

Vide Letter No.: HZLP/SRP/24-25/H-II

Date: 24/05/2025

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 1120TPA) of M/s Hindustan Zinc Limited, Plot No 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar, Dist. U.S. Nagar for the period October-2024 to March-2025.

Ref; Letter No: E.C. No.- 239-03(05)/2024 dated 30-08-2024 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 1120TPA) on dated 30.08.2024.

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-2024 to March-2025.

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



Compliance Report of Environment Clearance (Oct-2024 to Mar-2025)

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.- 239-03(05)/2024 dated 30-08-2024)

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 by SEIAA Uttarakhand and a copy of the same be sent to the Regional Office of Ministry of Environment, Forest and Climate Change, Govt of India located at 25 Subhash Road, Dehradun.	Complied. Silver 1120 TPA Environment Clearance letter had been received on 30.08.2024. It was advertised in two local newspapers i.e. Amar Ujala & Jan Satta on date 04.09.2024. Copy of the advertisement was submitted to SEIAA, Dehradun and RO-MoEF, Dehradun having vide letter no HZL/PSP/EC/2024-25/04 dated 06.09.2024. Refer Annexure- 1
2	A copy of the Environmental Clearance letter shall be sent by the proponent to the concerned Panchayat/Town area.	Complied. Copy of Environment Clearance letter submitted to the Zila Panchayat office Udham Singh Nagar (Rudrapur) on date 04.09.2024. Copy of the receiving was submitted to SEIAA, Dehradun and RO-MoEF, Dehradun having vide letter no HZL/PSP/EC/2024-25/04 dated 06.09.2024. Refer Annexure- 1
3	Consent to Establish/Consent to Operate shall be obtained from Uttarakhand Pollution Control Board under relevant provisions of Air (Prevention and Control of Pollution) Act, 1981 and Water (Prevention and Control of Pollution) Act, 1974 before starting any construction activity at the site.	Complied. Consent to Establish for expansion obtained from Uttarakhand Environment Protection and Pollution Control Board under relevant provisions of Central Air Act and Central Water Act on 15.01.2025 having application No- 5700372. Present CCA renewal valid till 31.03.2025 having consent number- UKPCB/HO/Con-H-71/2021/1628 however Consent to operate applied for Expansion along with its renewal on 31.01.2025 and it is provisionally approved, detail copy awaited.
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 equipment/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 equipment/machineries being installed within the vacant space available in the plant premises.
	<u>During Operation Phase-</u>	
1	Project proponent shall dispose AHU filter dust and filters to TSDF.	Complied. AHU filters in the form of Bag house filter bags are being disposed through register TSDF facility.

Sensitivity Internal (E.C.)

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

2	The Project proponent shall develop additional green belt in surrounding area in consultation with local forest office.	We are in discussion with Chief Development officer, Rudrapur and District Forest officer to identify the areas for Plantation as proposed in EMP. The same status has been submitted to SEIAA within three months and the activities will be carried out in a phased manner in consultation with local authority. Refer Annexure- 2
3	The Project proponent shall construct rainwater harvesting pits in such a manner to prevent the ingress of contaminated water from ETP & STP into rain water harvesting pit.	Complied. Presently We have four rainwater harvesting pond for rainwater collection with prevention the ingress of contaminated water from ETP & STP into rainwater harvesting pit, having capacity approx. 2542, 1500, 841 & 750 cu.m and collected rainwater is being utilized into the process. In FY 2024-25, we have reused around 10,014 Cu.m rainwater in the process for conserving the fresh water. Photograph of the same is attached herewith as Annexure- 3
4	The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials. Details shall be submitted within three months.	We are in discussion with Chief Development officer, Rudrapur and Local administration to identify nearby adjoining villages to install Solar lights proposed in EMP. The same status has been submitted to SEIAA within three months and the activities will be carried out in a phased manner in consultation with local authority. Refer Annexure-2
5	Project proponent shall install Solar lights on the periphery of its premises.	We are in discussion with the management to install solar lights on the periphery of our premises and also, Hindustan Zinc Limited has signed a MOU with Serentica Renewables for solar energy supply (https://www.hzllindia.com/media_press_releases/hindustan-zinc-receives-renewable-power-from-serenticas-180-mw-solar-project/) and the unit will be sourcing solar energy as per the operational requirements accordingly. The same status has been submitted to SEIAA within three months and the activities will be carried out in a phased manner in consultation with local authority. Refer Annexure- 2
6	Regular health checkup of workers by recognized medical practitioners shall be ensured by the Project proponent and shall submit report to SEIAA along with six monthly compliance report.	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.
7	The Project proponent will submit reports pertaining to ambient air quality, report pertaining to ground water quality and noise. These reports should be monitored and generated by a NABL approved laboratory having scope of it.	Reports pertaining to ambient air quality, report pertaining to ground water quality and noise has been enclosed herewith as Annexure- 4(a) & 4(b) . These reports have been monitored and generated by a NABL approved laboratory having scope of it.
8	The Project proponent will install advanced dust suppression system at the project site.	Noted.
9	The Project proponent shall plant two rows fast growing species on the both sides of road connecting from the project premises to main road.	Complied. As per the land availability plantation have been completed from road to plant premises.
10	The Project proponent shall submit the NOC from CGWB for utilization of ground water.	NOC from CGWB for utilization of ground water has been obtained having validity till 30.09.2026. Refer

		Annexure- 5
11	The Project proponent shall undertake rain water harvesting activities in the two surrounding villages preferably in the schools, primary health centres in consultation with local authorities.	We are in discussion with Chief Development officer, Rudrapur and Municipal Commissioner, Rudrapur to identify the areas for rainwater harvesting activities in the surrounding villages preferably in the schools, primary health centres. The same status has been submitted to SEIAA within three months and the activities will be carried out in a phased manner in consultation with local authority. Refer Annexure- 2
12	The building plan and structural design of the unit shall comply with requirements of Seismic Zone- IV as outlined in National Building Code.	Complied. The building plan and structural design of the unit comply with requirements of Seismic Zone- IV as outlined in National Building Code during construction phase initially and in this phase there is no construction planned.
13	No further expansion or modifications in the plan shall be carried out without the prior approval of competent authority.	Noted and is being complied.
14	During any type of construction in the existing land area, the topsoil excavated shall be used for backfilling/ landscape development/ green belt development. The same shall not be disposed of outside the boundaries of project site without approval of competent authority.	Noted and is being complied.
15	The ground water 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 ground water quality by leaching of heavy metals and toxic contaminants	The soil and groundwater samples are being tested regularly by NABL accredited lab (M/s Newcon Laboratories, 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- 4(b) & 4(c) .
16	All stacking and loading areas should be provided with proper garland drains equipped with baffles to prevent runoff from the site to enter any adjoining water body. Construction spoils including bituminous materials must not be allowed to contaminate watercourse and dumpsites as these may leach into ground water.	Noted and being complied.
17	The manufacturing process shall be carried out in closed atmosphere without having any air emissions. However, air emission from DG set should comply with CPCB norms by designing stack of adequate height.	Complied. Stack with Adequate height installed in the premises and third-party monitoring is being carried out regularly to monitor the parameters as per CPCB/SPCB norms.
18	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.
19	All the hazardous residue and waste arising from units shall be either sent to TSDF for land filling or for incineration. Hazardous chemicals shall be stored in tanks in tank farms, drums, carboys, etc.	Noted and being complied.
20	The gaseous emissions (SO ₂ , NO _x , CO, VOC and HC)	Gaseous emissions of SO _x , NO _x , CO and Particulate

	and particulate matter along with Respirable Suspended Particulate Matter (RSPM) levels 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.	matter being monitored periodically by NABL authorized third party (external agency). Emission levels are being ensured as per the stipulations. 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- 6 .
21	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 UKPCB/Central Pollution Control Board. Dust/ Powder from the formulation process shall be collected by dust extractor.	Ventilation system has been installed to arrest fugitive emissions. Work zone monitoring is being done regularly, 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- 4(d) .
22	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 . Consent to operate applied for Expansion along with its renewal on 31.01.2025 and it is provisionally approved, detail copy awaited. Photos of the HW storage site are attached as Annexure- 7 .
23	The DG sets shall use low sulphur diesel type fuel and should have stack height complying with CPCB norms. DG set should be operated only during power failure in emergency situation.	The DG sets are being operated on HSD fuel only having appropriate stack height and complying with CPCB norms. DG sets is operated only in case of UPCL grid power failure.
24	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 all machineries and 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- 4(a) & 4(e) .
25	All liquid raw materials shall be stored in storage tanks and drums. Closed handling systems for chemicals and solvents shall be provided. Magnetic seals shall be provided for pumps/agitators for reactors for reductions of fugitive emissions.	Noted and being complied.
26	The vehicles used at the factory site should comply with emission norms and noise level standards of CPCB and State Transport Department. They should be operated only during non-peak hours.	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.
27	All necessary efforts shall be made to ensure safety	Being complied. First Aid facility equipped with trained

	and hygiene of workforce. First Aid facility shall be established and trained manpower be engaged to deal with emergency. The labour force engaged on site shall be screened for health from time to time.	staff already provided in plant premises. IME for new manpower and PME for regular manpower being ensured as per statutory requirements.
28	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.
29	Separate toilets shall be provided for Ladies staff.	Complied. Separate toilets facilities are being provided in plant premises for Ladies staff.
30	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and monitoring functions.	Separate Environment Management cell is already in place for all Environment Management functions. Environmental monitoring is being ensured through Authorized third party (external agency) regularly.
31	Energy consumption measures like installation of LED/TFL for the external lighting area shall be ensured. The used LED/TFL shall be properly collected and disposed off as per the prevailing guidelines/rules of the regulatory authority to avoid mercury contamination.	Noted and being complied.
32	The project proponent shall do plantation of samplings in the earmarked 33% green belt area as part of the tree plantation campaign "Ek Ped Ma Ke Naam" and the details of the same shall be uploaded in the MeriLiFE Portal (https://merilife.nic.in).	Complied. More than 33% Green Belt of total plant area has already been developed with three rows along with boundary wall in plant premises in consultation with DFO (Divisional Forest Officer) and CPCB guidelines. Gap filling plantation and Surrounding plantation are being carried out for maintaining the survival rate of Plantation. Refer Annexure- 8
33	Action plan for establishment of solar energy shall be submitted to this office within three months.	Hindustan Zinc Limited has signed a MOU with Serentica Renewables for solar energy supply (https://www.hzindia.com/media_press_releases/hindustan-zinc-receives-renewable-power-from-serenticas-180-mw-solar-project/) and the unit will be sourcing solar energy as per the operational requirements accordingly. The same status has been submitted to SEIAA within three months and the activities will be carried out in a phased manner in consultation with local authority. The same status has been submitted to SEIAA within three months and the activities will be carried out in a phased manner in consultation with local authority. Refer Annexure- 2
34	The project proponent shall undertake eco-developmental measures including welfare measures in the project area for the overall improvement of the environment.	Being Complied. Eco-development measures including welfare measures are being implemented as per action plan. Many development activities are being carried out for the overall improvement of the environment.
35	The project proponent shall ensure compliance to provisions of all Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.	Noted and being complied.
36	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.
37	The project authority shall also comply with the entire environment protection measures and safeguards proposed in the EMP. 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 EMP report has been implemented. EMP recommendation closure also in progress to comply as per the plan.
38	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.
39	Rainwater harvesting for surface run off shall be ensured. Before recharging the surface run off, pretreatment must be done to remove suspended matter, oil and other particles.	Complied. Presently We have four rainwater harvesting pond for rainwater collection having capacity approx. 2542, 1500, 841 and 750 cu.m and collected rainwater is being utilized into the process. In FY 2024-25, we have reused around 10,014 Cu.m rainwater in the process for conserving the fresh water. Photograph of the same is attached herewith as Annexure- 3 .
40	Emergency preparedness plan based on risk assessment shall be made and shall be submitted to this office within three months.	Emergency preparedness plan based on risk assessment has prepared and submitted to Dy, Chief Inspector (Factories & Boilers) with updated information as on 27.09.2024. A copy of Emergency preparedness plan along with submission letter has been submitted to SEIAA & RO-MoEF on 25.11.2024 as per letter No-HZL/PSP/EC/2024-25/06. Refer Annexure- 2
41	The project authority shall submit within the next 3 months the details on quantification of yearwise CER activities along with cost and other details	The action plan for the details on quantification of yearwise CER & CSR activities along with cost and other details (for next 3 years) has been submitted to SEIAA & RO-MoEF authority and the activities will be carried out in a phased manner in consultation with local authority. Refer Annexure-2
42	STP shall be connected with separate electric meter and photocopy of electric consumption bill shall be submitted with compliance report to this office	STP has been connected with Separate Electric meter and consumption is being tracked on daily basis. Consumption bill is provided by UPCL for whole plant however Photocopy of electric consumption meter enclosed herewith as Annexure- 9 .
43	The project authority shall provide Personal Protection Equipment (PPE) as per the norms of factory act	Noted and is being complied.
44	Agreement with TSDF vendors shall be submitted.	Complied. Agreement with TSDF vendor- M/s Bharat Oil & Waste management, Roorkee is enclosed herewith as Annexure- 10
45	The grant of this EC is issued from the environmental angle only and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument as force the sole and complete responsibility to comply with the conditions laid down in all other laws for the time being inforce,	Noted and is being complied.

	rests with the project proponent.	
46	The provisions of the Solid Waste (Management) Rules, 2016 and the plastic waste (management) Rules, 2016 shall be followed.	Noted and is being complied.
47	The project proponent shall abide by all commitments and recommendation made in the form- I, Pre-feasibility report/Environment Management Plan (EMP) and also during their presentation to the expert appraisal committee.	Noted and is being complied.
48	Any change in planning of the approved plan/site plan will leads to environment clearance void-ab initio and project proponent will have to seek fresh Environmental Clearance.	Noted.
49	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provision of Environment Protection Act 1986.	Noted.
50	The ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of Environment Protection.	Noted.
51	The ministry/SEIAA reserves the right to stipulate additional condition, if necessary, the project proponent/company in time bound manner shall implement these conditions.	Noted.
52	The Ministry/SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
53	The Regional office of the Ministry shall monitor compliance of the stipulated conditions. The project authorities should extent full cooperation to the officers (s) of the regional office by furnishing the requisite data/information/monitoring reports.	Noted.
54	The above conditions shall be enforced, inter-alia under the provisions of water Prevention & Control of Pollution) Act 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment Protection Act, 1986, Hazardous and other wastes Rules, 2016, and the Public Insurance Act 1991, along with their amendments and rules and any other orders passed by the Hon'ble Supreme court of India/High court of law relating to the subject matter.	Noted.
55	The project proponent shall submit half yearly compliance report of stipulated conditions of Environment Clearance in soft copy through PARIVESH PORTAL given link: https://parivesh.nic.in . The compliance report shall	Being Complied. Last six-monthly compliance report was submitted to SEIAA, Dehradun and RO, MOEF office Dehradun vide letter no HZLP/SRP/24-25/H-1 dated 24.10.2024. Six-monthly compliance reports are being uploaded on

	also be e mailed to the Regional Office in Dehradun in moef.ddn@gov.in	company website. Link of website uploading EC compliance of April'2024 to September'2024 is https://www.hzindia.com/wp-content/uploads/PMP-EC-Compliance-Report-Silver-plant-H1-2024-25.pdf
56	The project proponent shall ensure compliance to provisions of all the Acts, Rules, Regulations and Guidelines, for the time being in force, as applicable to the project.	Noted and is being complied.
57	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 Ministry of Environment, Forests and Climate Change, Govt of India at Dehradun. The contact details of the incharge of Environment Monitoring Cell will also be intimated in the compliance reports.	Separate Environment Management cell is already in place for all Environment Management functions. Environmental monitoring is being ensured through Authorized third party (external agency) regularly. The contact details of the incharge of Environment monitoring cell/ function is enclosed herewith as Annexure- 11
58	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 provisions of EIA Notification 2006. This EC is being granted subject to compliance of Hon'ble Court Orders issued from time to time.	Noted.
59	The SEIAA Uttarakhand reserves the right to withdraw the Environmental Clearance or add additional conditions.	Noted.
60	If ownership 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.
61	This Environmental Clearance (E.C.) is subject to obtaining clearance under the Wildlife (Protection) Act, 1972 from the competent Authority as may be applicable to this project.	Noted.
62	The Project Proponent shall follow all relevant directions/orders issued by Hon'ble High Court/NGT/ Supreme Court.	Noted.
63	The project proponent shall ensure compliance to provisions of all the Acts, Rules, Regulations Guidelines and directions of Hon'ble Courts for the time being in force, as applicable to the project.	Noted.
64	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Noted.

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

Sensitizing Information



HINDUSTAN ZINC
Zinc & Silver of India

HZL/PSP/EC/2024-25/04

Date: 06/09/2024

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

Subject: Submission the copy of Environment Clearance for "Expansion of production capacity from 800 TPA to 1120 TPA Refined Silver in two phases (20% in each phase) of M/S Hindustan Zinc Limited (Pantnagar Silver Plant), Plot- 2&3, Sector-14, IIE, SIDCUL, Pantnagar, US Nagar (Uttarakhand)" at Regional Office of MoEF&CC - Reg.

Ref: E.C. No.- 239-03(05)/2024 dated 30-08-2024.

Dear Sir,

With reference to aforesaid subject, We have obtained Environment Clearance from SEIAA Dehradun vide letter no. 239-03(05)/2024 dated 30-08-2024 for our Silver Refinery Plant expansion from 800 TPA to 1120 TPA in two phases (20% in each phase).

To comply with EC condition Number 1 & 2 (pre-operation) copy of Environment Clearance letter, Newspaper Advertisement copy and Zila Panchayat Submission copy is attached along with this letter for information.

Please acknowledge the Pantnagar Silver Refinery 1120 TPA Environment Clearance copy, Newspaper Advertisement copy and Zila Panchayat Submission copy at your office.

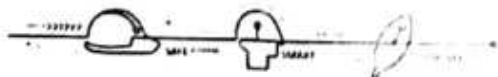
Thanking you,


Anamika Jha
Unit Head

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

Pantnagar Silver Refinery Plant
Hindustan Zinc Limited

Encl: Environment Clearance letter copy
Newspaper Advertisement copy
Zila Panchayat Submission copy



Hindustan Zinc Limited, Registered Office: Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.
T. +91 294-6604000-02 www.hzindia.com CIN: L27204RJ1966PLC001208

Sensitivity: Internal (C3)

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जिस भाई की कभी सजाई थी कलाई उसी ने बहन के सीने पर गोली चलाई

रहस्यमय पार पार नयी भाई की सनम, बहन की भी भावने का विभक्त प्रवास

कलकत्ता, 10 जून: 'जिस भाई की कभी सजाई थी कलाई उसी ने बहन के सीने पर गोली चलाई' यह शीर्षक पढ़कर ही मन में एक सवाल उठता है कि ऐसा क्यों हुआ? क्या कोई गलतफहमी या झूठा प्रेम था? या फिर कोई गहरी राखी हुई योजना? इन सवालों के जवाब देने के लिए हमें इस कहानी के सिलसिले में जानना पड़ेगा।



कौन सा भाई कौन सी बहन?

इस कहानी की शुरुआत एक छोटे से गाँव में होती है। यहाँ एक परिवार में दो बच्चे पैदा हुए थे, एक लड़का और एक लड़की। दोनों बच्चे बहुत ही प्यारे और मेहनती थे। लेकिन उनके बीच से एक गहरी खाई खोद दी गई।

जिस भाई की कभी सजाई थी कलाई उसी ने बहन के सीने पर गोली चलाई। यह वाक्य ही इस कहानी का सारांश है।

एक दिन एक ठीक ठीक, फिर किसी तरह से गोली चली। यह घटना बहुत ही रहस्यमय थी। पुलिस ने मामले को गंभीरता से लेते हुए जांच शुरू की। लेकिन जांच के बावजूद भी इस मामले का रहस्य बरकरा रहा।

जिस भाई की कभी सजाई थी कलाई उसी ने बहन के सीने पर गोली चलाई। यह वाक्य ही इस कहानी का सारांश है।

यह कहानी हमें यह सिखाती है कि प्रेम और भावनाएँ कितनी शक्तिशाली हो सकती हैं। लेकिन अगर प्रेम में झूठ और धोखा हो, तो वह बुराई का बीज बन सकता है। हमें अपने रिश्तों में ईमानदारी और सच्चाई रखनी चाहिए।

जिस भाई की कभी सजाई थी कलाई उसी ने बहन के सीने पर गोली चलाई। यह वाक्य ही इस कहानी का सारांश है।

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चौखटिया के राकेश मोशी हत्याकांड का खुलासा, आरोपी गिरफ्तार

कलकत्ता, 10 जून: चौखटिया के राकेश मोशी हत्याकांड का खुलासा हो चुका है। आरोपी गिरफ्तार किया गया है। पुलिस ने मामले की जांच में मदद के लिए एक विशेष टीम बनाई थी।

जिस भाई की कभी सजाई थी कलाई उसी ने बहन के सीने पर गोली चलाई। यह वाक्य ही इस कहानी का सारांश है।



कौन सा भाई कौन सी बहन?



समर्थ

आवश्यक सूचना

उच्च शिक्षा विभाग अंतर्गत राज्य विश्वविद्यालय एवं संयुक्त महाविद्यालयों में समर्थ पोर्टल के माध्यम से स्नातक एवं स्नातकोत्तर प्रथम सेमेस्टर में प्रवेश हेतु अंतिम अवसर प्रदान करते हुए प्रवेश और पंजीकरण की अंतिम तिथि 5 सितम्बर 2024 निर्धारित है। फीस जमा करने की अंतिम तिथि 10 सितम्बर 2024 है।

कृपया इच्छुक अभ्यर्थी निर्धारित अंतिम तिथि 5 सितम्बर 2024 से पूर्व संबंधित संस्थानों में अपना प्रवेश लेना सुनिश्चित करें।

स्नातक URL: <https://ukadmission.samarth.ac.in/>
स्नातकोत्तर URL: <https://ukpgadmission.samarth.ac.in/>

संजीव कुमार, अतिरिक्त सहायक आयुक्त, उच्च शिक्षा विभाग, उत्तराखण्ड सरकार, देहरादून।

यस/उत्तराखण्ड विधानिका की नौसानी सूचना 'परिशिष्ट IV-A' नियम 6.2 एवं 6.3 के तहत

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HINDUSTAN ZINC
Limited

HZI./PSP/EC/2024-25/03

Date: 04/09/2024

To,

Zila Panchyat Officer,
Rudrapur, Udham Singh Nagar
Uttarakhand (INDIA)- 263153

Subject: Copy of Environment Clearance for "Expansion of production capacity from 800 TPA to 1120 TPA Refined Silver in two phases (20% in each phase) of M/S Hindustan Zinc Limited (Pantnagar Silver Plant), Plot-2&3, Sector-14, IIE, SIDCUL, Pantnagar, US Nagar (Uttarakhand)" submission at Zila Panchyat - Reg.

Ref: E.C. No.- 239-03(05)/2024 dated 30-08-2024.

Dear Sir,

With reference to aforesaid subject, We have obtained Environment Clearance from SEIAA Dehradun vide letter no. 239-03(05)/2024 dated 30-08-2024 for our Silver refinery plant expansion from 800 TPA to 1120 TPA in two phases (20% in each phase).

To comply with EC condition Number 2 (pre-operation) copy of Environment Clearance letter is attached along with this letter for public information.

Please acknowledge the Pantnagar Silver Refinery 1120 TPA EC copy at your office.

Thanking you,

Anamika Jha
Unit Head
Pantnagar Silver Refinery Plant
Hindustan Zinc Limited

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

Encl: As above



Hindustan Zinc Limited, Registered Office: Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.
T. +91 294-6604000-02 www.hzindia.com CIN: L27204RJ1966PLC001208



HINDUSTAN ZINC
Zinc & Silver of India

HZL/PSP/EC/2024-25/06

Date: 25/11/2024

To,
Member Secretary
SEIAA Uttarakhand
Gaura Devi Paryavaran Bhawan, Third Floor
46B, IT Park, Sahasthradhara Road, Dehradun, Uttarakhand- 248001

Sub:- Submission of Environment Clearance compliance report (Within three Months) for Pantnagar Silver Refinery Plant (Refined Silver production 1120TPA) of M/s Hindustan Zinc Limited, Plot No 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar, Dist. U.S. Nagar.

Ref: E.C. No.- 239-03(05)/2024 dated 30-08-2024 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 1120TPA) on dated 30.08.2024.

Please find enclosed herewith the Compliance report of Environment Clearance (Within three Months) for Pantnagar Silver Refinery Plant of M/s Hindustan Zinc Limited, Plot No 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar, Dist. U.S. Nagar.

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

Thanking you,


Anamika Jha
Unit Head

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. Regional office- NCZ, MoEF&CC, Dehradun
2. MS office, UKPCB, Dehradun
3. Regional Officer, UKPCB, Kashipur
4. Office copy, HZL

Hindustan Zinc Limited, Registered Office: Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.
T. +91 294-6604000-02 www.hzilindia.com CIN: L27204RJ1966PLC001208

Sensitivity: Internal (C3)

Environment Clearance Compliances Action Plan (3 months)

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.- 239-03(05)/2024 dated 30-08-2024)

S. N.	Specifications	Action Plan						
During Operation Phase-								
2	The Project proponent shall develop additional green belt in surrounding area in consultation with local forest office.	<p>We are in discussion with Chief Development officer, Rudrapur and District Forest officer to identify the areas for Plantation as proposed in EMP. In this regard, request you to provide us the time extension of two years to complete the requirement.</p> <table><tr><th>Particulars</th><th>Details</th><th>Proposed addition in</th></tr><tr><td>Social forestry/outside plantation details</td><td>Distribution under CSR/Forest area development</td><td>Development outside/nearby (1.5 Hectare- 10000 Sampling)</td></tr></table>	Particulars	Details	Proposed addition in	Social forestry/outside plantation details	Distribution under CSR/Forest area development	Development outside/nearby (1.5 Hectare- 10000 Sampling)
Particulars	Details	Proposed addition in						
Social forestry/outside plantation details	Distribution under CSR/Forest area development	Development outside/nearby (1.5 Hectare- 10000 Sampling)						
4	The Project proponent shall install Solar lights in the adjoining villages in consultation with local Authorities/Forest officials. Details shall be submitted within three months.	<p>We are in discussion with Chief Development officer, Rudrapur and Local Administration to identify the nearby adjoining villages Solar lights installation as proposed in EMP. In this regard, request you to provide us the time extension of two years to complete the requirement.</p> <table><tr><th>Particulars</th><th>Details</th><th>Proposed addition in</th></tr><tr><td>Use of renewable energy/solar power</td><td>100% Renewable power utilization from the grid, Wheeling of solar power</td><td>Wheeling of solar power/Street lights and utilities replacement with solar operated devices</td></tr></table>	Particulars	Details	Proposed addition in	Use of renewable energy/solar power	100% Renewable power utilization from the grid, Wheeling of solar power	Wheeling of solar power/Street lights and utilities replacement with solar operated devices
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Use of renewable energy/solar power	100% Renewable power utilization from the grid, Wheeling of solar power	Wheeling of solar power/Street lights and utilities replacement with solar operated devices						
5	Project proponent shall install Solar lights on the periphery of its premises.	<p>We are in discussion with the management to install solar lights on the periphery of our premises and also, Hindustan Zinc Limited has signed a MOU with Serentica Renewables for solar energy supply (https://www.hzlindia.com/media_press_releases/hindustan-zinc-receives-renewable-power-from-serenticas-180-mw-solar-project/) and the unit will be sourcing solar energy as per the operational requirements accordingly, Refer Annexure-I. In this regard, request you to provide us the time extension of two years to complete the requirement.</p>						

Hindustan Zinc Limited
Pantnagar Metal Plant
Plot No.233, Sector 14, IIE, SIDCUL
Rudrapur - 263153, Uttarakhand

Sensitivity: Internal (CI)

11	The Project proponent shall undertake rain water harvesting activities in the two surrounding villages preferably in the schools, primary health centres in consultation with local authorities.	We are in discussion with Chief Development officer, Rudrapur and Municipal Commissioner, Rudrapur to identify the areas for rain water harvesting activities in the surrounding villages preferably in the schools, primary health centres. In this regard, request you to provide us the time extension of three years to complete the requirement.
33	Action plan for establishment of solar energy shall be submitted to this office within three months.	Hindustan Zinc Limited has signed a MOU with Serentica Renewables for solar energy supply (https://www.hzlindia.com/media_press_releases/hindustan-zinc-receives-renewable-power-from-serenticas-180-mw-solar-project/) and the unit will be sourcing solar energy as per the operational requirements accordingly, Refer Annexure-I . In this regard, request you to provide us the time extension of two years to complete the requirement.
40	Emergency preparedness plan based on risk assessment shall be made and shall be submitted to this office within three months.	Emergency preparedness plan based on risk assessment has been made and submitted to Dy, Chief Inspector (Factories & Boilers) with updates on 27.09.2024. Emergency preparedness plan copy & Submission letter enclosed along with as Annexure-II .
41	The project authority shall submit within the next 3 months the details on quantification of yearwise CER activities along with cost and other details	Action plan for the details on quantification of yearwise CER & CSR activities along with cost and other details (For next 3 years) enclosed as Annexure- III .

Hindustan Zinc Limited
Pantnagar Metal Plant
Plot No.263, Sector 14, IIE, SIDCUL
Rudrapur - 263153, Uttarakhand

Sensitivity: Internal (S3)

Non Judicial



Indian-Non Judicial Stamp Haryana Government



Date : 02/09/2022

Certificate No. G0B202211065



Stamp Duty Paid : ₹ 500

(Rs. Only)

GRN No. 93907741



Penalty : ₹ 0

(Rs. Zero Only)

Seller / First Party Detail

Name: Serentica Renewables india four Private limited
 H.No/Floor : 9floor Sector/Ward : 20 LandMark : Dlf cyber park tower b udyog vihar
 City/Village : Gurugram District : Gurugram State : Haryana
 Phone: 70*****00



Buyer / Second Party Detail

Name : Hindustan Zinc Limited
 H.No/Floor : Na Sector/Ward : Na LandMark : Yashad bhavan
 City/Village : Udaipur District : Udaipur State : Rajasthan
 Phone : 70*****00

Purpose : GENERAL AGREEMENT

The authenticity of this document can be verified by scanning this QRCode Through smart phone or on the website <https://egrashry.nic.in>

Hindustan Zinc Limited
 Panipat Metal Plant
 Plot No. 253, Sector 14, IIE, SIDCUL
 Rudrapur - 263153, Uttarakhand

HZN/NT/2024/21001

Date: 27/09/2024


To,
 Dy. Chief Inspector (Factories & Boilers),
 Shram Bhawan, Haldwani
 Distt: Nainital (U.K.)

Subject: Regarding submission of updated On-site emergency response and contingency plan for Hindustan Zinc Limited- Pantnagar Metal Plant, Rudrapur, Uttarakhand.

Respected Sir,

With reference to the above subject, we are enclosing here the updated onsite emergency response and contingency plan for Hindustan Zinc Limited- Pantnagar Metal Plant, Rudrapur, Uttarakhand, for your kind information and record.

Yours Sincerely,


 (Anamika Iha)
 Factory Manager : U S Nagar (U.K.)

Pantnagar Metal Plant
 Hindustan Zinc Ltd
 Rudrapur, Uttarakhand

11/09/2024
 कार्यालय
 उप निदेशक कारखाना, हावड़ा, उत्तराखण्ड
 प्रशासकी (नैनीताल)

Hindustan Zinc Limited

Pantnagar Metal Plant
 Hindustan Zinc Limited, P.O. Box 10, Pantnagar
 Distt. Nainital, Uttarakhand - 263153

Registered Office: Kasturba Bhawan, Udaipur (Rajasthan) - 313 004
 Tel: +91 294 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ANNEXURE-3



HINDUSTAN ZINC
Zinc & Silver of India

ANNEXURE-III

PROPOSED ACTION PLAN FOR CER & CSR ACTIVITIES

Sr. No	Focus Area	Proposed CER & CSR Budget (Rs. in Lakhs)			
		FY2024-25	FY2025-26	FY2026-27	FY2027-28
1	Water Conservation <ul style="list-style-type: none"> Rainwater Harvesting Pond renovation and beautification in nearby community areas in consultation with local authorities Organizing awareness programs on Water Conservation measures to nearby school/villages 	-	5	5	5
2	Community assets creation <ul style="list-style-type: none"> Installation of solar lights/high mask lights in nearby community/villages in consultation with local authorities/forest officials Seating arrangement installation in garden/park in consultation with local authorities 	-	10	10	5
3	Education <ul style="list-style-type: none"> Capacity building of teachers on quality education through training of trainers – ToT Safety awareness program to summer camp students/in govt. schools/Community on day-to-day routine work Providing skilling training to rural youth through various Project on skill development Upgradation and digitalization of science lab in nearby school to improve the quality of Education 	20	10	10	10

Hindustan Zinc Limited, Registered Office: Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.
T. +91 294-6604000-02 www.hzindia.com CIN: L27204RJ1966PLC001208

Sensitivity: Internal (C1)

Hindustan Zinc Limited
Panchsheel House, 1st Floor
Plot No. 221, Sector 14, IIE, Gurgaon
Rudrapur - 263153, Uttarakhand

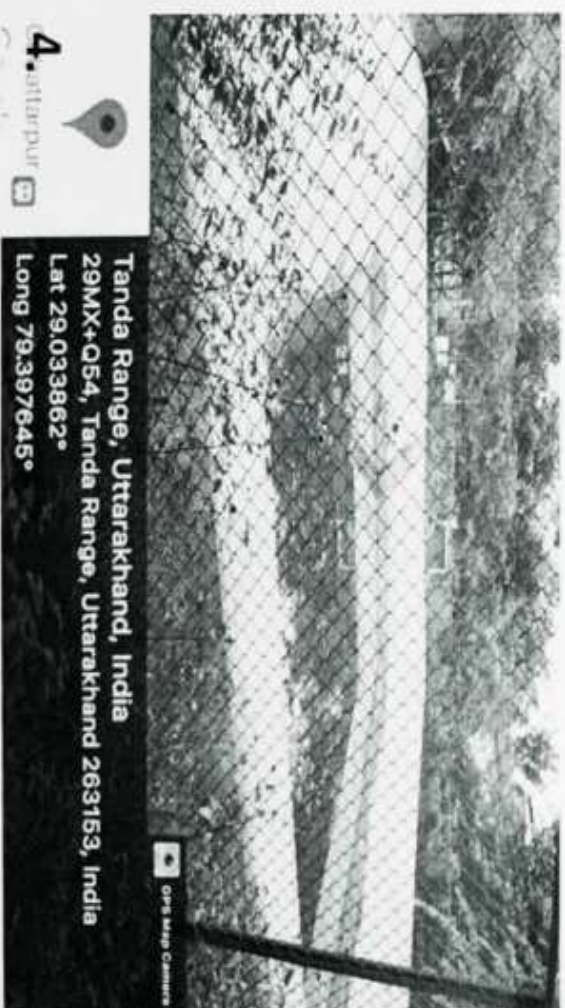
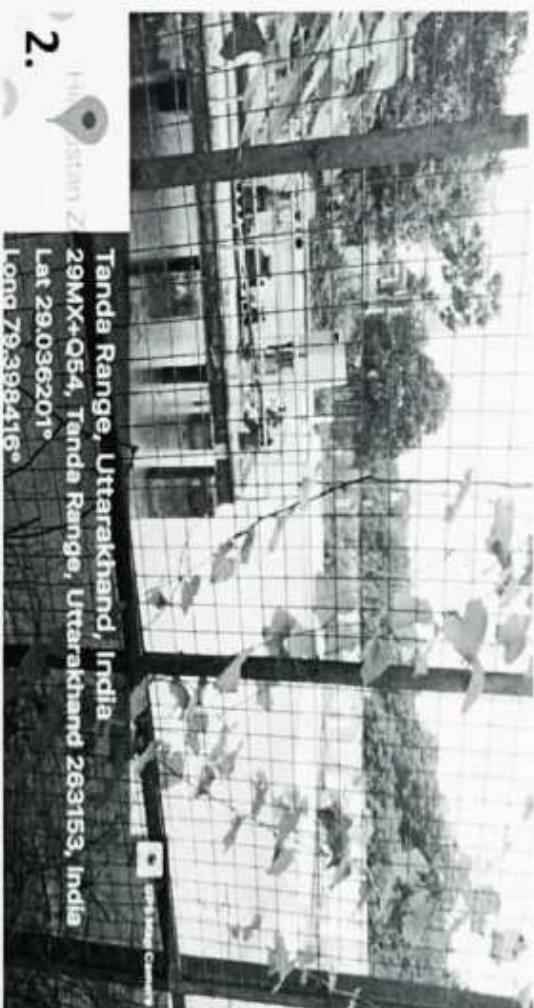
4	Health, Sanitation, Hygiene and Nutrition <ul style="list-style-type: none"> Organizing awareness programs on health issues with the help of medical practitioners. Awareness session on Breastfeeding in nearby community. Mensural Hygiene awareness program in nearby schools with the health/medical team and Eye checkup camp in nearby villages 	30	20	20	20
5	Environment Protection <ul style="list-style-type: none"> Development of nearby area by ensuring the Plantation in consultation with local authorities/forest officials Development/Renovation and beautification of garden/park in consultation with local authorities Promotion of green and red bin system through community participation 	-	10	10	5
6	Women Empowerment <ul style="list-style-type: none"> Establishing skill promotion centers for women in the study area by establishing the vocational training centers in the study area Camp by fisheries department Empowerment of women and strengthening of Self-Help Group through Sakhi Project Skill Development Trainings to SHG Women ME- Providing Micro Enterprises support to SHG women for their sustainability 	70	70	70	70
Grand Total		120	125	125	115


Anamika Jha
 Unit Head
 For HZL Pantnagar Silver Plant

Hindustan Zinc Limited
 Pannagar Silver Plant
 PO No. 263, Sector 14, I.E. SIDCUL
 Rudrapur - 263153, Uttarakhand

ANNEXURE-3

Rain Water Storage Ponds and reuse the water into the process



**TEST REPORT**

Page No.: 1 of 2

TEST REPORT No. NCL/EP-020/31/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : AMBIENT AIR
 Analysis Start Date : 31/03/2025 Analysis End Date : 04/04/2025
 Date of Sampling : 28/03/2025 Sampling Done By : NCL
 Time of Sampling : 02:10 PM (28/03) TO 02:10 PM (29/03) Sampling Location : NEAR MAIN GATE/SECURITY
 Sampling Protocol : IS : 5182 Sample ID No. : NCL/EP-020/31/03/25
 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 : 24°C Wind Direction : East to West
 Weather Conditions : Clear

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specifications
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	80	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	NCL/AIR/STP-09	45	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	20.4	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.67	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	32.5	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	NCL/AIR/STP-13	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
10	Benzo (a) Pyrene (BaP)	ng/m ³	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual=01

EP-020/31/03/25-1



Checked by *Arvind Choudhary*
 Sr Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

Arvind Choudhary
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TEST REPORT No. NCL/EP-020/31/03/25

DATE OF REPORT : 04/04/2025

S.No.	Test Parameters	Units	Test Method	Results	Specifications
11	Arsenic (As)	ng/m3	NCL/AIR/STP-19	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	NCL/AIR/STP-17	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=Below Detection Limit.

EP-020/31/03/25-2



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Arvind Choudhary
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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-016/29/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : AMBIENT AIR
Analysis Start Date : 29/03/2025 Analysis End Date : 04/04/2025
Date of Sampling : 27/03/2025 Sampling Done By : NCL
Time of Sampling : 02:00 PM (27/03) TO 02:00 PM (28/03) Sampling Location : SE CORNER OF LEAD PLANT
Sampling Protocol : IS : 5182 Sample ID No. : NCL/EP-016/29/03/25
Sampling Flow Rate for : 0.5 LPM Sampling Flow Rate of SPM : 1.23 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 : 24°C Wind Direction : East to West
Weather Conditions : Clear

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specifications
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	83	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	NCL/AIR/STP-09	48	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	24.1	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.75	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	36.2	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	NCL/AIR/STP-13	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
10	Benzo (a) Pyrene (BaP)	ng/m ³	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual=01

EP-016/29/03/25-1



Security In Charge
Checked by

Arvind K. Boudhary
Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

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TEST REPORT No. NCL/EP-016/29/03/25

DATE OF REPORT : 04/04/2025

S.No.	Test Parameters	Units	Test Method	Results	Specifications
11	Arsenic (As)	ng/m3	NCL/AIR/STP-19	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	NCL/AIR/STP-17	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=Below Detection Limit.

EP-016/29/03/25-2



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Arvind Choudhary
Sr. Analyst



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TEST REPORT

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TEST REPORT No. NCL/EP-017/29/03/25		DATE OF REPORT : 04/04/2025	
Name and Address of Customer		M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: AMBIENT AIR	Analysis End Date	: 04/04/2025
Analysis Start Date	: 29/03/2025	Sampling Done By	: NCL
Date of Sampling	: 27/03/2025	Sampling Location	: CANTEEN EAST SIDE
Time of Sampling	: 02:00 PM (27/03) TO 02:00 PM (28/03)	Sample ID No.	: NCL/EP-017/29/03/25
Sampling Protocol	: IS : 5182	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	: 24°C	Wind Direction	: East to West
Weather Conditions	: Clear		

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specifications
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	76	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	NCL/AIR/STP-09	40	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	18.7	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.70	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	31.4	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	NCL/AIR/STP-13	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
10	Benzo (a) Pyrene (BaP)	ng/m ³	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual=01

EP-017/29/03/25-1



Security Charge
Checked by

Arvind Choudhary
Sr. Analyst

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TEST REPORT No. NCL/EP-017/29/03/25

DATE OF REPORT : 04/04/2025

S.No.	Test Parameters	Units	Test Method	Results	Specifications
11	Arsenic (As)	ng/m3	NCL/AIR/STP-19	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	NCL/AIR/STP-17	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=Below Detection Limit.

EP-017/29/03/25-2



Arvind Choudhary
Sr. Analyst
Checked by

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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-019/31/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : AMBIENT AIR
Analysis Start Date : 31/03/2025
Date of Sampling : 28/03/2025
Time of Sampling : 02:10 PM (28/03) TO 02:10 PM (29/03)
Sampling Protocol : IS : 5182
Sampling Flow Rate for : 0.5 LPM
Gases
Sampling Duration : 24 Hrs
Equipments Used : Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment
Analysis End Date : 04/04/2025
Sampling Done By : NCL
Sampling Location : BACK SIDE OF DG AREA
Sample ID No. : NCL/EP-019/31/03/25
Sampling Flow Rate of SPM : 1.20 Mtr³/Min (Average)
Sampling Machine Placed at : 3.0 Mtr Height (from ground)

PHYSICAL OBSERVATIONS

Ambient Temperature : 24°C
Weather Conditions : Clear
Wind Direction : East to West

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specifications
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	75	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	NCL/AIR/STP-09	43	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	19.5	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.62	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	35.8	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	NCL/AIR/STP-13	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
10	Benzo (a) Pyrene (BaP)	ng/m ³	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual=01

EP-019/31/03/25-1



Section Incharge
Arvind Choudhary
Checked by
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TEST REPORT No. NCL/EP-019/31/03/25

DATE OF REPORT : 04/04/2025

S.No.	Test Parameters	Units	Test Method	Results	Specifications
11	Arsenic (As)	ng/m3	NCL/AIR/STP-19	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	ng/m3	NCL/AIR/STP-17	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=Below Detection Limit.

EP-019/31/03/25-2



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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-041/31/03/25/A	ULR No.:TC1262125000006048F	DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: Ground Water	Analysis End Date	: 04/04/2025
Analysis Start Date	: 31/03/2025	Sample ID No.	: NCL/EP-041/31/03/25
Date of Sampling	: 29/03/2025	Sample Receipt Date	: 31/03/2025
Time of Sampling	: 02:00 PM	Environmental Condition	: 27±2°C
Sampling Done By	: NCL		
Sample Description	: Ground Water		
Sampling Location	: Borewell		
Sampling Protocol	: IS:17614 (P-1)	Sample Quantity	: 10+1 Ltr
Packing Condition	: Sealed	Packing	: PVC CANE

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
Organoleptic and Physical Parameter						
1	Colour	Hazen	IS : 3025 (P-4)	BDL(DL-1.0)	5.0	15
2	Odour	--	IS : 3025 (P-5)	Agreeable	Agreeable	Agreeable
3	Taste	--	IS : 3025 (P-7/8)	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	IS : 3025 (P-10)	BDL(DL-1.0)	1.0	5.0
5	pH Value	--	IS : 3025 (P-11)	7.98	6.5-8.5	No Relaxation
6	Total Dissolved Solids	mg/L	IS : 3025 (P-16)	274	500	2000
General Parameter						
7	Total Hardness (as CaCO3)	mg/L	IS : 3025 (P-21)	126	200	600
8	Calcium (as Ca)	mg/L	IS : 3025 (P-40)	32	75	200
9	Magnesium (as Mg)	mg/L	APHA 3500 (mg)	11.2	30	100
10	Total Alkalinity (as CaCO3)	mg/L	IS : 3025 (P-23)	65	200	600
11	Chloride (as Cl)	mg/L	IS : 3025 (P-32)	84	250	1000
12	Nitrate (as NO3)	mg/L	IS : 3025 (P-34)	BDL(DL-0.2)	45	No Relaxation
13	Nitrite (as NO2)	mg/L	IS : 3025 (P-34)	BDL (DL-0.5)	Not Specified	Not Specified

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TEST REPORT No. NCL/EP-041/31/03/25/A ULR No.:TC1262125000006048F DATE OF REPORT :04/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
14	Sulphate (as SO ₄)	mg/L	IS : 3025 (P-24)	4.2	200	400
15	Sulphide (as H ₂ S)	mg/L	IS : 3025 (P-29)	BDL(DL-0.01)	0.05	No Relaxation
16	Fluoride (as F)	mg/L	APHA 4500-F-D	BDL(DL-0.1)	1.0	1.5
17	Chloramines (as Cl ₂)	mg/L	IS : 3025 (P-26)	BDL(DL-0.1)	4.0	No Relaxation
18	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS : 3025 (P-43)	BDL(DL-0.0005)	0.001	0.002
19	Anionic Surfactant (as MBAS)	mg/L	IS : 3025 (P-68)	BDL(DL-0.1)	0.2	1.0
20	Hexavalent Chromium (as Cr+6)	mg/L	IS : 3025 (P-52)	BDL(DL-0.01)	Not Specified	Not Specified
21	Mineral Oil	mg/L	IS : 3025 (P-39)	BDL(DL-0.1)	0.5	No Relaxation
22	Sodium (as Na)	mg/L	APHA 3500 Na (B)	BDL(DL-10.0)	Not Specified	Not Specified
23	Potassium (as K)	mg/L	APHA 3500 K (B)	BDL(DL-1.0)	Not Specified	Not Specified
Heavy Metals Parameter						
24	Iron (as Fe)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	1.0	No Relaxation
25	Zinc (as Zn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	5.0	15.0
26	Boron (as B)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.5	1.0
27	Nickel (as Ni)	mg/L	IS : 3025 (P-65)	BDL(DL-0.005)	0.02	No Relaxation
28	Manganese (as Mn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.1	0.3
29	Lead (as Pb)	mg/L	IS : 3025 (P-65)	BDL(DL-0.005)	0.01	No Relaxation
30	Copper (as Cu)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.05	1.5
31	Chromium (as Cr)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.05	No Relaxation
32	Aluminium (as Al)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.03	0.2
Microbiological Parameter						
33	E.Coli	MPN/100ml	IS : 1622	<2	Not Specified	Not Specified
34	Total Coliform	MPN/100ml	IS : 1622	<2	Not Specified	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

*Parameters are outsource tested from other Lab. Report No. SQC/NR-24071101

EP-041/31/03/25-2



Arvind Choudhary
Sr. Analyst
Checked by
Soni
Section Incharge

Arvind Choudhary
Sr. Analyst



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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-041/31/03/25/B		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: Ground Water	Analysis End Date	: 04/04/2025
Analysis Start Date	: 31/03/2025	Sample ID No.	: NCL/EP-041/31/03/25
Date of Sampling	: 29/03/2025	Sample Receipt Date	: 31/03/2025
Time of Sampling	: 02:00 PM	Environmental Condition	: 27±2°C
Sampling Done By	: NCL		
Sample Description	: Ground Water		
Sampling Location	: Borewell		
Sampling Protocol	: IS:17614 (P-1)	Sample Quantity	: 10+1 Ltr
Packing Condition	: Sealed	Packing	: PVC CANE

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
1	Ammonia (as total Ammonia)	mg/L	IS : 3025 (P-34)	BDL(DL-0.2)	0.5	No Relaxation
2	Selenium (as Se)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
3	Arsenic (as As)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
4	Cadmium (as Cd)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.003	No Relaxation
5	Molybdenum (as Mo)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.07	No Relaxation
6	Silver (as Ag)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.1	No Relaxation
7	Barium (as Ba)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.7	No Relaxation
8	Mercury (as Hg)	mg/L	IS : 3025 (P-65)	BDL(DL-0.0005)	0.001	No Relaxation
Pesticides Residue						
9	Poly Chlorinated Biphenyls (PCB)	mg/L	APHA 6431 B	BDL(DL-0.00005)	0.0005	No Relaxation
10	Polynuclear Aromatic Hydrocarbon (PAH)	mg/L	APHA 6440	BDL(DL-0.00005)	0.0001	No Relaxation
11	Alachlor	µg/L	USEPA 525.2	BDL(DL-0.005)	20.0	No Relaxation
12	Atrazine	µg/L	USEPA 525.2	BDL(DL-0.005)	2.0	No Relaxation

EP-041/31/03/25-1



Arvind Choudhary
Checked by Analyst

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TEST REPORT No. NCL/EP-041/31/03/25/B

DATE OF REPORT : 04/04/2025

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
13	Aldrin	µg/L	USEPA 508	BDL(DL-0.005)	0.03	No Relaxation
14	Dieldrin	µg/L	USEPA 508	BDL(DL-0.005)	0.03	No Relaxation
15	Alpha HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.01	No Relaxation
16	Beta HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.04	No Relaxation
17	Butachlor	µg/L	USEPA 525.2	BDL(DL-0.005)	125.0	No Relaxation
18	Chlorpyrifos	µg/L	USEPA 525.2	BDL(DL-0.005)	30.0	No Relaxation
19	Delta HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.04	No Relaxation
20	2,4 dichlorophenoxyacetic acid	µg/L	USEPA 515.1	BDL(DL-0.001)	30.0	No Relaxation
21	4,4-DDE	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
22	4,4-DDD	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
23	4,4-DDT	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
24	2,4-DDD	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
25	2,4-DDT	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
26	2,4-DDE	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
Trihalomethane						
27	Bromoform	mg/L	NCL/SOP/INST/112	BDL(DL-0.01)	0.1	No Relaxation
28	Dibromochloromethane	mg/L	NCL/SOP/INST/112	BDL(DL-0.01)	0.1	No Relaxation
29	Bromodichloromethane	mg/L	NCL/SOP/INST/112	BDL(DL-0.01)	0.06	No Relaxation
30	Chloroform	mg/L	NCL/SOP/INST/112	BDL(DL-0.01)	0.2	No Relaxation
Radioactive Parameters						
31	Gross Alpha*	Bq/l	IS: 14194 (P-2) 2022	BDL	Not Specified	Not Specified
32	Gross Beta*	Bq/l	IS: 14194 (P-2) 2022	BDL	Not Specified	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

*Parameters are outsource tested from other Lab. Report No. SQC/NR-24071101

EP-041/31/03/25-2



Arvind Choudhary
Sr. Analyst

Checked by



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-008/04/11/24/A		DATE OF REPORT : 09/11/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 09/11/2024
Analysis Start Date	: 04/11/2024	Sample ID No.	: NCL/EP-008/04/11/24
Date of Sampling	: 30/10/2024	Sample Receipt Date	: 04/11/2024
Time of Sampling	: 02:20 PM	Environmental Condition	: 25±2°C
Sampling Done By	: NCL		
Sample Description	: SOIL SAMPLE		
Sampling Location	: Back side of Training Center Near Logistic Office		
Sampling Protocol	: BIS & APHA TEST METHOD	Sample Quantity	: 1 Kg
Packing Condition	: Sealed	Packing	: Poly Pack

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results
1	pH (1:2.5 Suspension)	--	IS : 2720 (P-26)	8.20
2	Sodium Available (as Na)	mg/kg	STP/NCL/SOIL/02	96
3	Potassium Available (as K)	mg/kg	IS : 11260	138
4	Bulk Density	g/cc	STP/NCL/SOIL/05	1.27
5	Phosphorus (as P)	mg/kg	IS : 10158	8.2
6	Chlorides (Cl)	mg/Kg	STP/NCL/SOIL/06	260
7	Electrical Conductivity at 25° C (Suspension)	µS/cm	IS:14767	198
8	Total Kjeldahl Nitrogen	mg/Kg	IS : 14684	3.6
9	Zinc (as Zn)	mg/Kg	STP/NCL/SOIL/04	17.5
10	Lead (as Pb)	mg/Kg	STP/NCL/SOIL/04	273.64
11	Cadmium (as Cd)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
12	Copper (as Cu)	mg/Kg	STP/NCL/SOIL/04	122.03
13	Arsenic (as As)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
14	Nickel (as Ni)	mg/Kg	STP/NCL/SOIL/04	71.85
15	Organic Carbon	%	IS:2720 (P-22)	1.41

End of Report

Remarks : BDL=Below Detection Limit.

EP-008/04/11/24-1



Checked by

SONU

Section Incharge

NCL/008/04/11/24

FOR NEWCON CONSULTANTS & LABORATORIES

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TEST REPORT

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TEST REPORT No. NCL/EP-008/04/11/24/B		DATE OF REPORT : 09/11/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 09/11/2024
Analysis Start Date	: 04/11/2024	Sample ID No.	: NCL/EP-008/04/11/24
Date of Sampling	: 30/10/2024	Sample Receipt Date	: 04/11/2024
Time of Sampling	: 02:20 PM	Environmental Condition	: 25±2°C
Sampling Done By	: NCL		
Sample Description	: SOIL SAMPLE		
Sampling Location	: Back side of Training Center Near Logistic Office		
Sampling Protocol	: BIS & APHA TEST METHOD	Sample Quantity	: 1 Kg
Packing Condition	: Sealed	Packing	: Poly Pack

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results
1	Antimony (as Sb)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
2	Bismuth (as Bi)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
3	Salinity	--	IS:11624	Low Saline

End of Report

Remarks : BDL=Below Detection Limit.

EP-008/04/11/24-1



Checked by

Arvind Choudhary
Sr. Analyst



FOR NEWCON CONSULTANTS & LABORATORIES

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TEST REPORT

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TEST REPORT No. NCL/EP-009/04/11/24/A		DATE OF REPORT : 09/11/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 09/11/2024
Analysis Start Date	: 04/11/2024	Sample ID No.	: NCL/EP-009/04/11/24
Date of Sampling	: 30/10/2024	Sample Receipt Date	: 04/11/2024
Time of Sampling	: 02:30 PM	Environmental Condition	: 25±2°C
Sampling Done By	: NCL		
Sample Description	: SOIL SAMPLE		
Sampling Location	: Front Side of Contractor Canteen		
Sampling Protocol	: BIS & APHA TEST METHOD	Sample Quantity	: 1 Kg
Packing Condition	: Sealed	Packing	: Poly Pack

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results
1	pH (1:2.5 Suspension)	--	IS : 2720 (P-26)	8.33
2	Sodium Available (as Na)	mg/kg	STP/NCL/SOIL/02	108
3	Potassium Available (as K)	mg/kg	IS : 11260	144
4	Bulk Density	g/cc	STP/NCL/SOIL/05	1.24
5	Phosphorus (as P)	mg/kg	IS : 10158	8.4
6	Chlorides (Cl)	mg/Kg	STP/NCL/SOIL/06	280
7	Electrical Conductivity at 25° C (Suspension)	µS/cm	IS:14767	210
8	Total Kjeldahl Nitrogen	mg/Kg	IS : 14684	3.8
9	Zinc (as Zn)	mg/Kg	STP/NCL/SOIL/04	17.9
10	Lead (as Pb)	mg/Kg	STP/NCL/SOIL/04	275.58
11	Cadmium (as Cd)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
12	Copper (as Cu)	mg/Kg	STP/NCL/SOIL/04	84.79
13	Arsenic (as As)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
14	Nickel (as Ni)	mg/Kg	STP/NCL/SOIL/04	82.23
15	Organic Carbon	%	IS:2720 (P-22)	1.38

End of Report

Remarks : BDL=Below Detection Limit.

EP-009/04/11/24-1



Checked by
Sonu

SONU
Section Incharge



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TEST REPORT

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TEST REPORT No. NCL/EP-009/04/11/24/B		DATE OF REPORT : 09/11/2024
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 09/11/2024
Analysis Start Date	: 04/11/2024	Sample ID No.	: NCL/EP-009/04/11/24
Date of Sampling	: 30/10/2024	Sample Receipt Date	: 04/11/2024
Time of Sampling	: 02:30 PM	Environmental Condition	: 25±2°C
Sampling Done By	: NCL		
Sample Description	: SOIL SAMPLE		
Sampling Location	: Front Side of Contractor Canteen		
Sampling Protocol	: BIS & APHA TEST METHOD	Sample Quantity	: 1 Kg
Packing Condition	: Sealed	Packing	: Poly Pack

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results
1	Antimony (as Sb)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
2	Bismuth (as Bi)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
3	Salinity	--	IS:11624	Low Saline

End of Report

Remarks : BDL=Below Detection Limit.

EP-009/04/11/24-1



Checked by
Arvind Choudhary
Sr. Analyst



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Authorized Signatory



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-007/04/11/24/A

DATE OF REPORT : 09/11/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED
Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAILS

Sample Name : SOIL SAMPLE
Analysis Start Date : 04/11/2024
Date of Sampling : 30/10/2024
Time of Sampling : 02:10 PM
Sampling Done By : NCL
Sample Description : SOIL SAMPLE
Sampling Location : From Plot No-1 (Old Plot)
Sampling Protocol : BIS & APHA TEST METHOD
Packing Condition : Sealed
Analysis End Date : 09/11/2024
Sample ID No. : NCL/EP-007/04/11/24
Sample Receipt Date : 04/11/2024
Environmental Condition : 25±2°C
Sample Quantity : 1 Kg
Packing : Poly Pack

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results
1	pH (1:2.5 Suspension)	—	IS : 2720 (P-26)	8.02
2	Sodium Available (as Na)	mg/kg	STP/NCL/SOIL/02	120
3	Potassium Available (as K)	mg/kg	IS : 11260	152
4	Bulk Density	g/cc	STP/NCL/SOIL/05	1.32
5	Phosphorus (as P)	mg/kg	IS : 10158	9.2
6	Chlorides (Cl)	mg/Kg	STP/NCL/SOIL/06	292
7	Electrical Conductivity at 25° C (Suspension)	µS/cm	IS:14767	376
8	Total Kjeldahl Nitrogen	mg/Kg	IS : 14684	4.6
9	Zinc (as Zn)	mg/Kg	STP/NCL/SOIL/04	17.2
10	Lead (as Pb)	mg/Kg	STP/NCL/SOIL/04	406.09
11	Cadmium (as Cd)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
12	Copper (as Cu)	mg/Kg	STP/NCL/SOIL/04	368.87
13	Arsenic (as As)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
14	Nickel (as Ni)	mg/Kg	STP/NCL/SOIL/04	87.31
15	Organic Carbon	%	IS:2720 (P-22)	1.40

End of Report

Remarks : BDL=Below Detection Limit.

EP-007/04/11/24-1



Arvind Choudhary
Sr Analyst
Checked by



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TEST REPORT

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

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 09/11/2024
Analysis Start Date	: 04/11/2024	Sample ID No.	: NCL/EP-007/04/11/24
Date of Sampling	: 30/10/2024	Sample Receipt Date	: 04/11/2024
Time of Sampling	: 02:10 PM	Environmental Condition	: 25±2°C
Sampling Done By	: NCL		
Sample Description	: SOIL SAMPLE		
Sampling Location	: From Plot No-1 (Old Plot)		
Sampling Protocol	: BIS & APHA TEST METHOD	Sample Quantity	: 1 Kg
Packing Condition	: Sealed	Packing	: Poly Pack

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results
1	Antimony (as Sb)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
2	Bismuth (as Bi)	mg/Kg	STP/NCL/SOIL/04	BDL(DL-0.05)
3	Salinity	--	IS:11624	Low Saline

End of Report

Remarks : BDL=Below Detection Limit.

EP-007/04/11/24-1



Checked by

Choudhary
Sr. Analyst



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-024/31/03/25/A		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Workzone Air	Analysis End Date	: 04/04/2025
Analysis Start Date	: 31/03/2025	Sampling Done By	: NCL
Date of Sampling	: 29/03/2025	Equipments Used	: Handy Sampler
Time of Sampling	: 09:00 AM TO 05:00 PM		
Sampling Location	: Silver Furnace Floor	Sample ID No.	: NCL/EP-024/31/03/25
Sampling Protocol	: IS : 5182	Sample Duration	: 8 Hrs
Ambient Temperature	: 27°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)	0.080	5.0
2	Sulphur Dioxide (as SO2)	mg/m³	IS:5182 (Part 2)	0.0154	5.0
3	Carbon Monoxide (as CO)	mg/m³	IS:15206	0.68	55.0
4	Nitrogen Dioxide (as NO2)	mg/m³	IS:5182 (Part 6)	0.0281	5.0
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-024/31/03/25-1



Checked by
J. HINDU
Senior Analyst

Arvind Shoudhary
Senior Analyst

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-024/31/03/25/B		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Workzone Air
Analysis Start Date : 31/03/2025 Analysis End Date : 04/04/2025
Date of Sampling : 29/03/2025 Sampling Done By : NCL
Time of Sampling : 09:00 AM TO 05:00 PM Equipments Used : Handy Sampler
Sampling Location : Silver Furnace Floor Sample ID No. : NCL/EP-024/31/03/25
Sampling Protocol : IS : 5182 Sample Duration : 8 Hrs
Ambient Temperature : 27°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-024/31/03/25-1



Checked by
[Signature]

Arvind Chaudhary
Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
[Signature]

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-025/31/03/25/A		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Workzone Air
Analysis Start Date : 31/03/2025 Analysis End Date : 04/04/2025
Date of Sampling : 29/03/2025 Sampling Done By : NCL
Time of Sampling : 09:30 AM TO 05:30 PM Equipments Used : Handy Sampler
Sampling Location : Bag Filter Area Silver Plant Sample ID No. : NCL/EP-025/31/03/25
Sampling Protocol : IS : 5182 Sample Duration : 8 Hrs
Ambient Temperature : 27°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)	0.068	5.0
2	Sulphur Dioxide (as SO ₂)	mg/m ³	IS:5182 (Part 2)	0.0127	5.0
3	Carbon Monoxide (as CO)	mg/m ³	IS:15206	0.55	55.0
4	Nitrogen Dioxide (as NO ₂)	mg/m ³	IS:5182 (Part 6)	0.0247	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-025/31/03/25-1



Arvind Choudhary
Sr. Analyst
Checked by

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Page No.: 1 of 1

TEST REPORT No. NCL/EP-025/31/03/25/B		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Workzone Air
 Analysis Start Date : 31/03/2025
 Date of Sampling : 29/03/2025
 Time of Sampling : 09:30 AM TO 05:30 PM
 Sampling Location : Bag Filter Area Silver Plant
 Sampling Protocol : IS : 5182
 Ambient Temperature : 27°C
 Analysis End Date : 04/04/2025
 Sampling Done By : NCL
 Equipments Used : Handy Sampler
 Sample ID No. : NCL/EP-025/31/03/25
 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-025/31/03/25-1




 Section Incharge
 Checked by

Arvind Ghosh
 Analyst

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TEST REPORT No. NCL/EP-026/31/03/25/A		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Workzone Air
Analysis Start Date : 31/03/2025 Analysis End Date : 04/04/2025
Date of Sampling : 29/03/2025 Sampling Done By : NCL
Time of Sampling : 10:00 AM TO 06:00 PM Equipments Used : Handy Sampler
Sampling Location : Hydro Top Floor of Silver Sample ID No. : NCL/EP-026/31/03/25
Sampling Protocol : IS : 5182 Sample Duration : 8 Hrs
Ambient Temperature : 27°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)	0.080	5.0
2	Sulphur Dioxide (as SO2)	mg/m³	IS:5182 (Part 2)	0.0152	5.0
3	Carbon Monoxide (as CO)	mg/m³	IS:15206	0.64	55.0
4	Nitrogen Dioxide (as NO2)	mg/m³	IS:5182 (Part 5)	0.0262	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-026/31/03/25-1



JITIN KUMAR
Section Manager
Checked by

Arvind Choudhary
Analyst

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TEST REPORT No. NCL/EP-026/31/03/25/B		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Workzone Air	Analysis End Date	: 04/04/2025
Analysis Start Date	: 31/03/2025	Sampling Done By	: NCL
Date of Sampling	: 29/03/2025	Equipments Used	: Handy Sampler
Time of Sampling	: 10:00 AM TO 06:00 PM		
Sampling Location	: Hydro Top Floor of Silver	Sample ID No.	: NCL/EP-026/31/03/25
Sampling Protocol	: IS : 5182	Sample Duration	: 8 Hrs
Ambient Temperature	: 27°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-026/31/03/25-1



JEFANIL
Section Incharge
Checked by

Arvind Choudhary
Sr. Analyst

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TEST REPORT No. NCL/EP-017/31/03/25		DATE OF REPORT :04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : STACK EMISSION
Analysis Start Date : 31/03/2025 Analysis End Date : 04/04/2025
Date of Sampling : 29/03/2025 Sampling Done By : NCL
Sampling Protocol : IS : 11255 Duration of Sampling : 30 Minutes
Sample ID No. : NCL/EP-017/31/03/25
Sampling Location : Silver Main Stack
Equipments Used : Vayubodhan Stack Sampler No-1 Area Category :
VSS-1 (S.No-321 DTC 01)

DETAILS OF STACK

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

PHYSICAL OBSERVATIONS

Ambient Temperature : 24°C Flue gas temperature : 98°C
Velocity of the flue gases : 7.62 mtr/sec Sampling Flow Rate of SPM : 26.0 LPM
Sampling Flow Rate for Gases : 1.8 LPM Quantity of Emission discharged : 43115 Nm³/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)	14	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)	24	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	IS:11255 (Part-15)	BDL(DL-1.0)	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

EP-017/31/03/25-1



STENDER
Section Incharge
Checked by

Arvind Choudhary
Analyst

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TEST REPORT

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TEST REPORT No. NCL/EP-018/31/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 04/04/2025
Analysis Start Date	: 31/03/2025	Sampling Done By	: NCL
Date of Sampling	: 29/03/2025	Duration of Sampling	: 30 Minutes
Sampling Protocol	: IS : 11255	Sample ID No.	: NCL/EP-018/31/03/25
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	: 24°C	Flue gas temperature	: 70°C
Velocity of the flue gases	: 7.26 mtr/sec	Sampling Flow Rate of SPM	: 27.0 LPM
Sampling Flow Rate for Gases	: 1.7 LPM	Quantity of Emission discharged	: 21001 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)	27	150
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS:11255 (Part-2)	7	Not Specified
3	Oxides of Nitrogen (NO _x)	mg/Nm ³	IS:11255 (Part-7)	33	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	IS:11255 (Part-15)	BDL(DL-1.0)	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

EP-018/31/03/25-1



JITENDR
Sector Incharge
Checked by

Arvind Choudhary
Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

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TEST REPORT

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TEST REPORT No. NCL/EP-023/29/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Ambient Noise
 Analysis Start Date : 29/03/2025 Analysis End Date : 29/03/2025
 Date of Monitoring : 28/03/2025 Monitoring Done By : NCL
 Monitoring Duration : 10 Minutes Place of Monitoring : BACK SIDE OF DG AREA
 Time of Monitoring : 10:20 AM TO 10:30 AM Protocol : NCL/AIR/STP/20
 Category of Area : Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	67.4	68.1	68.6	69.2	69.7	71.4	71.8	72.4	70.1	70.5

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	69.9	-
2	L Max	72.4	-
3	L Min	67.4	-
4	Day Leq	70.1	75.0 Max

End of Report

EP-023/29/03/25-1



MANAGER
In Charge
Checked by

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TEST REPORT

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TEST REPORT No. NCL/EP-024/29/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Ambient Noise	Analysis End Date	: 29/03/2025
Analysis Start Date	: 29/03/2025	Monitoring Done By	: NCL
Date of Monitoring	: 28/03/2025	Place of Monitoring	: BACK SIDE OF DG AREA
Monitoring Duration	: 10 Minutes	Protocol	: NCL/AIR/STP/20
Time of Monitoring	: 10:20 PM TO 10:30 PM		
Category of Area	: Industrial Area		

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Night Time Reading (dB(A))	54.6	55.1	55.8	56.2	56.7	58.2	58.9	57.1	57.5	59.2

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	56.9	-
2	L Max	59.2	-
3	L Min	54.6	-
4	Night Leq	57.1	70.0 Max

End of Report

EP-024/29/03/25-1



[Signature]
Section Incharge
Checked by

FOR NEWCON CONSULTANTS & LABORATORIES
[Signature]
Authorized Signatory
NCL

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TEST REPORT No. NCL/EP-021/29/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Ambient Noise
Analysis Start Date : 29/03/2025 **Analysis End Date** : 29/03/2025
Date of Monitoring : 28/03/2025 **Monitoring Done By** : NCL
Monitoring Duration : 10 Minutes **Place of Monitoring** : Near Compressor Area
Time of Monitoring : 10:00 AM TO 10:10 AM **Protocol** : NCL/AIR/STP/20
Category of Area : Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	68.5	68.9	70.6	70.8	71.4	71.8	72.3	72.7	69.4	71.2

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	70.8	-
2	L Max	72.7	-
3	L Min	68.5	-
4	Day Leq	71.0	75.0 Max

End of Report

EP-021/29/03/25-1



Checked by
[Signature]



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TC-12621

TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-022/29/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Ambient Noise
 Analysis Start Date : 29/03/2025 Analysis End Date : 29/03/2025
 Date of Monitoring : 28/03/2025 Monitoring Done By : NCL
 Monitoring Duration : 10 Minutes Place of Monitoring : Near Compressor Area
 Time of Monitoring : 10:00 PM TO 10:10 PM Protocol : NCL/AIR/STP/20
 Category of Area : Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Night Time Reading (dB(A))	58.4	59.2	59.7	61.4	62.3	60.6	63.1	63.9	60.4	58.6

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	60.6	-
2	L Max	63.9	-
3	L Min	58.4	-
4	Night Leq	61.0	70.0 Max

End of Report

EP-022/29/03/25-1



Checked by
[Signature]

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory
[Signature]

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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.
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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-026/29/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Ambient Noise
Analysis Start Date : 29/03/2025 Analysis End Date : 29/03/2025
Date of Monitoring : 28/03/2025 Monitoring Done By : NCL
Monitoring Duration : 10 Minutes Place of Monitoring : NEAR MAIN GATE
Time of Monitoring : 10:40 AM TO 10:50 AM Protocol : NCL/AIR/STP/20
Category of Area : Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	65.1	65.5	66.2	66.7	67.1	67.5	67.9	68.4	68.8	69.2

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	67.2	-
2	L Max	69.2	-
3	L Min	65.1	-
4	Day Leq	67.4	75.0 Max

End of Report

EP-026/29/03/25-1



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-025/29/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Ambient Noise	Analysis End Date	: 29/03/2025
Analysis Start Date	: 29/03/2025	Monitoring Done By	: NCL
Date of Monitoring	: 28/03/2025	Place of Monitoring	: NEAR MAIN GATE
Monitoring Duration	: 10 Minutes	Protocol	: NCL/AIR/STP/20
Time of Monitoring	: 11:40 PM TO 11:50 PM		
Category of Area	: Industrial Area		

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Night Time Reading (dB(A))	54.4	54.9	55.2	55.6	56.1	56.4	57.3	57.8	59.4	58.2

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	56.5	-
2	L Max	59.4	-
3	L Min	54.4	-
4	Night Leq	56.7	70.0 Max

End of Report

EP-025/29/03/25-1



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TC-12621

TEST REPORT

Page No : 1 of 1

TEST REPORT No. NCL/EP-027/29/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Ambient Noise
Analysis Start Date : 29/03/2025 Analysis End Date : 29/03/2025
Date of Monitoring : 28/03/2025 Monitoring Done By : NCL
Monitoring Duration : 10 Minutes Place of Monitoring : EAST SIDE OF CANTEEN IN NEW PLANT
Time of Monitoring : 11:10 AM TO 11:20 AM Protocol : NCL/AIR/STP/20
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	64.4	65.1	65.5	66.2	66.7	67.2	67.8	68.5	68.9

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	66.4	-
2	L Max	68.9	-
3	L Min	63.8	-
4	Day Leq	66.6	75.0 Max

End of Report

EP-027/29/03/25-1



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-028/29/03/25		DATE OF REPORT : 04/04/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Ambient Noise
Analysis Start Date : 29/03/2025 Analysis End Date : 29/03/2025
Date of Monitoring : 28/03/2025 Monitoring Done By : NCL
Monitoring Duration : 10 Minutes Place of Monitoring : EAST SIDE OF CANTEEN IN NEW PLANT
Time of Monitoring : 11:10 PM TO 11:20 PM Protocol : NCL/AIR/STP/20
Category of Area : Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Night Time Reading (dB(A))	52.8	53.2	53.7	54.4	54.9	55.6	56.3	56.7	57.1	57.8

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	55.3	-
2	L Max	57.8	-
3	L Min	52.8	-
4	Night Leq	55.5	70.0 Max

End of Report

EP-028/29/03/25-1



JITENDER
Secty in Charge
Checked by

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory

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भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Hindustan Zinc Ltd.		
Project Address:	Plot No. 2 And 3, Sector-14, Iie, Pantnagar, Uddham Singh Nagar, Uttarakhand		
Town:	Rudrapur (mb + Og)	Block:	Rudrapur
District:	Udam Singh Nagar	State:	Uttarakhand
Pin Code:			
Communication Address:	Hindustan Zinc Limited, Plot- 2-3, Sec-14, Iie, Sidcul, Pantnagar, Uddham Singh Nagar, Uttarakhand, Rudrapur, Udam Singh Nagar, Uttarakhand - 263153		
Address of CGWB Regional Office :	Central Ground Water Board Uttarakhand Region, 419-a, Kanwali Road, Baluwala , Near Urja Bhawan, Dehradun, Dehradun, Uttarakhand - 248001		

- | | | | |
|----------------------------|------------------------------|----------------------------|------------|
| 1. NOC No.: | CGWA/NOC/IND/REN/2/2023/8194 | 2. Date of Issuance | 06/09/2023 |
| 3. Application No.: | 21-4/387/UT/IND/2017 | 4. Category: | Safe |
| | | (GWRE 2022) | |
| 5. Project Status: | Existing Ground Water | 6. NOC Type: | Renewal |
| 7. Valid from: | 27/09/2023 | 8. Valid up to: | 26/09/2026 |

9. Ground Water Abstraction Permitted:

Fresh Water		Saline Water		Dewatering		Total	
m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year	m ³ /day	m ³ /year
260.00	94900.00						

10. Details of ground water abstraction /Dewatering structures

	Total Existing No.:1						Total Proposed No.:0					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*	0	0	1	0	0	0	0	0	0	0	0	0

*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps

11. Ground Water Abstraction/Restoration Charges paid (Rs.): 237250.00

12. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.

	No. of Piezometers	Monitoring Mechanism
		Manual DWLR** DWLR With Telemetry
**DWLR - Digital Water Level Recorder	1	0
		1
		0

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³ /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/Court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).
- 31) In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ failed BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency/ agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to failing in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

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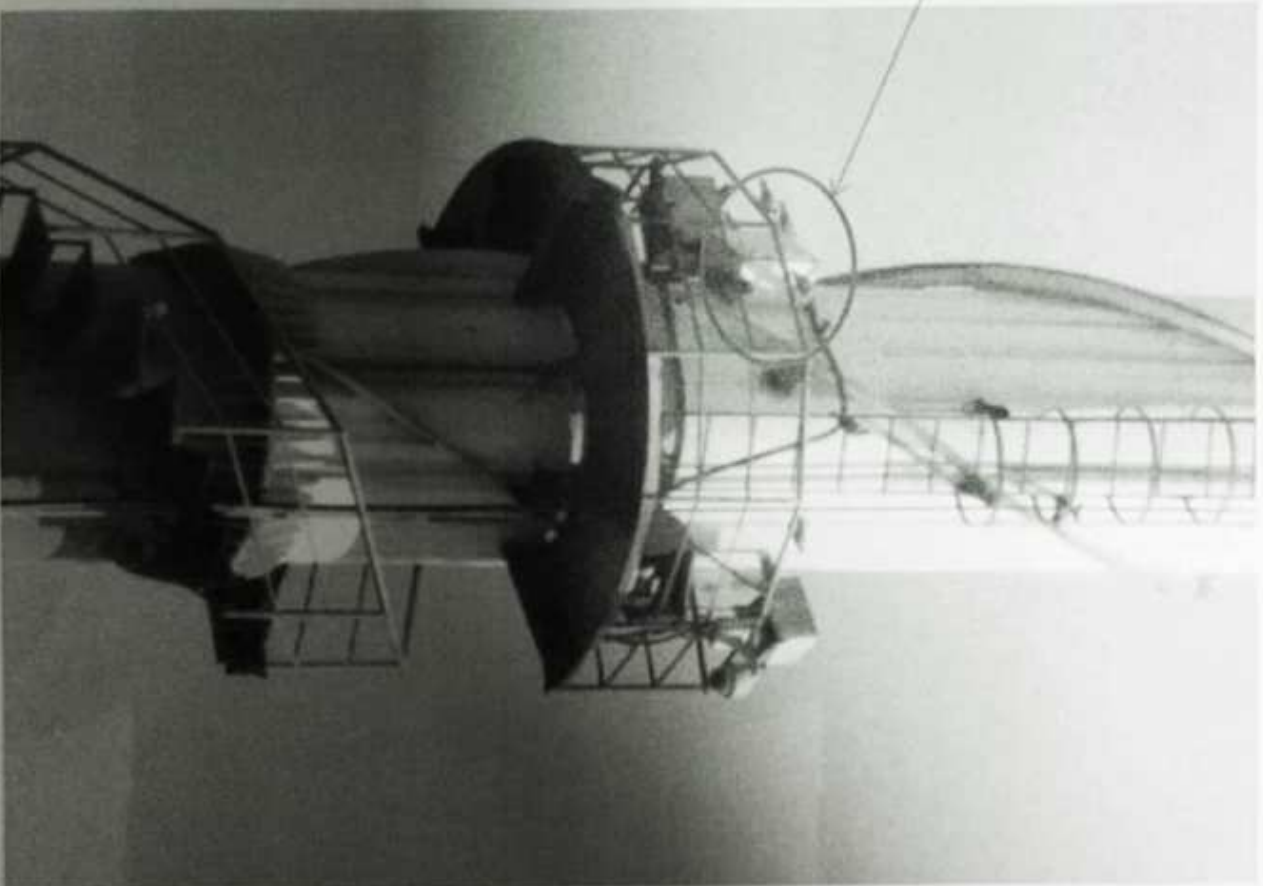
Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

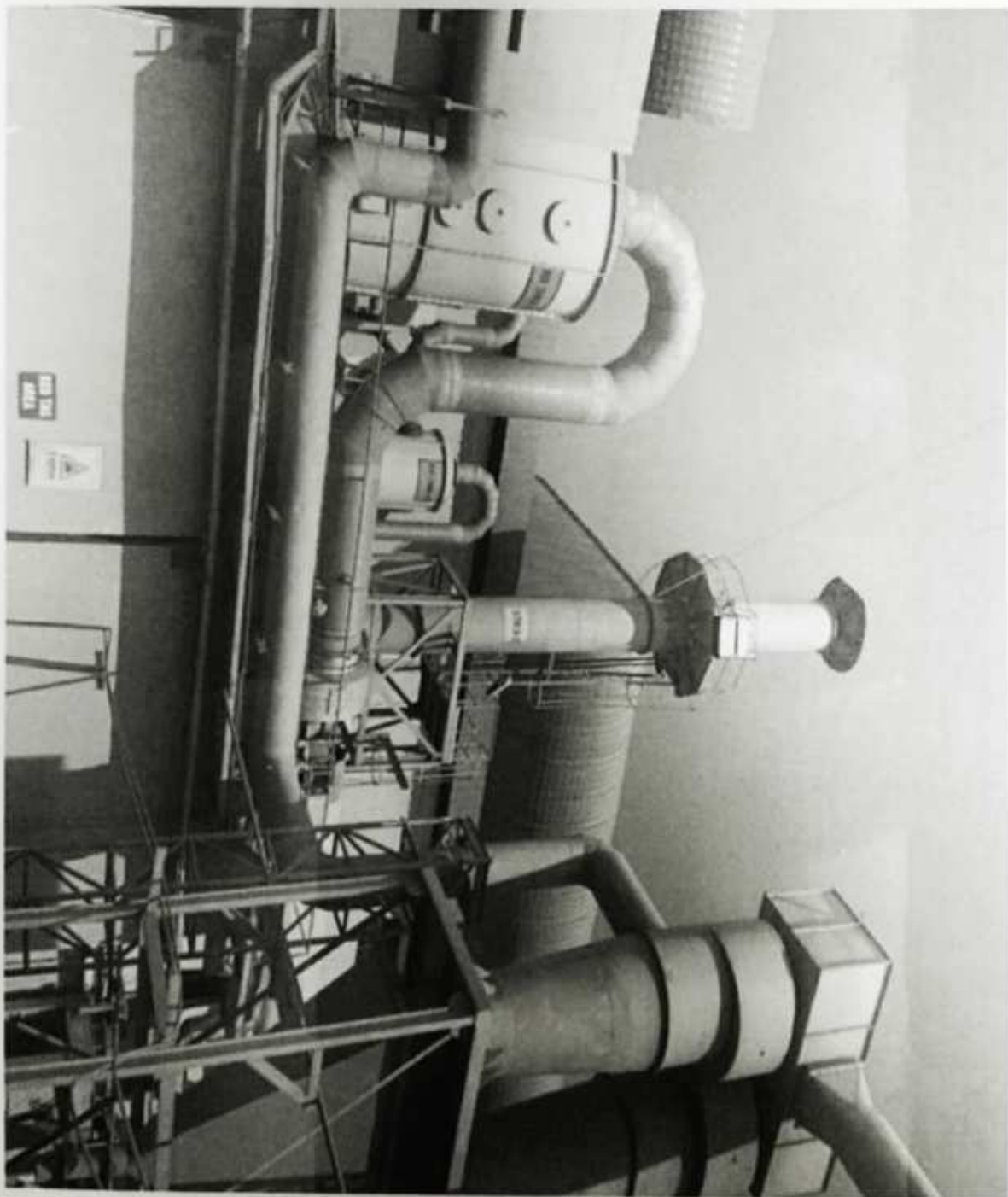
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PM analyzer Installed at Stack




PM analyzer



Silver NOx Stack



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	



To,

Divisional Officer of Forest,
Tarai Central Division,
Haldwani, Uttarakhand.

Subject: Certification for plantation of local species inside our plant premises.

Dear Sir,

As you are aware, we have conducted biodiversity study of core and buffer zone and taken some initiatives at Sanjay van area for implementation of recommendation given in the study report like plantation of various species, displayed various posters, provided artificial nest and provided projector with screen at Sanjay van.


Similarly, as part of biodiversity improvement and for environment protection we have done plantation of various species in 38.15 % (i.e. Total 10,303 No's in 7 Ha of total area of 18.4 ha) of our plant premises. Details with Common and botanical names, types, numbers given in attached layout.

Here, you are requested to kindly certify the attached layout and provide certificate for plantation with covered area. This is required to us as per CPCB guidelines.

Thanking you,

For Hindustan Zinc Ltd.

Yours faithfully,


(Manoj Nashine)
Unit Head

Enclosure

- 1 List of species planted with name and quantity.
- 2 Layout showing plantation details.

Hindustan Zinc Limited

Pantnagar Metal Plant

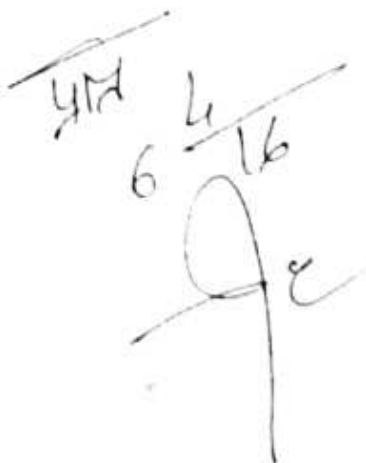
Plot No. 2 & 3, Sector 14, IIE, SIDCUL Pantnagar
Uttarakhand (India) PIN-263153

☎ 05944-257300

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Sr. No	Common Name	Botanical Name	Total QTY.	Type
✓ 1	Aak	Calotropis procera	5	Herb
2	Araucaria	Araucaria araucana	15	Herb
3	Areca Palm	Dyplis lutescens	10	Herb
4	Bottle palm	Hyophorbe lagenicaulis	7	Herb
5	Chandroi	Tabernaemontana	12	Herb
6	Cycas palm	Cycas revoluta	15	Herb
7	Fishtail palm	Caryota obtusa	10	Herb
8	Fortai Palm	Wodyetia bifurcata	10	Herb
9	Ginger Lily	Hedychium	25	Herb
10	Har Singer	Farijaas	22	Herb
11	Jumper	Juniperus chinensis	8	Herb
12	Kamal	Nelumbo lutea	10	Herb
13	Phoenix palm	Phoenix dactylifera	30	Herb
14	Fulsi	Ocimum gratissimum	21	Herb
15	Washingtonia Palm	Washingtonia robusta	60	Herb
16	Alimanda	Alimanda cathartica	54	Shrub
✓ 17	Arjun	Terminalia arjuna	1118	Shrub
18	Ashoka	Polyalthia longifolia	130	Shrub
✓ 19	Bamboo	Bambusa vulgaris	35	Shrub
✓ 20	ber	Aegle marmelos	28	Shrub
✓ 21	ber	Ziziphus mauritiana	27	Shrub
✓ 22	Bottle brush	Callistemon citrinus	1430	Shrub
23	Callandra	Callandra haematoccephala	78	Shrub
24	Cassia biflora	Cassia biflora	9	Shrub
25	Casuarina	Casuarina equisetifolia	48	Shrub
26	Champa	Plumeria	16	Shrub
27	Chandani	Tabernaemontana	6	Shrub
✓ 28	Ficus tree	Ficus benghalensis	117	Shrub
✓ 29	Gudhal	Hibiscus rosa sinensis	93	Shrub
✓ 30	Jalandra	Jacaranda mimosifolia	147	Shrub
31	Kaner	Thevetia peruviana	83	Shrub
✓ 32	Safed Chandan	Tabernaemontana Divaricata	30	Shrub
✓ 33	Kar	Mangifera indica	13	Tree
✓ 34	Amaltas	Cassia Fistula	52	Tree
35	Banyan Vad	Ficus benghalensis	48	Tree
36	Chakrasia	Chukrasia tabularis	199	Tree
37	Chitvan	Alstonia scholaris	864	Tree
38	Curry patta	Murraya koenigii	18	Tree
39	Dhal	Angiosperm latifolia	35	Tree
40	Dombeya	Dombeya rotundifolia	5	Tree
41	Domisal	Millettia velutina	6	Tree
42	Goolar	Ficus Religiosa	488	Tree
43	Guinohar	Delonix regia	222	Tree
44	Gulal	Trewia nudiflora	208	Tree
45	Jamun	Eugenia jambolana	212	Tree
✓ 46	Kachnar	Bauhinia variegata	664	Tree
47	Kadamb	Adina cordifolia	75	Tree
48	Kanek Champa	Pterocarpum acerifolium	95	Tree
✓ 49	Khar	Alatia catechu	120	Tree
50	Legistonia	Legistonia	6	Tree
51	Mada	Litsea glutinosa	5	Tree
✓ 52	Nerm	Azadirachta indica	32	Tree
✓ 53	Papo	Holoptelea integrifolia	411	Tree
✓ 54	Phuean	Ficus alens	1114	Tree
✓ 55	Phor	Ficus Religiosa	82	Tree
✓ 56	Rubber plant	Ficus elastica	7	Tree
✓ 57	Sagwan	Tectonia grandis	108	Tree
58	Samal	Bombax ce. sa	61	Tree
✓ 59	Shesham	Dalbergia sissoo	873	Tree
✓ 60	Silver oak	Grevillea robusta	59	Tree
✓ 61	Siras	Albizia leon	121	Tree
✓ 62	Tecoma	Tecoma stans	65	Tree
Total			10393	

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कार्यालय- प्रभागीय वनाधिकारी, तराई केन्द्रीय वन प्रभाग, हल्द्वानी
पत्रांक 4384 / 32-1 दिनांक, हल्द्वानी, 28/04/ 2016.
फोन/फैक्स 05946 220186 ईमेल-dfotc-forest-uk@nic.in

TO WHOMSOEVER IT MAY CONCERN

It is certified that, M/s. Hindustan Zinc Ltd. Pantnagar has done plantation with our consultation in their plant area.



(Sanatan)

Divisional Forest Officer,
Tarai Central Division,
Haldwani

ANNEXURE-3



STP Energy Consumption Meter



सत्यमेव जयते

INDIA NON JUDICIAL Government of Uttarakhand

e-Stamp

Certificate No.	: IN-UK05041478363838S
Certificate Issued Date	: 29-Dec-2020 03:12 PM
Account Reference	: NONACC (SV)/ uk1246604/ RUDRAPUR/ UK-UN
Unique Doc. Reference	: SUBIN-UKUK124660413467530314767S
Purchased by	: HINDUSTAN ZINC LIMITED
Description of Document	: Article 34 Indemnity Bond
Property Description	: NA
Consideration Price (Rs.)	: 0 (Zero)
First Party	: HINDUSTAN ZINC LIMITED
Second Party	: BHARAT OIL AND WASTE MANAGEMENT LTD
Stamp Duty Paid By	: HINDUSTAN ZINC LIMITED
Stamp Duty Amount(Rs.)	: 100 (One Hundred only)



-----Please write or type below this line-----

AGREEMENT

THIS AGREEMENT made on this ^{29th} day of December 2020 between M/s Hindustan Zinc limited (HZL), a Company incorporated under Companies Act 1956 having its registered Office located at Hindustan Zinc Limited Yashad Bhawan Udaipur - 313 004 Rajasthan, INDIA and its Plant located at Plot No. 2&3, Sector-14, IIE, SIDCUL, Pantnagar, Rudrapur, Uttarakhand- 263153, India (hereinafter called as "FIRST PART" which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors nominees and assigns of the First Part.

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

For Bharat Oil & Waste Management Ltd
Page 1

Director

Statutory Alert:

- 1 The authenticity of this Stamp certificate should be verified at 'www.showestamp.com' or using e-Stamp Mobile App of Stock Holding.
- 2 Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
- 3 The onus of checking the legitimacy is on the users of the certificate.
- 3 In case of any discrepancy please inform the Competent Authority.

AND

M/s **Bharat Oil and Waste Management Ltd (BOWML)**, a Company registered under the Companies Act 1956, having its registered office and corporate head office at 11, LGF, Community Center, East Of Kailash, New Delhi 110065 and its engineered common facility at Gata #672, Tahsil Akbarpur, Village Kumbhi, NH-2, Kanpur-Dehat, UP-209101, duly authorized by the Uttar Pradesh Pollution Control Board and having another Facility at Mauza Mukimpur, Roorkee-Laksar Road, Roorkee-247664, (Uttarakhand), to treat, store and dispose of Hazardous Waste and/ or Bharat Oil Company (India) Registered (BOC) a partnership concern registered under the Partnership Act with its registered office at 11, LGF, Community Center, East Of Kailash, New Delhi 110065, duly registered with Central Pollution Control Board, having its CHWTSDF at E-18, Site IV, Sahibabad Industrial Area, Ghaziabad, (UP), duly authorized by the UPPCB, under the Environment Protection Act 1986 (for short the 'Act') and the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016 and / or the E-Waste (Management) Rules 2016 (for short 'The Rules') as amended from time to time, represented by its Director/Partner, as the case may be (hereinafter called as "SECOND PART " which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors, nominees and assigns of the Second Part.

WHEREAS First Part is **engaged in manufacturing of Zinc, Lead and Silver Metal** and during the said process/ activities different types of wastes including Hazardous Waste are generated as per Annexure to this Agreement.

AND WHEREAS the First Part desires that the Hazardous Waste, being generated at its production unit mentioned above, to be lifted, transported, treated, stored and disposed of, by utilizing the services of SECOND PART, as per the Pollution Control Board Authorization (list of Hazardous Wastes and their tentative quantity, which would be generated at the FIRST Part's plant located at **Plot No. 2&3, Sector-14, IIE, SIDCUL, Pantnagar, Rudrapur, Uttarakhand- 263153, India** is enclosed herewith marked as Annexure.

AND WHEREAS the SECOND PART has represented and assured to First Part that it's Facility in Kanpur/Roorkee/Sahibabad is duly authorized by the concerned State Pollution Control Board and further capable of handling the Hazardous Waste generated at the First Part's premises.

AND WHEREAS First Part has agreed to avail the services of Second Part for treating the Hazardous Wastes, in its above named facility/facilities.

Now, therefore, those present witnessed and it is hereby declared and agreed by and between the Parties as follows:-

1. The scope of services to be provided by Second Part is limited to lift, treat, store and dispose of Hazardous Waste of First Part as per the guidelines prescribed by Pollution Control Board or First Part can also send HW to SECOND Part's Plant directly at its own cost.
2. Second Part, on receipt of written information from FIRST PART, will plan and schedule lifting logistics of the Hazardous Wastes from the premises of FIRST PART within three (3) business days of receipt of such information. First Part shall ensure that Hazardous Wastes must be packed in proper & leak proof Bags or polythene Bags or containers for safe transportation.
3. SECOND PART shall at all times comply with all the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended from time to time framed by MoEF/CPCB.

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

For Bharat Oil & Waste Management Ltd.

Director

Page 2

OFFICE ORDER

SUB: ENVIRONMENT MANAGEMENT CELL


Hindustan Zinc Limited has a well laid policy encompassing health, safety and environment practices approved by its Board of Directors, with organised HSE teams at all sites to ensure compliance and adherence to national and international norms through structured SOPs and reviews. The HSE performance is also reviewed at HZL level through Sustainability BMG.

The function of these teams is to monitor HSE performance and spread awareness about reporting of any deviation immediately for resolution through various mechanisms (e.g. IM portal, email etc.)

The following committee has been reconstituted as Environment Management Cell to evaluate environmental performance, identify improvement areas and find methods for continuous improvement w.r.t Environmental norms with immediate effect.

S. N.	Name	Designation	Role	Contact Details
1	Anamika Jha	SBU Director	Chairman	Anamika.Jha@vedanta.co.in Phone No- 07055387940
2	Murugan Mani	Dy. SBU Director	Member	
3	Baranidharan V.	Head Engineering	Member	
4	Udit Kumar	Lead Environment	Convenor	udit.kumar@vedanta.co.in Phone No- 07455021385
5	Vikas Sharma	Head Laboratory	Member	
6	Maitri Soni	Head Finance	Member	
7	Ritika Singh	Head Human Resources	Member	

Apart from central Environment Review meeting, this committee shall meet on regular monthly basis to review environmental performance or as and when necessitated by an event of environmental deviation.


 (Anamika Jha)
 SBU Director
 Hindustan Zinc- Pantnagar
 10/09/2024
 Hindustan Zinc Limited
 Pantnagar Metal Plant
 Plot No.2&3, Sector 14, IIE, SIDCUL
 Rudrapur - 263153, Uttarakhand

CC: All members



Hindustan Zinc Limited, Registered Office: Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.
 +91 294-6604000-02 www.hzilindia.com CIN: L27204RJ1966PLC001208