



Date: 10/05/2029

Vide Letter No.: HZLP/SRP/21-22/H-2

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-2021 to March-2022.

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-2021 to March-2022.

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

Thanking you. Yours faithfully,

(Himanshu Chhabra) Hindustan Zinc Limited
SBU Director PAOL NO 2833 Spector 14, IIE. 910CUL. Reservers 2821 Control I Househouse. Pantnagar Silver Reffrery Plant

Hindustan Zinc Limited

CC:

1. Member Secretory, SEIAA, Dehradun

2. MS office, UEPPCB, Dehradun

3. Regional Officer, UEPPCB, Kashipur

4. Office copy, HZL

Hindustan Zinc Limited

Pantnagar Metal Plant Plot No. 2 & 3, Sector 14, IIE, SIDCUL Pantnagar 2: 05944-257300, www.hzlindia.com

Regd. Office: Yashad Bhawan, Udaipur [Rajasthan] - 313 004 CIN: L27204RJ1966PLC001208

Compliance Report of Environment Clearance (October-2021 to March-2022)

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)

Period of Compliance Report: October-2021 to March-2022

S. N.	Specifications	Status		
	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.	l letter was received on 08.02.2019. It was advertised in two local newspapers i.e. Amar Ujal & 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 date 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.	submitted to the Zila Panchyat office Udham Sin Nagar (Rudrapur) on date 11.02.2019. Receivi		
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 til 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 (powder/ingot etc.) product, Antimony Concentrate(precipitate/salt mix)- 1800TPA, Bismuth	Noted and Being complied.		

	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 byproducts. 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 along 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 PM analysers in all process stacks, SOx, NOx & PM analyser in DG stacks installed for effective monitoring & control the

		emissions. Photos of the analysers are attached as Annexure 2.
7	Fugitive emissions in the work zone environment, product and raw materials storage areas shall be regularly monitored. The emissions shall conform to the limits imposed by the UEPPCB/Central Pollution Control Board.	Hygiene ventilation systems have been installed to arrest fugitive emissions. Work zone monitoring is being done monthly, In the Raw material handling, process and finished good 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).
8	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storages and Import of Hazardous Chemicals Rules, 1989, as amended from time to time. Authorization from the UEPPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	Appropriate storage facilities have been installed for storing Hazardous chemicals/wastes. Authorization of Hazardous waste under Hazardous Waste Rules 2008 has been granted by UKPCB along with CCA and present CCA 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.
9	Installed furnace should meet the air pollution discharge norms of CPCB/ UEPPCB.	Installed furnaces have equipped with adequate and 99.5% efficient bag filter to ensure the air pollution discharge norms as per CPCB/UEPPCB.
10	The ambient air quality and noise levels as per CPCB norms shall be ensured through a monitoring system. Dust Suppression during construction activity shall be ensured. Acoustic enclosures shall be provided with DG sets on site complying with Noise Levels of CPCB standards.	The ambient air quality and noise levels as per CPCB norms are being ensured through monthly monitoring through NABL certified lab. Acoustic enclosures provided with DG sets on site complying with Noise Levels of CPCB standards Test reports are being attached herewith as Annexure 1(d).
11	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).
12	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.
13	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.
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 or Safety and health aspects are being provided or 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 rain water collection having capacity approx. 2542, 1500, 841 and 750 cu.m and collected rainwater is being utilized into the process. In FY 2021-22 we have reused around 23,166 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 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) (daytime) 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, flowerpots 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/20-21/H-II dated 31.05.2021. Six monthly compliance reports are being uploaded on company website. Link of website uploading EC compliance of April'2021 to Sept'2021 is https://www.hzlindia.com/wp-content/uploads/EC-Compliance-Report-Silver-plant H1 2021-22.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.
3	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.
4	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 or Safety and health aspects are being provided or 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	Environment protection measures and safeguards recommended in the EIA/EMP report being implemented.

	management and risk mitigation measures relating to the project shall be implemented.	
6	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.
7	Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and other particles.	Complied. Presently We have four rainwater harvesting pond for rain water collection having capacity approx. 2542, 1500, 841 and 750 cu.m and collected rainwater is being utilized into the process. In FY 2021-22, we have reused around 23,166 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.
10	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.
12	If this Environmental Clearance is transferred, then fresh 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.	Noted.
13	Corporate Environment Responsibility be followed as proposed.	Continuous Corporate Environment Responsibility is being carried out through various project planned in the financial year 2021-22 along with CSR program. Report submitted on CER activities along with CSI on 31.01.2020. CER & CSR projects details are attached herewith as Annexure 6.





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, Chazastad - 201 009 (Delhi-NCR) INDIA. Contact No.: 9711159210, 9810240837, 9610240878 E-mail: small@ekopro.in, ekoprosing/searching/searching

TEST REPORT

Water Sample Analysis

Test Report No. : EKO/144/280322-A Issued To

: HINDUSTAN ZINC LIMITED.

Plot No. 2 Sec-14

IIE, Sidcul Pantnagar

Rudrapur - Uttrakhand

Sample Description Sample Drawn on : Ground Water

Sample Drawn by

: 26/03/2022 : EPEPL (Mr. Harish Kumar)

Sample Received on

: 28/03/2022

Sampling Location

: From Borewell

Sampling Plan & Procedure

: SOP-W/66

Sample Quantity

: 3.0 Litre

Environmental Conditions

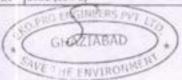
: Normal : 28/03/2022 To 01/04/2022

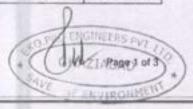
Analysis Duration Remark (if any)

- NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per IS:10500-2012 (Amd.No.3 Feb-2021)	
					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)	7.38	-	6.5-8.5	No relaxation
6	Total Hardness (as CaCO ₃)	IS: 3025 (P-21)	142.0	mg/L	200.0	600.0
7	Calcium (as Ca)	IS: 3025 (P-40)	34.07	mg/L	75.0	200.0
8	Iron (as Fe)	EKO/CHEM/SOP-ICPMS/W-01	< 0.005	mg/L	1.0	No relaxation
9	Chloride (as CI)	IS: 3025 (P-32)	34.5	mg/L	250.0	1000.0
10	Sodium (as Na)	APHA 3500-Na	11.8	mg/L	1040	-
11	Potassium (as K)	IS 3025 (Part-45)	<1.0	mg/L		
12	Chloramines (as Cl ₂)	IS: 3025 (P-26)	<1.0	mg/L	4.0	No relaxation
13	Fluoride (as F)	IS: 3025 (P-60)	< 1.0	mg/L	1.0	1.5
14	Total Dissolved Solids	IS: 3025 (P-16)	340.0	mg/L	500.0	2,000.0
15	Magnesium (as Mg)	IS: 3025 (P-45)	13.9	mg/L	30.0	100.0
16	Copper (as Cu)	EKO/CHEM/SOP-ICPMS/W-01	< 0.005	mg/L	0.05	1.5
17	Manganese (as Mn)	EKO/CHEM/SOP-ICPMS/W-01	< 0.005	mg/L	0.1	0.3
18	Sulphate (as SO ₄)	IS: 3025 (P-24)	30.4	mg/L	200.0	400.0
19	Nitrate (as NO ₃)	IS: 3025 (P-34)	1.18	mg/L	45.0	No relaxation
20	Phenolic Compounds (as C6H5OH)	IS: 3025 (P-43)	< 0.001	mg/L	0.001	0.002
21	Mercury (as Hg)	EKO/CHEM/SOP-ICPMS/W-01	< 0.001	mg/L	0.001	No relaxation
22	Selenium (as Se)	EKO/CHEM/SOP-ICPMS/W-01	< 0.005	mg/L	0.01	No relaxation
23	Arsenic (as As)	EKO/CHEM/SOP-ICPMS/W-01	< 0.005	mg/L	0.01	No relaxation
24	Cyanide (as CN)	APHA 4500 CN-K	Absent	mg/L	0.05	No relaxation
25	Lead (as Pb)	EKO/CHEM/SOP-ICPMS/W-01	< 0.005	mg/L	0.01	No relaxation





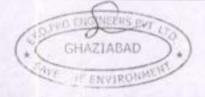


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Test	Report No. : EKO/144/280322-A				Issue	Date: 01/04/2022
26	Zinc (as Zn)	EKO/CHEM/SOP-ICPMS/W-01	< 0.01	mg/L	5.0	15.0
27	Barium (as Ba)	EKO/CHEM/SOP-ICPMS/W-01	< 0.01	mg/L	0.7	No relaxation
28	Mineral Oil	IS: 3025 (P-39)	ND (LOQ-0.1)	mg/L	1.0	No relaxation
29	Ammonia (as Total Ammonia-N)	IS: 3025 (P-34)	< 0.1	mg/L	0.5	No relaxation
30	Silver (as Ag)	EKO/CHEW/SOP-ICPMS/W-01	< 0.005	mg/L	0.1	No relaxation
31	Total Chromium (as Cr)	EKO/CHEW/SOP-ICPMS/W-01	< 0.005	mg/L	0.05	No relaxation
32	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23)	134.0	mg/L	200.0	600.0
33	Aluminium (as Al)	EKO/CHEM/SOP-ICPMS/W-01	< 0.005	mg/L	0.03	0.2
34	Boron (as B)	IS: 3025 (P-57)	< 0.25	mg/L	0.5	2.4
35	Cadmium (as Cd)	EKO/CHEM/SOP-ICPMS/W-01	< 0.001	mg/L	0.003	No relaxation
36	Anionic Detergents (as MBAS)	APHA 5540	<0.1	mg/L	0.2	1.0
37	Sulphide (as H ₂ S)	IS: 3025 (P-29)	< 0.05	mg/L	0.05	No relaxation
38	Molybdenum (as Mo)	EKO/CHEM/SOP-ICPMS/W-01	< 0.005	mg/L	0.07	No relaxation
39	Nickel (as Ni)	EKO/CHEM/SOP-ICPMS/W-01	< 0.005	mg/L	0.02	No relaxation
40	Polychlorinated biphenyls (PCB)	EKO/CHEM/SOP-GCMSMS/W-02	ND (LOQ-0.00001)	1000	0.0005	No relaxation
41	Polycyclic aromatic hydrocarbons (PAH)	EKO/CHEM/SOP-GCMSMS/W-03	ND (LOQ-0.00001)	mg/L	0.0001	No relaxation
42	Atrazine		ND (LOQ-0.01)	µg/l	2.0	No relaxation
43	Alachlor		ND (LOQ-0.01)	µg/l	20.0	No relaxation
44	Aldrin/Dieldrin		ND (LOQ-0.01)	рул	0.03	No relaxation
45	Alpha HCH		ND (LOQ-0.01)	ид/1	0.01	No relaxation
46	Beta HCH	100	ND (LOQ-0.01)	µg/l	0.04	No relaxation
47	Butachlor		ND (LOQ-0.01)	µg/l	125.0	No relaxation
48	Chlorpyriphos		ND (LOQ-0.01)	µg/l	30.0	No relaxation
49	Delta HCH		ND (LOQ-0.01)	µg/l	0.04	No relaxation
50	DDT(o,p and p,p-Isomers of DDT,DDE and DDD	EKO/CHEM/SOP-GCMSMS/W-01	ND (LOQ-0.01)	µg/l	1.0	No relaxation
51	Endosulfan (Alpha,Beta & Sulphate)		ND (LOQ-0.01)	ир/Г	0.4	No relaxation
52	Ethion		ND (LOQ-0.01)	µg/l	3.0	No relaxation
53	Gamma-HCH (Lindane)		ND (LOQ-0.01)	µg/l	2.0	No relaxation
54	Malathion		ND (LOQ-0.01)	µg/l	190.0	No relaxation
55.	Methyl parathion		ND (LOQ-0.01)	µg/t	0.3	No relaxation
56	Monocrotophos		ND (LOQ-0.01)	pg/l	1.0	No relaxation
57	Phorate		ND (LOQ-0.01)	рул	2.0	No relaxation
58	2,4 Dichlorophenoxyacetic acid		ND (LOQ-0.01)	при	30.0	No relaxation
59	Isoproturon	EKO/CHEM/SOP-LCMS/W-01	ND (LOQ-0.01)	ид/!	9.0	No relaxation
60	Bromoform	APHA 6232	< 0.05	mg/L	0.1	No relaxation
61	Dibromochloromethane	APHA 6232	< 0.05	mg/L	0.1	No relaxation
62	Bromodichloromethane	APHA 6232	< 0.05	mg/L	0.06	
-	Chloroform	APHA 6232	< 0.05		0.2	No relaxation
97	Total Coliform	IS: 1622	Absent	mg/L MPN/100ml	Should be Absent	No relaxation No relaxation
55	E.coli	IS: 1622	Absent	Per 100mL	Should be Absent	No relaxation







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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 (Delbi-NCR) INDIA Contact No.: 9711159210, 9810240837, 9810240678 E-mail: email@ekopro.in. ekoproengineers@gmail.com, website: www.ekopro.in.

Test Report No.: EKO/144/280322-A

For EKO PRO BNGINEERS PVT, LTD.

SHIVANGI SINGH RAIZADA SECTION INCHARGE MICROBIOLOG

(Authorised Signatory)

Remark:- Standard Applicable only for Drinking Water.

- 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.
- 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.

"End of Report"

FOR EKO PRO ENGINEERS PVT, LTL PURNIMA CHAUHAN

TECHNICAL MANAGER (Authorised Signatory)

Page 3 of 3

Issue Date: 02/11/2021



EKO PRO ENGINEERS PV

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

Office & Laboratory: 32/41, South Side of G. T. Road, UPSIDG Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA.

TEST REPORT

Soil Sample Analysis

Test Report No.: EKO/129/291021

Issued To : HINDUSTAN ZINC LIMITED

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

Sample Description

: Soil Sample Sample Drawn on : 27/10/2021

Sample Drawn by

Sample Received on 29/10/2021 Sampling Location From Plot No.1 Sampling Plan & Procedure SOP-S/50 Sample Quantity 500 gm

Environmental Condition Normal Analysis Duration 29/10/2021 To 02/11/2021

Remark (if any)

RESULTS

EPEPL (Mr. Chandan Sharma)

S. No.	Parameters	Test Methods	Results	Units
1	pH (1:2.5 Suspension)	IS: 2720 (P-26)	7.26	
2	Conductivity (1:5 Susp.)	IS: 2720 (P-21)	518.1	µs/cm
3	Sodium Available (as Na)	EKO/CHEM/SOP/S-04	278.3	mg/kg
4	Potassium Available (as K)	EKO/CHEM/SOP/S-02	314.8	mg/kg
5	Bulk Density	EKO/CHEM/SOP/S-12	1.61	gm/cc
6	Chloride (as CI)	EKO/CHEM/SOP/S-01	130.8	mg/kg
7	Phosphorus (as P)	EKO/CHEM/SOP/S-03	75.3	mg/kg
8	Total Kjehldal Nitrogen	EKO/CHEM/SOP/S-07	1450.1	mg/kg
9	Zinc (as Zn)	USEPA-SW 846 7130	17.8	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)	0.58	%
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:

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

"End of Report"

FOR EKO PROLENGINEERS PUT, LTD. PURNING CHAUHAN ECHNICAL MANAGER (Authorised Signatory)

Issue Date : 02/11/2021



EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory
(An ISO 8001:2015 Certified Company)

Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA. Contact No. 9818405427, 9810240678, 8826344487 E-mail: email@ekopro.in. ekoproengineers@gmail.com, website: www.ekopro.in.

TEST REPORT

Soil Sample Analysis

Test Report No.: EKO/128/291021

: HINDUSTAN ZINC LIMITED

Issued To

Plot No. 2 Sector -14 IIE, Sidcul Pantnagar

Rudrapur - (Uttrakhand)

Sample Description

Soil Sample

Sample Drawn on

27/10/2021

Sample Drawn by

EPEPL (Mr. Chandan Sharma)

Sample Received on

29/10/2021

Sampling Location

From Front of Contractor Canteen

Sampling Plan & Procedure

SOP-S/50

Sample Quantity

500 gm

Environmental Condition

Normal

Analysis Duration

29/10/2021 To 02/11/2021

Remark (if any)

: NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units
1	pH (1:2.5 Suspension)	IS: 2720 (P-26)	7.48	
2	Conductivity (1:5 Susp.)	IS: 2720 (P-21)	537.3	µs/cm
3	Sodium Available (as Na)	EKO/CHEM/SOP/S-04	275.4	mg/kg
4	Potassium Available (as K)	EKO/CHEM/SOP/S-02	284.3	mg/kg
5	Bulk Density	EKO/CHEM/SOP/S-12	1.65	g/c3
6	Chloride (as Cl)	EKO/CHEM/SOP/S-01	184.9	mg/kg
7	Phosphorus (as P)	EKO/CHEM/SOP/S-03	85.3	mg/kg
8	Total Kjehldal Nitrogen	EKO/CHEM/SOP/S-07	1568.1	mg/kg
9	Zinc (as Zn)	USEPA-SW 846 7130	20.8	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)	0.58	%
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	320.0	mg/kg

Notes:

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

"End of Report"

FOR EKO PRO ENGINEERS PUT LTD.

PURNIMA CHALIHAN

TECHNICALMANAGER

(Althorised Significan)

Issue Date: 02/11/2021



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

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E-mail: email: email: ekopro in, ekopro ingeneral

TEST REPORT

Soil Sample Analysis

Test Report No. : EKO/127/291021

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description

Soil Sample

Sample Drawn on

27/10/2021,

Sample Drawn by

EPEPL (Mr. Chandan Sharma)

Sample Received on

29/10/2021

Sampling Location

From Back Side of Training Centre

Sampling Plan & Procedure

SOP-S/50

Sample Quantity

500 gm

Environmental Condition

Normal

Analysis Duration Remark (if any) 29/10/2021 To 02/11/2021

NA.

RESULTS

S. No.	Parameters	Test Methods	Results	Units
1	pH (1:2.5 Suspension)	IS: 2720 (P-26)	7.38	
2	Conductivity (1:5 Susp.)	IS: 2720 (P-21)	550.6	µs/cm
3	Sodium Available (as Na)	EKO/CHEM/SOP/S-04	568.3	mg/kg
4	Potassium Available (as K)	EKO/CHEM/SOP/S-02	290.8	mg/kg
5	Bulk Density	EKO/CHEM/SOP/S-12	1.47	gm/cc
6	Chloride (as CI)	EKO/CHEM/SOP/S-01	198.3	mg/kg
7	Phosphorus (as P)	EKO/CHEM/SOP/S-03	87.1	mg/kg
8	Total Kjehldal Nitrogen	EKO/CHEM/SOP/S-07	1570.3	mg/kg
9	Zinc (as Zn)	USEPA-SW 846 7130	18.4	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)	0.62	%
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	298.0	mg/kg

Notes:

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 The customer asked for the above tests only.
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- 5. Responsibility of the Laboratory is limited to the invoiced amount only.

"End of Report"

PURNISH CHAUHAN
TECHNICAL MANAGER
(Authorised Signatory)

Contact: +91 - 9810243870



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



Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghazabed - 201 009 (Delhi-NCR) INDIA. Contact No.: 9818405427, 9810240678, 8826344487 E-mail: email@ekopro.in, ekoproengineers@gmail.com, website: www.ekopro.in

	TEST REPORT	
	Stack Emission Analysis	
Test Report No. : EKO/122/280322 Issued To	: HINDUSTAN ZINC LIMITED Plot No. 2 Sector -14 IIE, Sidcul Pantnagar Rudrapur - (Uttrakhand)	Issue Date : 01/04/2022
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)	: Stack Emission : 24/03/2022 : EPEPL (Mr. Harish Kumar) : 28/03/2022 : 30.0 : NA : SOP-SE/09 : 28/03/2022 To 01/04/2022 : 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 : 21.8 : 23.3 : HSD : 200.0 lph : 31.0 : 155.0 : 7.4 : 18.5 : Nil	

RESULTS

: Sampling Instrument Used-Stack Monitoring kit APM-610

S. No.	Parameters	Test Methods	Results	Units	Limits as per EPA-1986 Schedule -VI Part-D
1	Particulate Matter (as PM)	IS: 11255 (P-1)	31.6	mg/Nm ³	150.0
2	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	11.42	mg/Nm ³	
3	Oxide of Nitrogen (as NOx)	IS: 11255 (P-7)	54.6	mg/Nm ³	-
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
6	Total Hydrocarbon (as HC)	IS: 5182 (P-17)	ND	mg/Nm ³	
7	Total VOC	IS: 5182 (P-11)	ND	mg/Nm ³	-

Remark (if any)

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

" End of Report "

FOR END PRO ENGINEERS PYT LTD. PURNIMAIGHANHAN DECHNICAL MANAGER (Authorised Signatory)

€KO PRO



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Environmental Consultants and Analytical Laboratory
(An ISO 9801:2015 Certified Company)

Office & Laboratory: 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghazashad - 201 009 (Delhi-NCR) INDIA. Contact No.: 9818405427, 9810240678, 8826344487. E-mail: email@ekopro.in. ekoproungineers@gmail.com, website: www.ekopro.in.

TEST REPORT

	TEST REPORT
	Stack Emission Analysis
Test Report No. : EKO/123/280322 Issued To	: HINDUSTAN ZINC LIMITED Plot No. 2 Sector -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 : 25/03/2022 : EPEPL (Mr. Harish Kumar) : 28/03/2022 : 30.0 : NA : SOP-SE/09 : 28/03/2022 To 01/04/2022 : Stack Attached To Nox Scrubber : - : Normal : Batch Wise (3 Shift) : Metalic & PP Lining : 1.1 at top : 20.0 : 1.8 : 17.3 : - : 31.0 : 78.0 : 7.4 : 18.5 : Nox Scrubber : Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per EPA-1986 Schedule -VI Part-D
1	Particulate Matter (as PM)	IS: 11255 (P-1)	31.7	mg/Nm ³	150.0
2	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	12.81	mg/Nm ³	-
3	Oxide of Nitrogen (as NOx)	IS: 11255 (P-7)	62.7	mg/Nm ³	-
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
6	Total Hydrocarbon (as HC)	IS: 5182 (P-17)	ND	mg/Nm ³	-
7	Total VOC	IS: 5182 (P-11)	ND	mg/Nm ³	

Notes

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

" End of Report "

FOR EKO PRO ENGINEERS PVT. LTD.
PLIRNIMA CHALLIAN
TECHNICAL MANAGER
THE ENVIRONMENT PORT TOTAL





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: small@ukopro.in, ekoproengineers@gmail.com, website: www.ekopro.in

TEST REPORT

Workzone Air Quality Monitoring

Test Report No.: EKO/129/280322

Issued To : HINDUSTAN ZINC LIMITED.

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

Sample Description : Workzone Air Sample Drawn on : 24/03/2022

Sample Drawn by : EPEPL (Mr. Harish Kumar)

Sample Received on : 28/03/2022

Sampling Location : Silver Plant Hydro Top Floor

Sampling Plan & Procedure : SOP-AAQ/15

Analysis Duration : 28/03/2022 To 01/04/2022

Sampling Time : 08 Hrs.
Ambient Temperature (*C) : 26.0
Average Flow Rate of SPM (m³/min) : 1.8
Average Flow Rate of Gases (lpm) : 1.8
Weather Condition : Clear

Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Permissible Limits
1	SPM	IS: 5182 (P-4)	0.692	mg/m ³	15.0 as per OSHA
2	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	0.008	mg/m²	5.0 as per Factories Act, 1948
3	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	0.019	mg/m ²	6.0 as per Factories Act. 1948
4	Lead (as Pb)	EKO/CHEM/SOP/AAQ- 02	< 0.1	mg/m²	0.15 as per Factories Act, 1948
5	Zinc (as Zn)	EKO/CHEM/SOP/AAQ- 02	< 0.1	mg/m ³	

Notes:

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 The customer asked for the above tests only.
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- 5. Responsibility of the Laboratory is limited to the invoiced amount only.

"End of Report"

FOR EKO PRO EN ENEERS PVI LTO

TECHNICAL MANAGER
(Authorised Signatory)



EKO PRO ENGINEERS PV

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

Workzone Air Quality Monitoring

Test Report No.: EKO/130/280322

: HINDUSTAN ZINC LIMITED.

Issued To

Plot No. 2 Sec-14 IIE, Sidcul Pantnagar

Rudrapur - Uttrakhand

Sample Description

: Workzone Air

Sample Drawn on

: 25/03/2022

Sample Drawn by

: EPEPL (Mr. Harish Kumar)

Sample Received on

: 28/03/2022

Sampling Location

: Bag Filter Area Silver Plant

Sampling Plan & Procedure

: SOP-AAQ/15

Analysis Duration

28/03/2022 To 01/04/2022

Sampling Time

08 Hrs.

26.0

Ambient Temperature (°C)

: 1.85

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

: 1.85

Weather Condition

: Clear

Remark (if any)

NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Permissible Limits
1	SPM	IS: 5182 (P-4)	0.784	mg/m ³	15.0 as per OSHA
2	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	0.011	mg/m³	5.0 as per Factories Act. 1948
3	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	0.018	mg/m ³	6.0 as per Factories Act 1948
4	Lead (as Pb)	EKO/CHEM/SOP/AAQ- 02	< 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:

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- The customer asked for the above tests only.
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- 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"

FOR EKO PRO ENGINEERS PVI, LTD. PURMMACHALHAN

YECHNIGAL MANAGER (Authorised Signatory)



EKO PRO ENGINEERS PVT.

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 - 201 809 (Delhi-NCR) INDIA. Contact No.: 9711159210, 9810240837, 9810240678. E-mail: email@ekopro.in, ekoproengineers@gmail.com, website: www.ekopro.in

TEST REPORT

Workzone Air Quality Monitoring

Test Report No.: EKO/131/280322

: HINDUSTAN ZINC LIMITED.

Issued To

Plot No. 2 Sec-14 IIE, Sidcul Pantnagar

Rudrapur - Uttrakhand

Sample Description

Workzone Air

Sample Drawn on

25/03/2022

Sample Drawn by

EPEPL (Mr. Harish Kumar)

Sample Received on

: 28/03/2022

Sampling Location

Furnace Area In Sliver Floor

Sampling Plan & Procedure

SOP-AAQ/15

Analysis Duration

28/03/2022 To 01/04/2022

Sampling Time

08 Hrs.

26.0

Ambient Temperature (*C)

1.65

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

1.65

Weather Condition

: Clear

Remark (if any)

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Permissible Limits
1	SPM	IS: 5182 (P-4)	0.811	mg/m ³	. 15.0 as per OSHA
2	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	0.009	mg/m ²	5.0 as per Factories Act, 1948
3	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	0.023	mg/m ²	6.0 as per Factories Act, 1948
4	Lead (as Pb)	EKO/CHEM/SOP/AAQ- 02	< 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:

- 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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- The test report will not be used for any publicity/legal purpose.
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- Responsibility of the Laboratory is limited to the invoiced amount only.

"End of Report"

FOR EKO PRO ENGINEERS PVI, LTD. PURNINAL MANAGER (Authorised Signatory)





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 - 201 609 (Delhi-NCR) INDIA. Contact No. 9711159210, 9810240837, 9810240678 E-road email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT

Ambient Air Quality Monitoring

Test Report No. : EKO/115/280322 Issue Date : 01/04/2022

Issued To : HINDUSTAN ZINC LIMITED
Plot No. 2, Sec - 14

IIE, Sidcul Pantnagar Rudrapur - Uttrakhand

Sample Description : Ambient Air

Sample Drawn on : 24/03/2022 To 25/03/2022 Sample Drawn by : EPEPL (Mr. Harish Kumar)

Sample Received on : 28/03/2022

Sampling Location : Near Main Gate/Security

Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15

Analysis Duration : 28/03/2022 To 01/04/2022

Arnbient Temperature (°C) : 31.0

Average Flow Rate of SPM (m³/min.) : 1.1

Average Flow Rate of Gases (lpm) : 1.0

Weather Conditions : Clear

Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	80.4	µg/m³	100.0
2	Particulate Matter (PM2.5)	EK0/CHEM/SOP/AAQ-01	46.8	µg/m³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	14.7	µg/m³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	34.1	µg/m³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.19	mg/m³	4.0
6	Lead (as Pb)	IS: 5182 (P-22)	<0.1	µg/m³	1.0
7	Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<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)	APHA Method 401	<20.0	µg/m³	400.0
11	Benzene (as C ₀ 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 ^a	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.
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5. Responsibility of the Laboratory is limited to the invoiced amount only.

** End of Report **

FOR EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHANHAN
TECHNICAL MANAGER
(Authorised Signatury)

Contact: +91 - 9810243870

Issue Date: 01/04/2022

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, Ghaziabed - 201 009 (Delbi-NCR) INDIA. Contact No. 9711159210, 9810240837, 9810240678 E-mail: email@ekopro.in. ekoproengineers@gmail.com_website: www.ekopro.in

TEST REPORT

Ambient Air Quality Monitoring

Test Report No. : EKO/114/280322

Issued To : HINDUSTAN ZINC LIMITED

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

Sample Description : Ambient Air

Sample Drawn on : 24/03/2022 To 25/03/2022 Sample Drawn by : EPEPL (Mr. Harish Kumar)

Sample Received on : 28/03/2022

Sampling Location : SE Corner of Lead Plant

Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15

Analysis Duration : 28/03/2022 To 01/04/2022

Ambient Temperature (*C) : 31.0

Average Flow Rate of SPM (m³/min.) : 1,1

Average Flow Rate of Gases (lpm) : 1.0

Weather Conditions : Clear

Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	74.8	µg/m³	100.0
2	Particulate Matter (PM2.5)	EK0/CHEM/SOP/AAQ-01	46.1	µg/m³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	13.7	µg/m³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	28.9	pg/m ³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.18	mg/m ³	4.0
6	Lead (as Pb)	IS: 5182 (P-22)	<0.1	µg/m²	1.0
7	Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<15.0	ng/m ³	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)	APHA Method 401	<20.0	µg/m³	400.0
11	Benzene (as C _s H _s)	IS: 5182 (P-11)	<1.0	µg/m²	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.
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5. Responsibility of the Laboratory is limited to the invoiced amount only.

" End of Report "

For EKO PRO ENGINEERS PVT LTD.

PURNIMA CHAUHAN

TSCHNICAL MANAGER

Authorised Signatory



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 Ambient Air Quality Monitoring

Test Report No. : EKO/113/280322 Issued To	: HINDUSTAN ZINC LIMITED Plot No. 2, Sec - 14 IIE, Sidcul Pantnagar Rüdrapur - Uttrakhand	Issue Date : 01/04/2022
Sample Description	: Ambient Air	
Sample Drawn on	: 24/03/2022 To 25/03/2022	
Sample Drawn by	: EPEPL (Mr. Harish Kumar)	
Sample Received on	: 28/03/2022	
Sampling Location	: Back Side of DG Area	

Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15

Analysis Duration : 28/03/2022 To 01/04/2022

Amblent Temperature (°C) : 31.0

Average Flow Rate of SPM (m³/min.) : 1.1

Average Flow Rate of Gases (lpm) : 1.0

Weather Conditions : Clear

Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	83.8	µg/m²	100.0
2	Particulate Matter (PM2.5)	EK0/CHEM/SOP/AAQ-01	50.4	µg/m³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	13.9	µg/m³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	32.7	µg/m³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.24	mg/m³	4.0
6	Lead (as Pb)	IS: 5182 (P-22)	<0.1	µg/m³	1.0
7	Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<15.0	ng/m³	20.0
8	Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m ³	6.0
9	Ozone (as O ₃)	IS: 5182 (P-9)	<10.0	µg/m³	180.0
10	Ammonia (as NH ₃)	APHA Method 401	<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.

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

" End of Report "

FOR EKO FRO ENGINEERS PVT LTD.
PURNIMA CHALHAN
TECHNICAL MANAGER
(Abthorised Signatory)



EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory
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TEST REPORT

Ambient Air Quality Monitoring

Test Report No. : EKO/116/280322

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description : Ambient Air

Sample Drawn on : 24/03/2022 To 25/03/2022 Sample Drawn by : EPEPL (Mr. Harish Kumar)

Sample Received on : 28/03/2022

Sampling Location : Canteen East Side In New Plant

Sampling Time : 24.0 Hrs.
Sampling Plan & Procedure : SOP-AAQ/15

Analysis Duration : 28/03/2022 To 01/04/2022

Ambient Temperature (°C) : 31.0

Average Flow Rate of SPM (m³/min.) : 1.1

Average Flow Rate of Gases (lpm) : 1.0

Weather Conditions : Clear

Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	82.4	µg/m³	100.0
2	Particulate Matter (PM2.5)	EK0/CHEM/SOP/AAQ-01	46.1	µg/m³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	15.1	µg/m²	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	32.4	µg/m³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.14	mg/m ³	4.0
6	Lead (as Pb)	IS: 5182 (P-22)	<0.1	µg/m ³	1.0
7	Nickel (as Ni)	EK0/CHEM/SOP/AAQ-02	<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)	APHA Method 401	<20.0	pg/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.

3. The test report will not be used for any publicity.

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 **

For EKO PRO ENGINEERS PVT. LTD.
PURNIMA CHAUHAN
TESHNICAL MANAGER

(Authorised Signatory)



EKO PRO ENGINEERS PVT. LTD.

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

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

TEST REPORT

Noise Monitoring

Test Report No.: EKO/135/280322

: HINDUSTAN ZINC LIMITED

Issued To

Plot No. 2 Sector-14

IIE, Sidcul Pantnagar

Rudrapur - (Uttrakhand)

Sample Description

: Ambient Noise

Sample Drawn on

: 25/03/2022

Sample Drawn by

: EPEPL (Mr. Harish Kumar)

Sample Received on

: 28/03/2022

Sampling Location

: Near Main Gate

Sampling Plan & Procedure

Treat man c

Weather Condition

: SOP-N/01

Analysis Duration

: Normal : 28/03/2022 To 29/03/2022

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)	EKO/CHEM/SOP/S/N-01	71.8	dB (A)	75.0
2	Leq (Night Time)	EKO/CHEM/SOP/S/N-01	65.3	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. The test report will not be used for any publicity
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

FOR EKO PRO ENGINEERS PUT LED

PURNING THATHAN

(Authorised Signatory)



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, Ghazabad - 201 009 (Delh-NCR) INDIA. Contact No.: 9711159210, 9810240837, 9810240676 E-mail: email@ekopro.in.

TEST REPORT

Noise Monitoring

Test Report No. : EKO/136/280322 Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sector-14 IIE, Sidcul Pantnagar

Rudrapur - (Uttrakhand)

Sample Description

: Ambient Noise

Sample Drawn on

: 25/03/2022

Sample Drawn by

: EPEPL (Mr. Harish Kumar)

Sample Received on

: 28/03/2022

Sampling Location

: East Side of Canteen In New Plant

Sampling Plan & Procedure

: SOP-N/01

Weather Condition

: Normal

Analysis Duration

: 28/03/2022 To 29/03/2022

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)	EKO/CHEM/SOP/S/N-01	70.9	dB (A)	75.0
2	Leq (Night Time)	EKO/CHEM/SOP/S/N-01	60.4	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.
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- 3. The test report will not be used for any publicity
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

FOR EKO PRO EN INEERS PVF LTD.
PURNIMA CHAUHAN
TESHNICAL MANAGER

(Authorised Signatory)





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, Ghoziabad - 201 909 (Delhi-NCR) INDIA. Contact No. 9711159210, 9810240837, 9810240678 E-mail: email@ekopro.in. ekoproengineers@gmail.com, website: www.ekopro.in.

TEST REPORT

Noise Monitoring

Test Report No.: EKO/134/280322

: HINDUSTAN ZINC LIMITED

Plot No. 2 Sector-14

IIE, Sidcul Pantnagar

Rudrapur - (Uttrakhand)

Sample Description

: Ambient Noise

Sample Drawn on

Issued To

25/03/2022

Sample Drawn by

ZOVUSYZUZZ

Compression by

: EPEPL (Mr. Harish Kumar)

Sample Received on

: 28/03/2022

Sampling Location

: Back Side of DG Area

Sampling Plan & Procedure

: SOP-N/01

Weather Condition

: Normal

Analysis Duration

: 28/03/2022 To 29/03/2022

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)	EKO/CHEM/SOP/S/N-01	69.8	dB (A)	75.0
2	Leq (Night Time)	EKO/CHEM/SOP/S/N-01	61.2	dB (A)	70.0

Notes:

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 The customer asked for the above tests only.
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- 3 The test report will not be used for any publicity
- 4 Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

FOR EKO PRO ENCINEERS PAT LYD.

RURNING CHOUHAN

TEGENICAL MANAGER

(Authorised Signatory)

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EKO PRO ENGINEERS PVT. LTD.

Environmental Consultants and Analytical Laboratory
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Office & Laboratory : 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIA. Contact No.: 9711159210, 9810240637, 9810240678. E-mail: email@eleptro.in. ekoproengineers@gmail.com, website: www.ekopro.in.

TEST REPORT

Noise Monitoring

Test Report No. : EKO/133/280322

: HINDUSTAN ZINC LIMITED

Issued To

Plot No. 2 Sector-14 IIE, Sidcul Pantnagar

Rudrapur - (Uttrakhand)

Sample Description

: Ambient Noise

Sample Drawn on

: 25/03/2022

Sample Drawn by

: EPEPL (Mr. Harish Kumar)

Sample Received on

: 28/03/2022

Sampling Location

: Near Compressor Area

Sampling Plan & Procedure

: SOP-N/01

Weather Condition

: Normal

Analysis Duration

: 28/03/2022 To 29/03/2022

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)	EKO/CHEM/SOP/S/N-01	70.8	dB (A)	75.0
2	Leq (Night Time)	EKO/CHEM/SOP/S/N-01	65.1	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.
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"End of Report"

FOR EKO BRO ENGINEERS PVT. LTD.
PURMIM TOHAUHAN
BORNIGAL MANAGER
(Authorised Signalory)



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 (Delh-NCR) INDIA. Contact No. 9711159210, 9810240837, 9810240878, E-mail: email:Dekopro.in, ekoprojengineers@grand.com, wobsite: www.ekopro.in.

TEST REPORT

Effluent Sample Analysis

Test Report No.: EKO/148/280322

: HINDUSTAN ZINC LIMITED

Issued To

Plot No. 2 Sector -14

IIE, Sidoul Pantnagar

Rudrapur - (Uttrakhand)

Sample Description

: STP Outlet (After Ultrafiltration)

Sample Drawn on

: 26/03/2022

Sample Drawn by

: EPEPL (Mr. Harish Kumar)

Sample Received on

: 28/03/2022

Sampling Location

: From STP Plant

Sampling Plan & Procedure

Sample Quantity

: SOP-W/66

: 2.0 Litre

Environmental Condition

: Normal

Analysis Duration

: 28/03/2022 To 01/04/2022

Remark (if any)

RESULTS

S. No.	Parameters	Test Method	Results	Units	Limits as per CPCB (EPR-1986 Schedule- VI Part-A)
1	pH	IS: 3025 (P-11)	6.81		5.5-9.0
2	Total Suspended Solids	IS: 3025 (P-17)	18.0	mg/l	100.0
3	COD (as O2)	IS: 3025 (P-58)	34.7	ng/l	250.0
4	BOD (@27°C for 3 days)	IS: 3025 (P-44)	8.8	mg/l	30.0
5	Total Nitrogen (as N)	APHA 4500 N	3.71	mg/l	100.0
6	Phosphate (as P)	IS: 3025 (P-31)	0.58	mg/l	5.0
7	Ammonical Nitrogen (as N)	APHA 4500 NH3	1.39	mg/I	50.0
8	Faecal Coliform	APHA 9221 E	40	MPN/100ml	1000.0

Notes:

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- 3. The test report will not be used for any publicity
- 4. 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.

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

"End of Report"

FOR EKO PRO ENGINEERS BYT. LTD. SHIVANGI SINGH RAIZADA SECTION INCHARGE MICROBIOLOGY

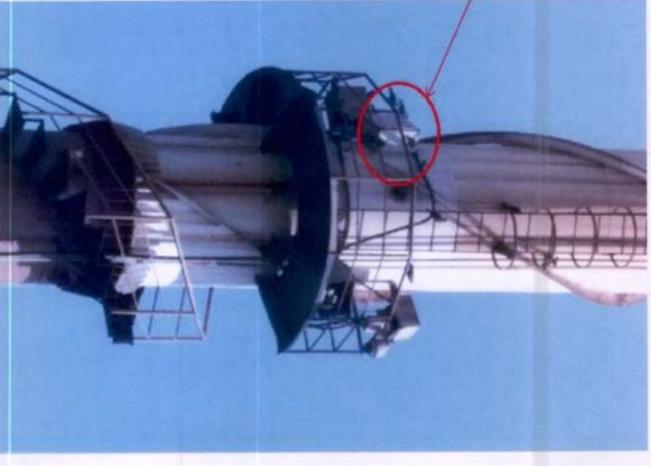
(Authorised Signatory)

FOR EKO PRO EMOINEERS PVT. LTD. PURMINAL MANAGER

(Authorised Signatory)

PM analyzer Installed at Stack

PM analyzer



ANNEXURE-3

STP PLANT



ETP PLANT



PHOTOGRAPHS OF HAZARDOUS WASTE STORAGE YARD S. **Photographs** Name of the waste No. Zinc Dross Storage Yard 1. 2. Lead Dross Storage Yard CAUTION policipa. Mark Market HAZARDOUS WASTE **Used Oil Storage Yard** 3. ES WAITE OIL STOK AGE HIR MUST तत संस्थाला MEALSOUS WASTE पीर्नाटमंद्र अपर्शाप MANILE WITH CAKE पिरमाल से काम करें

Rain Water Storage Pond HZL-Pantnagar

Ground Water Withdrawal FY 2021-22				
Month	Ground Water Withdrawal	UOM	Rain water utilization	
Apr-21	6527	Cu.m	0	
May-21	4558	Cu.m	968	
Jun-21	1947	Cu.m	2972	
Jul-21	1835	Cu.m	3205	
Aug-21	1133	Cu.m	3125	
Sep-21	1107	Cu.m	2612	
Oct-21	955	Cu.m	4135	
Nov-21	912	Cu.m	3434	
Dec-21	3701	Cu.m	129	
Jan-22	2873	Cu.m	651	
Feb-22	1895	Cu.m	1387	
Mar-22	4447	Cu.m	548	
Total	31,890	Cu.m	23,166	

All reading recorded in cubic meter.

Water Withdrawal Point - Borewell



Rain Water Storage Pond HZL-Pantnagar





Pond No- 3





Pond No- 4

Silver Process Stack



Silver NOx Stack



AMEXURE-6

On-Going CSR Activities at PMP FY2021-22



technicians, Automotive Services in two, three & four wheelers for Youth from nearby community. Youth Skill Development Program- Imparting Skill training program with TATA STRIVE in field of Auto Sales, Auto





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village this camp will be held. free medicine distribution, free eye check camp & goggle distribution etc. being done through this project. Daily in one Health, Water & Sanitation- Running mobile health clinic van in 25 villages on daily basis. Providing free doctor consultation,







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





Misc. activities-

- Donation of 20 Nos. Oxygen Concentrators to State Covid-19 relief facility, Dehradun for the benefit to general public of Uttarakhand.
- 1000 Dry ration packets distributed through District Administration to the flood affected families of Rudrapur in the month of Oct'21.
- 12 bed ICU Ward equipments at Covid Hospital, Govt. of Uttarakhand is under pipeline.



Misc. activities-

Glimpse of Basic Fire Fighting and Self Defense Awareness Program conducted in Nearby Girl Schools under CSR initiatives