (Part- 10): 2019 (NDR Method)	<1.0	2 (Khrs)
Lest (Pt)	MB/HT	15 5182 (Part- 22): 2019	< 0.002	3 (24km)
Niekel (Ni)	mp/m*	18 5142 (Pwt- 26): 2020	<6.8	20 (Armal)
Arsenic (As)	ng/m²	ELES/AJR/SOM/01: 2021	<2.6	06 (Azmol)

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INGINEERING SERVICES PVT. LTD.

Email: Info@elessi.co.in , elec.mach@gmail.com Phone etc. 1653-3290103 Vestude : mace chapteri.in



TEST REPORT

Test Report No.	± ELES/RNC/2024/4754	Report Release Date	22.08.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135872400002673F		

Discipline: Chemical		Group: Att	nospheric Polls	dica
Parameter .	Unit	Test Protocul	Result	Regulatory Limit
Boseene (C ₄ H ₄)	sig/m*	ELES/GC/SOP/04: 2023	<2.5	05(Aimart)
Beam-ja)-Pyrese	ng/m²	ELES/OC/509/05; 2023	<0.5	Ol(Annuel)

AKASH KUMAR Quality Manager

ELES PVT LTD.

****End of Report****

Dr. Deependra Kumar Sinhu Ph. D Environmental Enga ELEB Put. List. Transical Marcana

Page 2 of 2

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TEST REPORT

Test Report No.	: ELES/RNC/2024/4755	Report Release Date	: 22.08.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135872400002674F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Customer Name	Hindalco Industries Limited	Sample Ref. No. Location	: ELES/RNC/2024/AA/5438 : Near Mine Weigh Bridge Gurdari Basoite Mine (584.199a)
Address	Leturdaga, Barkhand-835362	Sampling Data Sample Received Data Type of Sample Sampling Procedure	112.08.2024 to 17.08.2024 14.08.2024 Authors Air ELES/DOC/SMPL/02
Mines Status	: Operational	Sampling Done By	ELES Pvt. Ltd.
Period of Analysis	: 14.08,2024 to 22.08.2024	Sample Condition	: Sealed & Preserved

MI	ETEOROLOGICAL INFORMATION	THE PARTY OF THE P
1	Average Temperature (*C) : 27	2 Barometric Pressure (mmHg) : 741
3	Relative Hamidity (%) : 68	4 Weather Condition : Cloudy.

Discipline: Chemical		Group: Atmosphoric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m ¹	15 5182 (Part- 23): 2022	62	100 (24hrs)
Particulate Matter (FM2.3)	μg/m³	25 5182 (Part- 24): 2019	37	60 (24hrs)
Sulphur Di-Oxide (SO ₅)	µg/m ³	18:5182 (Pirt-10/Sec-1): 2023	9.1	80 (24hm)
Nitrogan Di-Oxide (NO ₃)	ag/m ³	IS 5182 (Part- 6): 2022	24.4	80 (24hm)
Grone (D ₁)	ирт	15-5182 (Pars. 9): 2019	<28.0	500 (8hrs)
America (NH ₁)	1187M1	85 5182 (Part- 23): 2018	<10.0	400 (2-thrs)
Carbon Monoxide (CO)	mg/m²	IS 5182 (Part- 10): 2019 (NEXR Method)	<1.0	2 (8hes)
Lend (7%)	ppin*	25 5182 (Part- 22): 2019	0.608	T (24hrs)
Nickel (Ni)	ngrint ^b	1S 5182 (Part- 26): 2020	<6.0	20 (Annual)
Arsmie (As)	np/m²	ELES/AIR/SOP/01: 2021	<2.0	06 (Amoust)

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TEST REPORT

Test Report No.	: ELES/RNC/2024/4755	Report Release Date	: 22.08.2024	
Work Order No.	13612312113	Work Order Date	: 28.03.2024	
ULR No.	TC135872400002674P			

Discipline	:: Chemical	Group: Att	nospherie Polls	tion.
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Bercone (C ₁ H _b)	agm ²	ELES/GC/SOP/06 2023	<2.5	DS(Annual)
Benzo-(a)-Pyrene	ng/m ¹	ELES/GC/NOP/05: 2023	40.5	DI (Annual)

AKASH KUMAR Quality Managor FLES PVT LTD.

****End of Report****

Authorized Signatory Dv. Deependra Kumar Sinha

Ph. D Environmental Error. ELES Pvt. Ltd. Technical Manager

Page 2 of 2

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PLOT NO. 33, MANSAROVAN ENCLAVE, TUPUBAWA MATTA, REACH-#34003 (MARIYHAND) GET NO. 2010/10/10/10/10

ENGINEERING SERVICES PVT. LTD.

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TEST REPORT

Test Report No.	: ELES/RNC/2024/4756	Report Science Date	: 22.08.2024
Work Order No.	: 13612312113	Work Order Date	28.03.2024
ULR No.	TC135872400002675F		

CUSTOMER DETAILS		SAMPLE DETAILS	
Cissomer Name	- Windstoo Inclusiries Limited	Semple Ref. No. Location	: ELES/RNC/2004/AA/5429 : Near Dhobi Kutumb; Guthe: Besoite Mine (384.1994)
Address.	Lohardagu, Jhurkhard-835302	Sampling Data Sample Received Date Type of Sample Sampling Procedure	: 12.08.2024 to 13.08.2024 : 14.08.2024 : Ambient Air : ELES-DOC/SMPL/02
Mines Status Operational		Sampling Done By	: ELES Pvt. Ltd.
Pariod of Analysis	: 14.08.2024 to 22.68.2024	Sample Condition	: Sealed & Preserved

METEOROLOGICAL INFORMATION			
1 Average Temperature (°C) : 27	-2	Burenutric Pressure (mm	Hg) (741
3 Relative Humidity (%) 68	4	Weather Coodition	Cloudy

Discipline: Chemical		Group: Atmospheric Polletine		
Parameter	Unit	Test Protocol	Result	Regulatory Linds
Particulate Matter (PM10)	ug/m^	18-5182 (Part- 23): 2022	58	100 (24hm)
Particulate Matter (PM2.5)	ug/m²	18 5182 (Pan-24): 2019	25	60 (2/0zs)
Suiphur Di-Oxide (SO ₂)	ug/m ¹	IS 5182 (Part-II/Sec-1) 2027	6.3	80 (2/Brs)
Nitrogen Di-Oxide (NO ₁)	µgim ¹	15 5182 (Pan-6): 2022	19.2	80 (24hrs)
Ozone (O ₁)	µg'm¹	ES-5182 (Part-9): 2019	<20.0	100 (Bles)
Ammoria (NH ₀)	µg/m ³	15 5182 (Parts 25): 2018	<10.0	400 (24hrs)
Carbon Manorcide (CO)	ang/m*	IS 5182 (Part-10): 2019 . (NDIR Method)	<1.0	2 (00m)
Lind (Pb)	up/m²	25 5182 (Part- 22); 2019	0.005	1 (24hrs)
Nickel (Ni)	ng/m ⁷	08 5182 (Port-26): 2020	<6.0	20 (Amual)
Acumic (Ax)	ng/m²	ELES/AIR/SOP/01; 2021:	<2.0	-06 (Annal)

Page 1 of 2

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TEST REPORT

Test Report No.	: ELES/RNC/2024/4756	Report Release Date	: 22.05.2024
Work Order No.	: 13612312113	Work Order Date	: 28.00.2024
ULR No.	: TC1358724000026755	7.2.2.2.710.00000.100	111111111111111111111111111111111111111

Discipline	: Chemical	Groupt Atr	nespherie Polh	tion
Parameter	Linit	Tist Protocol	Result	Regulatory Limit
Beruere (Cdfs)	jug/m ¹	ELES/OC/SOP/05: 2023	<1.5	05(Annuel)
Benzo-(a)-Pytons	rg'm	ELES/GC/SOP/05; 2023	-0.5	Ol(Annual)

AKASH KUMAR Quality Manager

ELES PVT. LTD.

****End of Report****

Anthorised Signatory
Dr. Deopendra Kumar Sinha.
Ph. Dissyronmental Enga.
ELES Par List Technical Manual III.

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TEST REPORT

Test Report No.	: ELESSENC/2024/4797	Report Release Date	22.08.2024
Wark Order No.	: 13612512113	Work Order Date	: 28.63.3024
ULR No.	TC1358*2480902676F		

CUSTOMER DET	AILS	SAMPLE DETAILS	
Cartorier North	Hindalco Industries Limited	Sample Ref. No. Legation Sampling Code	HLESGING/2024/AA/3440 Near Palot Gada Village 12:18:2024 to 13:86:2024
Address	Lobardaga, Frankhund-835303	Sample Received Date Type of Sample Sampling Procedure	: 14/08/2024 : Authiest Air : ELES/DOC/SMPLAG
Mines Status	: Operational	Sampling Dime By	ELES Pyt. Ltd.
Pariot of Analysis	1.14.08.2024 to 22.08.2024	Sample Condition	Scoled & Preserved

METEOROLOGICAL INFORMATION	
1 Average Temperature (*C) 127	2 Barometric Pressure (nonHg) (74)
1 Relative Humklity (%) : 68	4 Weather Condition : Clinidy

Discipliner	Chemical	Group: Alac	copheric Thill	rtlim
Personeter	Unit	Test Protocol	Revelt	Regulatory Limit
Particulars Matter (PM)03	sg/m²	15 5112 (Pan-21): 2022	-43	100 (24tm)
Porticular Motor (PM2.5)	pyim!	15 5182 (Party 24): 2010	34	46 (2 thrd)
Wilphin Di-Oxide (SO ₁)	jayim ⁴	15 5182 (Purs-16/Sec-1): 2023	5.6	80 (2 0m)
Nitrogen Di-Oxide (NO ₁)	(igim)	75 5182 (Part- 6): 2002	383	00 (3 this)
Ozma (O)	(agint)	15 5182 (Patr- 9): 2019	<20.0	FDC (Slien)
Ammonis (NH ₁)	HETT	15 5182 (Pan-25): 2018	<10.0	400 (29m)
Carbon Monumbin (CO)	62/01	IS 5187 (Per-10): 2019 (NDE Method)	<1.0	2 (Ro)
Lend (Ph)	safet.	19.5182 (Part-22): 2019	49.803	1 (248m)
Nickel (NI)	rain*	19 5182 (Pan-36) 3000	<6.0	20/A/mmi
Asperia (NI)	ng/m²	ELES/ARUSOP91, 2021	<2.0	de (Armed)

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Test Report No.	+ ELES/RNC/2014/4757	Report Melease Date	±22.08.3024	
Work Order No.	13612312113	Work Order Date	28.83.3024	
UER No.	TC128E72400002676F			

Disciplina	n Chemical	Gesap: Af-	nospheriz Pulls	dim
Eusenmer	thic	Test Pressed	Result	Regulency Limit
Between (C ₁ H ₁)	ag/m	ELEA/GC/50P/66, 2023	<2.5	05(Annual)
Botzo (a) Pyrene	2g/m1	ELECTIC SOP(05: 2023	41.4	Gl(Annial)

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ELES PVT. LTD.

****End of Report****

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BLIES Pys. Ltd. Technical Manager

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TEST REPORT

Test Report No.	ELEVRNC/2024/4756	Report Release Date	23.08.2024
Work Order No.	: 136(23)2(3)	Work Order Date	- 28.63-2614
CER No.	TC135872400003577F		

CUSTOMER DET	AILS	SAMPLE DETAILS	
Contrese Name	Hintuley butastnes Limited	Sample Ref. No. Location Sampling Date	: BLESBNC/2604/An/8441 : Near Pel Pel Village : 12.84/2024 to 13.08/2024
Address	Lohardago, Barkhand-135302	Sample Hoseived Data Type of Sample Sampling Procedure	: 14.08.2024 Ambien Air BLES/DOC/SMPL/02
Minor Status	- Operational	Samping Dear By	TLESPALLIS
Period of Analysis	: \$4.08.2024 to 22.08.2024	Sample Condition	Sealed & Preserved

TEDROLOGICAL INFORMATION	The state of the s	
Average Temperature (*C) : 27	2 Baramatric Pressure (sumHe) 741	
Relative Humiday (%) 1-88	4 Wouther Confiden Charle	

Shripline: Chemical		Group: Atmospheric Polletion		
Parameter	Unix	Test Protocol	Smilt	Begulatory Limit
Portioulate Matter (258)(0)	pg/m²	15:3102 (Pwt-21): 3022	41	160 (24hm)
Particulate Shator (P542.5)	jug/m²	15:5(02:/hun-24): 2019	16	60 (34)es
Submar Di-Oxinir (NO.)	pgm.	IS 5 (R2 (Pur) 12 See: 1 jc 2023	5.2	80 (24fm)
Nitrogen Di-Ovate (NO.)	ngm	19 5182 (Part. 6tt 2022	14.8	70 (24hm)
Crace (O ₁)	μg/m ¹	15.3182 (Non-9); 2019	<20.0	ido (mes)
Armenia (NII.)	ug/m ¹	35 5147 (Pwrt-23); 5014	<18.0	406 (24hm)
Carbero Millionide (CC)	mgm!	35.5182 (Part-10); 2019 (N33R Mathod)	41.0	2 (9hm)
Lond (Ph)	1995	15 5182 (Part-22); 2819	<0.002	1-(Dibns)
Notat (N)	igns.	25 3102 (Peri-26): 2020	151	30 (Annual)
Azimie (As)	nght*	TEES/ADI/SOP(0): 5023	-0.11	06 (Astroid)

Page 1 of 2

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TEST REPORT

Tred Report No.	1 ELESTRAC/2024/4758	Report Referre Date	122.69.2024
Work Order No.	: 15612312113	Work Order Date	: 38:03:3124
ULR No.	- TC (3887)400002677F		

Discipline: Cheminal		Groupe Atmospheric Pullution		
Parameter	Unit	Test Protoggi	Result	Regulatory Limit
Benezoe (C _t H ₀)	MD/KIT ¹	ELES-OC/50P06-2023	43.5	29(Amail):
Haruto-(a)-Pyrena	rigim ³	III.ES/OC/S00/05: 2023	49.5	010Amos0

AKASH KUMAR Quality Managor

ELES PVT LTO.

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Hatherhof Algentary

Dr. Deependra Kurner Sinho

Ph. DEnvironmental Lago

SLES Put, Ltd. Technical Manager

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TEST REPORT

Test Report No.	ELES/RNC/2024/4789	Report Release Date	: 22,09,2034
Work Onlin No.	(134)2312113	Wark Order Date	: 28.03.2024
FLR No.	: TC125472400003678F		

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	- Hindrica Inhustria Limited	Semple Ref. No. Location Sourgling Date	1 ELES/IOX/7024/AA/5442 2 Noar Shakhuapan/ Village 1 12.08/3924 to 1 6/08/2024	
Address	: Lohantiga, Huckhard-835302	Sample Received Date Type of Sample Sampling Procedure	Dicol 2024 Ambient Air ELEO/DOC/SMPL-02	
Mines Status	Operational	Sampling Dana By	ELES Pit, THE	
Parried of Amilysis	14.08.2024 to 22.08.2024	Sample Condition	Scaled & Preserved	

METEOROLOGICAL INFORMATION		
Arimge Emperature (*C) : 27	2 Barmerk Preser (mnHg)	: 741
Relative Humidky (%) -68	4 Weather Condition	Cleudy

Discipline Chemical		Group: Atmospheric Pullution		
Parameter	Date	Test Protocol	Resti	Regulatory Limit
Particulary Matter (PM10)	"hitem"	15 5002 (Part-31); 2002	44	100 (24fes)
Particulars Master (PM2.5)	ag/m²	15 51R1 (Pari- 24): 1016	24	50 (24hrs)
Sulptur Di-Onite (SO ₁)	MB.M.	12:5111 (Part 11/6c-1):3021	5.3	80 (24bn)
Nicogen DI-Chate (NO)	14.2/m ³	75 5182 (Part: 6): 2022	15.1	80 (20bm)
Cione (C-i-	agm*	19:5143 (Pen-5): 3014	-das	100 (Itm)
Ammaria (NH ₄)	pg/m*	\$5.5182 (Part-25): 2818	<10.6	400 (50lm)
Carbon Minneside (CCO	region*	25 5182 (Pari-10); 2019 (NORL Mediad)	41.3	2.00mg
Lind (Mo)	Hg/m ³	15.5113 (Pars-22); 2019	<0.001	1:240m
trickir (pri)	tagini	15 5182 (Part-2E)-2625	95.0	33 (Armel)
Arimic(3%)	39/07	10.40vABe#5061-2021	-0.0	di (Ameri)

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Test Report No.	ELES/RNC/2024/4729	Report Release Date	:22/82/04
Wark Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULICNO.	TC155971400002A7RF		

Discipline: Chemical		Group: Atmospheric Pollstion		
Parameter	Ueit	Yest Protocol	Result	Regulatory Limit
Denzini (C ₂ H ₂)	Mg/m²	ELES/OC/808/06: 2023	42.5	25(Amust)
Bean-00-Pyrone	ingm"	ELES-GC/90(905, 202)	-0.5	htt(Annual)

AKASH KUMAR Quality Managor ELES PVT LTD

****End of Report****

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TEST REPORT

Test Report No.	ELESSING/2014/4760	Report Release Date	122.08.2024	
Work Driler No.	1 13612312113	Work Order Date	- 29.03.2024	
ULRNE	: TC13:9172400002579F	11-2-1-20-7		

CUSTOMER DET	CUSTOMER DETAILS		
Cocomer Name	Hindskin (adkresses Limited	Sample Ref. No. Location Sampling Date	ELESTENC/2024/AA/S441 Noar Digo Kujum Village 12 08 2024 to 13 08 2024
Address	: Lohamisps, Patrichand-8353902	Sample Received Date Type of Sample	14.08.2024 Ambient.Ale
Mines Squar	-Operational	Sampling Procedure Sampling Done By	ELESTRICISMPLAC
Period of Analysis	±14.08.2024 to 22.08.2024	Sample Condition	Soloi & Preserval

RETEOROLOGICAL INFORMATION		
Average Tampundure (*C) : 27	2 Batomeric Francis (rentig)	1788
Relative Hamiday (%) : 65	# Wzathor Condition	2 Clouds

Discipline	Chemical	Group: Am	respheriz Path	rtian
Parameter	Unit	Test Protection	Result	Regulatory Limit
Farriculate Motion (PNGO).	'agrin'	15 5182 (Fan-21) 2012	42	100 (24hm)
Particulate Matter (PM).51	ing/m ³	IS \$193 (Part 24): 2019	21	49 (24hrs)
Selphor IX-Oriole (SO ₁)	pgrm ⁴	15 5182 (Part-195e) () 2021	5.4	10 (2 thrs)
Nitrogen Di-Oxide (NO)	hit m	(5.5182 (Part-10) 2022:	17.1	80 (3-020)
Contribut	HIPTO 1	15 5182 (Farty 9): 2019	<20.8	100 (thm)
Ammonic (NIII _d)	parm!	25 5182 (Part-25): 2018	<10.0	490 (249)
Carbon Monowder (CO)	wg/m	38 \$182 (Part. 10); 2019 (NDM: Mirrhold)	<3.0	2 (8(m)
Load (Ph)	par'et1	15 5182 (Part 201 2019	<6.002	1 (79e))
Hidul (HI)	nam.	III 590 (Part-26) 3939	-01.6	20 (4pma)
Anusis (Ai)	1990	ELES/ATE/SONUL 2021	42.6	(M:(Annui)

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Test Report No.	ELES/RNC/2024/4760	Report Bricane Date	22.08.3634	
Work Order No.	13612312113	Work Getter Date	: 28.313.21(24	
ULR No.	1 TC135872400002479V	- Amountainment	The state of the s	

Discipline: Chemical		Groupe Atmospheric Pollution:			
Parameter	CHA	Tiest Protopol	Result	Regulatory Limit	
Benzoni (C _k H _k)	Mg/m²	BLESOCIOPINE 2021	<2.5	18(Annor1)	
Henco (a) Pyrou	ngm ¹	ELES/OC/800/05: 2023	43.5	Ut(Annail)	

AKASH KUMAR Quality Manage SLES PVT LTG

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Authorized Signatury
Dr. Deependra Kumar Signa

FLES Pvt. Ltd. Technical Miscon

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PLOT NO-36, MANISAROVAR ENCLANS, TOPOGASA HATIA, RANCH-RINGES PHARIHAND) GIT NO-2014/ESTEINER

ENGINEERING SERVICES PYT. LTD.

Email: Infolleriessico.in. eles.renchilligmail.com Phone no.: 0652-2290303 Wahate: www.ahaal.co.in



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TEST REPORT

Test Report No.	: ELES/RNC/2024/4810	Report Release Date	: 24.08.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135872400002729F		

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	: Mindaleo Industries Limited Limited Limited Limited	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: ELES/RNC/2024/DW/5452 : 12.08.2024 : 14.08.2024 : Drinking Water : Tap Water : Near Entrance Gate	
Mines Status	Operational	Sompling Procedure	(Guntari Bauschi Mines) : ELES/DOC/SMPL/01	
Period of Analysis	14,08,2024 to 24,08,2024	Soupling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved	

Discipline : Chemical Group :			Water	Regulatory Limit as per IS 10590:2012	
Parameter	Unit	Test Protocol	Result	Arceptable Limit	Permintle Limit
pH (in 24.6 °C)	12	APHA 24" E4.2023, 4500-H	6.63	6.5-8.5	No Relaxation
Turbidity	NTU	APHA 24th Ed 2023, 2130-0	6.42	1,0	5.0
Tasta	- 1	APHA 24 th Ed 2023, 2160 C	Agreeable	Agrocable	Agreeable
Odear		15 3625 (Pan-5) 2018	Agrecable	Agrocable	Agreeable
Colour	Hann	APHA 24 E4.2023, 2120B&D	1.0	5.0	15
Total Disorded Solids (TDS)	mg/L	APHA 24 th Ed 2023, 25400LC&D	63	500	2000
Chloride (as Cl)	mg-L	APHA 25 th E4/2023, 4500 CLB	12.4	250	1000
Flooride (m F)	mg/L	APHA 24 th Ed.2023, 4500 F-D	BDL: (DL: 0.1)	0.1	13
Total Alkalinity (as CaCO ₁)	ngt.	APHA 24 th Hd.2023, 2326 B	13.2	200	600
Total Hardness (m CaCO ₁)	mg/L	APHA 24 th Ed.2023, 2340 C	21.3	200	600
Sulphoto (as SC) ₁)	mg/L	APHA 24 ⁶ Ed.2023, 4506 SO ₄ ² -E	1.8	200	400
Nacine (iis NO ₃)	mg/L	APRA 24 th Ed.2823, 4506 NO ₂ -II	BDL (DL: 0.5)	45	No Relevation

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Ereal: infe@riespl.co.in , electroechi@gmail.com Phone no.: 0653-2290103 Winksite: www.einspl.co./s

: 28.03.2024



TEST REPORT

Work Order Date

Test Report No. : ELES/RNC/2024/4810 Report Release Date 24.68,2024 Work Order No. : 13612312113

ULR No. ± T C135872400002729F

Discipline: Chemical		Group: Water		Regulatory Limit as per 1516/90: 2012	
Parameter	Unit	Test Protocol	Result	Aserptable Limit	Permissible Limit
Phenolic Compound (as C ₁ H ₂ OH)	mgT.	1S 3025 (Part 43/Sec l): 2022	BDL (DL: 0.001)	0.001	0:002
Free Residual Chiorine (RFC)	ang/L	IS 3025 (Part-26): 2021	0.34	0.2(Min)	1.D(Mim)
Calarium (as Ca)	mg/L	APHA 24 th Tid 2023, 3500 Ca B	5.4	75	209
Anionic Surfactants (m MBA5)	mg/L	APHA 24 th Ed.2023, 5546-C	BDL (DL: 0.025)	0.2	1,0
Discipline: Chemi-	eal	Ge	oup : Residues i	n Water	h.: =
Ahminun (as Al)	mg/L	IS 3025 (Furi-SS) (2003; RA2015	BDL (DL: 0.02)	0.03	0,2
Assmic (m As)	mg/L	15 3025 (Pan-37); 2022	(DL: 0.005)	0.01	No Releastion
Boron (as B)	mg/L	IS 3025 (Part-57) : 2021	BDL (DL: 0.2)	0.5	1.0
Cadmium (as Cd)	mg/L	APRIA 24th Ed.2023; 3111B	HDL (DL: 9.003)	0.003	No. Releasion
Fotal Chromium (as Cr)	mg/L	APHA 24 th Ed.2025; 3111B	BDL. (DL: 0.03)	0.05	No Relexation
Copper (as Cit)	mpL	APHA 24 ⁸ E42023; 3111B	BDL. (DL: 0.03)	0.05	1.5
Cyanide (as CN)	mg4_	APHA 24 th Ed 2023, 4500 CN-E	(DL: 0.012)	0.05	No Relaxation
Iron (as Fe)	ng/L	APHA 24" Ed.2023; 3111B	0.865	0.1	No Relausies
Lend (as Ph)	mg/L	APHA 34° 84.3023; 31118	BDL (DL: 0.01)	4.01	No Refusation
Manganese (in Ma)	Lym	APRA 24* Ed.2023; 3111B	BDL (DL: 0.05)	0.1	0.3
Mercury (as Hg)	mg/L	IS 3925 (Part-48): 2019	BD1. (DL: 0,001)	9.001	No Relaxation
Selenium (as Se)	ngt.	15 3028 (Part-56): 2019	8DL (DL: 0.01)	0.01	No.

Page 2 of 4

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ENGINEERING SERVICES PVT. LTD.

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TEST REPORT

Test Report No. : ELES/RNC/2024/4810 Report Release Date : 24.85.2024

Work Order No. : 13612312113 Work Order Date : 28.93.2024

ULR No. : TC1358724000027299

Discipline : Chemical		Group: Resid	lsex in Water		ory Limit 10500:2012
Parameter	Unit	Test Protocol	Result	Acceptable:	Permioside Link
Zinc (us Zn)	mg/L	APHA 24 ^b Ed.2023; 311115	BDL (DL: 0.1)	5.0	15
Polyouthur Assourtic Hydrocarbons (PAH)	ag1.	ELES/GC/SOP/04: 2023	BDL, (DL: 0.05)	0.1	No Relevation
Polychiorinated hiphenyls (PCB)	12k	ELES/GC/SOP/03: 2023	BDL (DL: 0.1)	0.5	No Relocation
Pesticides				Li	mit
Alacistor	μg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	- 53	00
Atrazine	μg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	2.0	
Detachlor	pg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	125	
Chloquyriphos	pg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	30	
Ethion	Jen	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	3.8	
Malathion	npt	ELES/GC/SOP(01: 2023	BDL (DL: 0.5)	- 35	90
Methy I parathion	ng/L	ELES/GC/SOP/01: 2023	BDL (DL: 0,1)	0.	10
Monocrotophos	ugit	ELES/GC/SOP/01: 2023	8DL (DL: 0.5)	1	.0
Phorate:	ug/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	2.0	
Phorate Sulphone	μg/L	ELES/GC/80(H0): 2023	BDL (DL: 9.5)		
Dielitrat	Pgq.	ELES/GC/SOP/02: 2023	BDL (DL: 0.01)	0.03	
Alpha HCH	μg'L	ELES/GC/SOP/02: 2023	BDL (DL: 0.006)	0.0	01
Beta HCH	pgd.	ELES/GC/SOP/02; 2021	BDL (DL: 0.02)	0.0	04

Page 3 of 4

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Website: www.ufespl.co.ie



TEST REPORT

Test Report No.	: FLES/RNC/2024/4810	Report Release Date	24.08.2024
Work Order No.	: 13612312113	Work Order Date	: 25.05.2024
ULR No.	: TC135872.00003779F		

Pesticides				
Parameter	Unit	Test Protocol	Result	Limit
Delu-HCH	μ <u>u</u> L	ELES/GC/SOP/02: 2023	HD4. (DL; 0.02)	0.04
Gimma HCH (Lindane)	Jupit.	ELES/GC/SOP/92: 2023	(DL; 0.02)	2.0
Endoueffan (alpha, bete mal sulphane)	ng/L	ELES/GC/SORVIQ: 2023	(DL: 0.05)	0,40
DDT(rep and p.p-isomers of DDT) (rep DDE and p.p DDD)	rg1.	ELES/GC/SOP/62: 2023	(DL: 0.05)	1.0
Discipitur: Biological		Group	Water.	
Foral Cofflorio (Qualitative)	Per 100 mL	15 15185: 2021	Not Detected	an arminer
Excherichie coll (Qualitative) Iemanici I, oll and RFC done of Le	Per 100 mL	18 15185: 2021	Nor Detected	Shall not be detected

Reviewed by AKASH KUMAR Quality Managor ELES PVT LTD

****End of Report****

Authorised Signatory

Dr. Deependra Kumai Sinha Ph.D Environmental Cocc. ELES Pvt Ltd. Technical Manager

Page 4 of 4

The December Meted as Time Report, in second by the Laboratory wader General Terran and Conditions, with an Company tester based in pro-approved format. The reports shows to the Test Report refer or relates only to the primarity or since by the Laboratory only. The intermedian issued on the Test Report referes the lindergy describe the Lebendary at the less of involvement only and votion the furnit of about a involution. The Laboration is concerning a responsible for all the information or data provided on the report, encapt the sufferences which is provided by the officer. The Report cannot be expended except in that and any part of the seport is not paint and of account. without plant surrige appearal of the Labourney. The Region in fall or in part shell make published, adversar, used for may legal notions unless parts over him bear account how the Management of the Laboratory. Afternoon is drawn to the landers of Earthly, compression and personal mass. Any assessment observed a foreformer of the content of appearance of the Tay Report is unimodel and editoriate race to previously to the deliber extent of the law. All the complex are extended for States from the Hot of release toward the Tart Remit, The sumples flow Regulatory feeling on to be retained as specified. See your of Observations or Complished regarding the Reports shall be time written ("days from the Date of Tool Report submodificated After the now payed mated before, no completes well for exception. The anne Time scholar reprinced in Yest Report is at Different forms. Address and NAS One application DOL (Date: Deposite Links, LDL (Long Baseline)



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TEST REPORT

Test Report No.	: ELES/RNC/2024/4810	Report Release Date	: 14.0%.2024	
Work Order No.	1 13612312113	Work Order Date	28.03.2024	

CUSTOMER DETAILS Customer Name Hindalco Industries Limited Address Lohardana, Barkhand-835302		SAMPLE DETAILS		
	: Hindalco Industries Limited : Lohardaga, Tharkhand-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: ELES/RNC/2B24/DW/5452 : 12:08:2024 : 14:08:2024 : Drinking Water : Tap Water : Near Entrance Gate	
Mines Status	; Operational	Sampling Procedure	(Gurdari Bauxite Mines) : ELES/DOC/SMPL/01	
Period of Analysis	14.04.2624 to 24.68,2024	Sampling Done By Sample Condition	ELES Pvt. Ltd. Scaled & Preserved	

Discipline: Che	mical	Group : Wa	ter		1079 Limit 10500:2002
Parameter	Unit	Test Protocol	Result	Acceptable Limit	Permissible Limit
Miceral Oil*	mg/L	18 3025 (Part-39): 2021, Clause fi infrared Spectroscopic method.	BDL (DL: 0.01)	0.5	No. Relevation

Remarks: (*) Parameters are extraored to other Lab.

AKASH KUMAR Quality Managur ELES PVT LTD.

****End of Report***

Authorised Signatory
Dr. Despendra Kurnor Sinha
Ph. D Environmental Engg.
ELES Pvs. Ltm. Technical Manager

Page 1 of 1

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TEST REPORT

Test Report No.	: ELES/RNC/2624/4812	Report Release Date	: 24.09.2024	
Work Order No.	1 13612312113	Work Order Date	: 28.03.2024	
ULR No.	TC135872400062731F			

CUSTOMER DETAILS Customer Name Hindules Industries Limited		SAMPLE DETAILS	
		Sample Ref. No. Sampling Data Sample Received Date Type of Sample	ELES/RNC/2024/EF/5454 13,08,2024 14,08,2024 Effluent Water
Mines Status	Operational	Source of Sample Sampling Procedure Sampling Done Dy	: Work Shop Effluent - Guntari Busicité Mines (584.19 ha) : ELES/DOC/SMP1/01 : ELES Pvt. Ltd.
Period of Analysis	14.08.2024 to 24.08.2024	Somple Condition	Smird & Preserved

Discipline : Chemical		Group : Pollation & I	Environment	Docturge Limits - CPCB EPR, 1986 Scholale VI	
Parameter	Cuit	Unit Test Protocol		Inland Surface Water	Land for Irrigation
pH (in 24.6°C)	14	APRA 24" Ed.2023,4500-H"	6.50	5.5-9.0	55-9.0
Total Dissolved Solids (TDS)	mg/L	15:3025 (Part-16): 2021	480	140	-
Total Suspended Solids (TSS)	mg/L	IS 3005 (Pan-17): 2022	14.8	100	200
Dissolved Oxygos (DO)	Tugn:	18:3025 (Pan-38): 2019	6.9	G-2	-
Biochemical Oxygen Demand (BOD) (at 27 °C for 3 days)	mg/L	15 3025 (Pws-44): 2023	6.5	30	100
Chemical Oxygen Demand (COD)	mg/L	IS 3025 (Part-58): 2023	46.0	250	
Dissolved Phosphane (as P)	mg/L	18 3025 (Part-51/Sec-1): 2022	(DL: 0.5)	5.0	**
Fluido (m F)	mg/L	IS 3025 (Part-60): 2019	9.69	2.0	1.5
Sulphide (as S)	mg/L	IS 3025 (Part-29) : 2019	BDL (DL: 0.04)	2.0	-
Oil & Grone	mg/L	1S 3025 (Part-19): 2021	1.4	10	.10

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TEST REPORT

Test Report No.	: ELES/RNC/2024/4812	Report Release Date	: 24.68.2924
Work Order No.	13612312113	Work Order Date	1 28.03.2024
ULR No.	: TC155872400002731F		

Discipline: Chemical		Group 2 Ros	Group : Residues in Water		Discharge Limits - CPCB EPR, 1986 Schedule VI	
Parameter	Unit	Test Protocol	Result	Inland Surface Water	Land for Irrigation	
Lead (as Pb)	mg/L	APHA 24 th Ed:2023, 3111 H	BDL: (DL: 0.01)	0.1	-	
Mangarrese (in Min)	mg/L	APBA 34 th Ed.2023, 3111 B	0.083	2.0	147	
Mercury (ac Hg)	mg/t.	18 3025 (Pars-48): 2010	(DL; 0,001)	0.00	-	
Nickel (av Ni)	mg/L	APBA 24 th Ed.2023, 3111 B	BDL (DL: 0.01)	3.0	-7	
Zinc (in Zn)	mgT.	APHA 24th Ed.2023, 3111 B	BDL (DL: 0.1)	5.0		

Remarks: pH done at Lab.

AKASH KUMAR Quality Manager ELES PVT_LTD

****End of Report****

Authorised Signatury
Dr. Deependra Kumar Sinha
Ph. D Environmental Ergs

ELES PVI. Ltd. Technical Manney

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ENVIRONMENTAL LABORATORIES & ENGINEERING SERVICES PVT, LTD.

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

Gurdari Banxite Mine-Environmental Monitoring Report

September 2024



CONTENT

Hied	hileo Industrias : Gurdari Barrity Mine Environmental Monitoring Report September 203 Gurdari Buryiya Mine
	AMBIENT AIR QUALITY- CORE ZONE
1	Estrance Cate / Near Mise Office
	Near Karkang Mines
	Noar Mine Wolgh Heidge
	Near Dhoby Kutamin
	AMBIENT AIR QUALITY- BUFFER ZONE
	Near PakriGado Village
	Near Pol Pol Village
1	Near Shothnapara Village
4	Sair Dipolyamir Village
	AMBIENT NOISE
	WORKZONE NOISE
	Spring Water
	Bugs Bort
	Stream Water
	Up Streen (Dhardheri Nadi)
1	Down Strain (Dhaitheri Nadi)
1.	Up Street (Shorid) Node)
1	Down Straint (Starlde Nadi)
5	Un Stream (Koyal River)
6	Down Strain (Koyal River)





PLET MO-30, MANSARDVAR ENCLAVE, TUFUDAMA MATIA, RANCHI ESADOS (MARIOMANTI) GIT MO-36ARCESTI BILIN

MGINEERING SERVICES PUT. LED.

Eval' intidecisal co.in. eks.runchi@anoil.com Phone no.: 0661–3290103 Webste : www.elsesl.co.in



TEST REPORT

Test Report No.	: ELES/IENC/2024/5346	Report Release Date	: 23.09.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC1358724000032598			

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindulco Industries Limited	Sample Ref. No. Looseion	ELES/RNC/2024/AA/6180 Entrance Gate/Near Mine Office Guidari Baudte Mine (584.198a)	
Address	: Lehanbuge, Therithand-835302	Sampling Date Sample Received Date	14.09.2024 to 15.09.2024 116.09.2024 Ambient Air	
Mines Status	: Operational Type of Sample Sampling Procedure		:ELES/DOC/SMPL/02	
Period of Analysis	: 16.09.2024 to 23.09.2024	Sampling Done By Sample Condition	: ELES Pvr. Lail. : Sociod & Preserved.	

METEOROLOGICAL INFORMATION			
1 Average Temperature (°C) : 26	2	Baromeonic Pressure (imm?	10 747
3 Relative Humidity (%) : 72	-4	Weather Condition	Rainy

Discipline : Chemic	al	Group :	Group: Atmospheric Pollution		
Parameter	Unit	Test Protocol	Result	Regulatory Limit	
Particulate Matter (PM10)	up/m ²	15 5182 (Port- 23): 2022	42	100 (24km)	
Perticulate Matter (PM2.5)	pg/m ²	45 3182 (Part- 24): 2019	20	60 (26hrs)	
Sulphur Di-Oxide (8O ₁)	pg/m ²	35 5182 (Pwt-2/Sex1): 2021	5.2	30 (24bn)	
Nitrogen Di-Oside (NO ₁)	µg/m ³	85 5182 (Part- 6): 2022	12.4	80 (24hrs)	
Owene (Os)	ug/m ³	15-5182 (Part-9): 2019	<20.0	100 (8hm)	
Ammonia (NHJ)	safet?	25/5182 (Part-25): 2018	<10.0	400 (24hrs)	
Carbon Monoside (CO)	mg/m ¹	IS 5182 (Part. 10); 2019 (NDIR Meshod)	<1.0	2 (8hrs)	
Lood (Ph)	pg/m [†]	19:5182 (Part- 22): 2019	<0.002	1 (24hrs)	
Nickel (Ni)	ng/m³	IS 5182 (Pars- 26); 2020	<6.0	20 (Annual)	
Arsenic (As)	ng/m²	ELES/ABUSOPOL 2021	<2.0	96 (Annual)	
Benzene (C ₄)(₄)	eg/m²	ELES/GC/SORG6: 2021	<2.5	(IS(Armial)	
Benzo-(a)-Pyrene	agin'	ELES/GC/50P/65: 2023	<0.5	01(Annual)	

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****End of Report****

Page 1 of 1

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Technical Manager

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TEST REPORT

Test Report No.	± ELES/RNC/2024/5347	Report Release Date	: 23.09.2024	
Work Order No.	: 13612312113	Work Order Date	28.03.2024	
ULR No.	: TC135872400003260F			

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name	: Hindalco Industries Limited	Sample Ref. No. Location	ELES/RNC/2024/AA/6181 New Karking Mites Gurderi Baucite Mine (584.19hi)
Address	: Lehardage, Jharkhand-R35302	Sample Received Date Type of Sample	: 14,09,2024 to 15,09,2024 : 16,09,2024 : Ambient Air
Mines Status	s Status : Operational Sampling Procedure		ELES/DOC/SMPL/02
Period of Analysis	: 16.09.2024 to 23.09.2024	Sampling Done By Sample Condition	ELES Pvt. Ltd. Souled & Preserved

METEOROLOGICAL INFORMATION	10000	the state of the s	
Average Temperature (*C) : 26	2	Samueltis: Pressure (mmHg)	: 742
3 Relative Hamidity (%) :72	-4	Weather Condition	Rainy

Discipline: Chemic	al	Group :	Atmospherie l	Prillation
Parameter	Unit	Test Protocol	Result	Regulatory Limit
Particulate Matter (PM10)	up'm'	18 5182 (Part-27): 2022	37	100 (24hm)
Particulate Matter (PM2,5).	µg/m³	IS 5182 (Pan-24): 2019	20	60 (24tm)
Sulphur Di-Oxide (5O ₃)	pg/m	15 5182 (Part-2/Sectly, 2023	<5.0	80 (24hrs)
Nitrogen Di-Oxide (NO ₃)	µg/m²	15 5182 (Part- 6): 3022	12.8	80 (24hrs)
Oyone (Ot)	agin*	IN 3147 (Pert- 9): 2019	<20.0	100 (8bm)
Ammonia (NHs)	pg/m*	15 5182 (Part- 25): 2018	<10.0	400 (24hrs)
Carbon Monocide (CO)	engino!	IS 5182 (Part- 10): 2019 (NDIR Method)	<1.8	2 (8hx)
Leut (Ph)	µg'm	IS 5182 (Part- 22); 2019	<6.002	1 (24hrs)
Nickel (Ni)	ng/m²	15 5182 (Part- 26): 2020	<5.0	20 (Annual)
Asseria (As)	mp/m²	ELES/AIR/SOP(0) 2121	<2.0	96 (Annual)
Benzene (C _c H _c)	agin."	ELESGC/SOP(6: 202)	<2.5	05(Annual)
Benzi-(a)-Pyrene	ng/m³	ELES/GC/501/05: 2023	<0.5	Ol(Annual)

A J. J. A. Reviewed by

Quality Manager

****End of Report****

Dr. Deepandra Kamar Sinha Ph. D. Environmental Engg.

Page 1 of 1

Technical Manager

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PLOT NO-10, MANGAROVAR ENCLARE, TURUDANA MATIA, RANCHI ESPEDO (MARKWARD) EST NO-28AASCHELSESS

ENGINEERING SERVICES PVT. LTD.

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TEST REPORT

Test Report No.	1 ELES/RNC/2024/5348	Report Release Date	: 23,09,2024	
Work Order No.	: 13612312113	Work Order Date	: 28.63,2624	
ULR No.	: TC135872400003261F			

CUSTOMER DETAILS		SAMPLE DETAILS		
Castoner Name	: Hinduko Industries Limited	Sample Ref. No. Location	ELES/RNC/2024/AA/61R2 Near Mine Weigh Bridge Gurderi Bezuite Mine (784.19ha	
Address	: Lehantaga, Jharkhand-835302	Sampling Date Sample Received Date Type of Sample	14.09.3924 to 15.09.2024 116.09.2024 Ambient Air	
Mines Status	nes Status Operational Sampling Procedure		ELES/DOC/SMPL/02	
Period of Analysis	16.09.3024 to 23.09.2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved	

METEOROLOGICAL INFORMATION	100		
1 Average Temperature (*C) : 26	2	Barometric Pressure (mm	Hg):::743
3 Relative Humidity (%) :72	4	Weather Condition	: Rainy

Discipline: Chemic	sit .	Girmp:	Atmospherie l	Pollution .
Parameter	Unit	Test Protects	Result	Regulatory Limit
Particulate Matter (PM10)	ug/m ³	15 5162 (Part-23): 2022	51	100 (24hrs)
Particulate Matter (PM2.5)	ug/m ³	15 5182 (Part- 24): 2019	25	60-(24hrc)
Solphur Di-Oxide (80 ₃)	ug/m²	15 5182 (Party-2/Sec 1): 2023	7.2	60 (24hri)
Nitrogen Di-Oxide (NO ₁)	µg/m³	IS 5182 (Part-6): 2022	22.6	80 (24hrs)
Owne (O ₂)	ug/m²	IS 5182 (Part- 9): 2019	<20.0	100 (8hrs).
Ammonie (NH ₁)	popini*	IS 5182 (Part-25): 2018	<10.0	400 (24hrs)
Carbon Monecide (CO)	mg/m ⁴	18 5182 (Part-10): 2019 (NDIR Method)	<1.0	2 (8hrs)
Lest (Ph)	agm ²	15 5182 (Part- 22): 2019	0.005	1 (24hrs)
Nicket (Ni)	ing/m ³	15 5182 (Part-26): 2020	<0.0	20 (Armal)
Atsenic (Ax)	rig/m²	ELES/AIR/SON01: 2021	<2.0	06 (Armal)
Hermone (C,H ₆)	pg/m²	ELESGOSOPIN: 2023	<2.5	05(Annal)
Benzo-(a)-Pyrene	ng/m³	ELES/GC/50P/05: 2023	40.5	(favori)10

Reviewed by

Quality Manager

**** End of Report****

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Dr. Dietjenting MARSE Sinha Ph. D. Environmental Engo.

Technical Manager

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PLOT NO-30, MANSARDVAR ENCLAVE, TURUDANA MATIA, RANCOU 654005 (MARKMANO) BIT NO-35447090130034

ENGINEERING SERVICES PVT. LTD.

čnaš: infolieimal co.in , eles, mich (Paral) com Phone no.: 0651-2290105

Wethsite : www.ofespl.co./e.



TEST REPORT

Test Report No.	1 ELES/RNC/2024/5349	Report Release Date	+ 23.09.2024	
Work Order No.	113612312113	Work Order Date	28.03.2024	
ULR No.	: TC135872400003262F			

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name Address	: Hindalco Industries Limited : Lehanings. Jiarkhand-635302	Sample Ref. No. Location Sampling Date	ELES/RNC/2024/AA/6183 - Near Dhobi Katumb Gurdari Banaire Mine (584-19fm : 14-09-2024 to 15-09-2024	
Mires Status	: Operational	Sample Received Date Type of Sample Sampling Procedure	- 16.09.2024 - Ambient Air - ELES/DOC/SMPL02	
Period of Analysis	: 16.09-2024 to 23-09-2024	Sampling Done By Sample Condition	ELES Pet. Lot. Scaled & Preserved	

Average Temperature (NC) 26	2	Diagographic Pressure (mmHg).	742
Relative Hamidity (%) :72		Weather Condition	Rainy

Discipline : Chemic	al	Group:	Atmospheric l	Pullation
Parameter	Unit	Test Pretocul	Result	Regulatory Limit
Particulate Matter (PM10)	µg/m²	18:5182 (Pan-23): 2022	35	100 (24hrs)
Particulate Matter (PM2.5)	ug/m²	3S 5182 (Part-24): 2019	15	69 (26hn)
Snighur III-Oxide (SO ₃)	ugin	35 5182 (Part-2/Sec.) k 3023	<5.0	80 (24hrs)
Nitrogen Di-Onide (NO ₁)	µg/m²	18 5182 (Part- 6): 2022	10.8	80 (24hrs)
Ozoroe (O ₂)	Mighty.	35 5182 (Part- 9): 2019	<20.0	300 (Shrs)
Ammonia (NEL)	ug/m²	Us 5102 (Part-25): 2018	<10.0	400 (24hrs)
Carbon Minnoxide (CO)	regim*	IS \$182 (Part-10); 2019 (NDIR Mothed)	<1.0	2 (Nhrs)
Leak (Ptr)	ug/m²	15-5182 (Part- 22): 2919	<0.002	1 (24hrs)
Nickel (NI)	ng'm'	IS 5182 (Parts 26); 2020	<6.0	20 (Annual)
Azsunio (As)	ng/m²	ELES/AIR/SOP(01, 202)	<2.0	96 (Annual)
Honzone (C.,H _e)	pg/m²	ELES/GC/SOP(% 2021	<1.5	(IS(Armial)
Benzo-(k)-Pyrene	ngin'	ELES/GC/SOP/05: 2023	<0.5	01(Armal)
AND REVISED AS AN ADMINISTRATION OF THE PARTY OF THE PART			17	

Reviewed by Abash Kumur

Osseller Manager

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Authorised Sigmany Dr. Denpundra Kumar Sinha

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Ph. D. Environmental Eng Technical Manager

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Test Stepart No.	TELEVISION STATES	Report Reliase Dete	124 012004
Worth Ordan No.	13612312112	Worth Order Date	:29.00.240.4
ULR No.	± Y CA35WT34000032GAF		
CONTOMICA DE	Alla	SAMPLE DITALLS	
Constitute Vising 130 Abdress 1 Entertuge, Therefore 205302		Sample Staff No. Lineation Scompling Date Sample Renoived Date Type of Sample Eastphase Landing Provider Landing	
Miner Hette	(Openford)	Sampling Date By	HIESPA LIE
Period of Analysis	1 14:08:2024 to 71:08:2034	Sample Condition	Solid & Prograd
MATRIORGUDGA	CAL INFORMATION		
1. Average Temp	matura (*C) : 26	2 Directors Pressure	(mindig) ::742
5 Rentive Huma	Ny (%) 172	Weather Condition Nativy	

Disclution: Chambridge	al la	Great t	Almospheric	Pollution
Promise	Thir	Test Protocol	Hisult	Regulatory Limit
Particulate Matter (PMIN)	pg/m ²	15 5183 (Pin-23) 2001	38	100 (24hrs)
Persiculate Matter (PM2.5)	jig/m ¹	38 5182 (Pari-14): 3019	12	60 (2flan)
Sulprur Di-Oxide (SO _E)	pgin'	15 5182 (Part-2/Ser 1): 2023	<5.0	83 (20hn)
Ninages Di-Oxide (NO ₂)	pann	25.5182 (Far)-55-2622	13.9	80 (24ho)
Ostone (O ₄)	ug/to*	18 5182 (Pari- 9): 2019	<20.0	100 (ffm)
Azurtonia (NH _i)	(g/m²	Til 51 M2 (Part- 25): 2014	<10.0	#00 (24hm)
Carlon Menoditi (CO)	mg/m²	(NERT (Parts 10) - 2019 (NERK Marked)	41.0	20hn)
Lext (Ph)	ug/m ²	75 5140 (Part-20): 2019	<03,002	T (214hrs)
Nickel (Ni)	ngire*	15 5182 (Pan- 26): 2020	46.0	29 (Annual)
Aistrik (Ai)	region*	PERSONAL 2021	<7.0	06 (Amust)
Pierrowaie (C ₅ H ₆):	'nigita'	ELENGC/SCP04-1923	45.5	(B(Amond)
Sense-(a)-Pyrone	ngim	ELES/GC/SCP/05: 2027	<0.5	int(Annual)
DATE OF THE PARTY				-

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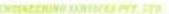
Dr. Deependra Kümar Sinha Ph. D. Environmental Engal. Technical Manager

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TING REPORT

Yot Report No.	= 81.005CVCT0C34(RIS)	Bagory Rainess Delic	125 (0.2424	
	13472513113	Warts Owder Date	±28.69.200×	
ULR No.	x TC138675480803544F			

CURTOMER DES	ALLB	SAMPLE BETAILS	HTML/workersensory in the service	
Continue Name Aldress	Stocker advances Control Laborage, Reinberd-435393	Sample Hall No. Location Sampling Date Sample Received Date Type of Sample	70 78 930 Cottana AN ES 7 Near Pai Pai Village 7 (4.09 2006 in) 3 am 3034 7 Authorit Air	
Mine Some : Operational		Sampling Procedure Sampling Drine Sur	ELES PILLIA	
New Arthress	= 16,09,2024 (s-23,09,2024	Sample Condition	Socied & Preserved	

METEORIELOGICAL INFORMATION

Average Temperature (*C) : 26	2 Baromatoic Pressure (conflig	0 : 502
3 Relative Histolity (%) 15	4 Weather Crosilinan	Thing

Discipline : Chemical		Group I	Atmospherie !	Poliusion
Parameter	Thir	Test-Protond	Result	Megaliancy Limit
Pertiabile Motor (PM10)	pgitz	15 51 R2 (Parts 21); 2002	31	100 (34hn)
Particular Matter (7942-5)	agim"	38 5182 (Pun-24); 2019	115	60 (24hm)
Selpsy D-Oxide (SC)	MEDIA	15 F182 (Part-2/Sec1); 3821	<5.0	\$3 (21lm)
Nitroger Di Oxide (NO.)	pare.	III 5182 (Part 10: 2022	18.5	80 (Nteri)
Gloss (O ₄)	sight?	15 57 KI (Part- V): 3010	<20.0	100 (film)
Ammonia (NH _e)	ug/br ²	19 3192 (Pert-23): 2018	<10.0	800 (340s)
Carbon Monoside (CO)	mg/m²	(SERI (Part 10): 2019 (SERI Minhed)	<1,0	2 (the)
Lend (Ph)	ught ²	15:51 k2 (Pan-22): 2019	<0.002	1 (24hrs)
Nikkel (Nii)	agist"	15 5182 (Part- 26): 2020	411	20 (Annual)
Arrielic (Av)	autoria.	ELES-ARCKOPOL 2021	<2.0	06 (Annual)
Berown (CSA)	agin,	1115 GC/90 POV-2023	41.5	(hanch)(III
Saron-(a)-Pyrone	rg/m²	11150CSCR05-1011	<0.5	(dt(Anoust)

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Guilly Manager

****End of Report****

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

Technical Manager

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	112	EL BULPURU	
Test Report No.	LEADING COMPANIE	Report Robert Date	122/073034
West Order No.	13612712313	Work Order thes	100.03.2024
UEB No.	TC1358714810631/37		
CUSTOMER DET		SAMPLE DETAILS	
Designer Fame Authors	: Hindoo Industrie Circled : Leberbuy, Paulitine 435302	Semple Bot No. Lecation Semplety Date Keeple Reserved Date Type of Sample	HLESON DOOD AND THE Distribution Village 14.00 DDs to 19.00 2094 14.04 2023 Andrew Air
Mines films	2 Operational	Sempling Procedure Sempling Close By	ILES DOCAMPLO
Period of Analysis	: 16.00.2024 to 23.09.2024	Sample Condition	Souled & Preserved
METEOROLOGI	CAL INFORMATION		
	pratrie (°C) — Si	2 Decomptos Frances	imoligs 1742
3 Hattitive Humin	(ily (h) 12	4 Wester Conflicts	120kg

Dissiplien: Classic	ni i	Groups	Ainorgheir	Pollution
Parameter	Dot	Test Protocol	Result	Hegaletsey Linit
Particulate School (19610)	ughts.	15.5182 (Part-31): 2023	.31	100 (24hrs)
Particulate Matter (PM2.5)	pagent ²	(% 5)(\$2 (Pun-24): 2019	-26	(0 (24bx)
Sciprur Di-Orode (SO _E)	'agmi'	IS \$142 (Part-2/Sect) 2023	5.8	10 (24km)
Nitrogen Di-Oxide NOU	ppins*	15 5182 (Part-6): 3/02	163	96 (24bs)
Oscer (O ₁)	Marin 1	- 16 31.82 (Pers-9): 2019	<38.8	100 (8tm)
Aremenia, OSEG	HW/NT	15:51 (2:(Pun-25): 2018	<10.0	400 (24hm)
Carbox Manoxida (CO)	ngin"	15-3182 (Part-10): 2019 (NOTE Named)	<1.0	2 (thry)
Lond (Phy	agrin'	85.3182 (Hin-22): 3019	-00,862	1.(24ho):
Sicket (Nii)	ngm.	15-5182 (Part-26): 2009	<6.0	20 (Annual)
Aneski (Au)	min.	ELES/ADL/SOP/01/2021	<2.0	96 (Annul)
Donner (Calle)	HEM.	ELES/CC/GOR/W/2023	4.5	05(Annus)
Bruto-co-Pyrene	ig/n³	ELES OD/SOR(65: 2023	45	OlijAmmaii

Approved by About Special Spec

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Dr. DREPHIERS Kamer Sinha Ph. D. Environmental Engg. Technical Measure

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	192	I REFERE		
Test Report No.	I LLINES CONTRACTO	Report Briston Date	-23,012004	
Work Dyday No.	(1302)(1)()	Work Order Date	128.00.2024	
CEALNo.	: TIC135072400003246F			
CUSTOMER DET	ATLE	SAMPLE DETAILS		
Catomet Notes	Chindren Territorid-135903	Sample Ref. No. Location Sampling Date Sample Received Date Type of Sample	ELESTRICORDADA ANTRO : Mess Dips Kajien Villago : 14.09.3034 to 19.16.2034 : 14.09.3034 : Antriest Air	
Mines Flames	Committee	Sampling Proteiture Sampling Date Hy	ELES/DOCASMILANS	
Pariod of Azalysis	1.6.09.2024 to 23.69.2024	Sample Condition	Sonot & Preserved	
METHOROLOGI	CAL ENFORMATION			
1 Avenings Temp		2 Darometric Pressure	(umlig) 742	
3 Helmiter Nignie	(Q-04) ITS	4 Weather Condition	Halog	

Discipline : Chresio	ini	Group	Almoyberic	ProBusien
Triminier	Cult	Ter Protocol	Rault	Regulatory Limit
Particulate Nutter (PM) (I)	pg/m	15 5182 (Part-73) 3012	48	100 (2 lbn)
Particulate Meter (PM2.5)	lg'm'	IN 5182 (Pwn-24): 3010	24	(0 (24ho)
Suspense DivOnda (SO ₃)	pg/m	15 5182 (han-2/Sec1): 5023	6.2	#0 (24bm)
Nimpar 2s Oxida (NO.)	pg/m ³	75 5182 (Post-10: 2022)	19.4	80 (24brs)
Oszes (O ₄)	ug/m1	HCE182 (Phet- 9): 2010	<20,0	100 (65es)
Amounta (2014)	ug/m*	15 51 82 (Pan- 25): 2018	<19.0	4(0)(24(s)
Carbon Minundde (CCV)	main"	15 5182 (Part-10): 2019 . (NOUL Method)	<1,0	2 (thru)
Lend (PN)	Hg/ftr	78-5182 (Part-22): 2016	9,007	1 (24hrx)
Siekel (NI)	ng/m²	35 5182 (Part-26): 2020	46.0	20 (Amust)
Activitic (An)	ogos*	ELESTAIR/SOPHI 2021	<3.0	00 (Annual)
Berume (Calla)	Jugin'	THE GOSONNS TOTA	<2.5	(th(Annual)
Benzo-(a)-Pyratie	ngim	ELES-GC/50(9)(5: 2023	40.5	D1(Annual)

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

Technical Manager

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PLOT NO. 10, MARSAROVAR ENCLAVE, TUPUDANA HATIA, RANCHO BERGOS (MARIONAND) ELF NO. 25648CPROLIDIZO

INGINEERING SERVICES PVT. LTD.

Erwit infoSpispi.com, elesconchilligensi.com Phone no.: 0651-2290103 Website : www.elessi.co.in



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TEST REPORT

Test Report No.	1 ELES/RNC/2924/5358	Report Release Date	±23,09.2024
Work Order No.	т 13612332113	Work Order Date	±28.03.2024
ULR No.	TC135872400003271F		

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	: Hindalen Industries Limited : Cohurdigo, Burkhard-835302	Sempling Date Sempling Reserved Date Type of Sample Sampling procedure Sempling Done By	: 14,09,2024 to 15,09,2024 16,09,2624 : Ambient Noise : ELES/DOC/SMPL/03 : ELES Pyt. Ltd.	
Mines Status	: Operational	Period of Analysis	16.09:2024 to 23:09:2024	

M	ETEOROLOGICAL INFO	EMATION			
1	Average Temperature (°C)	:26	- 2	Bacometric Pressure (mmHg)	±742
3	Relative Hamidity (%)	172	4	Weather Condition	Raing

Discipline : Chemical	Group : Ata	sospheric i	Pollution		
Location	Unit	Test Protocol	Rese	dt	Regulatory Limit (Industrial Zone)
			Time	Lac	
Near Mine Office Gurdari Bauxitz Mine (584.19ha)	dB(A)	A) 15 9989-2020	Day Yime	64	75 dB(A) Day Time
Sample ID: ILES/RNC/2024/AN/6192	210/01/2		Night Time	45	70 dB(A) Night Time



****End of Report****

Authorized Signatory

Dr. Deependre Kumar Sinha Ph. D. Environmental Engg. Technical Manager

Page 1 of 1

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PLOT NO-30, MANUARONAR ENCLAVA, TUPUDAMA HATIA, RANCHI-JARRIS (PHARKHANO) GET NO-28MHCRIVESIUS NOINEERING SERVICES PYT. LYB.

Erosk infulficiespi.co.in. eles.concMParcol.com Phone no.: 0651-2290101 Website : energy dept.co.in



TEST REPORT

Test Report No.	: ELES/RNC/2024/5363	Report Release Date	: 23,09,2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135872400063276F	- HUMOUNDOONS	CHONING COLOR

CUSTOMER DET	TAILS	SAMPLE DETAILS	
Customer Name Address	: Hinduizo Industries Limited : Lobardoga, Therkhund-835302	Sampling Date Sampling Received Date Type of Sample Sampling procedure Sample Drawn By	15.49.2024 16.49.2024 Workzone Noise ELENDOC/SMPL/03 ELES Pvt. Ltd.
Mines Status	: Operational	Period of Atalysis	16.09.2024 to 23.09.2024

M	ETEOROLOGICAL INTO	RMATION			
1	Average Temperature (°C)	27	2	Barometric Pressure (mmHg)	: 742
3	Relative Humidity (%)	±70	.4	Wusther Condition	: Rainy

Location	Unit	Test Protocol	Res	uit	(Industrial Zone)
Near Kathawapani Pit -			Time	Lug	
Gundari Heurcite Mine (584.79ka)	dB(A)	15.475@ 201T			90 dB (A)
Sample ID: ELES/RNC/2024/WN/6197			Day Time	68	



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Dr. Dieplester Circle Stens
Ph. D. Environmental Engy.
Technical Manager

Page 1 of 1

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PLOT NO-30, MANSARDWAR ENCLAVE, TURUDANA MATIA, RANCIO-231003 (MARKHARDI ELI NO-1384ELTYTEDIJA

ENGINEERING SERVICES PVT. LTD.

Erreit infa@elecul cz.in., eles rentis Byrnsf.com Phone no.; 6651-2290103 Weintle : www.elespl.co.or

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5370	Report Release Date	: 23.09.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135872400063283F		

CUSTOMER DET	AILS	SAMPLE DETAILS	
Customer Name Address	: Flindalco Industries Limited : Lohordaga, Jharkhand-\$35302	Sample Ref. No. Sampling Unite Sample Received Date Type of Sample Source of Sample Location of Sample	: ELES/RNC/2024/SW/6204 14.09.2024 16.09.2024 Surface Water Spring Water Jhapa Jhari, Gerdari Bouxin Mine (584.19ha)
Mines Status	Operational.	Sampling Procedure	: ELES/DOC/SMPL/01
Period of Amelysis	16.09.2021 to 27.09,2021	Sampling Done By Sample Condition	ELES Pet, Ltd. Sealed & Preserved

Discipline : Chemical		G	roup: Water	Talerance Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992 Class C (Island Serface Water)
pH (ut 24.8 %)	1,47	18 3025 (Piet-11) : 2022	6.86	8.5-8.2
Colour	Haren	(S 3025 (Part -4) : 2021	4.0	100
Odour	7	15 3025 (Par)-5) : 2018	Unobjectionable	20
Turtridity	NIU	15 3025 (Part-10): 2023	1.12	21
Total Dissolved Selids (TDS)	mg/L	15 3025 (Pwn-16); 2023	196	1500
Total Alkalinity (as CaCOs)	ing/L	18 3025 (Purt-23) : 2023	62.1	= 1
Total Hardness (as CaCO ₁)	mg/L	IN 3025 (Per-21): 2019	74.5	-
Sulplone (us SO ₄)	mg/L	IS 3025 (Part-24/Sec7), 2022	9,86	400
Chloride (as Cl)	mg/L	IS 3025 (Part-32): 2019	36.6	600
Flumide (as F)	mg/L	IS 3025 (Part-60): 2019	BDL (DL: 0.1)	13
Nitrate (as NO ₁)	mgil.	APIIA 24th Ed.2023, 4500 NO, 48	3.59	50

Page 1 of 4

The December stated on Tod Report, is issued by the Laboratory order Record Terror and Crecibions, only be Company being being the proposing former. The translations is the first former translation in the Laboratory or to the principles done by the Laboratory order. The Individual order is the first of interest to the control or and widou the facet of Court's assumption. The Laboratory is represented by an if the resource of the court of the interest order is the record of the court of the record or the individual or the individual or the individual order is the record of the court of the Laborator. The Record is full of the problem of the problem of the record of the court of the Laborator. Alterior is full or in part that is the published, absorbed to the laborator of the Laborator. Alterior is of the laborator of the Court of the Court



PLOT NO-30, MANSHROVAN ENCLYVE, PLIPLIDANA MATIA, RANCHI BINGGI (MARITHANDI 637 MD-28AAECES7136124

Erroll: Info@olespi.co.in , eles teachs@grand.com Phone no.: 8633-2250163 Metalte : www.efespl.co.in



TEST REPORT

: ELES/RNC/2024/5370 : 23.09.3024 Test Report No. Report Release Date Work Order No. + 13612312113 Work Order Date : 28.05.2024 : TC135872400003283F ULR No.

Discipline: Chemical	£.	Group : Wa	ter	Talerance Limits
Parameter	Unit	Test Protocol	Result	as per IS 2296-1992 Chos C (Intend Surface Woter)
Free Residual Chlorine (RFC)	mg/L	IS 3025 (Purt-26) / 2021	(DL: 0.1)	-
Phenrils Compounds (as C ₂ H ₂ OH)	mg/L	1S 3025 (Part-63/Sec1): 2022	BDL (DL: 0.001)	0.005
Calcium (as Ca)	mg/L	85 3025 (Pari-40): 2019	19.8	-
Discipline : Che	nical	Gre	oup : Residues	in Water
Aluminum (se Al)	mg/L	IS 3025 (Part-55): 2000;RA2019	BD1. (DL: 0.02)	
Aryonic (as As)	mg/L	IS 3025 (Part 37):2022	BDL (DL=0,005)	0.2
Boron (as B)	rag/L	15 3025 (Part-57): 3021	BD1. (D1.: 0.2)	17.1
Cademary (as Cit)	ng'i.	APHA 2 (* Hd 2023; 3111B	BDL (DL: 0.063)	0.01
Total Chromium (so Cr)	mg/L	APEIA 24° Ed 2023; 311 IB	BDL (DL: 0.03)	0.03
Copper (as Cu)	rig/L	APHA 24" Ed.2023; 3111B	BBL (DL: 0.03)	1.5
Iron (as Fe)	mg1.	APHA 24 th Ed.2023; 3111B	0.104	50
Lord (se Phi	reg/L	APBA 24 th Ed.2023; 31118	BDL: (BL: 0.01)	0.1
Manganese (av Mrt)	mg1.	APHA 24° Ed.2023; 31110	BDL (DL± 0.05)	148
Mercury (as Hg)	mg/L	15 3025(Part-48): 1994; RA2019	BDL, (DL: 0.001)	180
Selenium (se Se)	tog/L	(S)025(Part-56): 2019	(DL: 0.01)	0,05
Zine (us Zir)	mg/L	APHA 24 th Ed 2023; 3111B	BDL (DL: 0.1)	15

Page 2 of 4

The December metad as Torn Report, in moved by the Coloronary soulin General Terms and Countries, with an Company letter band on per-approved format. The results the new site (see traject) extension contributions; to the principles described in the Laboratory and the Teachers and the Teachers described in the Report extracts the Description described to the Laborates as the name of production only and within the limits of close is necessition. The Laborates is responsible for all the inflavourse or they growted on the aper, stage the information which is promited by the object. The Report amount he equivalental except in field and any part of the region is not believe out of context, making point agreement of the Laboratory. The Report to that or as part shall not be provided a shouther, send for any logal across satisfy point persons on his book second lives the Management of the Laborator, Augustica is desired in the Imparison of Sarbity, comparisons and jurisdiction towar. Any constructed attention & introduces on all the content or approximate of the Test Report in authoritis with the leaves to proceed to the fact about comes of the top. All the save plan are interest from linker from the Date of relative brees, of the Total Report. The managine from Regardency Scaffer are to be removed as also fined. After traps of Observations or Completed magnified the Seports shall be also within 15th parkers him Date of Lyn Report released broads. After the trace period stated before, we complete to all by accepted. Nor neite Tean related a mentional to Tain Separa is in 18 west from a Milestration word. W.S. (Nor Applicables 1818), (Refer, Commission Limit); 1311. (Lower Enter som Limits.



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TEST REPORT

Discipline: Che	micst	Group: Res	idnes in Water	Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992 Class C tlatted Surface Watery
Cyunide (as CN)	ing/L	APHA 24 th Ed.2025; 4500 CN-E	(DL: 0.012)	0.05
Polymiclear Aromatic Hydrocarbans (FAH)	pg/L	ELES/GC/50P/04: 2023	(DL: 0.95)	-
Pentirides	Ä.			
Alachier	µg/L	ELES/GC/S0P/61: 2023	BDL (DL: 0.5)	- 1
Attacine	µg/L	ELES/GC/50(901: 202)	BDL (DL: 0.5)	-
Butachlor	µg/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	-
Chiopyriphos	agit.	ELES/GC/SDP/01: 2023	(DL: 0.5)	14
Ethion	ag L	ELES-GC/50[N01: 2023	(DL: 0.5)	-
Malathion	pg/L	ELES/GC/S08/01: 3623	BDL (DL: 0.5)	-
Methyl purathion	ng/L	ELES/GC/SQP/01: 2023	RDL (DL: 0.1)	- 77
Monogrotophes	Mg/li-	ELES-GC/508/01: 2023	BD1. (DL: 0.5)	181
Plumbe	µg/L	ELES/GC/509/01: 2023	BD1, (DL: 0.5)	-
Phorate Sulphone	µg/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	2
Dieldrin	HR/E:	ELES/GC/SOP/02: 2023	BDL (DL: 0,01)	

Page 3 of 4

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5370	Report Release Date	: 23.09.2024
Work Order No.	13612312113	Work Order Date	: 28.63.2024
ULR No.	: TC135872400003283F		

Pestirides				Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 45 2296-1992 Class C dataset Surface Water
Alpha BCII	ugt	ELES/GC/SOP/02: 2423	BDL (DL: 0.006)	_
Bota HCH	μg4.	ELES/GC/90P/02: 2423	BDL (DL: 0.02)	7
Delta HCH	ug/L	ILES/GC/SOP/02: 2021	BDL (DL: 0.02)	
Garmea HCH (Lindans)	μg/L	ELES/GC/SOP/02: 2023	(DL: 0.02)	1
Endossiffar (alpha, bets and sulphate)	ugt.	ELES/GC/SOP/02-2023	BDL (DL: 0.65)	-
DOT(o,p and p.p-isomers of DOT) (DDE and DDD)	µg/L	ELES/GC/SOP/02-2023	BDL: (DL: 0.05)	-
Disciplina: Biok	giol	Gri	nip: Water	
Total Colliform	CFE/100 mL	35 15185: 2021	5.31×10 ²	-
Escherichia coli	CFU/100 rd.	18 1 5185: 2021	53.0	-

Remarks: pil & fUTC done at Lab.

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****End of Report****

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

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5370	Report Release Date	: 25.09.2024	
Work Order No.	: 13612312113	Work Order Date	78.03.2024	

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	Hindaloo Industries Limited : Lohardago, Packhard-835302	Sample Ref. No. Sampling Data Sample Received Data Type of Sample Source of Sample Location of Sample	: ELES/RNC/2024/SW/0204 : 14.09/2024 : 16.09/2024 : Surface Water : Spring Water : Jhape Jhan, Gordan Bacoite Mine (584-15ha)	
Mines Status	Operational	Sampling Procedure	ELES/DOC/SMPL/01	
Period of Analysis	: 16.09.2024 to 23.09.2024	Sampling Dose By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved	

Discipline: Chemic	al	Gre	up: Water	Tolerance Limits
Parameter	Unit	Test Protocol	Result	os par IS 2296-1992 Class C thiland Surface Water
Tients	-	APHA 24° Ed.2023, 2160C	397A	3.45
Anionic Surfactures (as MBAS)	ngt.	APBA 24 th Ed 2023, 5540-C	BDL (DL: 0.025)	1.0
Mineral Oil*	irg/L	ES 3025 (Part-39):2021 (Claus 6 Influto: Spectroscepii Morbel)	BDL (DL: 0.01)	- 2

Blemarks: L. (*) Panameters are outsearged to other Lab.

Reviewed by or

****End of Report****

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

Page Tof I

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5368	Report Release Date	123.09.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.63.2024	
ULR No.	: TC135872400003281F			

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Narie Address	: Hindalee Industries Limited : Loburdaga, Thurkbard-835300	Sample Ref. No Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2024/SW/6202 14.09.2024 16.09.2024 Surface Water Up Stream Dhardhari Nadi, Gunlari Bassite Mine (584.19ks)	
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	: 16.09.2024 to 23.09.2024	Sampling Done By Sample Condition	: ELES Pvt. Lnt. : Sealed & Preserved	

Discipline : Chemical		G	roup: Water	Tolorance Limits
Parameter	Unit	Test Protocul	Result	on per IS 2294-1992 Class C (Induced Surface Winter)
pH (at 24.8 °C)	-	18/3025 (Port-11) : 2022	6.83	6.54.5
Colour	Hazes	IS 3025 (Part -4) : 2021	58.0	300
Odour	14	35 3025 (Part-5): 2018	Unobjectionable	2
Turbidity	NTU	IS 3025 (Part-10): 2023	38.2	<u> </u>
Total Dissolved Solids (TDS)	mg/l.	15 3023 (Pwt-16): 2023	270	1500
Total Alkalinity (as CaCOs)	mpT.	18 3025 (Purt-23) : 2023	91.0	#
Total Hardness (as CaCO ₃)	mg/L	IS 3025 (Pan-21); 2019	109	
Sulphate (as SO ₆)	mg/L	IS 3025 (Pan-24-Sec I): 2022	15.8	400
Chleride (as Cl)	mg/L	IS 3025 (Part-32): 2019	47.8	600
Fluoride (us F)	trg/L	15 3025 (Part-60): 2019	0.226	1.5
Nitrata (as NO ₄)	mg/L	APHA 24th Sal 2023, 4500 NO ₁ -B	3.41	50

Page 1 of 4

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TEST REPORT

Test Report No.	1 ELES/RNC/2024/5368	Report Release Date	: 23.09.2024
Work Order No.	: 13612312113	Work Order Date	± 28.05.2624
ULR No.	1 TC135872400003281F	X.1	

Discipline: Chemical	i	Group: Wa	ther	Telerance Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992 Class C (Initial Surface Water)
Free Residual Chlorine (RFC)	mg/L	15-3625 (Part-26) : 2021	BDL, (DL: 0.1)	
Phenols Compounds (in C.H.OH)	mg/L	IS 1625 (Part-43/Sec1): 2022	BDL (DL: 0.001)	0.005
Calcium (as Ca)	mg/L	25/3025 (Part-40): 2019	29.0	-
Discipline : Cher	nical	Ge	oup : Residues	in Water
Aluminum (m Al)	mg/L	IS 3025 (Part-55): 2005;RA2019	BDL (DL: 8.02)	-
Arsenic (as As)	mg/L	15 3025 (Part 37):2022	BDL (DL: 0.005)	0.2
Boron (zs. B)	ing't.	IS 3025 (Part-57): 2021	RDI. (DL; 0.2)	-
Cadmium (as Cil)	mg/L	APHA 2/6 Ed.2023; 3111B	BDL: (DL: 0.003)	0.01
Total Chromium (as Cr)	mg/L	APHA 2/ th Ed.2023; 3111B	RDL (DL: 0.03)	0.05
Copper (av. Cu)	reg/L	APHA 24 th Ed.2023; 3111B	BDL (DL: 0.03)	1.5
fron (as Fe)	mg5.	APHA 2/F Ed.2023; 3(118)	0.338	50
Lend (as Ph)	mg%.	AP91A 24 th Ed.2023; 3111B	BDL (DL: 8.01)	(0.1)
Manganese (as Mn)	mgt	APHA 24 th Ed.2023; 3111B	BDL (DL: 0.05)	120
Mercury (as Hg)	mp%	IS 3025(Part-48): 1994; RA2019	BDL (DL: 0.001)	180
Selentum (in Se)	togs.	IN 3025(Part-56): 2019	BDL (DL: 0.01)	0.05
Zinc (as Zn)	mg%.	APHA 24 th Ed.2023; 3111B	BDL (DL: 0.1)	15

Page 2 of 4

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TEST REPORT

Discipline: Che	mical	Group: Res	idnes in Water	Televanor Limits
Parameter	Unit	Test Protocol	Result	as per 15 22%-1992 Class C (Inhard Sorting Water)
Cyanide (as CN)	ng/L	APHA 24 th Ed 2023, 4500 CN-E	(DL: 0.012)	0.05
Polymeteur Aramanie Hydrocarbons (PAH)	agi.	ELES/GC/SOP/04: 2023	BDL, (DL: 0.05)	(#2)
Pesticides				
Alachlor	pp/L	HLES/GC/SQP/01: 2023	BDL (DL: 0.5)	17/1
Atrazina	µg/L	ELES/GC/SOP/01: 2023	HDL: (DL: 0.5)	
Butuchlor	μg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	
Chlorpyriphes	pg/L	ELES/GC/SOP/01: 2021	RDL: (DL: 0.5)	17.0
Ethiou	Japi.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	
Malathion	pp/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	_
Methyl parathion	pg/L	ELES/GC/SOP/01: 2023	8DL (DL: 0.1)	100
Mosocrotophos	pg/L	ELES/GC/SOP/01: 2023	RDL (DL: 0.5)	
Piorate	ng/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	
Phonie Sulphone	pg/L	ELES/GC/SOP/91: 2023	BDL (DL: 0.5)	180
District	pg/L	ELES/GC/SOP/02: 2023	BD1. (DL: 0.01)	-

Page 3 of 4

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5368	Report Relesse Date	: 23.09.2024
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024
ULR Na.	: TC135872400003281F		

Pesticides				Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992 Class C (Inland Surface Water)
Alpha HCH	agrt.	ELES/GC/SOP/02: 2023	BDL (DL: 9.006)	-
Treto HCH	pg1.	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	157
Delta HCH	μg/L	ELES/GC/SOP/92: 2023	BDL (DL: 0.02)	240
Garama (4CH (Lindanc)	μη/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	14-1
Endosoffice (alpha, bets and salphate)	pg/L	ELES/GC/SOP/02: 2023	(DL: 0.05)	1 7 /
DDT(op and p.p-isomers of DDT) (DDE and DDD)	µg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.95)	-
Discipline: Blok	gical	Gn	up: Water	
Total Colfforn	CFU/100 mL	IS 15185: 2021	4.36×10 ²	(.0)
Eschenichte cult:	CPU/100 ml.	15 15185: 2021	22.0	

Remarks: git & RPC done at Lat-

Reviewed by

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****End of Report****

Dr. 000 SCHOOL Months Strike Ph. D. Environmental Engg.

Technical Manager

Page 4 of 4

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PLOT RO-30, MINISAROWIE ENCLAVE, TUPKDANA MITU, RANCH-634009 (MIRPOMANO) GIT NO: 39AAGESTISDES

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5368	Report Release Date	23.09.2024	
Work Order No.	: 13612312113	Work Order Date	T 28,63,2024	

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	Mindulco Industries Limited Lohardage, Murichard-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2024/SW/6202 14/09/2024 16/09/2024 Surface Water Up Stream 1 Disaethuri Nadi, Gurdari Hausite Mire (284/190a)	
Mines Suma	: Operational:	Sampling Procedure	ELES/DOC/SMPL/01	
Period of Analysis	: 10.09.2024 to 21.09.2024	Sampling Done By Sample Condition	ELES PVt. Ltd.	

Discipline: Chemical Geoup: Water				Talenace Limits
Parameter	Unit	Test Protocol	Result	as per 15 2295-1992 Class C (Intent Netface Water)
Tipito	100	APHA 24 th Ed.2023, 2160C	N/A	-
Anistric Sorfactarits (as MHAS)	mg/l.	APIGA 24 th Eti 2023, 5540-C	BDL (DL: 0.025)	1.0
Mineral Oil*	ing/L	15 3025 (Part-39): 2021 (Class & infraral figative ages Medied)	BDL (DL: 0.01)	=

Remarket 3, (*) Parameters are outcommed to other Lab.

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****End of Report****

Amhorised Signatury
Dr. Deopendra Kumar Sinha
Ph. D. Environmental Engg.
Technical Manager

Page 1 of 1

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5369	Report Release Date	: 23,09,2024
Work Order No.	: 13612312113	Work Order Date	: 28.05.2024
ULR No.	: TC1358724000032829		

CUSTOMER DETAILS		SAMPLE DETAILS		
Centemer Name	: Hindalco Industries Limited : Lohardaga, Burkhard-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Lucation of Sample	: ILLES/RNC/2024/SW/6202 : 14.09/2024 : 16.09/2024 : Surface Water : Down Stream Dismitheri Nadi, Gontari Barnite Mine (584/19b)	
Mines States	: Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	: 16.09.2024 to 23.09.2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved	

Discipline: Chemical		G	rnup: Water	Tolerance Limits	
Parameter	Unit Test Protocol		Result	as per 15 2296-1992 Class C (Infant) Surface Wide	
pH (at 24.8 °C)		15 3625 (Past-11) : 2022	6.62	6.5-8.5	
Colour	Hazen	15 3025 (Part -4) : 2021	46,8	300	
Odeiar	-	IS 3025 (Part-5): 2018	Unobjectionable	-	
Turbidity	NIU	15 3025 (Part-10): 2023	30.1	=	
Total Dissolved Solids (TDS)	ling/L	15 3025 (Part-16): 2023	320	1500	
Total Alkalinity (as CaCO _i)	mg/L	18 3025 (Pan-23) : 2023	102	443	
Total Hardress (m CaCO ₁)	mg/L	15 3025 (Part-21): 2019	135	-	
Sulphatte (as SO ₂)	mg/L	15 3025 (Part-24/Sectly: 2022	12.9	400	
Chloride (as Cl)	mg/L	IS 3025 (Part-32): 2019	60.3	600	
Pharride (as F)	mg/L	18 3025 (Part-60): 2019	0.258	1.3	
Nitrate (at NO ₂)	mg/L	APHA 24th Ed.2023, 4500 NOB	4.09	50	

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TEST REPORT

Test Report No. : ELES/RNC/2024/5369 Report Release Date 23.09.2024 Work Onler No. : 13612312113 Work Order Date 28.03.2024 ULR No. + TC135872400003282F

Discipline : Chumica	I	Group: Wa	iter	Tolorance Limits
Parameter	Unit	Test Protocut	Result	as per 15 2296-1992 Class C (histori Surface Water)
Free Residual Chlorine (RFC)	mg1.	15 3025 (Part-36) : 2021	8DL (DL: 0.1)	: = :
Pionois Compounds (as C ₄ H ₂ OH)	ngl	IS 3825 (Pari-43/Sec1): 2022	(DL: 0.901)	0.005
Calcium (as Ca)	ngt.	15-3025 (Part-40): 2019	36.0	186
Disciplier: Ches	mical	Gn	up Residues	in Water
Alieniaum (as Al)	mg/L	IS 3025 (Part-55): 2003:RA2019	(DL: 0.02)	-
Arsenie (as As)	mg/1,	IS 3025 (Part 27):3022	BDL (DL: 0.005)	0.2
Borce (as B)	mg/L	15 3025 (Part-57): 2021	(DL: 0.2)	
Cadmium (as Cd)	mg/L	APHA 21 th Ed.2023; 3111B	BDL (DL: 0.003)	10.0
Total Chromium (as Cr)	mg/L	APRA 24° Ed.2023; 31119	(DL: 0.03)	0.05
Copper (m Cu)	mg/L	APHA 24 th Ed.2023; 31111B	BDL, (DL; 0.03)	3.80
iton (m Fz)	mg/L	APHA 24" Ed.2023; 31138	0.333	50
Levil (is Ph)	mgt.	APHA 24" Ed.2023; 31118	RDL: (DL:: 0,07)	0.1
Manganese (as Mai)	mg/L	APHA 24" Ed.2023; 3111B	BDL: (DL: 0.05)	
Mercury (as Hg)	.ng/L	8\$ 3025(Part-48): 1994; RA2019	BDL (DL: 0.001)	*
Selenium (as Se)	ng1.	15 2025(Part-56) 2019	BDL (DL: 0.01)	0.05
Zinc (as Zn)	ngL	APHA 24 th Ed 2023; 3111B	BDL (DL: 0.1)	15

Page 2 of 4

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TEST REPORT

Test Report No.	± ELES/RNC/2024/5369	Report Release Date	: 23.09.2024
Work Order No.	: 13612312113	Work Order Date	28.03.2024
ULR No.	: TC135N724000032R2F		

Discipline : Che	mical	Group: Res	édues in Water	Tolorance Limits
Parameter	Unit	Test Protocol	Result	as per IS 2296-1992 Class C (Island Sortice Wyter)
Cyanide (as CN)	mg/L	APHA 24 ⁸ Ed.2025, 4500 CN-E	(DL: 0.012)	0.05
Polymaclear Aromatic Hydrocarbons (PAH)	ppt.	ELES/GC/SOP/04: 2023	BDL (DL: 0.05)	-
Pesticides				
Alachior	ppt.	ELES/GC/SOP/01: 2023	RDL: (DL: 0.5)	(5)
Amadon	Tgq.	ELES/OC/SOP/01: 2025	BDL (DL: 0.5)	= 1
Battachlor	Jan	ELES/GC/SOP/01: 2023	RDL (DL: 0.5)	-
Chlorpyripties	J'un	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	-
Ethicu	ag/L	ELES/GC/SOP/01: 2923	BDL (DL: 0.5)	-
Malathion	μg/L	ELES/GC/SOP/01: 2023	RBL (DL: 0.5)	14/
Mothyl parathies	ugt.	ELES/GC/SOP/01-2021	8DL (Dt.: 0.1)	1 = 1
Mesocratophes	µg/L	EEES/GC/SOP/0): 2021	BDL (DL: 9.5)	(+)
Phorate	µg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	
Phorase Sulphone	pg%.	ELES/GC/SOP/01: 2023	BDL. (DL:: 0.5)	
Dieldrin	jag/L	ELES/GC/SOP/02: 2023	(DL: 0.01)	-

Page 3 of 4

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5369	Report Release Date	1 23.09.2024
Work Order No.	1 13612312113	Work Order Date	1 29.03,2024
ULR No.	: TC135872400003282F		

Pesticides				Tolerance Limits
Parameter	Unit	Test Protocol	Result	us per IS 2296-1992 Class C christal Surface Water
Alpha HCH	ng/L	ELES/GC/SOP/02: 2023	RDL (DL: 0.006)	-
Beta HCH	ир/Т.	ELES/OC/SOP/02: 2023	(DL: 0.02)	100
Delta HCH	ug/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	(47
Gamesa HCH (Lindsur)	ug/L	ELES/GC/SOP/02: 2023	BDL. (DL±0.02)	-
Endoredfan (alpha, beta and sulphate)	ug/L	ELES/GC/SOP/02: 2023	BBL, (DL: 0.05)	3.00
DDT (n.p. and p.p-isomers of DDT) (DDE, and DDO)	yg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	(+)
Discipline: Biolo	gical	Gre	oup: Water	
Total Coliform	CPU/100 ml.	15 15185 2021	1.95×10 ⁷	
Escherichto coli	CPU/100 nL	IN 15185: 2021	BDL (DL: 1.0)	1.6

Remorks: pH & RFC done at Lab.

Reviewed by

****End of Report****

Authorized Signatory Dr. Deependra Kumar Sinha Ph. D. Environmental Engg. Technical Managar

Page 4 of 4

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TEST REPORT

Test Report No.	ELES/RNC/2024/5509	Report Release Date	23.09.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.65.2624	

CUSTOMER DET.	All.S	SAMPLE DETAILS		
Customer Name	: Hindalco Industries Limited : Lohordaga, Burkhard-K35302	Sample Ref. No. Sampling Data Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2024/SW/8203 14.09-2024 16.09-2024 Surface Water Down Stream Dhardheri Nodi, Gurdan Baucite Mine (584,19tw)	
Mines Status	: Operational	Surpling Procedure	: IILES/DOC/SMPL/01	
Period of Analysis	1 16:09:2024 to 21:09:2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed-& Preserved	

Discipline : Chemical Group : Water			Televance Limits	
Parameter	Unit	Test Protocul	Result	as per 15 2296-1992 Class C (Jained Surface Water)
Tante	- 1	APHA 24th Ed.2023, 2160C	N/A	
Anionic Surfactants (as MBAS)	zigit.	APHA 34" Ed.2023, 5530-C	BDL (DL: 0.025)	(60%)
Mineral Oil*	mg/L	35 3021 (Part-39)/2021 (Claus 6 Infrared Spectroscopic Medical)	BDL (DL: 0.01)	4

Remarks: L. (*) Parameters for oursewood to other Lab.,

Reviewed by

**** Ead of Report****

Awborned Signatory
Dr. Deependra Kumar Sinha
Ph. D. Environmental Enga-Technical Manager

Page 1 of 1

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5366	Report Release Date	: 23.09.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.83.2024	
ULR No.	: TC135872400003279F	- Animarunanan		

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindaloo Industries Limited : Lebantaga, Jharkhand-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2024/SW/6200 13/09/2024 16/09/2024 Surface Water Up Stream Keyal River, Gurdari Bauxite Mine (384/19hg)	
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	: 16.69.2024 to 23.09.2024	Sampling Done By Sample Condition	ELES Pvt. Ltd. Sealed & Preserved	

Discipline: Chemical		6	coup : Water	Toberance Limits
Parameter	Unit	Test Protocol	Result	as per IS 2296-1992 Class C (Intam) Surface Water
pH (at 24.8 °C)	0.0	15 3025 (Part-11) : 2022	6.74	6,5-8.3
Colour	Hazen	18 3025 (Part -4) : 2021	32.6	300
Odear	- 6	IS 3025 (Part-5) : 2018	Unobjectionable	
Turbidity	NEU	1S 3025 (Part-10): 2023	22.0	-
Total Dissolved Solids (TDS)	mg/l.	18 3025 (Part-16): 2023	318	1500
Total Alkalinity (as CaCO ₂)	mg/L	(5 3025 (Pert-23) : 2023	99,9	-
Total Hardson (as CaCO ₁)	mg/L	IS 3025 (Part-21): 2019	135	-
Sulphote (49 SOL)	mg/L	18 3025 (Port-24/Sect.): 2022	14.5	400
Chloride (as Cl)	mg/L	1S 3028 (Ptet-32): 2019	58.3	600
Fluoride (m.F)	mg/L	15 3025 (Part-69): 2019	0.196	1,5
Nitrate (as NO _c)	mg/L	APSA 24th Ed.2023, 4500 NO:-B	4.38	50

Page 1 of 4

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TEST REPORT

Test Report No. : ELES/RNC/2024/5366 Report Release Date : 23.09.2024

Work Order No. : 13612312113 Work Order Date : 28.03.2024

ULR No. : TC135872400003279F

Discipline: Chemical		Group : Wa	ter	Tolerance Limits
Parameter	Unit	Test Protecti	Result	as per IS 2296-1992 Class C (Indust Surface Water
Free Kesidual Chlorine (KFC).	mg/L	15 3025 (Part-26): 2021	(DL: 0.1)	
Phonols Compounds (m.C.J.LOH)	mg/L	IS 3025 (Part-43/Sect.): 2022	(DL: 0.001)	0.005
Calcium (as Ca)	mg/L	15 3625 (Pan-40): 2019	33.9	-
Discipline : Cher	nicul.	Gn	oup : Residues	ie Water
Aluminum (sa Al)	mg/L	IS 3025 (Part-55): 2001;RA2019	8D4. (DL: 0.02)	-
Arsenic (as As)	mg/L	25 3025 (Part 37):2022	BDL (DL: 0,005)	0.2
Boron (as B)	mg/L	15 3025 (Part-57): 3021	BDL (DL: 0.2)	15
Cadmines (ps Cd):	mg/L	APRA 24º Ed 2023; 3111B	BD1. (DL: 0.063)	10:0
Total Chromium (as Cr)	mg/L	APRA 24" E4.2021; 31118	BDL (DL: 0.03)	0.05
Copper (to Cu)	mg/L	APRA 24 ⁸ Ed 2023; 3111B	BD1. (DL: 0.03)	1.5
Iron (as Fe)	mg/L	APHA 24 th Tel 2023; 3111B	0.178	50
Lend (as Ph)	Hgft,	APHA 24 th Ed:2023; 3131B	BD1. (DL: 0.01)	0,1
Manganese (as Mrd)	mgt	APHA 24 st Ed 2023; 3111B	BDL (DL: 0.95)	TAI
Mercury (as Hg)	mirL	19 3025(Part-48): 1994; RA2019	BDL (DL: 0.001)	(57.5
Selenium (as 5e)	mg/L	15 3025(Pan-56): 3019	BDL (DL: 0,01)	6,05
Zinc (in Zn)	mg/L	APHA 24 th Ed 2023; 3111B	BDL (DL: 0.1)	B.

Page 2 of 4

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TEST REPORT

Test Report No. : ELES/RNC/2024/5366 Report Release Date : 23:89:2024

Work Order No. : 13612312113 Work Order Date : 28:93:2024

ULR No. : TC135872480003279F

Discipline: Che	mical	Group: Res	idues in Water	Tiderance Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992. Class C closed Surface Water
Cyanide (as CN)	ng/L	APHA 24th Ed.2023, 4500 CN-E	(DL: 0.012)	0.05
Polymacion Aromatic Hydrocarbons (PAH)	agt.	ELES/GC/SOP/04: 2023	BDL (DL: 0.05)	170
Pesticides				
Alachior	ug/L	ELES/GC/SOP/01/2023	BDL (DL: 0.5)	7
Atrogine	ugl.	ELES/GC/SOP/01-2023	BDL (DL: 0.5)	180
Botachdor	ugt.	ELES-GC/SOP/01: 2023	BDL (DL: 0.5)	-
Chloopyriphes	ug/L	ELES/GC/SOP/91/2023	RDL: (DL: 0.5)	-
Ethion	pg/L	ELES/GC/SOP/01/2023	BDL (DL: 0.5)	383
Malathion	pgt.	ELES/GC/SOP/01/2023	BDL (DL: 0.5)	140
Methyl parathien	µg/L	ELES/GC/SOP/WI 2023	8DL (DL: 0.1)	-
Monoconophes	93/1.	ELES/GC/SOP(01-2023	RDL (DL: 0.5)	.(5)
Phorate	jig/L	ELES/GC/SOP/01-2023	BDL (DL: 0.5)	(40)
Phorate Sulphone	µg/L	ELES/GC/SOP/91: 2023	BDL (DL: 0.5)	-
Dieldein	1gq	ELES/GC/SOR/02: 2023	BDL (DL: 0.61)	250

Page 1 of 4

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TEST REPORT

Test Report No.	ELES/RNC/2024/5366	Report Release Date	: 23.09.2024
Work Order No.	13612312113	Work Order Date	+ 28.03.2624
ULR No.	: TC135872400003279F		

Pesticides				Tolorance Limits
Parameter	Unit	Test Protocol	Result	as per 15 2296-1992 Class C Obstant Surface Water
Alpha HCH	μμ1.	ELES/GC/50P/02; 2023	HDL: (DL: 0.006)	-
Beta HCH	pgt.	ELES/GC/S0P/02: 2023	BDL (DL: 0.02)	(70)
Delta HCH	pg/L:	ELES/GC/SOP/02, 2023	BD1. (DL: 0.02)	-
Gamma HCH (Lindase)	April.	ELES/GC/S0(/02: 2023	BDL (DL: 0.02)	(40)
Endosuffer (alpho, beta and sulphate)	ag%.	ELES/GC/S0P/02: 2023	BDL (DL(0.05)	-
DDT(n.p.ind p.p-summer of DDT) (DDE and DDD)	ilgi:	ELES/GC/SOP/02: 2023	BD1. (DL: 0.05)	-
Discipline: Histogical		Group: Water		
Total Collyone	CFU/100 mL	18 15185: 2021	5,95×10 ²	
Escherichia vell	CFL/100 mL	15:15:185: 2021	BDL (DL: 1,0)	-

Bemarke: pH & BEC done of Lat.

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****End of Report****

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

Tachnical Manager

Page 4 of 4

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5366	Report Release Date	: 23.09.2024	
Work Order No.	13612312113	Work Order Date	: 28.03.2024	

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name	: Hindalco Industries Limited : Luberdags, Tharkband-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2024/SW/6200 (1S.09.2024 (16.09.2024 (Surface Water (Up Stream (Koyal River, Gordart Banoite Mine (SIA 190a)	
Mines Status	Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	16,09,202# to 23.09,202#	Sampling Done By Sample Condition	ELES Pvt. Ltd. Scaled & Preserved	

Discipline: Chemic	op: Water	Televanore Limits		
Parameter	Unit	Test Protocol	Result	as per 15 3296-1992 Class C (Inland Serface Water)
Тимс	. 80	APHA 24" Ed.2023, 2160C	N/A:	
Anionic Surfictants (as MBAS)	mg/L	APHA 24" Ed.2003; \$540-C	HDL: (DL: 0,025)	1.0
Misend Oil*	myL	IS 3025 (Part-39),2021 (Clause & Internal Spectrosopic Method)	BDt. (Dt.: 0.01)	-

Remarks: L (*) Paramours are outsourced to other Lab.

Ama Yara J

****End of Report****

Amborieri Signatory Dr. Despendra Komar Sinha Ph. D. Environmental Engg. Technical Manager

Page 1 of 1

The December should be Test Report, in remaining the Laboratory under Gravined Terms and Continuous, only on Company better formed to prepayment demant. The country should be from the first Report of the relation to the test of the color of the first Advantury color. The information continuous colors and the first of channels in the father and the information of this information on this provided with the copies, except the information which is provided by the about The Report agreement to the father and copies to the first of the information of the copies of the report of the Laboratory. The Appear is paid on the paid and its paid and the paid and any part of the report in the testing and of copies in the father agreement of the Laboratory. The Appear is paid on a part and the paid and appearance of the Laboratory. Accessor is the feathers of limited, or reproduce, and the report agreement agreement of the Laboratory. Accessor is the feathers only information and production of the laboratory and described and effective may be procured as the feather country of the Lore After the complex are informed for Rhaye from the Date of relaxations or the feather and the feather and appearance of the Test Report is admitted and effective or the relaxation is specified. Acceptance in the complex are information to Computer to the Appearance of the Rhaye from the Date of the Report is described as the paid to the Rhaye from the Date of the Rhaye for the Rhaye for the relaxation of the Rhaye for the Appearance of the Rhaye for the paid to the Rhaye for the Rhaye for the Rhaye for the Rhaye for the paid to the Rhaye for the Rha



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TEST REPORT

Test Report No.	: ELES/RNC/2024/5367	Report Release Date	: 23.09.2024
Work Order No.	13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC1358724000032804		- 1110001111

CUSTOMER DETAILS		SAMPLE DETAILS		
Customer Name Address	: Hindalus Industries 3. inshed : Lohardaga, Jharkhard-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: ELES/RNC/2024/SW/6201 : 15.09/2024 : 16.09/2024 : Surface Water : Down Steam : Koyal River, Gurdari Bauxile Mine (584/1966)	
Mines Status	; Operational	Sampling Procedure	ELES/DOC/SMPL/01	
Period of Analysis	: 16.09.2024 to 23.09.2024	Sample Condition	: ELES Pvt. Ltd. : Newled & Preserved	

Discipline : Chemical		G	rump: Water	Tolerance Limits
Parameter	tide	Test Protocol	Result	an per 15 2296-1192 Chox C Heland Sorface Wester
pFl (at 24.8°C)		15 3025 (Eut-11) 2022	6,90	6.5-8.5
Colour	Hazen	15 3025 (Pan -4) : 2021	40.0	300
Oslow	0.5	15/3025 (Part-5) / 2018	Unshjectionable	-
Turbidity	NTU	15 3025 (Part-10): 2023	28.0	22
Total Dissolved Solids (TDS)	mg/L	15 3625 (Part-16): 2023	296	1500
Total Alkalinity (as CaCO ₃)	mg/L	IS-3025 (Part-23) : 2023	88.2	***
Total Hardness (m CaCO ₅)	mp/L	18 3025 (Part-21): 2019	141	
Sulphana (as SO _c)	mg/L	15 3025 (Part-24/Sec1): 2022	16.3	-100
Chloride (ss Cl)	mg/L	15 3025 (Part-32): 2019	44.0	600
Fineride (to F)	mg/L	15 3025 (Part-60): 2019	0.264	1.5
Sittate (as SO ₃)	mg/L	APHA 24th Ed 2023, 4500 NO ₂ -B	3.95	58

Page 1 of 4

The Uncoment stated in Test Report, is moved by the Laboratory tolder Special Turns and Conditions, only or Correctly below the propagation of the most in the Condition of the



PLDT NO-86, MANSAROVAN ENCLANE, TUPUDANA MATIA, AANDIG-ERRORE (MANEHAND) 037 NO-30045097130124

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TEST REPORT

Test Report No. : ELES/RNC/2024/5367 Report Referse Date : 23.09/2024

Work Order No. : 13612312113 Work Order Date : 28.05/2024

ULR No. : TC155872400003280F

Discipline: Chemica	i	Group: Wa	ter	Tolerance Limits
Parameter	Unit	Test Protocol	Haselt	as per 18 2286-1892 Class C (Inland Surface Water)
Free Residual Chlorine (RFC)	mg/L	15 3025 (Purt-26) : 2021	(DL: 9.1)	-
Phenols Compounds (in C ₄ H ₂ OH)	Tym	85 3025 (Part-43/Sect.): 2022	BDL (DL: 0.001)	0.005
Calcium (as Ca)	mg1.	15-3025 (Part-40): 2019	37.6	(2)
Discipline : Cher	mical	Gr	oup : Residues	in Water
Alaminum (as Al)	mg1.	18:3025 (Part-55): 2003;RA2010	BDL (DL: 0.02)	-
Amenic (as As)	mg/L	2S 3025 (Part 37):2022	BDL (DL; 0.005)	0.2
flores (as 8)	mg/L	15 3(05 (Part-57): 2(01	BDL (DL: 0.2)	100
Cadmium (as Cd)	mg/L	APHA 24° E6.2023; 3111B	BDL (DL: 0.063)	0.01
Total Chromium (as Cr)	mg/L	APHA 21° Ed.2023; 311 IB	BD1. (DL: 0.03)	0.05
Copper (in: Clu)	mg/L	APHA 24° E#2003; 311.1B	BD1. (DL: 0.03)	1.5
iron (so Fe)	mg/L	APHA 24 th Eut.2023; 311.1B	0.248	50
Lead (as Pb)	mg/L	APHA:24* Ed:2023; 311 118	BDL (DL: 0.91)	0.1
Miniganese (as Mit)	mg/L	APHA 24 ^h Ed 2023; 3111B	BDL (DL: 0.05)	-
Mercury (as Hg)	mg/L	IS 3025(Pan-48): 1994; RA2019	BDL (DL: 0.001)	180
Scienium (so Se)	mg/L	15.3025(Part-56); 2019	BDL (DL: 0.01)	0.05
Zinc (as Zu)	mg/L	APHA 24 ^h Ed.2023; 3313B	BDL (DL: 0.1)	15

Page 2 of 4

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ULR No.

ENVIRONMENTAL LABORATORIES &

PLOT NO-SE, MANGAMOVAN ENCLAVE, TUPUDAMI MATIA, MANCH-ESHDES (PLANTHAND) GST NO-SMALCEPTSSCIA

: TC135872400003280F

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TEST REPORT

 Test Report No.
 : ELES/RNC/2024/536*
 Report Rolesse Date
 : 23.09.2024

 Work Order No.
 : 13612312113
 Work Order Date
 : 28.03.2024

Discipline: Che	mical	Group : Res	idues in Water	Tologner Limits
Parameter	Unit	Test Protocol	Result	as per IS 2206-1992 Class C United Serface Water
Cyanide (sa CN)	mg/L	APHA 24 th Ed 2023, 4500 CN-E	BD(: (DL: 0.012)	0.05
Polymaciear Aromatic Hydrocarbora (PAH)	pg/L	ELES/GC/SOP/04: 2023	BDI. (DL: 0.05)	171
Pesticides				
Alachlor	μg/L.	ELES/GC/SOR/01: 2023	BDL (DL: 0.5)	-
Arracion	ppT.	ELES/GC/SOP/01: 2023	(DL:: 0.5)	-
Butachlor	μp ¹ L	ELES/GC/SOR/01: 2023	BDL (DL: 0.5)	=
Chlorpyriphos	μ <u>ρ</u> Ί.	ELES/OC/SOP/01: 2023	BDL (DL: 0.5)	-
Ethion	pg/L	ELES/GC/SOP/01: 2023	(DL: 0.5)	-
Malathica	րբ՝(.	ELES/OC/600/01: 2023	(DL: 0.5)	-
Methyl parathios	μμ/2.	ELES/GC/\$00/01: 2023	BDL (DL: 0.1)	17
Monogrouphon	pg/L:	ELES/GC/800/01: 2023	BDL (DL: 0.5)	- 19
Pierrote	pp/t.	ELES/GC/S0#/01: 2023	BDL (DL: 0.5)	-
Prorete Sulphone	μg/L,	ELES/GC/S0P/01: 2023	RDL (DL: 0.5)	17
Dieldrin	μμΊ,	ELES/GC/800/02: 2027	BDL (DL: 0.01)	

Page 3 of 4

The December time is a last Papers, without by the Laboratory and a Gerred Town and Conditions, only or Company time food to procupe and former. The contributions of the Supers relation is a last Supers relation to the Supers relation to the Supers relationship time by the Laboratory or the Supers relationship to the



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TEST REPORT

Test Report No.	: ELES/RNC/2024/5367	Report Release Date	: 23.09.2024
Work Order No.	: 13612312113	Work Order Date	+ 28.60.2024
ULR No.	: TC135872400003280F		

Pesticides				Tolorance Limits
Parameter	Unit	Test Protocol	Result	as per IS 2296-1992 Class C challed Surface Water)
Alpha HCH	yg/L	ELES/GC/SOP/02: 2023	BD1. (DL: 0.006)	
Beta HCH	μg/L	ELES/GC/SOP42: 2023	BDL (DL: 0.02)	-
Delta HCH	ng/L	ELES/GC/SOP(02-2023	ROL (DL: 0.02)	in
Gamma HCH (Lindane)	μg/L	BLES/GC/SOP/(2: 2023	BDL (DL: 0.02)	-
Endossifan (alpha, bets and sulphate)	µg/L	ELES/GO/SOP/02: 2023	RDL (DL: 0.05)	7.0
DDT(rup and p.p-isomers of DDT) (DDE and DDD)	pg/L	ELESTICISOPRO2: 2023	BDL: (DL: 0.05)	-
Discipline: Biolo	ogical	Gre	oup: Water	
Total Colform	CFU/100 mL	15 15185; 2021	3.09×10 ²	-
Escherichus coll	CFD/100 mL	15 15145; 2021	BD1. (DL: 1.0)	-

Bemarks: pH & RFC done at Lab.

letions by a letter

****End of Report****

Anthorised Signatury
Dr. Deepondra Kumar Sinha
Ph. D. Environmental Engg.
Tachnical Manager

Page ∓ of 4

The December would so Test Report, is recised to the Lateratory under General Terms and Conditions, order on Company into behavior in propagation for our disposed parties of the parties



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TEST REPORT

Test Report No.	ELES/RNC/2024/5367	Report Release Date	: 23,09.2624	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2624	

CUSTOMER DET	AfLS	SAMPLE DETAILS		
Customer Name Address	Hindako Industries Limited Lohardaga, Pharkhand-8353(Q	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: ELES/RNC/2024/SW/6201 :15:09/2024 :16:09/2024 : Surface Water : Down Stream (Koyal River, Gundari Baccite Mine (584,19ba)	
Mines Status	- Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	16.09.2024 to 25.69.2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Scaled & Preserved	

Discipline : Chemical Gro			: Chemical Group : Water	
Parameter	Unit	Test Protocol	Result	on per IS 2294-1992 Class C (Intend Serlies West)
Taste		APNA 24* Ed.2023, 2166C	N/A	-
Animic Stefoctures (at MBAS)	mg/L	APHA 2/ th E4/2023, 5540-C	BDL (DL: 9.025)	1:0
Mineral (Ni)*	mg/L	IS 3025 (Part-39) 2021 Clane 6 Information to proper Method)	BDC. (DL: 0.01)	-

Remarks: L. (*) Paramatura are consecred to other Lan.

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Reviewed by

****End of Report****

Dr. Despendra Kumar Sinha

Ph. D. Environmental Eegg. Technical Manager

Page 1 of 1

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5364	Report Release Date	123.09.2024	
Work Order No.	: 13612312113	Work Order Date	: 28.03.2024	
ULR No.	: TC135872400003277F			

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name Address	: Hirolatas Industries Unisted : Lobardaga, Tourkhand-835302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	: ELESTRNC/2024/SW/6198 : 14.09/2024 : 16.09/2024 : Surface Water : Up Stream : Sankh Nadi, Gordari Bancke Mine (584/1984)	
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	: 16.09.2024 to 23.09,2024	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Sealed & Preserved	

Discipline: Chemical		G	ruup : Weter	Tolerance Limits	
Parameter	Unit	Test Protocol	Result	as per IS 1295-1992 Class C (billion Sorber Wester	
pH (ar 24.8 °C)		18-3025 (Part-11): 2022	6.68	6.5-8.5	
Colour	History	15 3025 (Part -4): 2021	28	300	
Odour	1.5	15 3025 (Part-5) : 2018	Uauhjectionable	-	
Turbidity	NTU	IS 3025 (Pwn-10): 2023	18.6		
Total Disseived Solids (TDS)	mg/L	15 3025 (Pwt-16): 2023	349	1500	
Total Alkalinity (sa CaCOs)	mgT	IS 3025 (Pars-23): 2023	118	+:	
Total Hardness (as CaCO ₃)	mg/L	IS 3025 (Pwt-21): 2019	128	-	
Sulphate (as SO ₄)	mgT.	18 3025 (Pen-24/Sec1); 2022	20.8	400	
Chloride (as CI)	mg/L	15 3025 (Part-32): 2019	28.2	600	
Fluoride (ns F)	mg/L	85 3825 (Pwn-66): 2019	0.165	15	
Nitrate (as NO ₃)	mg/L	APHA 24th Ed.2023, 4500 NO ₃ -88	2.90	50	

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The December stated as Ton Supers, in annual by the Laboratory under General Temps and Conditions, only on Company September in pre-approach former. The conditional in this Period is not to the period of the Laboratory in the period of the period of the Laboratory in the period of the period of the Laboratory in the period of the period of the Laboratory in the period of the period o



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TEST REPORT

Discipline : Chemica	4	Group: Wa	ter	Telerance Limits
Parameter	Unit	Test Protocol	Result	as per IS 22%-1092 Class C (Inited Surface Water)
Free Residual Chlorine (RFC)	ng1.	15 3025 (Part-26) ± 2021	(DL; 9.1)	-
Phenols Compounds (us C.33,OH)	mg/L	IS 3025 (Part-43/Sec1): 2022	BDL (DL: 0,001)	0.005
Calcium (as Ca)	mg/L	85 3625 (Part-40): 2019	23.2	(F)
Discipline : Che	micul	Gri	oup: Residues	in Water
Alterinies (as Al)	ing/L	15 J025 (Part-55): 2005;RA2019	BDL, (DL: 0.02)	-
Amenic (as As)	mp%.	15 2025 (Part 27):2022	BDL (DL: 0.405)	0.2
Boros (m B)	mg/L	15 3025 (Part-57): 2021	BDL (DL: 0.2)	(+)
Cadmium (as Cil)	Ing/L	APHA 2/19 Ed. 2023; 3111B	BDL (DL: 6.003)	0.01
Total Chromion (as Cr)	mg/L	APHA 24° Ed.2023; 3111B	BBL (DL: 0.03)	0.05
Copper(isi Cii)	mg'L	APHA 24" Ed.2023; 3111B	BDL (DL: 0.03)	1.5
Iron (as Fe)	mg/L	APHA:24° Ed.2023; 311 (B	0.127	50
Leid (as Pb)	mg/L	APHA 24º Ed.2023; 5111B	BDL (DL: 0.01)	0.1
Manganese (as Mit)	ing'l.	APHA 24° Ed.2023; 3111B	BDL (DL± 0.05)	-
Mercury (m Hg)	rugi,	TS 3025(Part-48): 1994; RA2019	BDL (DL: 6.001)	590
Selenium (ns.5e)	mg'L	IS 3025(Part-56): 2019	80t. (DL: 6.61)	0.05
Zinc (as Zn)	mg'l.	APHA 24 th Ed.2023; 5111B	BDL (DL: 9.1)	15

Page 2 of 4

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5364	Report Release Date	: 23.09.2024
Work Order No.	: 13672312113	Work Order Date	+ 28.65.2024
ULR No.	: TC135872400003277F		

Discipline: Che	mical	Group : Res	idues in Water	Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per IS 2294-1992 Class C (Inland Surface Water)
Cyanide (as CN)	mgL	APHA 24" E6.2023, 4500 CN-E	BD(. (DL: 0.012)	0.05
Polymacker Arometic Hydrocarbora (PAH)	ppt.	ELES/GC/SOP/04: 2023	BDL (DL: 0.05)	La I
Pesticides			dilina.	
Alachior	μg't.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	177
Atravine	pg/L	ELES/OC/SOP/01: 2023	BDL (DL: 0.5)	196
Banchler	μμΊ.	ELES/OC/SOP/01: 2023	BDL (DL: 0.5)	14
Chlorpyriphos	ng/t.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	15%
Ethiov	ppt.	ELES/OC/S00/01:2023	BDL (DL: 0.5)	
Malathics	μpT.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	_ =
Methyl parathios	ppl.	TLES/GC/SOP/01: 2023	BDL, (DL: 0.1)	
Monocrotophes	pg/L	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	-
Phonos	ppt.	ELES/QC/80P/01: 2623	BDL (DL: 0.5)	-
Phonoe Sulphone	.Fqq	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	i.e
Dieldrin	pp%.	ELES/GC/SOP/02: 2021	BDL (DL: 8.01)	-

Page 3 of 4

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5364	Report Release Date	: 23.09.2024
Work Order No.	13612312113	Work Order Date	: 28.03.2024
ULR No.	: TC135872400003277F		

Pesticides				Talerance Limits
Pursemeter	Unit	Test Protocul	Result	as per IN 2296-1992 Class C claimed Surface Winters
Alpha HCLL	µg/L	ELES/GC/S0P/02: 2023	BDL (DL: 0.006)	-
Beta HCH	ag/L	ELES/GC/SOP/02: 2023	BD1. (DL: 0.02)	5.750
Delta HCH	ad/l/	ELES/GC/S0#/02: 2023	BDL (DL: 0,02)	-
Gamma HCH (Lindase)	pg-L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	
Endowlfan (alpha, ben and sulphate)	ppt.	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	-
DOT(o,p and p.p-isomers of DOT) (DOE and DDO)	pg L	ELES/GC/SOP/02: 2023	BDL (DL: 9.05)	+2
Discipline: Biob	rgical	Gri	mp: Water	
Total Colliforn	CFU/100 rd.	TS 15185: 2071	1,99×10	550
Ercherichia voli	CFU/100 mL	15 15185: 2021	4.27×16 ²	

Remarks: gtl & RFC fone at Lati. ven & Ev

Reviewed by

****End of Report****

Dr. Deependra Kumar Saha

Ph. D. Environmental Engg.

Technical Manager

Page 4 of 4

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PEOT NO 30, MANSARONAN ENCLAVE, TUPUDANA HATIA, RANDH-ESARO (INVANIANO) EST NO. 20ANG/ROTESTES

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5364	Report Release Date	23.09.2024	
Work Order No.	: 13612312113	Work Order Date	128.03.2024	

CUSTOMER DET	AILS	SAMPLE DETAILS		
Costomer Name Address	: Hindalco Industries Limited : Lehardago, Hurkhand 435302	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	ELES/RNC/2024/SW/6198 14.09/2024 16.09/2024 Surface Wastr Up Stream Sackh Nutl, Gurdari Basolio Mine (584,19ha)	
Mines Status	Operational	Sengling Procedure	TELES/DOC/SMPL/01	
Period of Analysis	16:09:2024 to 23:09:2024	Sampling Done By Sample Condition	: ELES Pvt, Ltd. : Sealed & Preserved	

Discipline: Chemical Gro		iscipline: Chemical Group: Water		Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per IS 2296-1992 Class C Heland Surber Water
Taste	100	APHA 24" Ed.2023, 2160C	N/A	
Anionic Surfactures (so MBAS)	mg/L	APHA 24 th Ed.2023, 5340-C	BDL (DL: 0.825)	1.0
Mineul Oll*	my/L	IS 3025 (Part-39):2021 (Classe 6 Inthand Speciescopic Minhest)	BDL (DL: 8.91)	-

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

Reviewed by

****End of Report****

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

Page 1 of 1

The Discount dead as Lot Report to search by the Laboratory under German There and Conditions, only or Company Little head to progressed forms. The result above to the Condition of the Conditions of the Conditions of the Condition of the Conditions of the Condition of the Condi



PLOT NO-30, NOMESARDINAR ENCLARY, PUPUDANA MATIA, GANCHI-BEROU (MAREHANDI GET NO-3044ECTST38124

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5365	Report Release Date	: 23.09.2024
Work Onler No.	: 13612312113	Work Order Date	: 28/05/2024
ULR No.	: TC135872400063278F		

CUSTOMER DET	AILS	SAMPLE DETAILS		
Customer Name Address	: Hindako industries Limited : Lehardaga, Jharkhand-#35362	Sample Ref. No. Sampling Date Sample Received Date Type of Sample Source of Sample Location of Sample	- ELES/RNC/2624/SW/6199 : 14.09.2624 : 16.09.2624 : Sorface Water : Down Stream : Sankh Nadi, Gordari Bacote Mine (384.19ba)	
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	: 16.69.2034 to 23.09.2624	Sampling Done By Sample Condition	: ELES Pvt. Ltd. : Scaled & Preserved	

Discipline: Chemical		G	roup: Water	Toteronce Limits
Parameter	Unit	Test Protocol	Result	as per IS 2296-1993 Class C (Inlane Surface Water)
pH (at 24.8 °C)	100	18:3025 (Port-11): 2022	6.79	6.5-8.5
Colour	Hazen	85 3025 (Part -4) : 2021	22	500
Odeor		IN 3025 (Part-5): 2018	Unobjectionable	-
Turbidity	NIU	15 3025 (Part-10): 2023	12.0	÷
Total Dissolved Solids (TDS)	mg/l.	15 3025 (Past-16): 2023	308	1500
Total Alkalieity (in CaCO _a)	ng/L	18 3025 (Part-23) : 2023	115	-
Total Hardness (as CaCO ₃)	mg/L	IS 3023 (Part-21): 2019	118	-
Sulphare (ex SO ₄)	mg/L	(§ 3025 (Pert-24/Sec.)): 2022	18.2	400
Chloride (as CI)	rig/L	IS 3025 (Part-32): 2019	46.2	860
Fluoride (as F)	mg/L	IS 3025 (Part-60), 2019	0.238	1.3
Nitrate (as NOs)	mg/L	APIGA 24th Ed.2023, 4500 NOs. B	3.62	50

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PLOT NO. 30, WANSA ROVAR ENCLAVE, TOPPICIANA WATIA, RANCHE #34003 (MARKHANOS 637 NO. 3044/CT07100194

NGINEERING SERVICES PVT. LTD.

Ernak info@ekspl.co.in . oks.ranchi@gmeil.com Phone no.: 9651-2290303 Verbotte : www.ukspl.co.in



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TEST REPORT

Test Report No. : ELES/RNC/2024/5365 Report Release Date : 23.09.2024

Work Order No. : 13612312113 Work Order Date : 28.03.2024

ULR No. : TC135872400003278F

Discipline: Chemical		Gruup : Wa	ber:	Telerappe Limits
Parameter	Unit	Test Protocol	Reselt	as per 15 2256-1592 Class C clutand Surface Water
Free Residual Chlorine (RFC)	mg/L	15 3023 (Part-26) : 2021	BDL (DL: 0.1)	-
Plunds Compounds (as C ₆ H ₂ OH)	mg/L	85 3025 (Part-43/Sec.(): 2022	RDL. (DL: 0.001)	0.005
Calcium (su Cx)	mg%	15:3025 (Part-40): 2019	32.8	1+1
Discipline : Cher	nicul	Gr	oup : Residues	in Water
Aluminum (as Af)	mgL	25 3025 (Part-55): 2003;RA2019	BDL (DL: 0.02)	
Amenic (at As)	mg/L	18 3025 (Part 37):2022	BDL; (DL: 0.005)	0.2
leren (as B) in		15 3025 (Part-57): 2021	BDL: (DL: 0.2)	(+).
Cadminut (as Cd)	mg/L	APHA 24" Ed 2023; 3111B	BDL (DL: 6.003)	0.01
Total Chromium (as Cr)	mg/L	APHA 24th Ed 2023; 7111B	BDL (DL: 0.03)	0.05
Copper (as Ca)	mg/L	APHA 24 th Ed.2023; 3F1/H	BDL (DL: 0.03)	1.5
Iron (as Fe)	mg/L	APHA 24 th Ed.2023; 3111B	0.139	50
Leid (as Ph)	mg/L	APHA 24 th Ed 2023; 31118	BDL (DL; 8.01)	0.1
Mangassese (so Min)	mg/L	APHA 24 th Ed 2023; 3111B	BDL (DL: 0.05)	= :
Mercury (as Hg)	mg%;	3S 3025(Part-48): 1994; 8A2019	BDL (DL: 0.001)	:-
Selenium (as Se)	mg/L	IS 3025(Part-56): 2019	BDL (DL; 0.01)	0.05
Zinc (as Zii)	mg/L	APHA 21 th Ed:2023; 3111B	BDL (DL: 0.1)	15

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PLOT NO-JE, NEANSANOVAR ENCLAVE, TOPISOANA NATIA, NANOH-ESHRES (MARKHANO) OST NO-JOHACCERTISEEN

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TEST REPORT

Test Report No.	: ELES/RNC/2024/5365	Report Release Date	; 23.09.2024	
Work Order No.	1 13612312113	Work Order Date	1 28.03.2024	
ULR No.	† TC135872400003278F			

Discipline : Che	mical	Group: Res	idues in Water	Tolerance Limits
Parameter	Unit	Test Protocol	Result	as per 15 22%-1992 Class C defined Sortner Water
Cyanide (as CN)	ng1.	APHA 24 ⁶ Ed 2023, 4500 CN-E	HDL (DL: 0.012)	0.05
Polymoclear Aromatic Hydrocarbons (PAE)	ugit.	ELES/GC/SOP/04: 2023	BDL (DL: 0.05)	C7 /
Pesticides				
Alachin	pgt.	ELES/GC/SOP/01: 2023	BDL (DL:: 0.5)	-
Atrazine	HW.	ELES/GC/SOP/01: 2023	BDL (DL: 0.5)	(+)
Butachior µ#L		ELENGO/80P/01:2021	BDL (DL: 0.5)	#
Chlorpyriphos	pg/L	ELES/GC/SOP/01: 2021	BDL (DL: 0.5)	-
Ethion.	μg/L	ELES/GC/SOP/01: 2023	HDL (DL: 0.5)	-
Malathion	µg/L	ELES/GC/NOP/01: 2023	BDL (DL: 0.5)	-
Methyl parathion	µg/L	ELEN/GC/SOP(01) 2023	BDL (DL= 9.1)	-
Monocrotophos	цу⊈	ELES/GC/SOP/01: 2023	BDL (DL: 6.5)	-
Phorene	µg/L	ELES/GC/8/0P/01: 2023	RDL (DL: 0.5)	-
Phorate Sulphone	µg/L	ELES/GC/SOP/01: 2023	BD1. (DL: 0.5)	150
Dieldrin	Pgų	ELES/GC/SOP/02: 2023	BDL (DL: 0.01)	(85)

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The Assessment states as Tori Report, is maked by the Laboratory under Command Terms and Conditions, only on Company in the Property of proceedings of the terms of the September of the Laboratory and the September of September of the September of the September of the September of September of the September of the September of the September of September of the September of the September of September



PLOT NO-10, MARSANOVAY ENCLAYS, TUPBOANA MATIA, RANCHI ESNOOI (MARKINAMO) BIT NO-30AATTETI MISTA

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TEST REPORT

Test Report No.	; ELES/RNC/2024/5365	Report Release Date	123.09.2024
Work Order No.	1 13612312113	Work Order Date	1 28.03.2024
ULR No.	1 TC135872400003278F		

Posticides				Tolerance Limits	
Parameter	Unit	Test Proteen!	Result	as per IS 22%-1990 Chass C (defand Surface Water	
Alphs HCH	μgL	ELES/GC/SOP/02: 2023	(DL: 0.004)	-	
Boto IXCH	μg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.02)	(75.)	
Delta HCH	µg/L	ELES/GC/SOR/02: 2023	BDL (DL; 0.02)	79	
Guerra HCH (Lindaw)	μg/L	ELES/GC/SOR/02: 2023	HDL (DL: 0.02)	140	
Endowalfan (alpha, beta and sulphate)	pg/L	ELES/GC/SOP/02: 2023	BDL (DL: 0.05)	-	
DDT(o,p and p.p-isomers of DDT() (DDE and DDD)	10pT	ELES/GC/SOF/02; 2023	BDL (DL: 0.05)	-	
Discipline: Biological		Group: Water			
Total Colginse	CFU/100 mL	15 15185: 2021	8.50×10 ¹		
Escherickia celi	CFL/100 mL	JS 15185: 2921	BDL (DL: 1.0)		

Remarks: pld # R.C. dete it Lab.

Reviewed

****End of Report****

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

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PEDT NO-30, NAKSARONAN ENCLANT, TUPUDANA HATIA, KANCH-KIKEKI (INVANNANI) KIT NO-30AKERITI (ISEA)

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TEST REPORT

Test Report No.	ELES/RNC/2024/5368	Report Release Date	: 23.09,2024	
Work Order No.	: 13612312113	Work Order Date	28.03.2924	

CUSTOMER DET	AILS	SAMPLE DETAILS		
Conomer Name	: Hindulco Industries Limited : Loburdage, Hurkband-835302	Sample Ref. No. Sampling Data Sample Received Cour Type of Sample Source of Sample Lucation of Sample	14.09.2024 16.09.2034 Surface Water Down Stream Seeth Nidi, Gurden Handin Mine (S84.19ha)	
Mines Status	: Operational	Sampling Procedure	: ELES/DOC/SMPL/01	
Period of Analysis	: 16,09.2024 to 23.09.2024	Sampling Done By Sample Condition	ELES Pvt. Lut. Scaled & Preserved	

Discipline: Chemic	al	Gre	op : Water	Teleracce Limits
Parameter	Unit	Test Protocol	Result	class C (Belant Surface Wester)
Tieste	100	APHA 21* E62023, 2160C	N/A	-
Anionic Sorfactures (as MBAS)	mg/L	APHA 24 th 54,3023, 5540-C	BDL (DL: 0.025)	1,0
Mineral Oil*	mg/L	18 3025 (Pert-39):2021 (Clause Elettoral Sportroscopic Market)	BDL (DL: 0.01)	-

Remarks: L.(?) Parameters are outsourced to other Lab.

Reviewed by

**** End of Report****

Authorisrd Signatury Dr. Deependre Kumer Sinha Ph. D. Environmental Engg. Technical Manager

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Annexure 3

Date - 06.11.2024

Office Order

Environmental Cell has been re-constituted at Gurdari Bauxite Mine (Area 584.19 ha) comprising below mentioned team members. The team will ensure compliance with the Environment Act, Regulation & Rule in respect of the said mines of Hindalco Industries Limited.

- 1. Mr. Vidya Singh (Coordinator)
- 2. Mr. Krishnendu Das (Geologist)
- 3. Mr. Ankit Das (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 act rule and regulation for the above mine.

Basudev Gangopadhyay AVP (Planning, Environment &Compliance)

Annexure 4

	Producti	on, Mined Out	, Back Filled and	d Over Burden rem	oval from Apr	il'24 to Sep	tember'24	
S No	Name of the Mines	Mining lease area (ha)	Production Capacity (MT)*	Lease Period*	Production (MT)	Mined out area (ha)	Back filled 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	82481	0.25	0.57	191521.65
3	Hisri (New) Bauxite Mine	14.55	100000	19.07.1981 to 31.03.2030	63197	0.45	0.35	26905.95
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	96744	4.29	8.89	365249.34
7	Sherangdag-A Bauxite Mine	155.81	260000	16.10.1974 to 31.03.2030	6200	0.23	0.2	10200.00
8	Serangdag-B Bauxite Mine	77.89	100000	04.10.1978 to 31.03.2030	49850	0.96	0.85	104303.82
9	Jalim & Sanai Bauxite Mine	12.14	50000	16.10.1974 to 31.03.2030	12450	0.14	0.12	13050.63
10	Gurdari Bauxite Mine	584.19	325000	23.03.1985 to 22.03.2035	96115	4.69	2.46	185023.98
11	Kujam - I Bauxite Mine	80.87	150000	13.03.2006 to 12.03.2056	7175	0.97	0.43	21377.24
12	Kujam - II Bauxite Mine	157.38	300000	24.03.2006 to 23.03.2056	49120	5.28	3.56	137098.55
13	Amtipani Bauxite Mine	190.95	150000	13.03.2006 to 12.03.2056	87109	2.153	0.987	225462.85

	Minerals & Minerals Limited										
14	Pakhar (109.507) Bauxite Mine	109.507	280000	26.07.2008 to 25.07.2058	147714.95	2.06	2.60	160334.49			
15	Pakhar (15.58) Bauxite Mine	15.58	60000	28.04.1965 to 31.03.2030	NIL	NIL	NIL	NIL			
16	Bimarla Bauxite Mine	134.526	300000	18.07.2009 to 17.07.2059	78750	4.44	7.35	116233.81			
17	Amtipani Chirodih Bauxite Mine	130.01	450000	11.01.2017 to 10.01.2067	140900	4.25	1.50	235195.494			

^{*}Static information about the mines included in the above table

Basudev Cangopadhyay
AVP (Planning, Environment and Compliance)

BREAK UP THE COST OF ENVIRONMENTAL MEASURES DURING THE YEAR 2024-25

The composite cost during the year 2023-24 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 Apr'24 to Sep'24)	Actual (in Rupees) FY 2024-25 (From Apr'24 to Sep'24)
1	Pollution Control & Environment monitoring	61,35,000.00	53,47,442.83
2	Reclamation/ Back filing & Rehabilitation**	5,62,80,000.00	5,60,24,564.93
3	Green belt, Plantation & Water sprinkling arrangement	73,42,000.00	69,41,114.17
4	Rural Development	2,75,00,000.00	2,05,55,592.67

^{**}Part of OB removed cost.

Basudev Gangopadhyay
AVP (Planning, Environment & Compliance)