

Vide Letter No.: HZLP/SRP/24-25/H-1**Date: 24/10/2024**

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 April-2024 to September-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 April-2024 to September-2024.

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

Thanking you.



(Anamika Jha)

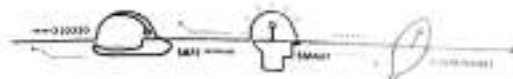
SBU Director

Pantnagar Silver Refinery Plant
Hindustan Zinc Limited

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

CC:

1. Member Secretary, SEIAA, Dehradun
2. MS office, UEPPCB, Dehradun
3. Regional Officer, UEPPCB, Kashipur
4. Office copy, HZL



Hindustan Zinc Limited, Registered Office: Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.
T. +91 294-6604000-02 www.hzindia.com CIN: L272D4RJ1966PLC001208

Compliance Report of Environment Clearance (April-2024 to September-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.	Specifications	Status
	<u>Pre Operation-</u>	
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.
	<u>During Operation Phase-</u>	
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.

	(powder/ingot etc.) product, Antimony Concentrate(precipitate/salt mix)- 1800TPA, Bismuth Concentrate(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 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 analysers 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 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	Being complied. Adequate drinking water and

	provided on site for the workforce.	sanitation facility already provided within plant premises.
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, pre-treatment 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 2024-25, H1, we have reused around 6,603 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: <ul style="list-style-type: none"> 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) (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-II dated 25.05.2024. Six-monthly compliance reports are being uploaded on company website. Link of website uploading EC compliance of October'2023 to March'2024 is hzlindia.com/wp-content/uploads/PMP-Silver-EC-Compliance-H2-2023-24.pdf
	<u>Entire Life-</u>	
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 premises.
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 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.
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 rainwater collection having capacity approx. 2542, 1500, 841 and 750 cu.m and collected rainwater is being utilized into the process. In FY 2024-25, H1, we have reused around 6,603 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	Noted.

	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 2024-25, H1, 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.

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



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TC-12821

TEST REPORT

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TEST REPORT No. NCL/EP-027/30/08/24/A	ULR No.:TC126212400000975F	DATE OF REPORT :04/09/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: Ground Water	Analysis End Date	: 04/09/2024
Analysis Start Date	: 30/08/2024	Sample ID No.	: NCL/EP-027/30/08/24
Date of Sampling	: 29/08/2024	Sample Receipt Date	: 30/08/2024
Time of Sampling	: 03:30 PM	Environmental Condition	: 25±2°C
Sampling Done By	: NCL	Sample Quantity	: 2+1 Ltr
Sample Description	: Ground Water	Packing	: PVC CANE
Sampling Location	: Borewell		
Sampling Protocol	: IS:17614 (P-1)		
Packing Condition	: Sealed		

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
1	Colour	Hazen	IS : 3025 (P-4) Clause-4	BDL(DL-1.0)	5.0	15
2	Odour	—	IS : 3025 (P-5)	Agreeable	Agreeable	Agreeable
3	Taste	—	IS : 3025 (P-8)	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	IS : 3025 (P-10)	BDL(DL-1.0)	1.0	5
5	pH Value	—	IS : 3025 (P-11)	7.15	6.5-8.5	No Relaxation
6	Total Dissolved Solids	mg/L	IS : 3025 (P-16)	318	500	2000
7	Total Hardness (as CaCO ₃)	mg/L	IS : 3025 (P-21)	180	200	600
8	Calcium (as Ca)	mg/L	IS : 3025 (P-40)	48	75	200
9	Magnesium (as Mg)	mg/L	IS : 3025 (P-48) Clause-6	14.8	30	100
10	Total Alkalinity (as CaCO ₃)	mg/L	IS : 3025 (P-23)	172	200	600
11	Sodium	mg/L	APHA 3500Na (B)	BDL(DL-10.0)	Not Specified	Not Specified
12	Potassium	mg/L	APHA 3500 K (B)	BDL(DL-1.0)	Not Specified	Not Specified
13	Chloride (as Cl)	mg/L	IS : 3025 (P-32) Clause-2	14	250	1000
14	Nitrate (as NO ₃)	mg/L	IS : 3025 (P-34) Clause 3.3	BDL(DL-0.2)	45	No Relaxation
15	Nitrite (as NO ₂)	mg/L	IS : 3025 (P-34) Clause 4	BDL(DL-0.5)	Not Specified	Not Specified

EP-027/30/08/24-1



Checked by
Sonu Gupta
Sr. Analyst

Authorized Signatory
Bhavna Sharma
HOD (Microbiologist)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

1. The test report refers only to the particular sample/s submitted for testing and listed parameters.
2. Endorsement of the same is neither inferred nor implied.
3. Laboratory shall maintain the confidentiality of all information related to the samples & test reports.
4. Complaints about this report should be communicated within 10 days of the issue date of this report.
5. The report is not to be produced wholly or in part without prior permission of the Managing Partner. All disputes subject to Ghaziabad Jurisdiction.

Laboratory : A-1/156, Sector-17, (Swadeshi Compound) Kavi Nagar Industrial Area, GHAZIABAD - 201 002 (U.P.)

Mobile : 9810430345, 9205501788 | Website : www.newconlab.in

E-mail : newconlab@gmail.com, newconlabfinance@gmail.com



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Page No.: 2 of 2

TEST REPORT No. NCL/EP-027/30/08/24/A

ULR No.:TC1262124000000976F

DATE OF REPORT : 04/09/2024

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
16	Sulphate (as SO ₄)	mg/L	IS : 3025 (P-24) Sec-1 Clause-6	BDL(DL-2.0)	200	400
17	Fluoride (as F)	mg/L	APHA 4500-F-D	BDL(DL-0.1)	1.0	1.5
18	Chloramines (as Cl ₂)	mg/L	IS : 3025 (P-26) Clause-7	BDL(DL-0.1)	4.0	No Relaxation
19	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS : 3025 (P-43) Sec-1 Clause-4	BDL(DL-0.0005)	0.001	0.002
20	Anionic Surfactant (as MBAS)	mg/L	IS : 3025 (P-68)	BDL(DL-0.1)	0.2	1.0
21	Iron (as Fe)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	1.0	No Relaxation
22	Zinc (as Zn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	5.0	15.0
23	Manganese (as Mn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.1	0.3
24	Lead (as Pb)	mg/L	IS : 3025 (P-65)	BDL(DL-0.005)	0.01	No Relaxation
25	Copper (as Cu)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.05	1.5
26	E.Coli	cfu/100ml	IS : 1622	Absent	Not Specified	Not Specified
27	Total Coliform	cfu/100ml	IS : 1622	Absent	Not Specified	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

EP-027/30/08/24-2



Checked by
Sonu Gupta
Sr. Analyst

Authorized Signatory
Bhavna Sharma
HOD (Microbiologist)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-027/30/08/24/B		DATE OF REPORT : 04/09/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: Ground Water	Analysis End Date	: 04/09/2024
Analysis Start Date	: 30/08/2024	Sample ID No.	: NCL/EP-027/30/08/24
Date of Sampling	: 29/08/2024	Sample Receipt Date	: 30/08/2024
Time of Sampling	: 03:30 PM	Environmental Condition	: 25±2°C
Sampling Done By	: NCL	Sample Quantity	: 2+1 Ltr
Sample Description	: Ground Water	Packing	: PVC CANE
Sampling Location	: Borewell		
Sampling Protocol	: IS:17614 (P-1)		
Packing Condition	: Sealed		

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
1	Cyanide (as CN)	mg/L	IS : 3025 (P-27) Sec-1 Clause-4	BDL(DL-0.02)	0.05	No Relaxation
2	Ammonia (as total Ammonia)	mg/L	IS : 3025 (P-34) Clause 2.4	BDL(DL-0.2)	0.5	No Relaxation
3	Selenium (as Se)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
4	Arsenic (as As)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
5	Cadmium (as Cd)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.003	No Relaxation

End of Report

Remarks : BDL=Below Detection Limit.

EP-027/30/08/24-1



Checked by
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Sr. Analyst

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E-mail : newconlab@gmail.com, newconlabfinance@gmail.com



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TEST REPORT

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TEST REPORT No. NCL/EP-007/30/09/24		DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 03/10/2024
Analysis Start Date	: 30/09/2024	Sampling Done By	: NCL
Date of Sampling	: 28/09/2024	Duration of Sampling	: 30 Minutes
Sampling Protocol	: AS PER CPCB GUIDELINES	Sample ID No.	: NCL/EP-007/30/09/24
Sampling Location	: Silver Main Stack	Area Category	:
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 01)		

DETAILS OF STACK

Stack Attached to	: Silver Furnace	Capacity	: 20.8 MT/Day
Type of fuel used	: Electricity/PNG	Quantity of fuel used	: NA
Stack height above the ground level	: 40.0 Mtr	Stack height above the roof top	: NA
Stack dia at the top	: 1600 mm	Material of Construction	: Metallic With Refractory
Attached APCS	: Bag Filter	Normal Operating Schedule	: Batch Wise (3 Shift)
Commissioning date	: November 2010		

PHYSICAL OBSERVATIONS

Ambient Temperature	: 30°C	Flue gas temperature	: 117°C
Velocity of the flue gases	: 8.1 mtr/sec	Sampling Flow Rate of SPM	: 26.0 LPM
Sampling Flow Rate for Gases	: 2.1 LPM	Quantity of Emission discharged	: 43598.04 Nm ³ /hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Particulate Matters (PM)	mg/Nm ³	IS:11255 (Part-1)	22	150
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS:11255 (Part-2)	BDL(DL-3.4)	Not Specified
3	Oxide of Nitrogen (NO _x)	mg/Nm ³	IS:11255 (Part-7)	37	Not Specified
4	Carbon Monoxide (CO)	% By Vol	IS:13270	BDL(DL-0.02)	1.0
5	Lead	mg/Nm ³	NCL/STP/AAS/01	BDL(DL-0.1)	10.0
6	Hydro Carbon (HC)	mg/Nm ³	GC Method	BDL(DL-1.0)	Not Specified

EP-007/30/09/24-1



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

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TEST REPORT

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TEST REPORT No. NCL/EP-008/30/09/24		DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Panthagar Metal Plant, Panthagar-263153	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 03/10/2024
Analysis Start Date	: 30/09/2024	Sampling Done By	: NCL
Date of Sampling	: 28/09/2024	Duration of Sampling	: 30 Minutes
Sampling Protocol	: AS PER CPCB GUIDELINES	Sample ID No.	: NCL/EP-008/30/09/24
Sampling Location	: NOx Scrubber Stack	Area Category	:
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 01)		

DETAILS OF STACK

Stack Attached to	: Nox Scrubber	Capacity	: NA
Type of fuel used	: NA	Quantity of fuel used	: NA
Stack height above the ground level	: 30.0 Mtr	Stack height above the roof top	: 21.8 Mtr
Stack dia at the top	: 1100 mm	Material of Construction	: Metallic & PP Lining
Attached APCS	: Nox Scrubber	Normal Operating Schedule	: Batch Wise (3 Shift)
Commissioning date	: November 2010		

PHYSICAL OBSERVATIONS

Ambient Temperature	: 30°C	Flue gas temperature	: 85°C
Velocity of the flue gases	: 7.6 mtr/sec	Sampling Flow Rate of SPM	: 26.5 LPM
Sampling Flow Rate for Gases	: 2.3 LPM	Quantity of Emission discharged	: 21063.11 Nm ³ /hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Particulate Matters (PM)	mg/Nm ³	IS:11255 (Part-1)	32	150
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS:11255 (Part-2)	10	Not Specified
3	Oxides of Nitrogen (NO _x)	mg/Nm ³	IS:11255 (Part-7)	42	Not Specified
4	Carbon Monoxide (CO)	% By Vol	IS:13270	BDL(DL-0.02)	1.0
5	Lead	mg/Nm ³	NCL/STP/AAS/01	BDL(DL-0.1)	10.0
6	HC	mg/Nm ³	GC Method	BDL(DL-1.0)	Not Specified

EP-008/30/09/24-1



Checked by

Itendra
Sr. Analyst

Authorized Signatory

Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory

Shashi Solanki
Lab Head

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TEST REPORT

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TEST REPORT No. NCL/EP-009/30/09/24/A		DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Workzone Air	Analysis End Date	: 03/10/2024
Analysis Start Date	: 30/09/2024	Sampling Done By	: NCL
Date of Sampling	: 28/09/2024	Equipments Used	: Handy Sampler
Time of Sampling	: 09:00 AM TO 05:00 PM		
Sampling Location	: Bag Filter Area Silver Plant	Sample ID No.	: NCL/EP-009/30/09/24
Sampling Protocol	: IS:5182 (P-5)	Sample Duration	: 8 Hrs
Ambient Temperature	: 28°C	Sampling Flow Rate	: 1.0 LPM

TEST RESULT

S.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Particulate Matters (Size Less Than 10µm) (Pm10)	mg/m ³	IS:5182 (Part 23)	0.060	5.0
2	Sulphur Dioxide (as SO ₂)	mg/m ³	IS:5182 (Part 2)	0.0124	5.0
3	Carbon Monoxide (as CO)	mg/m ³	IS:15206	0.54	55.0
4	Nitrogen Dioxide (as NO ₂)	mg/m ³	IS:5182 (Part 5)	0.0237	6.0
5	Lead	mg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	0.15
6	Arsenic (as As)	mg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	0.2

End of Report

Remarks : BDL=Below Detection Limit.

EP-009/30/09/24-1



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES
Authorized Signatory
Shashi Solanki
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TEST REPORT No. NCL/EP-009/30/09/24/B		DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Workzone Air
Analysis Start Date : 30/09/2024 Analysis End Date : 03/10/2024
Date of Sampling : 28/09/2024 Sampling Done By : NCL
Time of Sampling : 09:00 AM TO 05:00 PM Equipments Used : Handy Sampler
Sampling Location : Bag Filter Area Silver Plant Sample ID No. : NCL/EP-009/30/09/24
Sampling Protocol : IS:5182 (P-5) Sample Duration : 8 Hrs
Ambient Temperature : 28°C Sampling Flow Rate : 1.0 LPM

TEST RESULT

S.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Zinc	mg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
2	Sb	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
3	Bi	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
4	Iron (as Fe)	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified

End of Report

Remarks : BDL=Below Detection Limit

EP-009/30/09/24-1



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

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TEST REPORT No. NCL/EP-010/30/09/24/A	DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name	: Workzone Air	Analysis End Date	: 03/10/2024
Analysis Start Date	: 30/09/2024	Sampling Done By	: NCL
Date of Sampling	: 28/09/2024	Equipments Used	: Handy Sampler
Time of Sampling	: 09:00 AM TO 05:00 PM		
Sampling Location	: Silver Furance Floor	Sample ID No.	: NCL/EP-010/30/09/24
Sampling Protocol	: IS:5182 (P-5)	Sample Duration	: 8 Hrs
Ambient Temperature	: 28°C	Sampling Flow Rate	: 1.0 LPM

TEST RESULT

S.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Particulate Matters (Size Less Than 10µm) (Pm10)	mg/m³	IS:5182 (Part 23)	0.065	5.0
2	Sulphur Dioxide (as SO2)	mg/m³	IS:5182 (Part 2)	0.0127	5.0
3	Carbon Monoxide (as CO)	mg/m³	IS:15206	0.55	55.0
4	Nitrogen Dioxide (as NO2)	mg/m³	IS:5182 (Part 6)	0.0245	6.0
5	Lead	mg/m³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	0.15
6	Arsenic (as As)	mg/m³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	0.2

End of Report

Remarks : BDL=Below Detection Limit.

EP-010/30/09/24-1



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

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Shashi Solanki
Lab Head

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Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Workzone Air
Analysis Start Date : 30/09/2024
Date of Sampling : 28/09/2024
Time of Sampling : 09:00 AM TO 05:00 PM
Sampling Location : Silver Furance Floor
Sampling Protocol : IS:5182 (P-5)
Ambient Temperature : 28°C
Analysis End Date : 03/10/2024
Sampling Done By : NCL
Equipments Used : Handy Sampler
Sample ID No. : NCL/EP-010/30/09/24
Sample Duration : 8 Hrs
Sampling Flow Rate : 1.0 LPM

TEST RESULT

S.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Zinc	mg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
2	Sb	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
3	Bi	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
4	Iron (as Fe)	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

EP-010/30/09/24-1



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES
Authorized Signatory
Shashi Solanki
Lab Head

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TEST REPORT

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TEST REPORT No. NCL/EP-011/30/09/24/A		DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Workzone Air	Analysis End Date	: 03/10/2024
Analysis Start Date	: 30/09/2024	Sampling Done By	: NCL
Date of Sampling	: 28/09/2024	Equipments Used	: Handy Sampler
Time of Sampling	: 09:00 AM TO 05:00 PM		
Sampling Location	: Hydro Top Floor of Silver	Sample ID No.	: NCL/EP-011/30/09/24
Sampling Protocol	: IS:5182 (P-5)	Sample Duration	: 8 Hrs
Ambient Temperature	: 28°C	Sampling Flow Rate	: 1.0 LPM

TEST RESULT

S.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Particulate Matters (Size Less Than 10µm) (Pm10)	mg/m ³	IS:5182 (Part 23)	0.072	5.0
2	Sulphur Dioxide (as SO ₂)	mg/m ³	IS:5182 (Part 2)	0.0148	5.0
3	Carbon Monoxide (as CO)	mg/m ³	IS:15206	0.63	56.0
4	Nitrogen Dioxide (as NO ₂)	mg/m ³	IS:5182 (Part 6)	0.0254	6.0
5	Lead	mg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	0.15
6	Arsenic (as As)	mg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	0.2

End of Report

Remarks : BDL=Below Detection Limit.

EP-011/30/09/24-1



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

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E-mail : newconlab@gmail.com, newconlabfinance@gmail.com



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TEST REPORT No. NCL/EP-011/30/09/24/B		DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Workzone Air
Analysis Start Date : 30/09/2024
Date of Sampling : 28/09/2024
Time of Sampling : 09:00 AM TO 05:00 PM
Sampling Location : Hydro Top Floor of Silver
Sampling Protocol : IS:5182 (P-5)
Ambient Temperature : 28°C
Analysis End Date : 03/10/2024
Sampling Done By : NCL
Equipments Used : Handy Sampler
Sample ID No. : NCL/EP-011/30/09/24
Sample Duration : 8 Hrs
Sampling Flow Rate : 1.0 LPM

TEST RESULT

S.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Zinc	mg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
2	Sb	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
3	Bi	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
4	Iron (as Fe)	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified

End of Report

Remarks : BDL=Below Detection Limit

EP-011/30/09/24-1



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES
Authorized Signatory
Shashi Solanki
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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-026/28/09/24	DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name	: AMBIENT AIR	Analysis End Date	: 03/10/2024
Analysis Start Date	: 28/09/2024	Sampling Done By	: NCL
Date of Sampling	: 27/09/2024	Sampling Location	: NEAR MAIN GATE/SECURITY
Time of Sampling	: 11:00 AM (27/09) TO 11:00 AM (28/09)	Sample ID No.	: NCL/EP-026/28/09/24
Sampling Protocol	: IS : 5182 (P-5) AS PER CPCB GUIDELINES	Sampling Flow Rate of SPM (Average)	: 1.24 mtr ³ /min
Sampling Flow Rate for Gases	: 0.5 LPM	Sampling Machine Placed at Height (from ground)	: 3.0 Mtr
Sampling Duration	: 24 Hrs	Equipments Used	: Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

PHYSICAL OBSERVATIONS

Ambient Temperature	: 30°C	Wind Direction	: East to West
Weather Conditions	: Clear		

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	64	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	IS:5182 (Part 24)	36	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	19.1	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.058	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 8)	30.8	For 24 Hrs=80
6	Lead (Pb)	µg/m ³	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O ₃)	µg/m ³	IS:5182 (Part-9)	BDL(DL-20.0)	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH ₃)	µg/m ³	IS:5182 (Part 26)	BDL(DL-20.0)	For 24 Hrs=400
9	Benzene (C ₆ H ₆)	µg/m ³	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05

EP-026/28/09/24-1



Checked by
Jitenendra
Sr. Analyst

Authorized Signatory
Aryind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

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E-mail : newconlab@gmail.com, newconlabfinance@gmail.com



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Page No.: 2 of 2

TEST REPORT No. NCL/EP-026/28/09/24

DATE OF REPORT : 03/10/2024

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
10	Benzo (a) Pyrene (BaP)	ng/m3	IS-5182 (Part-12)	BDL(DL-0.1)	For Annual=01
11	Arsenic (As)	ng/m3	NAAQMS/36	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	IS-5182 (P-26)	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=Below Detection Limit.

EP-026/28/09/24-2



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-025/28/09/24	DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name : AMBIENT AIR
Analysis Start Date : 28/09/2024 Analysis End Date : 03/10/2024
Date of Sampling : 27/09/2024 Sampling Done By : NCL
Time of Sampling : 11:00 AM (27/09) TO 11:00 AM (28/09) Sampling Location : BACK SIDE OF DG AREA
Sampling Protocol : IS : 5182 (P-5) AS PER CPCB GUIDELINES Sample ID No. : NCL/EP-025/28/09/24
Sampling Flow Rate for : 0.5 LPM Sampling Flow Rate of SPM : 1.21 mtr³/min (Average)
Gases Sampling Machine Placed at : 3.0 Mtr Height (from ground)
Sampling Duration : 24 Hrs
Equipments Used : Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

PHYSICAL OBSERVATIONS

Ambient Temperature : 30°C Wind Direction : East to West
Weather Conditions : Clear

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	68	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	IS:5182 (Part 24)	40	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	18.3	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.059	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	31.2	For 24 Hrs=80
6	Lead (Pb)	µg/m ³	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O ₃)	µg/m ³	IS:5182 (Part-9)	BDL(DL-20.0)	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH ₃)	µg/m ³	IS:5182 (Part 25)	BDL(DL-20.0)	For 24 Hrs=400
9	Benzene (C ₆ H ₆)	µg/m ³	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05

EP-025/28/09/24-1



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

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Page No.: 2 of 2

TEST REPORT No. NCL/EP-025/28/09/24

DATE OF REPORT : 03/10/2024

S.No	Test Parameters	Units	Test Method	Results	Specification As per CPCB
10	Benzo (a) Pyrene (BaP)	ng/m3	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual*01
11	Arsenic (As)	ng/m3	NAAQMS/36	BDL(DL-1.0)	For Annual*06
12	Nickel (Ni)	ng/m3	IS : 5182 (P-26)	BDL(DL-5.0)	For Annual*20

End of Report

Remarks : BDL=Below Detection Limit.

EP-025/28/09/24-2



[Signature]

Checked by
Jitendra
Sr. Analyst

[Signature]

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

[Signature]

Authorized Signatory
Shashi Solanki
Lab Head

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TC-12621

TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-023/28/09/24		DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: AMBIENT AIR	Analysis End Date	: 03/10/2024
Analysis Start Date	: 28/09/2024	Sampling Done By	: NCL
Date of Sampling	: 26/09/2024	Sampling Location	: SE Corner of Lead Plant
Time of Sampling	: 11:10 AM (26/09) TO 11:10 AM (27/09)	Sample ID No.	: NCL/EP-023/28/09/24
Sampling Protocol	: IS : 5182 (P-5) AS PER CPCB GUIDELINES	Sampling Flow Rate of SPM (Average)	: 1.22 mtr ³ /min
Sampling Flow Rate for Gases	: 0.5 LPM	Sampling Machine Placed at Height (from ground)	: 3.0 Mtr
Sampling Duration	: 24 Hrs	Equipments Used	: Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

PHYSICAL OBSERVATIONS

Ambient Temperature	: 31°C	Wind Direction	: East to West
Weather Conditions	: Clear		

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	72	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	IS:5182 (Part 24)	43	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	19.8	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.065	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	31.2	For 24 Hrs=80
6	Lead (Pb)	µg/m ³	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O ₃)	µg/m ³	IS:5182 (Part-9)	BDL(DL-20.0)	For 8 Hrs=100 For 1 Hrs=180
8	Ammonia (NH ₃)	µg/m ³	IS:5182 (Part 25)	BDL(DL-20.0)	For 24 Hrs=400
9	Benzene (C ₆ H ₆)	µg/m ³	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05

EP-023/28/09/24-1



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

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Page No.: 2 of 2

TEST REPORT No. NCL/EP-023/28/09/24

DATE OF REPORT : 03/10/2024

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
10	Benzo (a) Pyrene (BaP)	ng/m3	IS:5182 (Part-12)	BOL(DL-0.1)	For Annual=01
11	Arsenic (As)	ng/m3	NAAQMS/36	BOL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	IS : 5182 (P-26)	BOL(DL-5.0)	For Annual=20

End of Report

Remarks : BOL=Below Detection Limit.

EP-023/28/09/24-2



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES
Authorized Signatory
Shashi Solanki
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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-024/28/09/24		DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: AMBIENT AIR	Analysis End Date	: 03/10/2024
Analysis Start Date	: 28/09/2024	Sampling Done By	: NCL
Date of Sampling	: 26/09/2024	Sampling Location	: Canteen East Side
Time of Sampling	: 11:10 AM (26/09) TO 11:10 AM (27/09)	Sample ID No.	: NCL/EP-024/28/09/24
Sampling Protocol	: IS : 5182 (P-5) AS PER CPCB GUIDELINES	Sampling Flow Rate of SPM (Average)	: 1.21 mtr ³ /min
Sampling Flow Rate for Gases	: 0.5 LPM	Sampling Machine Placed at Height (from ground)	: 3.0 Mtr
Sampling Duration	: 24 Hrs	Equipments Used	: Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

PHYSICAL OBSERVATIONS

Ambient Temperature	: 30°C	Wind Direction	: East to West
Weather Conditions	: Clear		

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS 5182 (Part 23)	61	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	IS:5182 (Part 24)	34	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	16.8	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.053	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	29.7	For 24 Hrs=80
6	Lead (Pb)	µg/m ³	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O ₃)	µg/m ³	IS:5182 (Part-9)	BDL(DL-20.0)	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH ₃)	µg/m ³	IS:5182 (Part 25)	BDL(DL-20.0)	For 24 Hrs=400
9	Benzene (C ₆ H ₆)	µg/m ³	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05

EP-024/28/09/24-1



Checked by
Jitendra
Sr. Analyst

Authorized Signatory
Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

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TEST REPORT No. NCL/EP-024/28/09/24

DATE OF REPORT : 03/10/2024

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
10	Benzo (a) Pyrene (BaP)	ng/m3	IS: 5182 (Part-12)	BDL(DL-0.1)	For Annual=01
11	Arsenic (As)	ng/m3	NAAOMS/36	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	IS : 5182 (P-26)	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=Below Detection Limit

EP-024/28/09/24-2



Checked by
[Signature]

Jitendra
Sr. Analyst

Authorized Signatory
[Signature]

Arvind Choudhary
Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
[Signature]

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TC-12621

AMBIENT NOISE REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-034/28/09/24	DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Analysis Start Date	: 28/09/2024	Analysis End Date	: 28/09/2024
Date of Monitoring	: 27/09/2024	Monitoring Done By	: NCL
Monitoring Duration	: 24 hrs.	Place of Monitoring	: NEAR MAIN GATE
Time of Monitoring	: 12:30 PM (27/09) TO 12:30 PM (28/09)	Protocol	: CPCB method – PCLS/06/2000-01
Category of Area	: Industrial Area		

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	65.2	69.8	68.6	69.1	67.4	65.7	66.5	67.2	66.7	69.4
Night Time Reading (dB(A))	52.2	52.8	55.7	55.3	54.2	53.8	54.9	55.3	57.1	56.8

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
Day Time Noise Level			
1	Average Noise Level	67.6	-
2	L Max	69.8	-
3	L Min	65.2	-
4	Day Leq	68.0	75.0 Max
Night Time Noise Level			
5	Average Noise Level	54.8	-
6	L Max	57.1	-
7	L Min	52.2	-
8	Night Leq	55.0	70.0 Max

End of Report

Remarks : >Day time reckoned between 6:00AM To 10:00PM.
>Night time reckoned between 10:00PM To 06:00AM.

EP-034/28/09/24-1



Jitendra
Checked by

Jitendra
Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

Shashi Solanki
Authorized Signatory
Shashi Solanki
Lab Head

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TC-12621

AMBIENT NOISE REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-035/28/09/24		DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Analysis Start Date	: 28/09/2024	Analysis End Date	: 28/09/2024
Date of Monitoring	: 27/09/2024	Monitoring Done By	: NCL
Monitoring Duration	: 24 hrs.	Place of Monitoring	: East Side Of Canteen in New Plot
Time of Monitoring	: 12:50 PM (27/09) TO 12:50 PM (28/09)	Protocol	: CPCB method – PCLS/06/2000-01
Category of Area	: Industrial Area		

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	63.2	63.7	64.5	65.8	65.3	66.1	66.7	67.2	65.3	64.2
Night Time Reading (dB(A))	47.7	49.8	48.5	47.3	46.2	49.5	51.2	50.8	52.3	51.7

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
Day Time Noise Level			
1	Average Noise Level	65.2	-
2	L Max	67.2	-
3	L Min	63.2	-
4	Day Leq	65.4	75.0 Max
Night Time Noise Level			
5	Average Noise Level	49.5	-
6	L Max	52.3	-
7	L Min	46.2	-
8	Night Leq	49.7	70.0 Max

End of Report

Remarks : >Day time reckoned between 6:00AM To 10:00PM.
>Night time reckoned between 10:00PM To 06:00AM.

EP-035/28/09/24-1



Checked by
Jitendra
Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
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Lab Head

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TC-12621

AMBIENT NOISE REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-012/27/09/24	DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Analysis Start Date	: 27/09/2024	Analysis End Date	: 27/09/2024
Date of Monitoring	: 26/09/2024	Monitoring Done By	: NCL
Monitoring Duration	: 24 hrs.	Place of Monitoring	: Near Compressor Area
Time of Monitoring	: 02:00 PM (26/09) TO 02:00 PM (27/09)	Protocol	: CPCB method – PCLS/08/2000-01
Category of Area	: Industrial Area		

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	63.8	64.2	65.6	66.3	67.8	69.2	68.7	66.2	66.9	65.2
Night Time Reading (dB(A))	51.2	53.5	54.2	59.1	58.5	55.4	58.1	54.7	55.8	56.7

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
Day Time Noise Level			
1	Average Noise Level	66.6	-
2	L Max	69.2	-
3	L Min	63.8	-
4	Day Leq	66.8	75.0 Max
Night Time Noise Level			
5	Average Noise Level	55.8	-
6	L Max	59.1	-
7	L Min	51.2	-
8	Night Leq	55.7	70.0 Max

End of Report

Remarks : >Day time reckoned between 6:00AM To 10:00PM.
>Night time reckoned between 10:00PM To 06:00AM.

EP-012/27/09/24-1



Checked by
Jitendra
Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

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Mobile : 9810430345, 9205501788 | Website : www.newconlab.in
E-mail : newconlab@gmail.com, newconlabfinance@gmail.com



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TC-12621

AMBIENT NOISE REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-013/27/09/24	DATE OF REPORT : 03/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Analysis Start Date	: 27/09/2024	Analysis End Date	: 27/09/2024
Date of Monitoring	: 26/09/2024	Monitoring Done By	: NCL
Monitoring Duration	: 24 hrs.	Place of Monitoring	: BACK SIDE OF DG AREA
Time of Monitoring	: 02:30 PM (26/09) TO 02:30 PM (27/09)	Protocol	: CPCB method - PCLS/06/2000-01
Category of Area	: Industrial Area		

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	64.6	66.8	67.2	65.5	66.3	68.8	67.7	69.5	70.2	68.4
Night Time Reading (dB(A))	50.1	51.8	51.4	50.6	52.3	53.9	53.5	52.8	54.6	55.6

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
Day Time Noise Level			
1	Average Noise Level	67.5	-
2	L Max	70.2	-
3	L Min	64.8	-
4	Day Leq	67.7	75.0 Max
Night Time Noise Level			
5	Average Noise Level	52.7	-
6	L Max	55.8	-
7	L Min	50.1	-
8	Night Leq	52.9	70.0 Max

End of Report

Remarks : >Day time reckoned between 6:00AM To 10:00PM.
>Night time reckoned between 10:00PM To 06:00AM.

EP-013/27/09/24-1



Checked by
Jitendra
Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
Shashi Solanki
Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-003/30/09/24		DATE OF REPORT : 05/10/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: WASTE WATER	Analysis End Date	: 05/10/2024
Analysis Start Date	: 30/09/2024	Sample ID No.	: NCL/EP-003/30/09/24
Date of Sampling	: 28/09/2024	Sample Receipt Date	: 30/09/2024
Time of Sampling	: 02:30 PM	Environmental Condition	: 25±2°C
Sampling Done By	: NCL		
Sample Description	: SEWAGE WATER AFTER TREATMENT		
Sampling Location	: STP OUTLET (FINAL EXIT POINT)		
Sampling Protocol	: IS:17614 (P-1)	Sample Quantity	: 2 ltr
Packing Condition	: Sealed	Packing	: PVC CANE

TEST RESULT

S.No.	Parameter	Units	Test Method	Results	Specification/limits as per CPCB
1	pH	-	IS : 3025 (P-11)	7.35	6.5-9.0
2	Total Suspended Solids (TSS)	mg/L	IS : 3025 (P-17)	BDL(DL-5.0)	100
3	Bio Chemical Oxygen Demand (3 days at 27°C)	mg/L	IS : 3025 (P-44)	5	30.0
4	Chemical Oxygen Demand (COD)	mg/L	APHA-5220 (B)	20	Not Specified
5	Oil & Grease	mg/L	IS : 3025 (P-39)	BDL(DL-1.0)	Not Specified
6	Faecal Coliform	MPN/100ml	APHA 23rd -9221	170	1000
7	Total Nitrogen	mg/L	APHA 4500-Norg (B)	BDL(DL-0.1)	Not Specified
8	Total Phosphorous(P)	mg/L	4500-D, P-APHA, 23rd ED.	BDL(DL-0.05)	Not Specified
9	Ammonical Nitrogen (as N)	mg/L	APHA 4500 (B,C)	BDL(DL-1.0)	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

EP-003/30/09/24-1



Checked by
Sonu Gupta
Sr. Analyst

Authorized Signatory
Bhadrna Sharma
HOD (Microbiologist)

FOR NEWCON CONSULTANTS & LABORATORIES

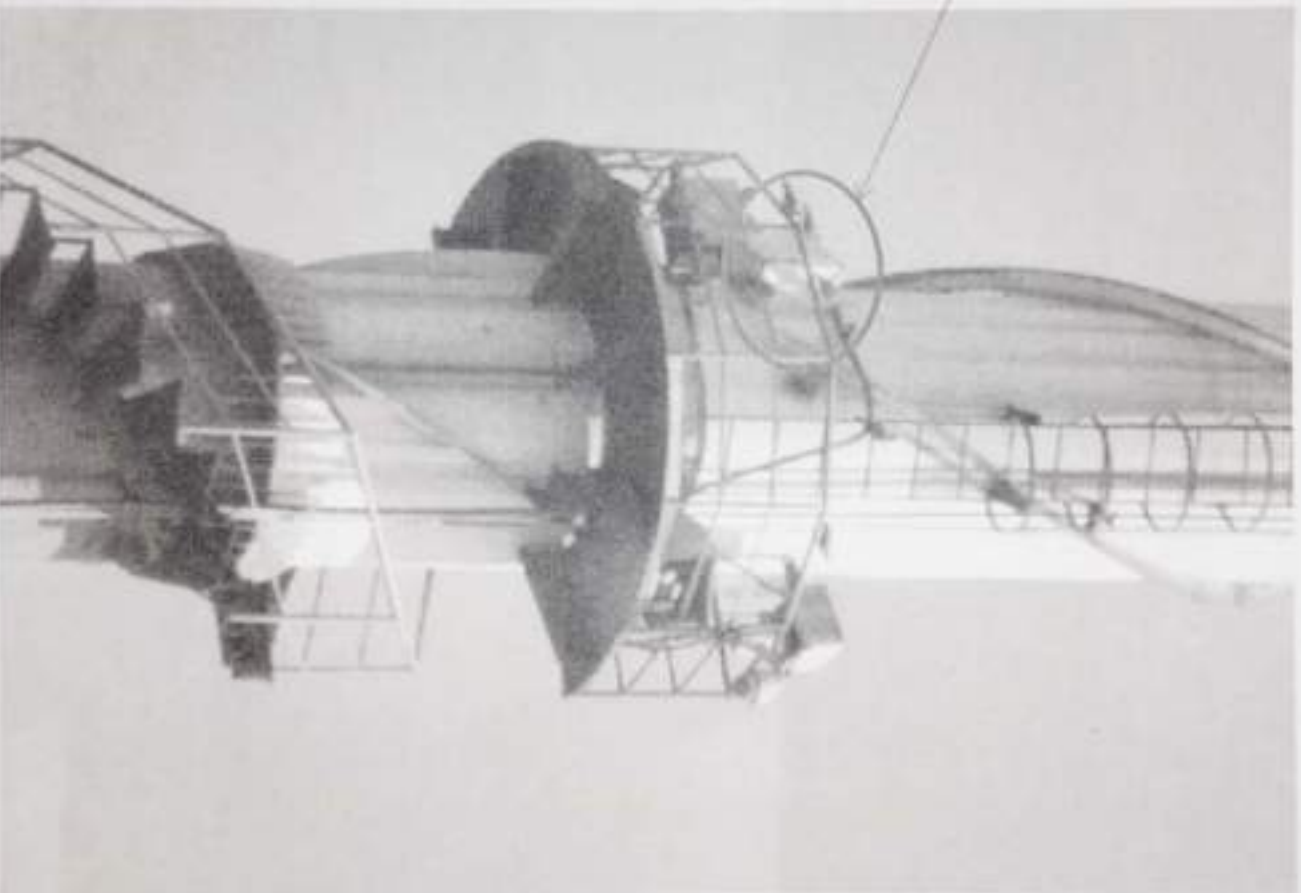
Authorized Signatory
Shashi Solanki
Lab Head

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PM analyzer Installed at Stack

PM analyzer



Hygiene ventilation system



Bag filters arrangement
for Hygiene ventilation

ANNEXURE -3




STP PLANT



ETP PLANT



PHOTOGRAPHS OF HAZARDOUS WASTE STORAGE YARD

S. No.	Name of the waste	Photographs
1.	Zinc Dross Storage Yard	
2.	Lead Dross Storage Yard	
3.	Used Oil Storage Yard	

ANNEXURE -4

Ground Water Withdrawal FY 2024-25, H1			
Month	Ground Water Withdrawal	UOM	Rain water utilization
Apr-24	4,794	Cu.m	538
May-24	5,887	Cu.m	280
Jun-24	5,304	Cu.m	0
Jul-24	4,480	Cu.m	1,647
Aug-24	4,052	Cu.m	2,273
Sep-24	3,814	Cu.m	1,865
		Cu.m	
		Cu.m	
		Cu.m	
		Cu.m	
		Cu.m	
		Cu.m	
Total	28,331	Cu.m	6,603

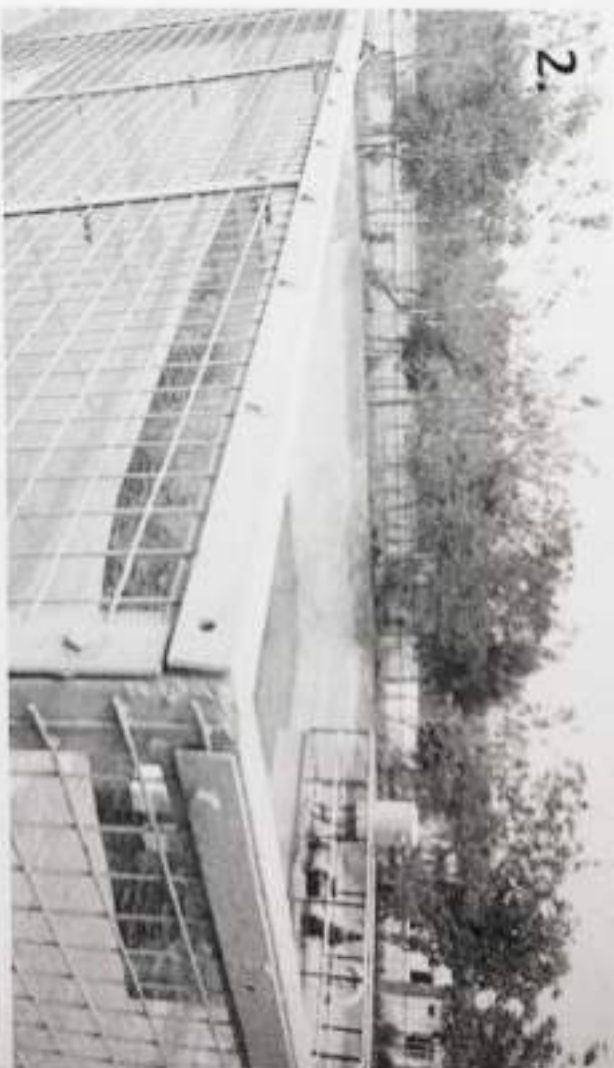
- All reading recorded in cubic meter.

Water Withdrawal Point – Borewell



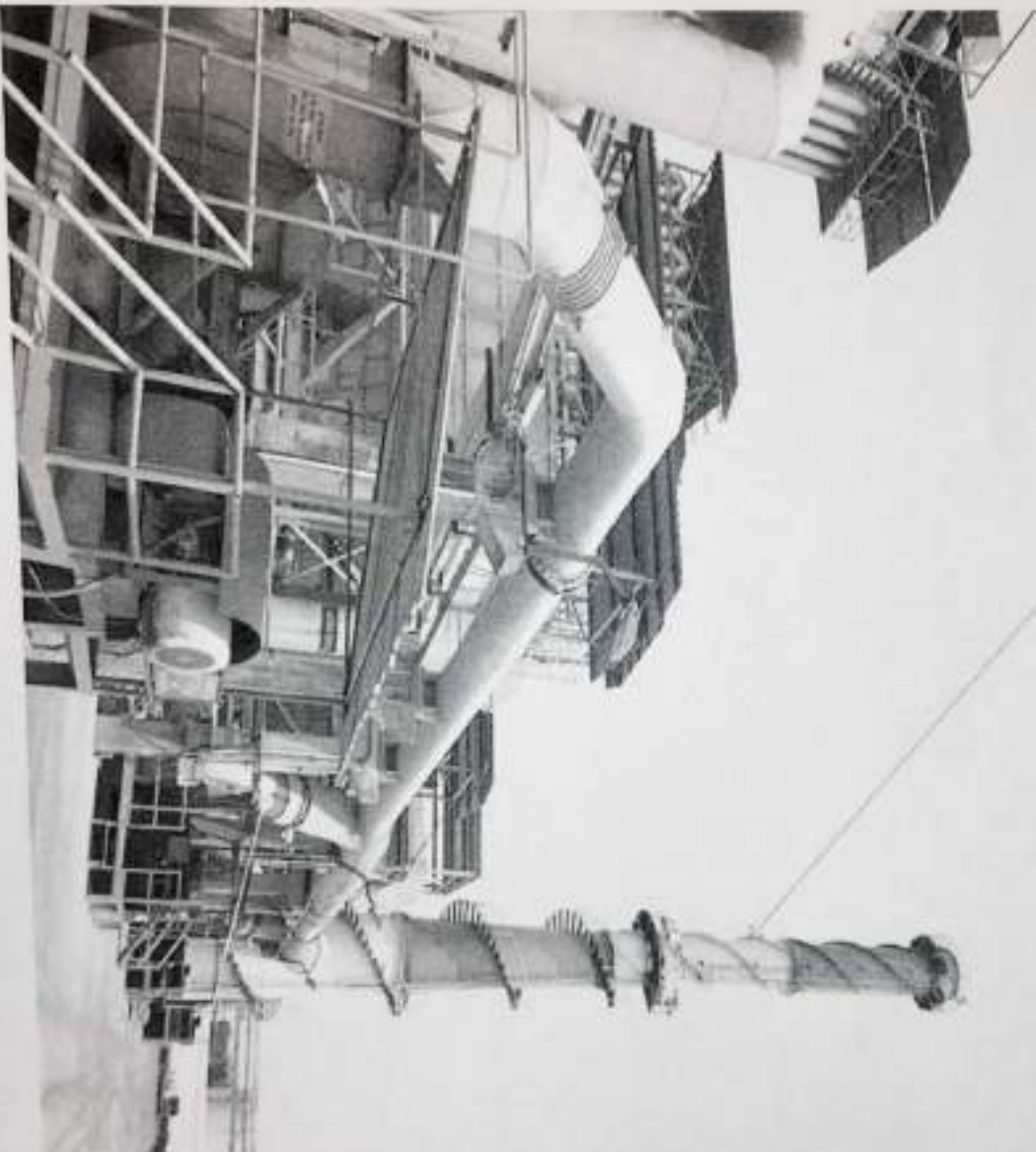
Sensitivity Internal (2)

Rain Water Storage Ponds and reuse the water into the process

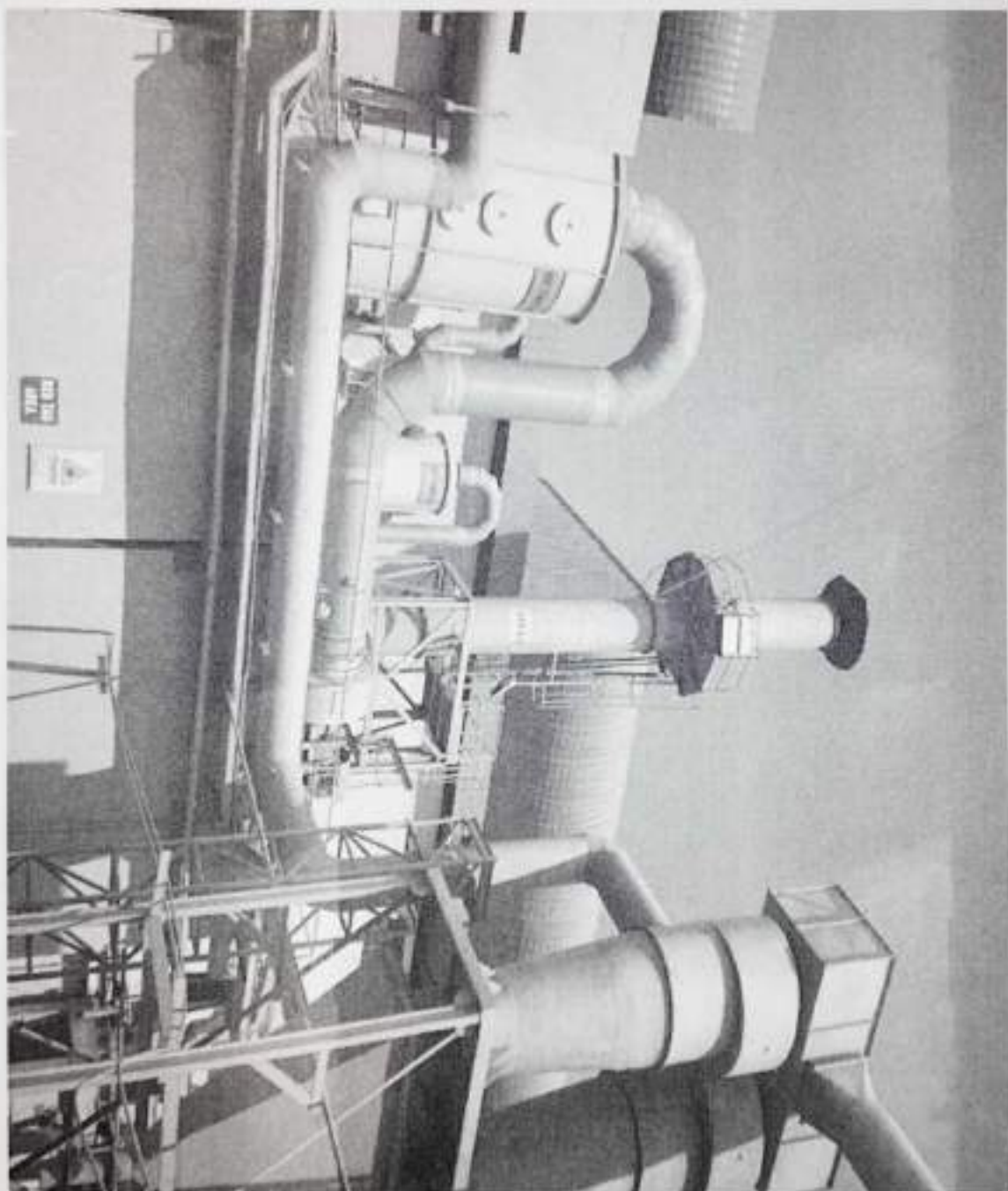


ANNE XURE-5

Silver Process Stack



Silver NOx Stack



ANNEXURE - 6

On-Going CSR Activities at PMP FY2024-25 H1

Flag Ship Projects: Continuing in FY 24-25 H1

1. Sakhi Project – Strengthening Women Empowerment.
2. ME – Providing Micro Enterprises support to SHG women for their sustainability.
3. Zinc Kaushal – Providing skilling training to rural youth through Tata Motors Tata Strive Project.
4. Health Project - Mobile Health project started by covering 100 patients per day from 25 villages per month.

Other Activities:

- Kept Pharindeys in plant premises and in community for birds by keeping heavy temperature. And inculcated culture to do such activities in communities as well.
- Started Keeping or our Pickle unit products stall in local Veg. market nearby company premises and residents.
- Sent 16 students for summer camp conducted at Udaipur from PMP. And UH taken feedback on completion above training program on students return from Udaipur.
- Conducted Unchi Udaan IIT coaching entrance exam at rudrapur Dist. Total 82 students participated in this exam from various Govt. schools.
- Khaana Khaya Kya - Nand Ghar Movement Campaigning was done Pantnagar as well.
- Conducted awareness program on Menstrual Hygiene in nearby Govt. Girls schools.
- Conducted safety awareness program to Summer camp students while going for training by Head - Safety.
- Ganesh , Durga & Viswa Karma Pooja celebrated at PMP being conducted by HR Department in Admin Block.

On-Going CSR Activities at PMP FY2024-25 H1

Other Activities:

- Interacted with PMP Unchi Udaan students studying at Vidhya Bhawan Udaipur.
- ON 15th August, Unit Head, Dy. SBU Director, HR Head participated and interacted with beneficiaries of 55 SHG's Credit Linkage of amounting 55 Lakhs from Uttarakhand Grameen Bank at concessional rate of interest , the same shall benefitted to 500+ Sakhi SHG Women with their Livelihood initiatives.
- On 26.09.2024 interacted with Govt. Girls Inter college with SARD team and explaining benefits and futures how it will be helpful students to enhance their skills through digitalization and integrated science lab which is providing by HZL PMP Unit. NCERT team also give live demo to students and teachers about VR cameras etc.
- On 17th July, UH and District Education Officer interacting with students selected for Unchi Udaan Batch -9 from PMP. Total 82 students written exam and 7 students selected from Pantnagar Metal Plant.
- On 27th July special eye check up camp was conducted at Jayanagar along with regular Mobile Health Check up camp. Total 115 patients were benefitted through this camp.
- Mensural Hygiene awareness program conducted in nearby schools with the health team.
- Breastfeeding awareness session was conducted in nearby community as well.

On-Going CSR Activities at PMP FY2024-25 H1



Special Camp;

Topic – Mensuration Hygiene

Conducted on – 24/05/2024

No of attendees -550 (Govt. Inter

College- Jainagar, Pantnagar, Fajalpur)



Special Camp;

Topic – Breast Feeding Awareness

Session

Conducted on – 05/08/2024

No of attendees -20



Special Camp;

Topic – Eye Vision camp for nearby community

Conducted On – 27/07/2024

No of attendees – 115

On-Going CSR Activities at PMP FY2024-25 H1



Women Skill Development & 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.

On-Going CSR Activities at PMP FY2024-25 H1



Environment Day Celebration

Yoga Day Celebration

World Youth Skills Day Celebration

On-Going CSR Activities at PMP FY2024-25 H1



TATA Strive Project:- Various guest session conducted on topics- POSH (Prevention of Sexual Harassment), Auto technician Roles, Workplace & Industrial Safety, Fire Drill & extinguishing, Field visit, Morning Assembly & Mindfulness activities, etc.

On-Going CSR Activities at PMP FY2024-25 H1



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

On-Going CSR Activities at PMP FY2024-25 H1



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