



Vide Letter No.: HZLP/SRP/23-24/H-II

Date: 25/05/2024

To,

The Regional Officer (North Central Zone), Ministry of Environment, Forests & Climate Change, 25, Subhash Road, Dehradun, Uttarakhand-248001

Subject: Submission of Environment Clearance compliance report for Pantnagar Silver Refinery Plant (Refined Silver production 800TPA) of M/s Hindustan Zinc Limited, Plot No 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar, Dist. U.S. Nagar for the period October-2023 to March-2024.

Ref; Letter No:- E.C. No.- 10-9(10)/2018 dated 08-02-2019 from SEIAA, Dehradun.

Dear Sir,

With reference to the aforesaid subject, we have obtained Environment Clearance from State Environment Impact Assessment Authority, Dehradun for Pantnagar Silver Refinery Plant (Refined Silver production 800TPA) on dated 08.02.2019.

Please find enclosed herewith the Compliance report of Environment Clearance for Pantnagar Silver Refinery Plant of M/s Hindustan Zinc Limited, Plot No 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar, Dist. U.S. Nagar for the period of October-2023 to March-2024.

In case any additional information / documents / clarifications are required, the same may kindly be informed to us.

Thanking you.

(Anamika Jha) SBU Director

Pantnagar Silver Refinery Plant

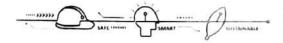
Hindustan Zinc Limited

CC:

1. Member Secretory, SEIAA, Dehradun

Hindustan Zinc Limited Pantnagar Metal Plant Plot No.2&3, Sector 14, IIE, SIDCUL. Rudrapur – 263153, Uttarakhand.

- MS office, UEPPCB, Dehradun
- 3. Regional Officer, UEPPCB, Kashipur
- 4. Office copy, HZL



Hindustan Zinc Limited, Registered Office: Yashad Bhawan, Udaipur−313 004, Rajasthan, IND\A. T. +91 294-6604000-02 www.hzlindia.com CIN: L27204RJ1966PLC001208

Compliance Report of Environment Clearance (October-2023 to March-2024)

Name of the Project:

M/s Hindustan Zinc Limited

Pantnagar Silver Refinery Plant

Location of the Project:

Plot No.- 2 & 3, Sector 14, IIE, SIDCUL,

Pantnagar, District - Udham Singh Nagar,

Uttarakhand - 263153

(Letter No: E.C. No.- 10-9(10)/2018 dated 08-02-2019)

S. N.	<u>Specifications</u>	<u>Status</u>
	Pre Operation-	
1	The project proponent should advertise with basic details at least in two widely circulated local newspapers, within seven (7) days of the receipt of the clearance letter informing that the project has been accorded environmental clearance which is available with the State Environment Impact Assessment Authority, Dehradun and a copy of the same is being sent to the Regional Office of Ministry of Environment and Forest, Government of India located at 25 Subhash road Dehradun.	Complied. Silver 800 TPA Environment Clearance letter was received on 08.02.2019. It was advertised in two local newspapers i.e. Amar Ujala & Danik Jagran on date 10.02.2019. Advertisement copy was submitted to SEIAA, Dehradun and RO, MOEF office Dehradun along with compliance report vide letter no HZL/PMP/18-19/H-II dated 03.04.2019.
2	A copy of the Environmental Clearance letter shall be sent by the proponent to the concerned Panchyat, if any from whom suggestion/representation, if any, were received while processing the proposal.	Complied. Copy of Environment Clearance letter submitted to the Zila Panchyat office Udham Singh Nagar (Rudrapur) on date 11.02.2019. Receiving copy was submitted along with compliance report vide letter no HZL/PMP/18-19/H-II dated 03.04.2019.
3	Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.	Complied. Consent to Establish and Consent to Operate obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act on 28.02.2019 & 29.03.2019 respectively. Present CCA renewal valid till 31.03.2025 having consent number-UKPCB/HO/Con-H=71/2021/1628.
4	There shall be no felling of tress at the construction site and further no damage to the local vegetation shall be done. The installation of equipments/machineries shall be done within the vacant space available in the plant premises.	Complied as no tree felling and no damage to local vegetation done at construction site. The new equipments/machineries being installed within the vacant space available in the plant premises.
	During Operation Phase-	
1	The Environmental Clearance is being granted for Refined Silver production from 600 TPA to 800 TPA (monthly 85 tonnes per month with overall 800 tons per annum). Apart from 800 TPA Refined Silver	Noted and Being complied.

Hindustan Zinc Limited
Pantnagar Metal Plant
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	(powder/ingot etc.) product, Antimony Concentrate(precipitate/salt mix)- 1800TPA, Bismuth Concetrate(precipitate/salt mix)-360TPA, Copper Matte-140TPA, and Oxidation Slag- 1250TPA, Silver Nitrate-25TPA, Silver anode slime/Silver sand- 10TPA, Lead slag-450TPA, VRF zinc- 650TPA, VRF zinc dross- 100TPA will also be produced as a by-products. Major raw materials are Anode Slime/Dore Silver/HGM (high grade metal) -4680TPA which will be procured from HZL's smelters and from open market. Other consumables are Coke- 87 TPA, Soda Ash- 250 TPA, Salt peter (Potassium Nitrate)-89 TPA, Nitric acid- 150 TPA, Ethyne- 10 TPA, Charcoal-	
	20 TPA, Sodium Chloride- 15 TPA, Borax- 15 TPA, LDO/HSD/LNG/LHSH/PNG/LPG- 4500 TPA, Calcium Fluoride- 40 TPA, Sulphuric Acid- 5 TPA and Lime 5 TPA.	
2	Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act before starting up of any construction activity at the site.	Complied. Consent to Establish and Consent to Operate obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act on 28.02.2019 & 29.03.2019 respectively. Present CCA renewal valid till 31.03.2025 having consent number-UKPCB/HO/Con-H-71/2021/1628.
3	A copy of the Environmental Clearance letter shall be sent by the proponent to the concerned Panchyat, if any from whom suggestion/representation, if any, were received while processing the proposal.	Complied. Copy of Environment Clearance letter submitted to the Zila Panchyat office Udham Singh Nagar (Rudrapur) on date 11.02.2019. Receiving copy was submitted allong with compliance report vide letter no HZL/PMP/18-19/H-II dated 03.04.2019.
4	The soil and groundwater samples shall be tested from accredited labs and it shall be ensured that test results comply with CPCB standards so as to ensure that there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants.	The soil and groundwater samples are being tested regularly by NABL accredited lab (M/s Eko Pro Engineers, Ghaziabad) and all test results are being complied with CPCB standard. Zero effluents generated from the plant so there is no threat to groundwater quality by leaching of heavy metals and toxic contaminants. Test reports are being attached herewith as Annexure 1(a).
5	No waste water shall be discharged outside the plant boundary and 'Zero Discharge' shall be strictly adhered to permissible standards.	'Zero Liquid discharge' maintained and is being ensured.
6	The gaseous emissions (SOx, NOx, CO) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Gaseous emissions of SOx, NOx, CO and Particulate matter being monitored periodically by NABL authorized third party (external agency). Emission levels are being ensured as per the stipulations. Test reports are being attached herewith as Annexure 1(b). During failure of pollution control system, will ensure the compliance.

		In addition, online DM analyses to U
		In addition, online PM analysers in all process stacks, SOx, NOx & PM analysers in DG stacks
		installed for effective monitoring & control the
		emissions.
		Photos of the analysers are attached as
		Annexure 2.
	Fugitive emissions in the work zone environment,	Hygiene ventilation systems have been installed
	product and raw materials storage areas shall be	to arrest fugitive emissions. Work zone
	regularly monitored. The emissions shall conform to the	monitoring is being done monthly, In the Raw
7	limits imposed by the UEPPCB/Central Pollution Control Board.	material handling, process and finished good
,	board.	area and emission maintained below the limit.
		Fugitive emission levels are being ensured as per
		the stipulations.
		Test reports are being attached herewith as Annexure 1(c).
	The project authorities shall strictly comply with the	Appropriate storage facilities have been installed
	rules and guidelines under Manufacture, Storages and	for storing Hazardous chemicals/wastes.
	Import of Hazardous Chemicals Rules, 1989, as amended	Authorization of Hazardous waste under
0.00	from time to time. Authorization from the UEPPCB shall	Hazardous Waste Rules 2008 has been granted
8	be obtained for collection, treatment, storage, and	by UKPCB along with CCA and present CCA
	disposal of hazardous wastes.	renewal valid till 31.03.2025 having consent
		number- UKPCB/HO/Con-H-71/2021/1628.
		Photos of the HW storage site are attached as Annexure 3.
	Installed furnace should meet the air pollution discharge	Installed furnaces have equipped with adequate
9	norms of CPCB/ UEPPCB.	and efficient bag filter to ensure the air pollution
	105	discharge norms as per CPCB/UEPPCB.
	The ambient air quality and noise levels as per CPCB	The ambient air quality and noise levels as per
	norms shall be ensured through a monitoring system.	CPCB norms are being ensured through monthly
10	Dust Suppression during construction activity shall be	monitoring through NABL certified lab. Acoustic
10	ensured. Acoustic enclosures shall be provided with DG sets on site complying with Noise Levels of CPCB	enclosures provided with DG sets on site
	standards.	complying with Noise Levels of CPCB standards. Test reports are being attached herewith as
	Standards	Annexure 1(d).
	The vehicles used at the factory site should comply with	Being complied. All the vehicles engaged in
	emission norms and noise level standards of CPCB.	transportation of product and raw materials are
	STREET, STREET	regularly checked for "Pollution Under Control"
		certificates. No overloading is allowed.
11	ěl	Integrated Transport Management System
		(ITMS) is being used for effective control of
		vehicular traffic.
		Emission and Noise level being complied, and results are attached as Annexure 1(a) & 1(d).
	All necessary efforts shall be made to ensure safety and	Being complied. First Aid facility equipped with
	hygiene of workforce. First Aid facility shall be	trained staff already provided in plant premises.
	established and trained manpower to deal with	IME for new manpower and PME for regular
12	emergency cases shall be engaged. The labour force	manpower being ensured as per statutory
	engaged on site shall be screened for health from time	requirements.
	to time.	
13	Adequate drinking water and sanitation facility shall be	Being complied. Adequate drinking water and
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	provided on site for the workforce.	sanitation facility already provided within plant promises.
14	Training shall be imparted to all employees on safety and health aspects. Pre- employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	Being complied. Trainings to all employees on Safety and health aspects are being provided on regular interval. Pre-employment & periodic medical examination are being carried out for the relevant occupational hazards at a regular frequency, as per statutory requirements.
15	The project authority shall also comply with all the environment protection measures and safeguards proposed in the EIA/EMP report. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	Environment protection measures and safeguards recommended in the EIA/EMP report being implemented.
16	A separate Environmental Management Cell shall be set up to carry out the Environmental Management functions.	Separate Environment Management cell is already in place for all Environment Management functions. Environmental monitoring being ensured through Authorized third party (external agency) regularly.
17	The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.	Fire safety arrangements equipped with dedicated Fire tender, and team already provided in plant premises. Fire hydrants are in auto mode. Onsite Emergency response plan already in place.
18	Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pretreatment must be done to remove suspended matter, oil and other particles.	Complied. Presently We have four rainwater harvesting pond for rainwater collection having capacity approx. 2542, 1500, 841 and 750 cu.m and collected rainwater is being utilized into the process. In FY 2023-24, we have reused around 14,950 Cu.m rainwater in the process for conserving the fresh water. Photograph of the same is attached herewith as Annexure-4.
19	Energy conservation measures to be adopted for reducing the energy consumption.	Being complied. Various energy conservations measures being adopted in plant for reducing the energy consumption.
20	At no time the emissions shall exceed the prescribed limits in the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Being complied. All the emissions are being maintained within prescribed limit. Interlocked pollution control system are in place and functioning.
21	The locations of ambient air quality monitoring stations shall be reviewed in consultation with UEPPCB, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Complied. Four Ambient air quality monitoring location already finalized in the downwind direction of the plant in consultation with RO, UEPPCB. CAAQMS installed at plant premises.
22	The stacks of appropriate height as per the central pollution board guidelines shall be provided to control the emissions.	Complied. Adequate stack height is provided as per CPCB guidelines: • 40 m stack height for furnace off gases • 30 m stack height with NOx scrubber provided in electrolyte section

Hindustan Zinc Limited Pantnagar Metal Plant Plot No.2&3, Sector 代表 相思, SIBCUL, Rudrapur – 263153, Uttarakhand.

		Photo of stack is attached herewith as Annexure 5.
23	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standard prescribed under Environment (Protection) Act, 1986 rules, 1989 viz. 75 dB(A) (day time) and 70dB(A) (Night time).	Being complied. Various noise reduction measures are adopted, to ensure compliance to Ambient noise standards, at the design stage of the projects as: Acoustic enclosure provided for DG set and all the necessary provision made in compressor area. Noise level monitoring is being done and ensured within limit reports are attached herewith as Annexure 1(d).
24	One third of the total project site area shall be converted into green belt. The green belt shall not include kitchen garden, flower pots and grasses/herbs in the area. It shall comprise of tree stand of aesthetic/fruit/timber value. Quality planting material shall be used during plantation as per standards of State Forest Department. The species selection should include criterion of fruit bearing and fast growing tall trees. The concerned official of State Forest Department shall ensure the compliance.	Complied. The greenbelt more than 33 per cent area has been covered by selection of plant species as per CPCB guideline and in consultation with DFO. However, gap filling plantation is being carried out to maintain the survival rate of the plants.
25	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated E.C conditions including results of monitored data in soft copy to this Authority and regional office of MoEF, Govt. of India at Dehradun.	Being Complied. Last six-monthly compliance report was submitted to SEIAA, Dehradun and RO, MOEF office Dehradun vide letter no HZLP/SRP/23-24/H-1 dated 25.11.2023. Six-monthly compliance reports are being uploaded on company website. Link of website uploading EC compliance of April'2023 to September'2023 is https://www.hzlindia.com/wp-content/uploads/Pantnagar-Metal-Plant-EC-Compliance-Report-Silver-plant H1 2023-24.pdf
	Entire Life-	
1	The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB.	Being complied. All the vehicles engaged in transportation of product and raw materials are regularly checked for "Pollution Under Control" certificates. No overloading is allowed. Integrated Transport Management System (ITMS) is being used for effective control of vehicular traffic. Emission and Noise level being complied and results are attached as Annexure 1(a) & 1(d).
2	All necessary efforts shall be made to ensure safety and hygiene of workforce. First Aid facility shall be established and trained manpower to deal with emergency cases shall be engaged. The labour force engaged on site shall be screened for health from time to time.	Being complied. First Aid facility equipped with trained staff already provided in plant premises. IME for new manpower and PME for regular manpower being ensured as per statutory requirements.

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	Adequate drinking water and sanitation facility shall be provided on site for the workforce.	Being complied. Adequate drinking water and sanitation facility already provided within plant promises.
	Training shall be imparted to all employees on safety and health aspects. Pre- employment and routine periodical medical examinations for all employees shall be undertaken on regular basis.	Being complied. Trainings to all employees on Safety and health aspects are being provided on regular interval. Pre-employment & periodic medical examination are being carried out for the relevant occupational hazards at a regular frequency, as per statutory requirements.
5	The project authority shall also comply with the entire environment protection measures and safeguards proposed in the EIA/EMP report. All the recommendations made in respect of environmental management and risk mitigation measures relating to the project shall be implemented.	Environment protection measures and safeguards recommended in the EIA/EMP report being implemented.
Į.	The fire safety arrangements and emergency exit plan should be as per the norms of the concerned regulatory authority/agency.	Fire safety arrangements equipped with dedicated Fire tender, and team already provided in plant premises. Fire hydrants are in auto mode. Onsite Emergency response plan already in place.
	Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pretreatment must be done to remove suspended matter, oil and other particles.	Complied. Presently We have four rainwater harvesting pond for rainwater collection having capacity approx. 2542, 1500, 841 and 750 cu.m and collected rainwater is being utilized into the process. In FY 2023-24, we have reused around 14,950 Cu.m rainwater in the process for conserving the fresh water. Photograph of the same is attached herewith as Annexure-4.
8	The project proponent shall ensure compliance to provisions of the all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.	Noted and being complied.
9	The above environmental safeguards shall be implemented in letter and spirit. The project proponent shall establish Environment Monitoring Cell and also submit six monthly compliance reports to this Authority and regional office of MoEF, Govt. of India at Dehradun.	Separate Environment Management cell is already in place for all Environment Management functions. Environmental monitoring being ensured through Authorized third party (external agency) regularly.
	The SEIAA reserves the right to include additional safeguard measures if found necessary and also to take action including revoking of the EC granted under provision of EIA Notification 2006. This EC is being granted subject to compliance of Hon'ble Court Orders issued from time to time.	Noted.
11	The SEIAA Uttarakhand reserves the right to withdraw the Environmental Clearance or add additional conditions.	Noted.

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Rudrapur – 263153, Uttarakhand.

	Environment Clearance is to be obtained under EIA notification dated 14.09.2006. However, no activity shall be undertaken till the Environment Clearance is transferred in his name and he is lawfully bound to Comply with the conditions of the Environmental Clearance.	
13	Corporate Environment Responsibility be followed as proposed.	Continuous Corporate Environment Responsibility is being carried out through various projects planned in the financial year 2023-24 along with CSR program. CER & CSR projects details are attached herewith as Annexure 6. Report has been submitted on CER activities along with CSR on 31.01.2020.

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Plot No.283, Sector 14, IIE, SIDCUL,
Rudrapur – 263153, Uttarakhand.



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Contact: +91 - 9810243870

Issue Date: 30/03/2024

TEST REPORT

Water Sample Analysis

Test Report No.: EKO/E-549/260324

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sec-14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

: Ground Water

Sample Drawn on

: 22/03/2024

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on Sampling Location

: 26/03/2024

Sampling Plan & Procedure

: From Borewell

: SOP-W/66

Sample Quantity **Environmental Conditions** : 3.0 Litre

Analysis Duration

: Normal : 26/03/2024 To 30/03/2024

Remark (if any)

RESULTS

		KESULIS					
S. No.	Parameters	Test Methods	Results	Units	Limits as per IS: 10500-2012 (Amd.No.3 Feb-2021)		
			VANDA - DAMA - DA		Acceptable	Permissible	
1	Colour	IS: 3025 (P-4)	<1.0	Hazen	5.0	15.0	
2	Odour	IS: 3025 (P-5)	Agreeable	-	Agreeable	Agreeable	
3	Taste	IS: 3025 (P-7)	Agreeable	-	Agreeable	Agreeable	
4	Turbidity	IS: 3025 (P-10)	<1.0	NTU	1.0	5.0	
5	pH	IS: 3025 (P-11)	7.22	-	6.5-8.5	No relaxation	
6	Total Hardness (as CaCO ₃)	IS: 3025 (P-21)	188.0	mg/L	200.0	600.0	
7	Calcium (as Ca)	IS: 3025 (P-40)	45.30	mg/L	75.0	200.0	
8	Ammonia (as Total Ammonia-N)	(S: 3025 (P-34)	<0.5	mg/L	0.5	No relaxation	
9	Chloride (as Cl)	(S: 3025 (P-32)	30.9	mg/L	250.0	1000.0	
10	Potassium (as K)	IS 3025 (Part-45)	<1.0	mg/L	-	•	
11	Sodium (as Na)	IS 3025 (Part-45)	11.30	mg/L	-		
12	Fluoride (as F)	IS: 3025 (P-60)	<1.0	mg/L	1.0	1.5	
13	Total Dissolved Solids	IS: 3025 (P-16)	395.0	mg/L	500.0	2000.0	
14	Magnesium (as Mg)	IS: 3025 (P-46)	18.20	mg/L	30.0	100.0	
15	Copper (as Cu)	APHA 3125 B	<0.005	mg/L	0.05	1.5	
16	Sulphide (as H ₂ S)	IS: 3025 (P-29)	<0.05	mg/L	0.05	No relaxation	
17	Sulphate (as SO ₄)	IS: 3025 (P-24)	16.9	mg/L	200.0	400.0	
18	Nitrate (as NO ₃)	IS: 3025 (P-34)	1.25	mg/L	45.0	No relaxation	
19	Phenolic Compounds(as C ₆ H ₅ OH)	IS: 3025 (P-43)	<0.001	mg/L	0.001	0.002	
20	Mercury (as Hg)	APHA 3125 B	<0.001	mg/L	0.001	No relaxation	
21	Selenium (as Se)	APHA 3125 B	<0.005	mg/L	0.01	No relaxation	
22	Arsenic (as As)	APHA 3125 B	< 0.005	mg/L	0.01	No relaxation	
23	Cyanide (as CN)	APHA 4500 CN-K	Absent	mg/L	0.05	No relaxation	
24	Lead (as Pb)	APHA 3125 B	<0.005	mg/L	0.01	No relaxation	
25	Zinc (as Zn)	APHA 3125 B	<0.01	mg/L	5.0	15.0	

41, South Side of GT Road, UPSIDC Industrial Area, Ghaziabad (Delhi 144) THE ENVIRONMENT 240837, 9810240678 E-mail: email@ekopro in, ekoproengineers@gmail.com, W

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Test Report No.: EKO/E-549/260324

Issue Date: 30/03/2024

26	Total Chromium (as Cr)	APHA 3125 B	<0.005	mg/L	0.05	No relaxation
27	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23)	139.0	mg/L	200.0	600.0
28	Aluminium (as Al)	APHA 3125 B	<0.005	mg/L	0.03	0.2
29	Boron (as B)	IS: 3025 (P-57)	<0.25	mg/L	0.5	2.4
30	Cadmium (as Cd)	APHA 3125 B	<0.001	mg/L	0.003	No relaxation
31	Anionic Detergents (as MBAS)	APHA 5540	<0.1	mg/L	0.2	1.0
32	Total Coliform	IS: 15185	Not Detected	Per 100mL	Absent	No relaxation
33	E.coli	IS: 15185	Not Detected	Per 100mL	Absent	No relaxation

Remark: - Standard Applicable only for Drinking Water.

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.

4. Responsibility of the Laboratory is limited to the invoiced amount only.





Contact: +91 - 9810243870

Issue Date: 03/11/2023



EKO TESTING LABS Eko Pro Engineers Pvt. Ltd.

Environmental Consultants and Analytical Laboratory (An ISO 9001:2015 Certified Company)

Office & Laboratory . 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA. Contact No. 9711159210, 9810240837, 9810240678. E-mail: email@ekopro.in, ekoproengineers@gmail.com, website: www.ekopro.in

TEST REPORT

Soil Sample Analysis

Test Report No.: EKO/E-553/301023

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sector -14 IIE, Sidcul Pantnagar

Rudrapur - (Uttrakhand)

Sample Description

Soil Sample

Sample Drawn on

Issued To

28/10/2023

Sample Drawn by

EPEPL (Mr. Chandan Sharma)

Sample Received on

30/10/2023

Sampling Location

: From Plot No.1 (old Plot)

Sampling Plan & Procedure Sample Quantity

: SOP-S/50

500 gm Normal

Environmental Condition Analysis Duration

30/10/2023 To 03/11/2023

Remark (if any)

NA

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	RESULIS				
S. No.	Parameters	Test Methods	Results	Units	
1	pH (1:2.5 Suspension)	IS: 2720 (P-26)	7.62		
2	Conductivity (1:5 Susp.)	IS: 2720 (P-21)	546.3	μs/cm	
3	Sodium Available (as Na)	EKO/CHEM/SOP/S-04	285.5	mg/kg	
4	Potassium Available (as K)	EKO/CHEM/SOP/S-02	330.2	mg/kg	
5	Bulk Density	EKO/CHEM/SOP/S-12	1.59	gm/cc	
6	Chloride (as Ci)	EKO/CHEM/SOP/S-01	147.5	mg/kg	
7	Phosphorus (as P)	EKO/CHEM/SOP/S-03	78.5	mg/kg	
8	Total Kjehldal Nitrogen	EKO/CHEM/SOP/S-07	1462.3	mg/kg	
9	Zinc (as Zn)	USEPA-SW 846 7130	18.5	mg/kg	
10	Lead (as Pb)	USEPA-SW 846 7130	<1.0	mg/kg	
11	Cadmium (as CD)	USEPA-SW 846 7130	<1.0	mg/kg	
12	Copper (as Cu)	USEPA-SW 846 7130	<0.5	mg/kg	
13	Arsenic(as As)	USEPA-SW 846 7130	<1.0	mg/kg	
14	Nickel (as Ni)	USEPA-SW 846 7130	<1.0	mg/kg	
15	Organic Carbon	IS: 2720 (P-22)	0.64	%	
16	Antimony (as Sb)	USEPA-SW 846	<1.0	mg/kg	
17	Bismuth (as Bi)	USEPA-SW 846	<1.0	mg/kg	
18	Salinity	SOP-S/92/37	348.0	mg/kg	

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test report will not be used for any publicity/legal purpose.
- The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.

5. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

Analytical Services - Pollution & Environment Food and Agricultural Products, Ecolopackaging material Affly et al. (Ayush medicines and its raw material Districtants/ Sanitizer, Medical Devices, Subsections of Surgical products. Not succeived by Surgical Products. Surgical Products. Not succeived by Surgical Products. Not succeived by Surgical Products. Surgical Products. Surgical Products. Not succeived by Surgical Products. Surgical Pro Consulting Services - EIA, SIA, EC Compliances. Consultancy for NOC of Ground Water. Hydrogeological Studies, Environmental Aud

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Page 1 of 1

Issue Date: 03/11/2023



EKO TESTING LABS

Eko Pro Engineers Pvt. Ltd.

Environmental Consultants and Analytical Laboratory (An ISO 9001:2015 Certified Company)

Office & Laboratory: 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA. Contact No.: 9711159210, 9810240837, 9810240678 E mail: email@ekopro.in, ekoproengineers@gmail.com, websile: www.ekopro.in

TEST REPORT

Soil Sample Analysis

Test Report No. ; EKO/E-551/301023

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sector -14 VIE, Sidcul Pantnagar Rudrapur - (Uttrakhand)

Sample Description

Soil Sample

Sample Drawn on

28/10/2023

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

: 30/10/2023

Sampling Location

Back Side of Training Centre Near Logistic Office

Sampling Plan & Procedure

SOP-S/50

Sample Quantity

500 gm : Normal

Environmental Condition Analysis Duration

30/10/2023 To 03/11/2023

Remark (if any)

RESULTS

S. No.	Parameters	Test Methods	Results	Units	
1	pH (1:2.5 Suspension)	IS: 2720 (P-26)	7.42		
2	Conductivity (1:5 Susp.)	IS: 2720 (P-21)	588.6	µs/cm	
3	Sodium Available (as Na)	EKO/CHEM/SOP/S-04	312.4	mg/kg	
4	Potassium Available (as K)	EKO/CHEM/SOP/S-02	425.5	mg/kg	
5	Bulk Density	EKO/CHEM/SOP/S-12	1.22	gm/cc	
6	Chloride (as CI)	EKO/CHEM/SOP/S-01	195.6	mg/kg	
7	Phosphorus (as P)	EKO/CHEM/SOP/S-03	82.5	mg/kg	
8	Total Kjehldal Nitrogen	EKO/CHEM/SOP/S-07	1540.2	mg/kg	
9	Zinc (as Zn)	USEPA-SW 846 7130	18.9	mg/kg	
10	Lead (as Pb)	USEPA-SW 846 7130	<1.0	mg/kg	
11	Cadmium (as CD)	USEPA-SW 846 7130	<1.0	mg/kg	
12	Copper (as Cu)	USEPA-SW 846 7130	<0.5	mg/kg	
13	Arsenic(as As)	USEPA-SW 846 7130	<1.0	mg/kg	
14	Nickel (as Ni)	USEPA-SW 846 7130	<1.0	mg/kg	
15	Organic Carbon	IS: 2720 (P-22)	0.65	%	
16	Antimony (as Sb)	USEPA-SW 846	<1.0	mg/kg	
17	Bismuth (as Bi)	USEPA-SW 846	<1.0	mg/kg	
18	Salinity	SOP-S/92/37	280.0	mg/kg	

Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- The test report will not be used for any publicity/legal purpose.
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5. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

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Page 1 of 1

Issue Date: 03/11/2023



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Environmental Consultants and Analytical Laboratory (An ISO 9001:2015 Certified Company)

Office & Laboratory 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA Contact No. 9711159210, 9810240837, 9810240678 E-mail: email@ekopro.in, ekoproengineers@gmail.com, website: www.ekopro.in

TEST REPORT

Soil Sample Analysis

Test Report No.: EKO/E-552/301023

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sector -14 IIE, Sidcul Pantnagar Rudrapur - (Uttrakhand)

Sample Description

Sample Drawn on

Soil Sample

Sample Drawn by

28/10/2023

Sample Received on

: EPEPL (Mr. Chandan Sharma)

Sampling Location

: 30/10/2023

Sampling Plan & Procedure

: Front Side of Contractor Canteen

Sample Quantity

SOP-S/50 500 am

Environmental Condition

Normal

Analysis Duration

30/10/2023 To 03/11/2023

Remark (if any)

RESULTS

S. No.	Parameters	Test Methods	Results	Units
1	pH (1:2.5 Suspension)	IS: 2720 (P-26)	7.19	•
2	Conductivity (1:5 Susp.)	IS: 2720 (P-21)	556.8	µs/cm
3	Sodium Available (as Na)	EKO/CHEM/SOP/S-04	265.4	mg/kg
4	Potassium Available (as K)	EKO/CHEM/SOP/S-02	312.8	mg/kg
5	Bulk Density	EKO/CHEM/SOP/S-12	1.62	g/c3
6	Chloride (as CI)	EKO/CHEM/SOP/S-01	185.6	mg/kg
7	Phosphorus (as P)	EKO/CHEM/SOP/S-03	82.2	mg/kg
8	Total Kjehldal Nitrogen	EKO/CHEM/SOP/S-07	1540.2	mg/kg
9	Zinc (as Zn)	USEPA-SW 846 7130	18.5	mg/kg
10	Lead (as Pb) Cadmium (as CD)	USEPA-SW 846 7130	<1.0 mg/	
11		USEPA-SW 846 7130	<1.0	mg/kg
12	Copper (as Cu)	USEPA-SW 846 7130	<0.5	mg/kg
13	Arsenic(as As)	USEPA-SW 846 7130	<1.0	mg/kg
14	Nickel (as Ni)	USEPA-SW 846 7130	<1.0	mg/kg
15	Organic Carbon	IS: 2720 (P-22)	0.54	%
16	Antimony (as Sb)	USEPA-SW 846	<1.0	mg/kg
17	Bismuth (as Bi)	USEPA-SW 846	<1.0	mg/kg
18	Salinity	SOP-S/92/37	330.0	mg/kg

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2 This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
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- 5. Responsibility of the Laboratory is limited to the invoiced amount only.

"End of Report"

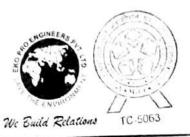
Analytical Services - Poliution & Environment, Food and Agricultural Products, Food packaging material, All types of Ayush medicines and its new material, AV or March of Dervices, Accessiones & Stargical products, Notraceuticals & Functional Foods, Residue Analysis in food and water. Toy & Material Roll Consulting Services - EIA, SIA, EC Compliances, Consultancy for NOC of Ground Water, Hydrogeological Studies, Environmental Aux

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Competence | Quality | Service

TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-524/260324-A

Issued To

HINDUSTAN ZINC LIMITED

Plot No. 2, Sec - 14 PIE, Sidcul Pantnagar

Rudrapur - Uttrakhand

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on

Time of Sampling (minutes) Sampling Location

Sampling Plan & Procedure

Analysis Duration

Source of Emission Capacity

Operating Load

Normal Operation Schedule

Type of Stack

Diameter of Stack (meter)

Height of Stack from Ground Level (meter) Height of Stack from Roof Level (meter)

Height of Sampling Location (meter)

Type of Fuel Used

Fuel Consumed per hour Ambient Temperature (°C)

Stack Temperature (°C) Average Velocity of Flue Emission (m/sec)

Average Flow Rate (Ipm)

Control Measures (if any) Remark (if any)

: Stack Emission

: 23/03/2024

: EPEPL (Mr. Chandan Sharma)

: 26/03/2024

: 30.0

: NA

: SOP-SE/09

: 26/03/2024 To 30/03/2024

: Stack Attached To Furnace

: 20.8 MT/Day Total

: 2.5 MT

Batch Wise (3 Shift)

Metalic With Refracotry Lining

1.6 at top

: 40.0

23.3 From Ground Level Electricity/PNG

29 0

178.0

6.3

: 19.9

Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Guidelines
1	Particulate Matter (as PM)	IS: 11255 (P-1)	32.1	mg/Nm ³	150.0
2	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	11.4	mg/Nm ³	Not Specified
2	Oxide of Nitrogen (as NOx)	IS: 11255 (P-7)	50.6	mg/Nm ³	Not Specified
4	Carbon Monoxide (as CO)	IS: 13270	<0.2	% V/V	1.0
5	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm ³	10.0

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test samples will be disposed off after 15 days from the date of Issue of test report, unless until specified by the customer.
- Responsibility of the Laboratory is limited to the invoiced amount only.
 - ** End of Report **



Office & Laboratory 32/41, South Side of GT Road, UPSIDC Industrial Area, Ghaziabad (Delhi-NCR) Contact No: 97111159210, 9810240837 9810240678 E-mail: email@ekopro.in, ekoproengineers@gmail.com, Websile www.ePage 1 of 1 EKO TESTING LABŠ is Registered Trademark of EKO PRO ENGINEERS PVT LTD



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Competence | Quality | Service

TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-524/260324-B

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2, Sec - 14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on

Time of Sampling (minutes) Sampling Location

Sampling Plan & Procedure

Analysis Duration

Source of Emission Capacity

Operating Load

Normal Operation Schedule

Type of Stack

Diameter of Stack (meter) Height of Stack from Ground Level (meter) Height of Stack from Roof Level (meter)

Height of Sampling Location (meter)

Type of Fuel Used

Fuel Consumed per hour

Ambient Temperature (°C) Stack Temperature (°C)

Average Velocity of Flue Emission (m/sec) Average Flow Rate (Ipm) Control Measures (if any)

Remark (if any)

Stack Emission

23/03/2024

: EPEPL (Mr. Chandan Sharma)

: 26/03/2024

: NA

: SOP-SE/09

: 26/03/2024 To 30/03/2024 : Stack Attached To Furnace

: 20.8 MT/Day Total

: 2.5 MT

Batch Wise (3 Shift)

Metalic With Refracotry Lining

: 1.6 at top 40.0

23.3 From Ground Level

Electricity/PNG

29.0 178.0 : 6.3 : 19.9

Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Guidelines
1	Total Hydrocarbon (as HC)	IS: 5182 (P-17)	ND	mg/Nm³	Not Specified
2	Total VOC	IS: 5182 (P-11)	ND	mg/Nm ³	Not Specified

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer.
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.
 - " End of Report "





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TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-525/260324-A

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2, Sec - 14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on Time of Sampling (minutes) Sampling Location

Sampling Plan & Procedure

Analysis Duration

Source of Emission Capacity

Operating Load

Normal Operation Schedule

Type of Stack

Diameter of Stack (meter) Height of Stack from Ground Level (meter) Height of Stack from Roof Level (meter)

Height of Sampling Location (meter)

Type of Fuel Used Fuel Consumed per hour Ambient Temperature (°C) Stack Temperature (°C)

Average Velocity of Flue Emission (m/sec) Average Flow Rate (Ipm) Control Measures (if any)

Remark (if any)

Stack Emission

23/03/2024

: EPEPL (Mr. Chandan Sharma)

: 26/03/2024

: 30.0

: NA : SOP-SE/09

: 26/03/2024 To 30/03/2024

: Stack Attached To Nox Scrubber

: Normal

: Batch Wise (3 Shift) : Metalic & PP Lining

: 1.1 at top 30.0

21.8

22.9 From Ground Level

: 29.0 : 78.0

: 6.5 : 21.2

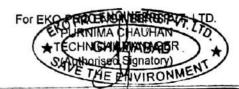
Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Guidelines
1	Particulate Matter (as PM)	IS: 11255 (P-1)	33.7	mg/Nm ³	150.0
2	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	12.8	mg/Nm ³	Not Specified
3	Oxide of Nitrogen (as NOx)	IS: 11255 (P-7)	51.6	mg/Nm ³	Not Specified
4	Carbon Monoxide (as CO)	IS: 13270	<0.2	% V/V	1.0
5	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm ³	10.0

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer.
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.





EKO TESTING LABS

Eko Pro Engineers Pvt. Ltd.

Competence | Quality | Service

TEST REPORT

Stack Emission Analysis

Test Report No. : EKO/E-525/260324-B

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2, Sec - 14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on Time of Sampling (minutes)

Sampling Location

Sampling Plan & Procedure

Analysis Duration

Source of Emission

Capacity

Operating Load Normal Operation Schedule

Type of Stack

Diameter of Stack (meter) Height of Stack from Ground Level (meter)

Height of Stack from Roof Level (meter)

Height of Sampling Location (meter)

Type of Fuel Used Fuel Consumed per hour Ambient Temperature (°C)

Stack Temperature (°C) Average Velocity of Flue Emission (m/sec)

Average Flow Rate (lpm) Control Measures (if any)

Remark (if any)

: Stack Emission

23/03/2024

: EPEPL (Mr. Chandan Sharma)

: 26/03/2024 : 30.0

: NA

SOP-SE/09

26/03/2024 To 30/03/2024

Stack Attached To Nox Scrubber

: Normal

Batch Wise (3 Shift) Metalic & PP Lining

: 1.1 at top : 30.0

: 21.8

22.9 From Ground Level

: 29.0

: 78.0 : 6.5

: 21.2

Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Guidelines
1	Total Hydrocarbon (as HC)	IS: 5182 (P-17)	ND	mg/Nm ³	Not Specified
2	Total VOC	IS: 5182 (P-11)	ND	mg/Nm ³	Not Specified

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer.

4. Responsibility of the Laboratory is limited to the invoiced amount only.

" End of Report "







EKO TESTING LABS

Eko Pro Engineers Pvt. Ltd.

Competence | Quality | Service

TEST REPORT

Workzone Air Quality Monitoring

Test Report No.: EKO/E-532/260324

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sec-14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

Workzone Air

Sample Drawn on

23/03/2024

Sample Drawn by

EPEPL (Mr. Chandan Sharma)

Sample Received on

26/03/2024

Sampling Location

: Bag Filter Area Silver Plant

Sampling Plan & Procedure

SOP-AAQ/15

Analysis Duration

26/03/2024 To 30/03/2024

Sampling Time Ambient Temperature (°C)

: 08 Hrs. : 27.0

Average Flow Rate of SPM (m3/min) Average Flow Rate of Gases (lpm)

: 1.75 : 1.75

Weather Condition

Clear

Remark (if any)

NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Permissible Limits
1	SPM	IS: 5182 (P-4)	0.518	mg/m³	15.0 as per OSHA
2	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	0.010	mg/m³	5.0 as per Factories Act, 1948
3	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	0.021	mg/m ³	6.0 as per Factories Act, 1948
4	Lead (as Pb)	IS: 5182 (P-22)	< 0.1	mg/m ³	0.15 as per Factories Act, 1948
5	Zinc (as Zn)	EKO/CHEM/SOP/AAQ-02	< 0.1	mg/m ³	-

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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- 3. The test report will not be used for any publicity/legal purpose.
- 4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
- 5. Responsibility of the Laboratory is limited to the invoiced amount only.





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Eko Pro Engineers Pvt. Ltd.

Competence | Quality | Service

TEST REPORT

Workzone Air Quality Monitoring

Test Report No.: EKO/E-531/260324

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sec-14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

Workzone Air

Sample Drawn on

Issued To

: 23/03/2024

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

: 26/03/2024

Sampling Location

: Furnace Area In Sliver Floor

Sampling Plan & Procedure

: SOP-AAQ/15

Analysis Duration

: 26/03/2024 To 30/03/2024

Sampling Time Ambient Temperature (°C) : 08 Hrs. : 27.0

Average Flow Rate of SPM (m3/min) Average Flow Rate of Gases (lpm)

: 1.60 : 1.60

Weather Condition

: Clear

Remark (if any)

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Permissible Limits
1	SPM	IS: 5182 (P-4)	0.647	mg/m³	15.0 as per OSHA
2	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	0.008	mg/m ³	5.0 as per Factories Act, 1948
3	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	0.019	mg/m³	6.0 as per Factories Act, 1948
4	Lead (as Pb)	IS: 5182 (P-22)	< 0.1	mg/m³	0.15 as per Factories Act, 1948
5	Zinc (as Zn)	EKO/CHEM/SOP/AAQ-02	< 0.1	mg/m ³	

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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Eko Pro Engineers Pvt. Ltd.

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TEST REPORT

Workzone Air Quality Monitoring

Test Report No.: EKO/E-533/260324

: HINDUSTAN ZINC LIMITED

Issued To

: HINDUSTAN ZING LIM

Plot No. 2 Sec-14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

Workzone Air

Sample Drawn on

23/03/2024

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

26/03/2024

Sampling Location

: Silver Plant Hydro Top Floor

Sampling Plan & Procedure

: SOP-AAQ/15

Analysis Duration

: 26/03/2024 To 30/03/2024

Sampling Time

: 08 Hrs.

Ambient Temperature (°C)

: 27.0

Average Flow Rate of SPM (m³/min) Average Flow Rate of Gases (lpm) : 1.80

Weather Condition

: 1.80 : Clear

Remark (if any)

NA

RESULTS

	NEGOLIO								
S. No.	Parameters	Test Methods	Results	Units	Permissible Limits				
1	SPM	IS: 5182 (P-4)	0.565	mg/m ³	15.0 as per OSHA				
2	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	800.0	mg/m³	5.0 as per Factories Act, 1948				
3	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	0.019	mg/m³	6.0 as per Factories Act 1948				
4	Lead (as Pb)	IS: 5†82 (P-22)	< 0.1	mg/m³	0.15 as per Factories Act, 1948				
5	Zinc (as Zn)	EKO/CHEM/SOP/AAQ-02	< 0.1	mg/m³					

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test report will not be used for any publicity/legal purpose.
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- 5. Responsibility of the Laboratory is limited to the invoiced amount only.





EKO TESTING LABS

Eko Pro Engineers Pvt. Ltd.

Competence | Quality | Service

Contact +91 - 9810243870

Issue Date: 30/03/2024

TEST REPORT

Ambient Air Quality Monitoring

Test Report No.: EKO/E-518/260324

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2, Sec - 14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

Sample Drawn by

Sample Drawn by Sample Received on

Sampling Location

Sampling Time

Sampling Plan & Procedure

Analysis Duration

Ambient Temperature (°C) Average Flow Rate of SPM (m³/min.) Average Flow Rate of Gases (lpm)

Weather Conditions Remark (if any) : Ambient Air

22/03/2024 To 23/03/2024

: EPEPL (Mr. Chandan Sharma)

26/03/2024

: Back Side of DG Area

: 24.0 Hrs. : SOP-AAQ/15

26/03/2024 To 30/03/2024

: 27.0 : 1.1 : 1.0

: Clear : NA

RESULTS

	RESULTS								
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009				
1	Particulate Matter (PM10)	IS: 5182 (P-23)	92.3	µg/m³	100.0				
2	Particulate Matter (PM2.5)	IS: 5182 (P-24)	56.4	µg/m³	60.0				
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	12.7	µg/m³	80.0				
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	29.6	µg/m³	80.0				
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	0.91	mg/m ³	4.0				
6	Lead (as Pb)	IS: 5182 (P=22)	<0.1	µg/m³	1.0				
7	Nickel (as Ni)	IS: 5182 (P-26)	<15.0	ng/m³	20.0				
8	Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m³	6.0				
9	Ozone (as O ₃)	IS: 5182 (P-9)	<10.0	µg/m³	180.0				
10	Ammonia (as NH ₃)	IS: 5182 (P-25)	<20.0	μg/m³	400.0				
11	Benzene (as C ₆ H ₆)	IS: 5182 (P-11)	<1.0	μg/m³	5.0				
12	Benzo(alpha) Pyrine-Particulate Phase Only	IS: 5182 (P-12)	<1.0	ng/m³	1.0				

Notes

- The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
- Responsibility of the Laboratory is limited to the invoiced amount only.

** End of Report **

ENTERO PRO ENTINEERS PYT, LTD.

PURNIMY CHAUHAN

TECHNIEMEN HANAGER *

Office & Laboratory 32/41. South Side of GT Road, UPSIDC Industrial Area. Ghaziabad (Dethi-NCR) 20/46/69 Contact No. 97111159210, 9810240678 E-mail email@ekopro.in, ekoproengineers@gma.t.com, Website: www.eRage.in. of 1

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Competence | Quality | Service

TEST REPORT

Ambient Air Quality Monitoring

Test Report No.: EKO/E-520/260324

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2, Sec - 14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on

Sampling Location Sampling Time

Sampling Plan & Procedure

Analysis Duration Ambient Temperature (°C)

Average Flow Rate of SPM (m³/min.) Average Flow Rate of Gases (lpm) Weather Conditions

Remark (if any)

: Ambient Air

21/03/2024 To 22/03/2024 EPEPL (Mr. Chandan Sharma)

26/03/2024

Near Main Gate/Security

24.0 Hrs.

: SOP-AAQ/15 26/03/2024 To 30/03/2024

1.0 Clear

DECLU TO

	RESULTS								
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009				
1	Particulate Matter (PM10)	IS: 5182 (P-23)	98.2	μg/m³	100.0				
	Particulate Matter (PM2.5)	IS: 5182 (P-24)	55.3	µg/m³	60.0				
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	12.4	µg/m³	80.0				
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	29.6	µg/m³	80.0				
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.24	mg/m ³	4.0				
6	Lead (as Pb)	IS: 5182 (P-22)	<0.1	µg/m³	1.0				
7	Nickel (as Ni)	IS: 5182 (P-26)	<15.0	ng/m³	20.0				
8	Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m³	6.0				
9	Ozone (as O ₃)	IS: 5182 (P-9)	<10.0	μg/m³	180.0				
10	Ammonia (as NH ₃)	IS: 5182 (P-25)	<20.0	μg/m³	400.0				
11	Benzene (as C ₆ H ₆)	IS: 5182 (P-11)	<1.0	μg/m³	5.0				
12	Benzo(alpha) Pyrine-Particulate Phase Only	IS: 5182 (P-12)	<1.0	ng/m³	1.0				

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only,
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
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- 4. Responsibility of the Laboratory is limited to the invoiced amount only.

** End of Report **

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TEST REPORT

Ambient Air Quality Monitoring

Test Report No.: EKO/E-521/260324

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2, Sec - 14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on

Sampling Location Sampling Time

Sampling Plan & Procedure

Analysis Duration

Ambient Temperature (°C)

Average Flow Rate of SPM (m³/min.) Average Flow Rate of Gases (lpm) Weather Conditions

Remark (if any)

Ambient Air

21/03/2024 To 22/03/2024 EPEPL (Mr. Chandan Sharma)

: 26/03/2024

: Canteen East Side In New Plant

: 24.0 Hrs. : SOP-AAQ/15

: 26/03/2024 To 30/03/2024

: 27.0 : 1.1

: 1.0 : Clear

NA

RESULTS

	KESOLIS								
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009				
1	Particulate Matter (PM10)	IS: 5182 (P-23)	79.6	µg/m³	100.0				
2	Particulate Matter (PM2.5)	IS: 5182 (P-24)	50.2	µg/m³	60.0				
3	Sulphur Dioxide (as SO ₂)	0S: 5182 (P-2)	11.3	µg/m³	80.0				
4	Nitrogen Dioxide (as NO ₂)	0S: 5182 (P-6)	28.5	µg/m³	80.0				
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.16	mg/m³	4.0				
6	Lead (as Pb)	IS: 5182 (P-22)	<0.1	μg/m³	1.0				
7	Nickel (as Ni)	IS: 5182 (P-26)	<15.0	ng/m³	20.0				
8	Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m³	6.0				
9	Ozone (as O ₃)	IS: 5182 (P-9)	<10.0	μg/m ³	180.0				
10	Ammonia (as NH ₃)	IS: 5182 (P-25)	<20.0	μg/m³	400.0				
11	Benzene (as C ₆ H ₆)	IS: 5182 (P-11)	<1.0	μg/m³	5.0				
12	Benzo(alpha) Pyrine-Particulate Phase Only	IS: 5182 (P-12)	<1.0	ng/m ³	1.0				

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.





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TEST REPORT

Ambient Air Quality Monitoring

Test Report No.: EKO/E-519/260324

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2, Sec - 14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

Sample Drawn on Sample Drawn by

Sample Received on

Sampling Location Sampling Time

Sampling Plan & Procedure

Analysis Duration

Ambient Temperature (°C) Average Flow Rate of SPM (m3/min.) Average Flow Rate of Gases (Ipm)

Weather Conditions Remark (if any)

: Ambient Air

22/03/2024 To 23/03/2024 ; EPEPL (Mr. Chandan Sharma)

: 26/03/2024

: SE Corner of Lead Plant

; 24.0 Hrs. : SOP-AAQ/15

26/03/2024 To 30/03/2024

: 1.1 1.0 Clear NA

RESULTS

	RESULTS								
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009				
1	Particulate Matter (PM10)	IS: 5182 (P-23)	83.6	μg/m³	100.0				
2	Particulate Matter (PM2.5)	IS: 5182 (P-24)	54.1	µg/m³	60.0				
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	12.30	µg/m³	80.0				
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	29.6	µg/m³	80.0				
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.05	mg/m ³	4.0				
6	Lead (as Pb)	IS: 5182 (P-22)	<0.1	µg/m³	1.0				
7	Nickel (as Ni)	IS: 5182 (P-26)	<15.0	ng/m³	20.0				
8	Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m³	6.0				
9	Ozone (as O ₃)	IS: 5182 (P-9)	<10.0	μg/m³	180.0				
10	Ammonia (as NH ₃)	IS: 5182 (P-25)	<20.0	µg/m³	400.0				
11	Benzene (as C ₆ H ₆)	IS: 5182 (P-11)	<1.0	µg/m³	5.0				
12	Benzo(alpha) Pyrine-Particulate Phase Only	IS: 5182 (P-12)	<1.0	ng/m ³	1.0				

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.

** End of Report **

EKONERO EMBINE

Office & Laboratory: 32/41, South Side of GT Road, UPSIDC Industrial Area, Ghaziabad (Delhi-NCR) Contact No: 97111159210, 9810240837, 9810240578 E-mail: email@ekopro in, ekoproengineers@gmail.com, Website: www.eRagge.if of 1 EKO TESTING LABS is Registered Trademark of EKO PRO ENGINEERS PVT LTD





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TEST REPORT

Noise Monitoring

Test Report No.: EKO/E-539/260324

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sector-14 IIE, Sidcul Pantnagar

Rudrapur - (Uttrakhand)

Sample Description

: Ambient Noise

Sample Drawn on

Issued To

: 22/03/2024

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

26/03/2024

Sampling Location

: Near Main Gate

Sampling Plan & Procedure

Near Main Gate

Weather Condition

: SOP-N/01 : Normal

Analysis Duration

: 26/03/2024 To 27/03/2024

Remark (if any)

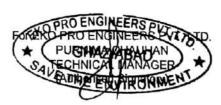
· N/A

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	16 - 0000	68.2	dB (A)	75.0
2	Leq (Night Time)	IS: 9989	61.3	dB (A)	70.0

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. Responsibility of the Laboratory is limited to the invoiced amount only.





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Competence | Quality | Service

TEST REPORT

Noise Monitoring

Test Report No.: EKO/E-537/260324

Issue Date: 30/03/2024

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sector-14 IIE, Sidcul Pantnagar Rudrapur - (Uttrakhand)

Sample Description

: Ambient Noise

Sample Drawn on

: 22/03/2024

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

: 26/03/2024

Sampling Location

: Near Compressor Area

Sampling Plan & Procedure

: SOP-N/01

Weather Condition

Normal

Analysis Duration

26/03/2024 To 27/03/2024

Remark (if any)

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	IS: 9989	73.1	dB (A)	75.0
2	Leq (Night Time)	15 . 9909	66.5	dB (A)	70.0

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3 Responsibility of the Laboratory is limited to the invoiced amount only.





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Competence | Quality | Service

TEST REPORT

Noise Monitoring

Test Report No.: EKO/E-540/260324

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sector-14 IIE, Sidcul Pantnagar Rudrapur - (Uttrakhand)

Sample Description

: Ambient Noise

Sample Drawn on

: 22/03/2024

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

: 26/03/2024

Sampling Location

: East Side of Canteen In New Plant

Sampling Plan & Procedure

: SOP-N/01

Weather Condition

: Normal

Analysis Duration

: 26/03/2024 To 27/03/2024

Remark (if any)

: NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	IS: 9989	67.1	dB (A)	75.0
2	Leq (Night Time)		55.9	dB (A)	70.0

Notes:

- The results given above are related to the tested sample, as received & mentioned parameters.
 The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. Responsibility of the Laboratory is limited to the invoiced amount only.





EKO TESTING LABS Eko Pro Engineers Pvt. Ltd.

Competence | Quality | Service

TEST REPORT

Noise Monitoring

Test Report No.: EKO/E-538/260324

: HINDUSTAN ZINC LIMITED

Issued To

Plot No. 2 Sector-14

IIE, Sidcul Pantnagar Rudrapur - (Uttrakhand)

Sample Description

: Ambient Noise

Sample Drawn on

22/03/2024

Sample Drawn by

EPEPL (Mr. Chandan Sharma)

Sample Received on

: 26/03/2024

Sampling Location

: Back Side of DG Area

Sampling Plan & Procedure

: SOP-N/01

Weather Condition

: Normal

Analysis Duration

: 26/03/2024 To 27/03/2024

Remark (if any)

: NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	110 - 0000	71.3	dB (A)	75.0
2	Leq (Night Time)	WS: 9989	65.8	dB (A)	70.0

Notes:

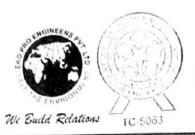
The results given above are related to the tested sample, as received & mentioned parameters.
 The customer asked for the above tests only.

- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report



Page 1 of 1



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TEST REPORT

Effluent Sample Analysis

Test Report No.: EKO/E-544/260324

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sec-14 IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description

: STP Outlet (Final Exit Point)

Sample Drawn on

22/03/2024

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

: 26/03/2024

Sampling Location

: From STP Plant

Sampling Plan & Procedure Sample Quantity : SOP-W/66

Environmental Condition

: 2.0 Litre : Normal

Analysis Duration

: 26/03/2024 To 30/03/2024

Remark (if any)

: NA

RESULTS

S. No.	Parameters	Test Method	Results	Units	Limits as per CPCB (EPR-1986 Schedule- VI Part-A)
1	pH	IS: 3025 (P-11)	7.18		5.5-9.0
2	Total Suspended Solids	IS: 3025 (P-17)	44.0	mg/l	100.0
3	COD (as O2)	IS: 3025 (P-58)	40.3	mg/l	250.0
4	BOD (@27°C for 3 days)	IS: 3025 (P-44)	14.0	mg/l	30.0
5	Total Nitrogen (as N)	APHA 4500 N	0.26	mg/l	100.0
6	Phosphate (as P)	IS: 3025 (P-31)	0.42	mg/l	5.0
7	Ammonical Nitrogen (as N)	APHA 4500 NH3	1.25	mg/l	50.0
8	Faecal Coliform	APHA 9221 E	120	MPN/100ml	1000.0

Notes

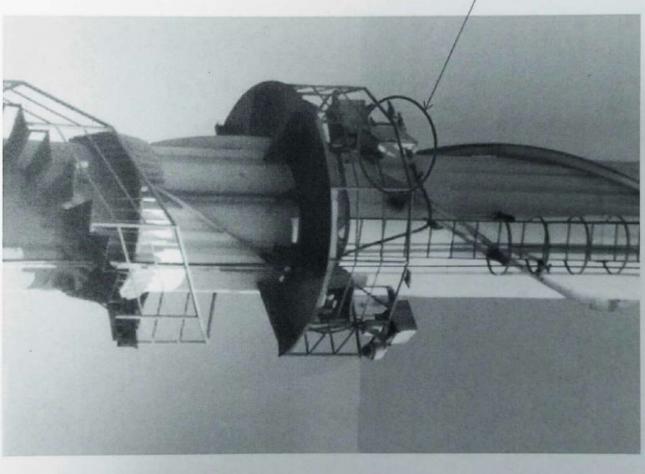
- The results given above are related to the tested sample, as received & mentioned parameters.
 The customer asked for the above tests only.
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- 3. The test samples will be disposed off after 15 days from the date of reporting of result, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.

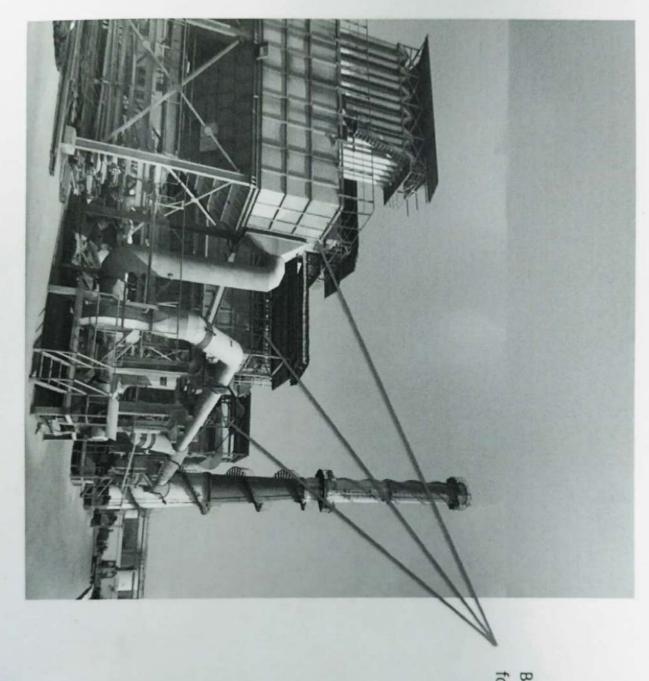
End of Report





Page 1 of 1

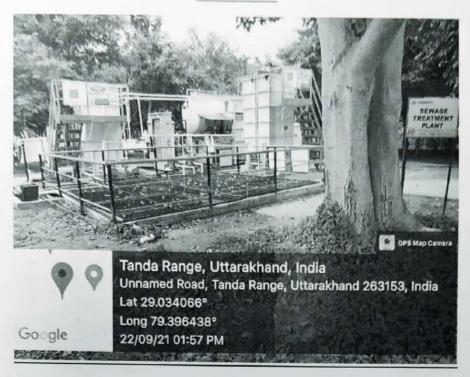




Bag filters arrangement for Hygiene ventilation

ANNEXURE-3

STP PLANT



ETP PLANT

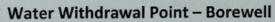


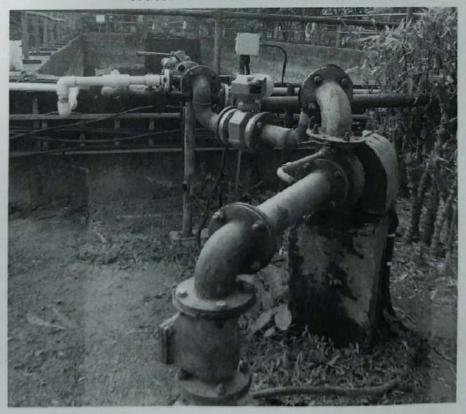
Page 1 of 2

PHOTOGRAPHS OF HAZARDOUS WASTE STORAGE YARD S. Name of the waste **Photographs** No. 1. Zinc Dross Storage Yard 2. **Lead Dross Storage Yard** अनाधकृत प्रवेश प्रतिशीपन **Used Oil Storage Yard** 3.

	Ground Water Withdra	awal FY 2023	-24
Month	Ground Water Withdrawal	UOM	Rain water utilization
Apr-23	2,584	Cu.m	1,945
May-23	2,377	Cu.m	2,907
Jun-23	4,449	Cu.m	312
Jul-23	2,098	Cu.m	781
Aug-23	1,089	Cu.m	2,886
Sep-23	873	Cu.m	2,968
Oct-23	1,848	Cu.m	2,282
Nov-23	2,378	Cu.m	869
Dec-23	3,306	Cu.m	0
Jan-24	3,036	Cu.m	0
Feb-24	3,432	Cu.m	0
Mar-24	4,108	Cu.m	0
Total	31,578	Cu.m	14,950

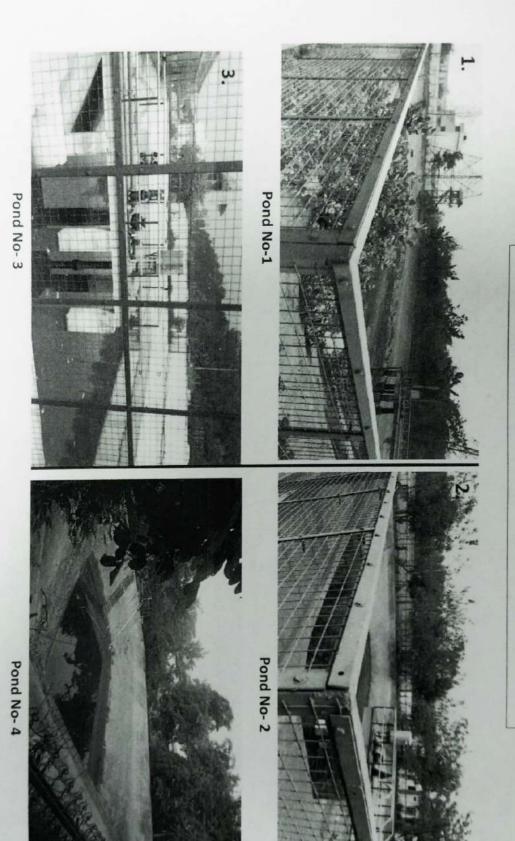
All reading recorded in cubic meter.





Sensitivity: Internal (C3)

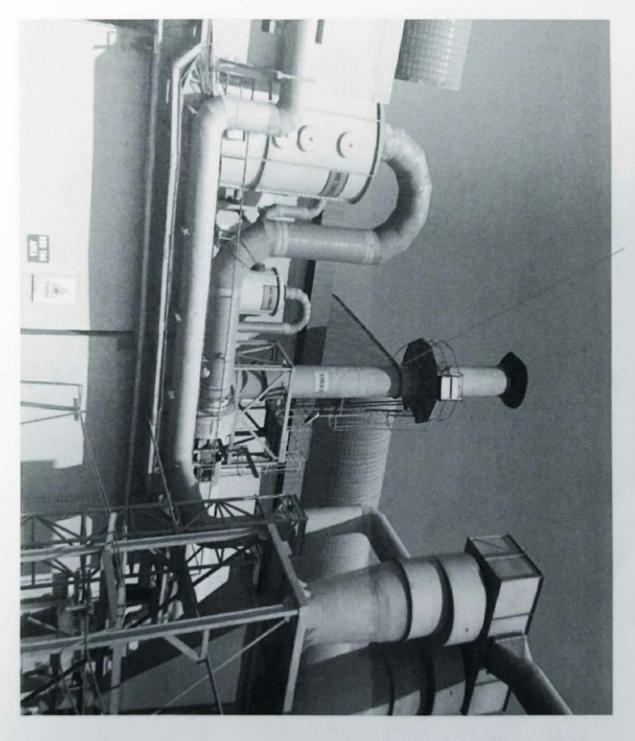
RAIN WATER STORAGE POND HZL- PANTNAGAR



Continued Internal Co.

Silver Process Stack





ANNEXURE-6

On-Going CSR Activities at PMP FY2023-24

Flag Ship Projects: Continuing in FY 23-24

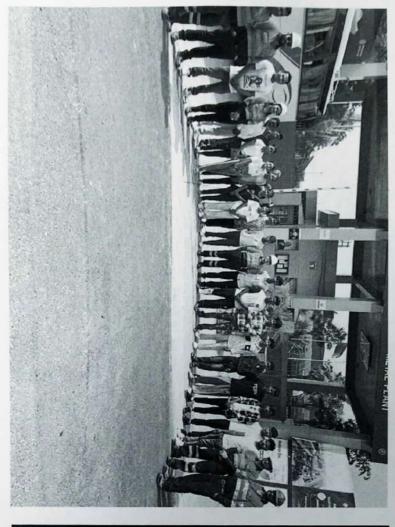
- Sakhi Project Strengthening Women Empowerment

Scanned with CamScanner

- Zinc Kaushal Providing skilling training to rural youth through Tata Motors Tata Strive Project ME – Providing Micro Enterprises support to SHG women for their sustainability
- 4. Deployment of Mobile health van for nearby community health care services

Other Activities:

- development from different school based at nearby community. 18 Nos. unprivileged children sent to Udaipur under summer camp initiative for career path
- Exco member visited to our production centre
- HZL CHRO visited Production centre and interacted with SHG women.
- One Girl studying in Unchi Udaan project from PMP got selection in IIT Guwahati, Assam.
- Micro Enterprises Thematic champion visited PMP production centre and pickle unit.
- Occasion Blood Donation camp conducted by HR department. 100 donors donated Blood on this
- E booklet made of Jeevan Tarang students was launched by UH.





path development from different school based at nearby community Youth Skill Development Program- 18 Nos. unprivileged children sent to Udaipur under summer camp initiative for career

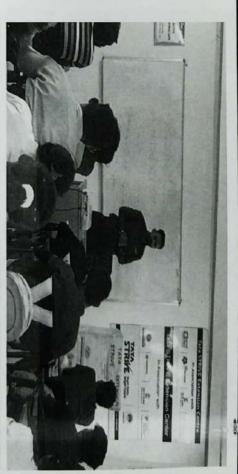
sitivity: Internal (C3)



(Sakhi) was implementing through Manjari Foundation. Started in the year 2017 and continuing. Women Empowerment- Strengthening of Self-Help Group by 33 villages and covered around 3000+ families. This project



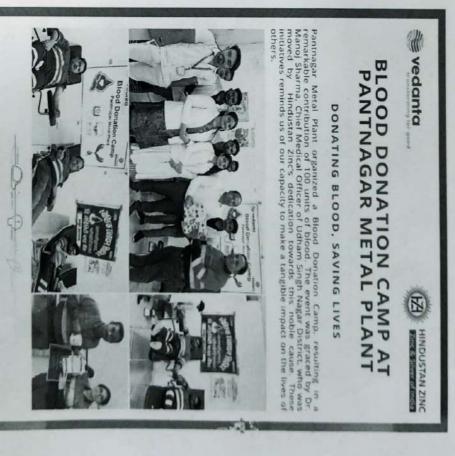












Health & Sanitation- Deployment of Mobile health van for nearby community health care facilities, Blood Donation camp organized at location in consultation with CMO, US Nagar, Organized Run. for Zero Hunger Campaign for meals to unprivileged children's

8