

Vide Letter No.: HZLP/SRP/25-26/H-IDate: **26/11/2025**

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 April-2025 to September-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 April-2025 to September-2025.

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

Thanking you.


(Anamika Jha)
SBU Director

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

Pantnagar Silver Refinery Plant
Hindustan Zinc Limited

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 (April-2025 to September-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.	<u>Specifications</u>	<u>Status</u>
	<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, Water Act and Hazardous waste having consent number- UKPCB/HO/Con/H-71/2025/1038 valid till 31.03.2026. Refer Annexure- 12
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.
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 having

Sensitivity: Internal (C3)

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



		letter no- HZL/PMP/EC/2024-25/06 dated 25.11.2024 and the activities will be carried out in a phased manner in consultation with local authority.
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 2025-26, H1, we have reused around 11,554 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 having letter no- HZL/PMP/EC/2024-25/06 dated 25.11.2024 and the activities will be carried out in a phased manner in consultation with local authority.
5	Project proponent shall install Solar lights on the periphery of its premises.	Being complied. Solar Lights installation had been completed on the periphery of the plant premises (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 NQC 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 having letter no- HZL/PMP/EC/2024-25/06 dated 25.11.2024 and the activities will be carried out in a phased manner in consultation with local authority.
12	The building plan and structural design of the unit	Complied. The building plan and structural design of the

	shall comply with requirements of Seismic Zone- IV as outlined in National Building Code.	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) 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.	Gaseous emissions of SO _x , NO _x , CO and Particulate 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, SO _x , NO _x & 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 having consent number- UKPCB/HO/Con/-H-71/2025/1038 Valid till 31.03.2026 . 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 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.	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.
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.	Solar Lights installation had been completed on the periphery of the plant premises (Refer Annexure- 2). For nearby community we are in discussion with local authority and same status has been submitted to SEIAA within three months having letter no-HZL/PMP/EC/2024-25/06 dated 25.11.2024 and the activities will be carried out in a phased manner in consultation with local authority.
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 2025-26, H1, we have reused around 11,554 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.
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 having letter No- HZL/PSP/EC/2024-25/06 dated 25.11.2024 and the activities will be carried out in a phased manner in consultation with local authority.
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, rests with the project proponent.	Noted and is being complied.
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	Noted.

	under the provision of Environment Protection Act 1986.	
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 also be e mailed to the Regional Office in Dehradun in moef.ddn@gov.in	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-II dated 24.05.2025. Six-monthly compliance reports are being uploaded on company website. Link of website uploading EC compliance of October'2024 to March'2025 is https://www.hzindia.com/wp-content/uploads/PMP-EC-Compliance-Report-Silver-plant-H2-2024-25.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	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

	reports.	
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



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

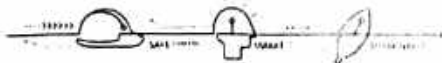
Unit Head

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: 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(3)

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HINDUSTAN ZINC
Pantnagar Silver Refinery

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

Date: 04/05/2024

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

Encl: As above

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



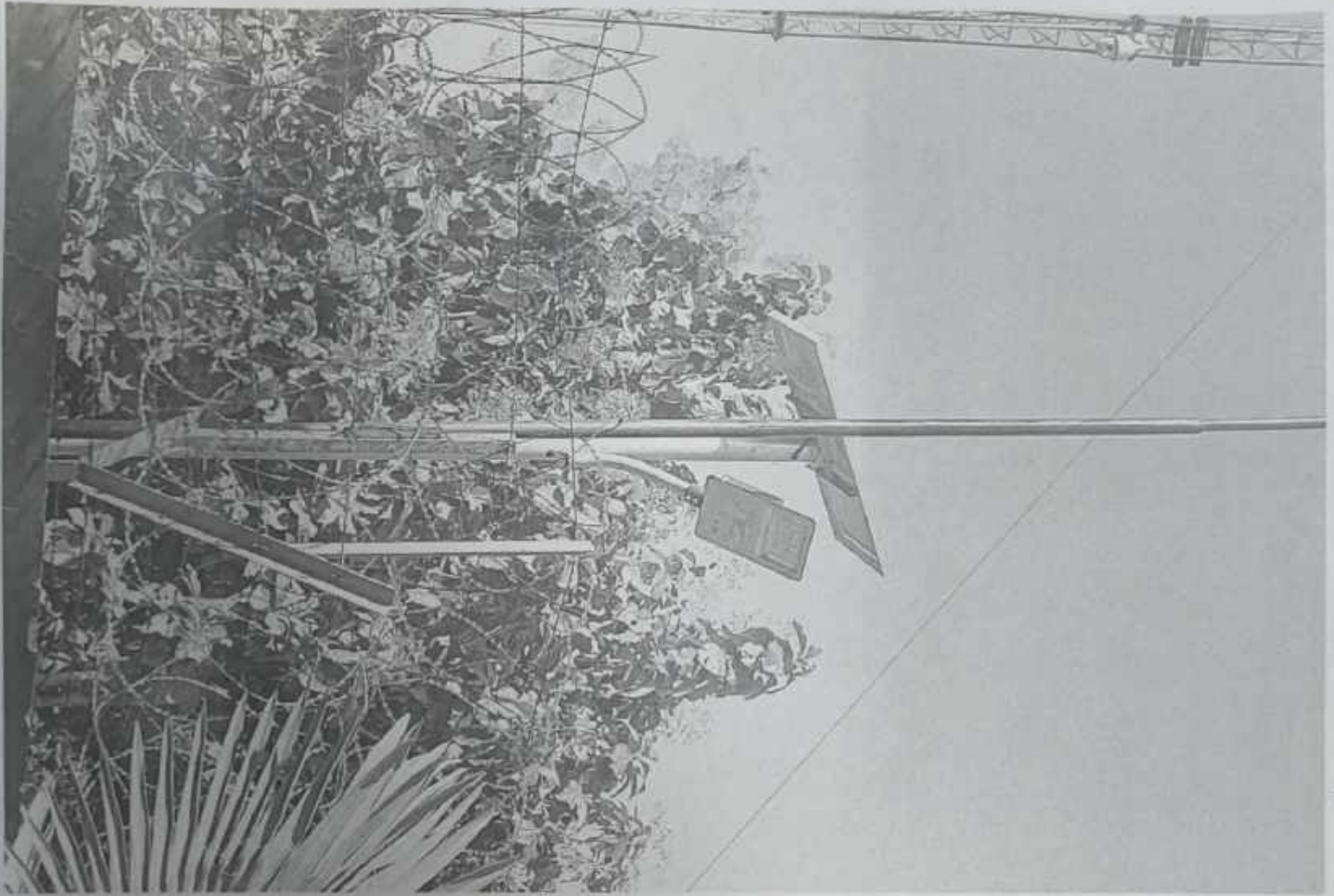
Hindustan Zinc Limited, Registered Office: Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA.
T. +91 294-6604000-02 www.hilindia.com CIN: 227204RJ1966PLC001208

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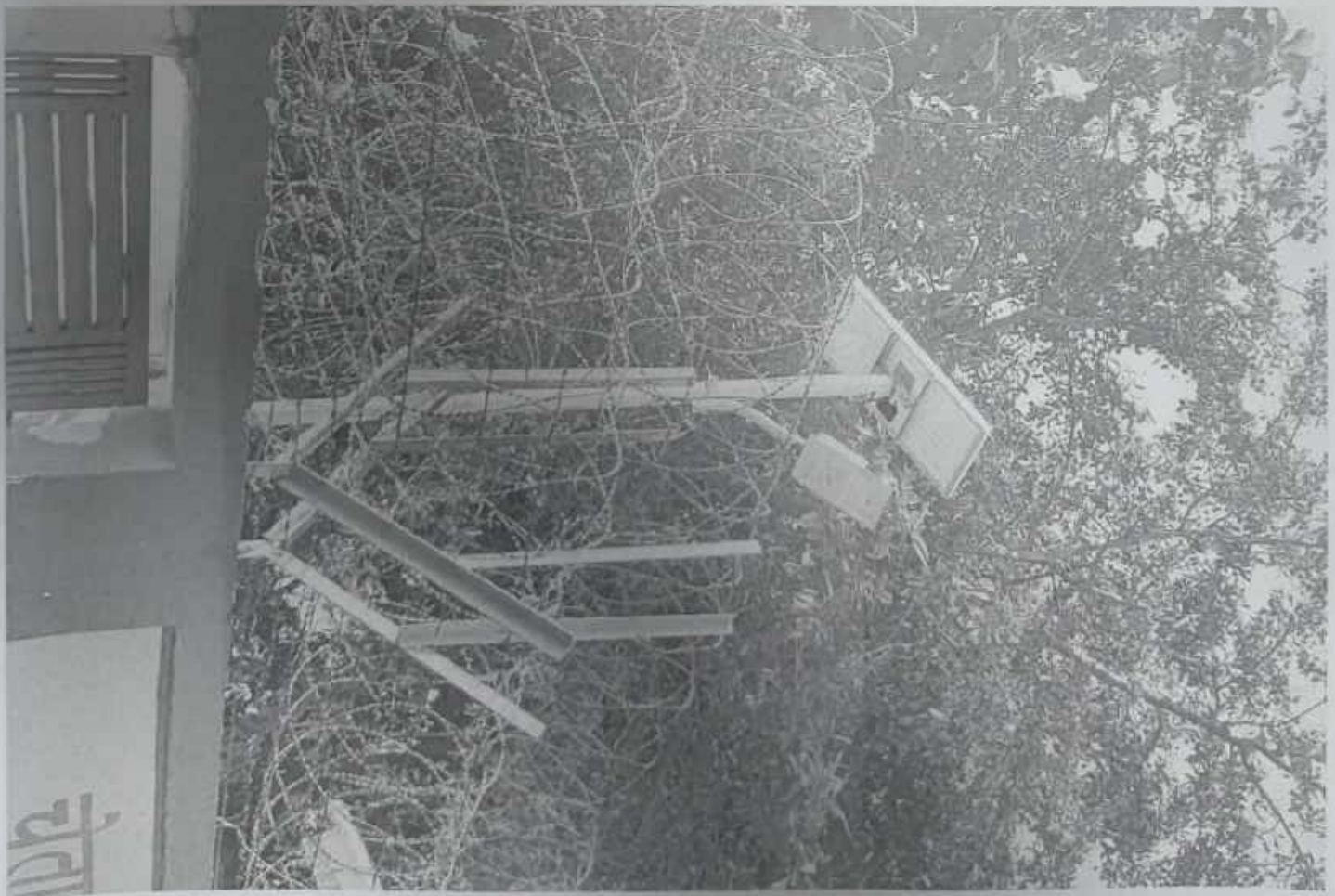
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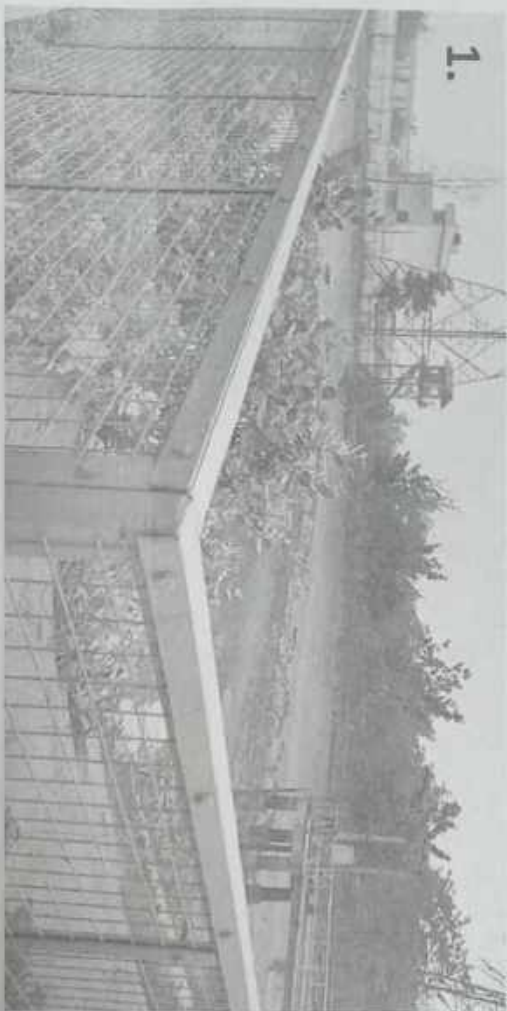


ANNEXURE-2



ANNEXURE-3

Rain Water Storage Ponds and reuse the water into the process



1.



2.



3.



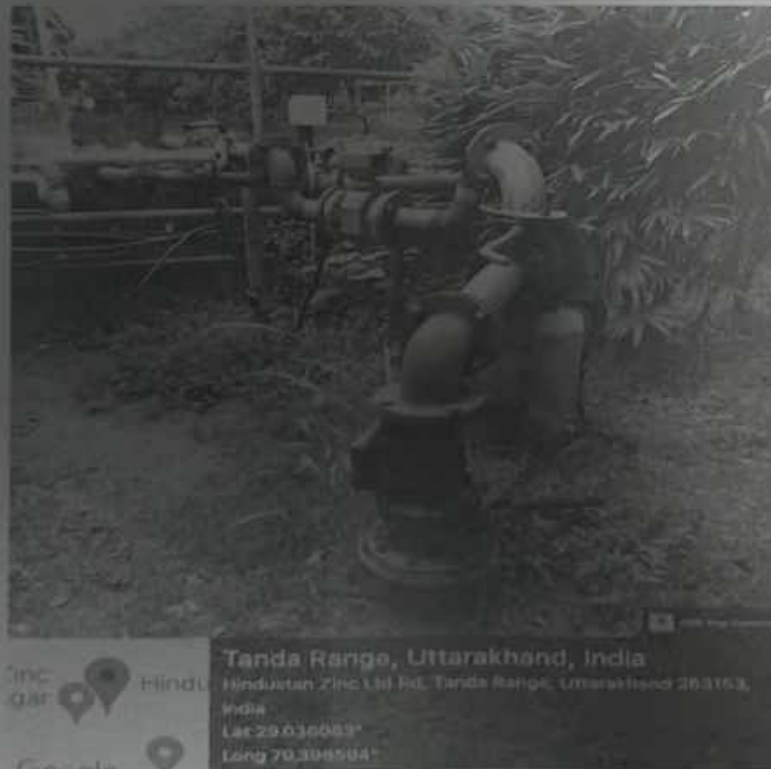
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Rainwater Storage Pond HZL-Pantnagar

Ground Water Withdrawal FY 2025-26			
Month	Ground Water Withdrawal	UOM	Rainwater utilization
Apr-25	4686	Cu.m	38
May-25	5177	Cu.m	954
Jun-25	2926	Cu.m	1951
Jul-25	2199	Cu.m	2616
Aug-25	1656	Cu.m	3113
Sep-25	2054	Cu.m	2882
		Cu.m	
		Cu.m	
		Cu.m	
		Cu.m	
		Cu.m	
		Cu.m	
Total	18,698	Cu.m	11,554

- All reading recorded in cubic meter.

Water Withdrawal Point – Borewell





ANNEXURE-4(a)

Newcon Consultants & Laboratories(GOVERNMENT APPROVED TESTING LABORATORIES)
An ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018 Certified Laboratory

TC-12621

TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EW-018/27/09/25		DATE OF REPORT : 03/10/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263453	

SAMPLING DETAIL

Sample Name : AMBIENT AIR
 Analysis Start Date : 27/09/2025
 Date of Sampling : 26/09/2025
 Time of Sampling : 11:15 AM (26/09) TO 11:15 AM (27/09)
 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 : 03/10/2025
 Sampling Done By : NCL
 Sampling Location : Near Main Gate Security
 Sample ID No. : NCL/EW-018/27/09/25
 Sampling Flow Rate of SPM : 1.275 Mtr³/Min (Average)
 Sampling Machine Placed at : 3.0 Mtr Height (from ground)

PHYSICAL OBSERVATIONS

Ambient Temperature : 35°C
 Weather Conditions : Clear
 Wind Direction : East to West

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	52	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	NCL/AIR/STP-09	26	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	15.2	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.51	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	26.2	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

EW-018/27/09/25-1



Checked by

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TEST REPORT No. NCL/EW-018/27/09/25

DATE OF REPORT : 03/10/2025

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
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.

EW-018/27/09/25-2



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TEST REPORT

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TEST REPORT No. NCL/EW-069/26/09/25		DATE OF REPORT : 01/10/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: AMBIENT AIR	Analysis End Date	: 01/10/2025
Analysis Start Date	: 26/09/2025	Sampling Done By	: NCL
Date of Sampling	: 25/09/2025	Sampling Location	: Canteen East Side
Time of Sampling	: 11:00 AM (25/09) TO 11:00 AM (26/09)	Sample ID No.	: NCL/EW-069/26/09/25
Sampling Protocol	: IS : 5182	Sampling Flow Rate of SPM (Average)	: 1.26 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	: 36°C	Wind Direction	: East to West
Weather Conditions	: Clear		

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	56	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	NCL/AIR/STP-09	30	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	17.2	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.50	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	27.4	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

EW-069/26/09/25-1



Checked by

Arvind K. Singh
Sr. Analyst

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TEST REPORT No. NCL/EW-069/26/09/25

DATE OF REPORT : 01/10/2025

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
11	Arsenic (As)	µg/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.

EW-069/26/09/25-2



Arvind Choudhary
Checked by

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TEST REPORT

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TEST REPORT No. NCL/EW-019/27/09/25		DATE OF REPORT : 03/10/2025	
Name and Address of Customer		M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: AMBIENT AIR	Analysis End Date	: 03/10/2025
Analysis Start Date	: 27/09/2025	Sampling Done By	: NCL
Date of Sampling	: 26/09/2025	Sampling Location	: Back Side of DG Area
Time of Sampling	: 11:00 AM (26/09) TO 11:00 AM (27/09)	Sample ID No.	: NCL/EW-019/27/09/25
Sampling Protocol	: IS : 5182	Sampling Flow Rate of SPM (Average)	: 1.27 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	: 36°C	Wind Direction	: East to West
Weather Conditions	: Clear		

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m ³	IS:5182 (Part 23)	54	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m ³	NCL/AIR/STP-09	28	For 24 Hrs=60
3	Sulphur Dioxide (SO ₂)	µg/m ³	IS:5182 (Part 2)	16.5	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m ³	IS:5182 (Part 10)	0.53	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO ₂)	µg/m ³	IS:5182 (Part 6)	30.8	For 24 Hrs=80
6	Lead (Pb)	µg/m ³	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O ₃)	µg/m ³	IS:5182 (Part-9)	BDL(DL-20.0)	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH ₃)	µg/m ³	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

EW-019/27/09/25-1



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TEST REPORT No. NCL/EW-019/27/09/25

DATE OF REPORT : 03/10/2025

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
11	Arsenic (As)	ng/m3	NCL/AIR/STP-19	BDL(DL-1.0)	For Annual=08
12	Nickel (Ni)	ng/m3	NCL/AIR/STP-17	BDL(DL-5.0)	For Annual=20

End of Report

Remarks : BDL=Below Detection Limit.

EW-019/27/09/25-2



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TEST REPORT

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TEST REPORT No. NCL/EW-025/29/09/25/A		ULR No.: TC126212500000336F	DATE OF REPORT : 04/10/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153		

SAMPLING DETAILS

Sample Name	: Ground Water	Analysis End Date	: 04/10/2025
Analysis Start Date	: 29/09/2025	Sample ID No.	: NCL/EW-025/29/09/25
Date of Sampling	: 27/09/2025	Sample Receipt Date	: 29/09/2025
Time of Sampling	: 11:00 AM	Environmental Condition	: 27±2°C
Sampling Done By	: NCL		
Sample Description	: Ground Water	Sample Quantity	: 10+1 Ltr
Sampling Location	: Borewell	Packing	: PVC CANE
Sampling Protocol	: IS:17614 (P-1)		
Packing Condition	: Sealed		

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500-2012/Amd. 2021	
					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-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)	7.64	6.5-8.5	No Relaxation
6	Total Dissolved Solids	mg/L	IS : 3025 (P-16)	190	500	2000
General Parameter						
7	Total Hardness (as CaCO3)	mg/L	IS : 3025 (P-21)	86	200	600
8	Calcium (as Ca)	mg/L	IS : 3025 (P-40)	22.4	75	200
9	Magnesium (as Mg)	mg/L	APHA 3500 (mg)	7.3	30	100
10	Total Alkalinity (as CaCO3)	mg/L	IS : 3025 (P-23)	39	200	600
11	Chloride (as Cl)	mg/L	IS : 3025 (P-32)	54	250	1000
12	Nitrate (as NO3)	mg/L	IS : 3025 (P-34)	BDL(DL-0.2)	45	No Relaxation
13	Sulphate (as SO4)	mg/L	IS : 3025 (P-24)	BDL(DL-10.0)	200	400

EW-025/29/09/25-1



Swati Chaudhary
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TEST REPORT No. NCL/EW-025/29/09/25/A

ULR No.:TC126212500000336F

DATE OF REPORT :04/10/2025

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500-2012/Amd. 2021	
					Desirable Limit	Permissible Limit
14	Sulphide (as H ₂ S)	mg/L	IS : 3025 (P-29)	BDL(DL-0.05)	0.05	No Relaxation
15	Fluoride (as F)	mg/L	APHA 24th Edition 4500 (F-D)	BDL(DL-0.1)	1.0	1.5
16	Free Residual Chlorine (as Cl ₂)	mg/L	IS : 3025 (P-26)	BDL(DL-0.2)	0.2	1.0
17	Chloramines (as Cl ₂)	mg/L	IS : 3025 (P-26)	BDL(DL-0.2)	4.0	No Relaxation
18	Phenolic Compound (as C ₆ H ₅ OH)	mg/L	IS : 3025 (P-43)	BDL(DL-0.001)	0.001	0.002
19	Anionic Surfactant (as MBAS)	mg/L	IS : 3025 (P-68)	BDL(DL-0.1)	0.2	1.0
20	Mineral Oil	mg/L	IS : 3025 (P-39)	BDL(DL-0.1)	0.5	No Relaxation
21	Sodium (as Na)	mg/L	APHA 3500 Na (B)	BDL(DL-10.0)	Not Specified	Not Specified
22	Potassium (as K)	mg/L	APHA 3500 K (B)	BDL(DL-1.0)	Not Specified	Not Specified
Heavy Metals Parameter						
23	Iron (as Fe)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	1.0	No Relaxation
24	Zinc (as Zn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	5.0	15.0
25	Boron (as B)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.5	1.0
26	Nickel (as Ni)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.02	No Relaxation
27	Manganese (as Mn)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.1	0.3
28	Lead (as Pb)	mg/L	IS : 3025 (P-65)	BDL(DL-0.005)	0.01	No Relaxation
29	Copper (as Cu)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.05	1.5
30	Chromium (as Cr)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.05	No Relaxation
31	Aluminium (as Al)	mg/L	IS : 3025 (P-65)	BDL(DL-0.01)	0.03	0.2
Microbiological Parameter						
32	E Coli	MPN/100ml	IS : 1622	<2	Not Specified	Not Specified
33	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-25100404

EW-025/29/09/25-2



Swati Chaudhary
Checked by

Arundhati Chaudhary
SQC

ISHA BHAGI
Jr. Analyst

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TEST REPORT

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TEST REPORT No. NCL/EW-025/29/09/25/B		DATE OF REPORT : 04/10/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: Ground Water	Analysis End Date	: 04/10/2025
Analysis Start Date	: 29/09/2025	Sample ID No.	: NCL/EW-025/29/09/25
Date of Sampling	: 27/09/2025	Sample Receipt Date	: 29/09/2025
Time of Sampling	: 11:00 AM	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:10500-2012/Amd. 2021	
					Desirable Limit	Permissible Limit
1	Cyanide (as CN)	mg/L	IS : 3025 (P-27)	BDL(DL-0.05)	0.05	No Relaxation
2	Ammonia (as total Ammonia)	mg/L	IS : 3025 (P-34)	BDL(DL-0.5)	0.5	No Relaxation
3	Selenium (as Se)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
4	Arsenic (as As)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
5	Cadmium (as Cd)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.003	No Relaxation
6	Molybdenum (as Mo)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.07	No Relaxation
7	Silver (as Ag)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.1	No Relaxation
8	Barium (as Ba)	mg/L	IS : 3025 (P-65)	BDL(DL-0.001)	0.7	No Relaxation
9	Mercury (as Hg)	mg/L	IS : 3025 (P-65)	BDL(DL-0.0005)	0.001	No Relaxation
Pesticides Residue						
10	Poly Chlorinated Biphenyls (PCB)	mg/L	APHA 6431 B	BDL(DL-0.00005)	0.0005	No Relaxation
11	Polynuclear Aromatic Hydrocarbon (PAH)	mg/L	APHA 6440	BDL(DL-0.00005)	0.0001	No Relaxation
12	Alachlor	µg/L	USEPA 525.2	BDL(DL-0.005)	20.0	No Relaxation

EW-025/29/09/25-1

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Swati Wadhwan
Checked by Analyst

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Page No.: 2 of 2

TEST REPORT No. NCL/EW-025/29/09/25/B

DATE OF REPORT : 04/10/2025

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500-2012/Amd. 2021	
					Desirable Limit	Permissible Limit
13	Atrazine	µg/L	USEPA 525.2	BDL(DL-0.005)	2.0	No Relaxation
14	Aldrin	µg/L	USEPA 508	BDL(DL-0.005)	0.03	No Relaxation
15	Dieldrin	µg/L	USEPA 508	BDL(DL-0.005)	0.03	No Relaxation
16	Alpha HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.01	No Relaxation
17	Beta HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.04	No Relaxation
18	Butachlor	µg/L	USEPA 525.2	BDL(DL-0.005)	125.0	No Relaxation
19	Chlorpyrifos	µg/L	USEPA 525.2	BDL(DL-0.005)	30.0	No Relaxation
20	Delta HCH	µg/L	USEPA 508	BDL(DL-0.005)	0.04	No Relaxation
21	2,4 dichlorophenoxyacetic acid	µg/L	USEPA 515.1	BDL(DL-0.001)	30.0	No Relaxation
22	4,4-DDE	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
23	4,4-DDD	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
24	4,4-DDT	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
25	2,4-DDD	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
26	2,4-DDT	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
27	2,4-DDE	µg/L	USEPA 508	BDL(DL-0.005)	1.0	No Relaxation
Trihalomethane						
28	Bromoform	mg/L	NCL/SOP/INST/112	BDL(DL-0.01)	0.1	No Relaxation
29	Dibromochloromethane	mg/L	NCL/SOP/INST/112	BDL(DL-0.01)	0.1	No Relaxation
30	Bromodichloromethane	mg/L	NCL/SOP/INST/112	BDL(DL-0.01)	0.06	No Relaxation
31	Chloroform	mg/L	NCL/SOP/INST/112	BDL(DL-0.01)	0.2	No Relaxation
Radioactive Parameters						
32	Gross Alpha (Bq/l)*	mg/L	IS: 14194 (Part-2) 2022	BDL	Not Specified	Not Specified
33	Gross Beta ((Bq/l)*	mg/L	IS: 14194 (Part-1) 2023	BDL	Not Specified	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

* Parameters are outsource tested from other Lab. Report No. 5QC /NR-25100404

EW-026/29/09/25-2



Swati Chauhan
Checked by

Authorized Signatory

ISHA Jaiswal
Jr.

FOR NEWCON CONSULTANTS & LABORATORIES

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TEST REPORT

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TEST REPORT No. NCL/EP-016/22/05/25/A		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sample ID No.	: NCL/EP-016/22/05/25
Date of Sampling	: 21/05/2025	Sample Receipt Date	: 22/05/2025
Time of Sampling	: 12:40 PM	Environmental Condition	: 27±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.	Parameters	Unit	Test Method	Result
1	pH (10% Aq. Solution)	-	IS:2720 (P-26)	7.68
2	Chlorides (Cl)	mg/100g	USDA	36.4
3	Potassium (K)	mg/Kg	IS:11260	168
4	Sodium (Na)	mg/Kg	STP/NCL/SOIL/02	132
5	Electrical Conductivity at 25° C (Suspension)	µS/cm	IS:14767	410
6	Phosphorous (P)	mg/Kg	IS:10158	1.9
7	Cadmium & its Compound	mg/Kg	STP/NCL/SOIL/04	1.85
8	Lead (Pb)	mg/Kg	USEPA-3050 B	149.16
9	Zinc (Zn)	mg/Kg	USEPA-3050 B	164.85
10	Copper (Cu)	mg/Kg	USEPA-3050 B	98.11
11	Nickel (Ni)	mg/Kg	USEPA-3050 B	123.02
12	Bulk Density	gm/cc	IS:2720 (Part 3):1980 (R 2011)	1.42
13	Organic Carbon	%	Soil Chemical Analysis by M.L. Jackson	1.24
14	Arsenic & its Compounds	mg/kg	STP/NCL/SOIL-04	BDL(DL-0.05)

End of Report

Remarks : BDL = Below Detection Limit

EP-016/22/05/25-1



Swati Chaudhary
Sr Analyst
Checked by

Rajeev Kumar Singh
Sr Analyst

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-016/22/05/25/B	DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sample ID No.	: NCL/EP-016/22/05/25
Date of Sampling	: 21/05/2025	Sample Receipt Date	: 22/05/2025
Time of Sampling	: 12:40 PM	Environmental Condition	: 27±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.	Parameters	Unit	Test Method	Result
1	Total kaja Nitrogen(TKN)	kg/hect	IS:14684	24650
2	Antimony & its Compounds	mg/kg	USEPA-3050 B	BDL(DL-0.05)
3	Bismuth	mg/kg	STP/NCL/SOIL-04	BDL(DL-0.05)
4	Salinity	—	IS : 11624	Low Seline

End of Report

Remarks : BDL = Below Detection Limit

EP-016/22/05/25-1



Swati Chauhan
Checked by Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory

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TC-12621

TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-017/22/05/25/A		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sample ID No.	: NCL/EP-017/22/05/25
Date of Sampling	: 21/05/2025	Sample Receipt Date	: 22/05/2025
Time of Sampling	: 12:20 PM	Environmental Condition	: 27±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.	Parameters	Unit	Test Method	Result
1	pH (10% Aq. Solution)	-	IS:2720 (P-26)	7.84
2	Chlorides (Cl)	mg/100g	USDA	42.6
3	Potassium (K)	mg/Kg	IS:11260	140
4	Sodium (Na)	mg/Kg	STP/NCL/SOIL/02	108
5	Electrical Conductivity at 25° C (Suspension)	µS/cm	IS:14767	265
6	Phosphorous (P)	mg/Kg	IS:10158	1.8
7	Cadmium & its Compound	mg/Kg	STP/NCL/SOIL/04	1.48
8	Lead (Pb)	mg/Kg	USEPA-3050 B	144.66
9	Zinc (Zn)	mg/Kg	USEPA-3050 B	153.47
10	Copper (Cu)	mg/Kg	USEPA-3050 B	98.42
11	Nickel (Ni)	mg/Kg	USEPA-3050 B	118.01
12	Bulk Density	gm/cc	IS:2720 (Part 3):1980 (R 2011)	1.38
13	Organic Carbon	%	Soil Chemical Analysis by M.L. Jackson	2.3
14	Arsenic & its Compounds	mg/kg	STP/NCL/SOIL-04	BDL(DL-0.05)

End of Report

Remarks : BDL = Below Detection Limit

EP-017/22/05/25-1



Swati Chauhan
checked by Analyst

Rajeev Kumar Singh
Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-017/22/05/25/B		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sample ID No.	: NCL/EP-017/22/05/25
Date of Sampling	: 21/05/2025	Sample Receipt Date	: 22/05/2025
Time of Sampling	: 12:20 PM	Environmental Condition	: 27±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.	Parameters	Unit	Test Method	Result
1	Total kjahl Nitrogen(TKN)	kg/hect	IS:14684	23650
2	Antimony & its Compounds	mg/kg	USEPA-3050 B	BDL(DL-0.05)
3	Bismuth (as Bi)	mg/kg	STP/NCL/SOIL-04	BDL(DL-0.05)
4	Salinity	-	IS : 11624	Low Saline

End of Report

Remarks : BDL = Below Detection Limit

EP-017/22/05/25-1



Swati Chauhan
Checked by

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TEST REPORT

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TEST REPORT No. NCL/EP-018/22/05/25/A		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sample ID No.	: NCL/EP-018/22/05/25
Date of Sampling	: 21/05/2025	Sample Receipt Date	: 22/05/2025
Time of Sampling	: 12:30 PM	Environmental Condition	: 27±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.	Parameters	Unit	Test Method	Result
1	pH (10% Aq. Solution)	-	IS:2720 (P-26)	8.12
2	Chlorides (Cl)	mg/100g	USDA	38.0
3	Potassium (K)	mg/Kg	IS:11260	160
4	Sodium (Na)	mg/Kg	STP/NCL/SOIL/02	112
5	Electrical Conductivity at 25° C (Suspension)	µS/cm	IS:14767	312
6	Phosphorous (P)	mg/Kg	IS:10158	1.7
7	Cadmium & its Compound	mg/Kg	STP/NCL/SOIL/04	1.99
8	Lead (Pb)	mg/Kg	USEPA-3050 B	153.21
9	Zinc (Zn)	mg/Kg	USEPA-3050 B	152.66
10	Copper (Cu)	mg/Kg	USEPA-3050 B	96.48
11	Nickel (Ni)	mg/Kg	USEPA-3050 B	115.63
12	Bulk Density	gm/cc	IS 2720 (Part 3):1980 (R 2011)	1.29
13	Organic Carbon	%	Soil Chemical Analysis by M.L. Jackson	1.14
14	Arsenic & its Compounds	mg/kg	STP/NCL/SOIL-04	BDL(DL-0.05)

End of Report

Remarks : BDL = Below Detection Limit

EP-018/22/05/25-1



Swati Chaitan
Sr. Analyst

Rajeev Kumar Singh
Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-018/22/05/25/B		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAILS

Sample Name	: SOIL SAMPLE	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sample ID No.	: NCL/EP-018/22/05/25
Date of Sampling	: 21/05/2025	Sample Receipt Date	: 22/05/2025
Time of Sampling	: 12:30 PM	Environmental Condition	: 27±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.	Parameters	Unit	Test Method	Result
1	Total kjahl Nitrogen(TKN)	kg/hect	IS:14684	22460
2	Antimony & its Compounds	mg/kg	USEPA-3050 B	BDL(DL-0.05)
3	Bismuth (as Bi)	mg/kg	STP/NCL/SOIL-04	BDL(DL-0.05)
4	Salinity	--	IS : 11624	Low Saline

End of Report

Remarks : BDL = Below Detection Limit

EP-018/22/05/25-1



Swati Chauhan
Checked Analyst

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-040/22/05/25/A		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Workzone Air	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sampling Done By	: NCL
Date of Sampling	: 21/05/2025	Equipments Used	: Handy Sampler
Time of Sampling	: 09:30 AM TO 05:30 PM		
Sampling Location	: Silver Furnace Floor	Sample ID No.	: NCL/EP-040/22/05/25
Sampling Protocol	: IS : 5182	Sample Duration	: 8 Hrs
Ambient Temperature	: 38°C	Sampling Flow Rate	: 2.0 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)	0.081	5.0
2	Sulphur Dioxide (as SO2)	mg/m³	IS:5182 (Part 2)	0.0155	5.0
3	Carbon Monoxide (as CO)	mg/m³	IS:15206	0.70	55.0
4	Nitrogen Dioxide (as NO2)	mg/m³	IS:5182 (Part 6)	0.0266	6.0
5	Lead (as Pb)	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-040/22/05/25-1



Signature
Checked by

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-040/22/05/25/B		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Workzone Air	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sampling Done By	: NCL
Date of Sampling	: 21/05/2025	Equipments Used	: Handy Sampler
Time of Sampling	: 09:30 AM TO 05:30 PM		
Sampling Location	: Silver Furnace Floor	Sample ID No.	: NCL/EP-040/22/05/25
Sampling Protocol	: IS : 5182	Sample Duration	: 8 Hrs
Ambient Temperature	: 38°C	Sampling Flow Rate	: 2.0 LPM

TEST RESULT

S.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Zinc (as Zn)	mg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
2	Antimony (as Sb)	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
3	Bismuth (as 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-040/22/05/25-1



SAKSHI JASWAL
Sr. Analyst
Checked by

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TEST REPORT

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TEST REPORT No. NCL/EP-041/22/05/25/A		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Workzone Air	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sampling Done By	: NCL
Date of Sampling	: 21/05/2025	Equipments Used	: Handy Sampler
Time of Sampling	: 09:30 AM TO 05:30 PM		
Sampling Location	: Bag Filter Area Silver Plant	Sample ID No.	: NCL/EP-041/22/05/25
Sampling Protocol	: IS : 5182	Sample Duration	: 8 Hrs
Ambient Temperature	: 38°C	Sampling Flow Rate	: 2.0 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)	0.067	5.0
2	Sulphur Dioxide (as SO2)	mg/m³	IS:5182 (Part 2)	0.0127	5.0
3	Carbon Monoxide (as CO)	mg/m³	IS:15206	0.55	55.0
4	Nitrogen Dioxide (as NO2)	mg/m³	IS:5182 (Part 6)	0.0242	6.0
5	Lead (as Pb)	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-041/22/05/25-1



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TEST REPORT No. NCL/EP-041/22/05/25/B		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Workzone Air
 Analysis Start Date : 22/05/2025
 Date of Sampling : 21/05/2025
 Time of Sampling : 09:30 AM TO 05:30 PM
 Analysis End Date : 27/05/2025
 Sampling Done By : NCL
 Equipments Used : Handy Sampler
 Sampling Location : Bag Filter Area Silver Plant
 Sampling Protocol : IS : 5182
 Ambient Temperature : 38°C
 Sample ID No. : NCL/EP-041/22/05/25
 Sample Duration : 8 Hrs
 Sampling Flow Rate : 2.0 LPM

TEST RESULT

S.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Zinc (as Zn)	mg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
2	Antimony (as Sb)	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
3	Bismuth (as 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-041/22/05/25-1



SAKSHI JASWAL
Sr Analyst
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TEST REPORT No. NCL/EP-042/22/05/25/A		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Workzone Air	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sampling Done By	: NCL
Date of Sampling	: 21/05/2025	Equipments Used	: Handy Sampler
Time of Sampling	: 09:30 AM TO 05:30 PM		
Sampling Location	: Hydro Top Floor of Silver	Sample ID No.	: NCL/EP-042/22/05/25
Sampling Protocol	: IS : 5182	Sample Duration	: 8 Hrs
Ambient Temperature	: 38°C	Sampling Flow Rate	: 2.0 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)	0.082	5.0
2	Sulphur Dioxide (as SO2)	mg/m³	IS:5182 (Part 2)	0.0160	5.0
3	Carbon Monoxide (as CO)	mg/m³	IS:15206	0.67	55.0
4	Nitrogen Dioxide (as NO2)	mg/m³	IS:5182 (Part 6)	0.0272	6.0
5	Lead (as Pb)	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-042/22/05/25-1



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TEST REPORT No. NCL/EP-042/22/05/25/B		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Workzone Air	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sampling Done By	: NCL
Date of Sampling	: 21/05/2025	Equipments Used	: Handy Sampler
Time of Sampling	: 09:30 AM TO 05:30 PM		
Sampling Location	: Hydro Top Floor of Silver	Sample ID No.	: NCL/EP-042/22/05/25
Sampling Protocol	: IS : 5182	Sample Duration	: 8 Hrs
Ambient Temperature	: 38°C	Sampling Flow Rate	: 2.0 LPM

TEST RESULT

S.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Zinc (as Zn)	mg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
2	Antimony (as Sb)	µg/m ³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
3	Bismuth (as 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-042/22/05/25-1



SAKSHI JASWAL
Sr Analyst
Checked by

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Authorized Signatory



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TEST REPORT

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TEST REPORT No. NCL/EP-036/22/05/25		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sampling Done By	: NCL
Date of Sampling	: 21/05/2025	Duration of Sampling	: 30 Minutes
Sampling Protocol	: IS : 11255	Sample ID No.	: NCL/EP-036/22/05/25
Sampling Location	: Silver Main Stack	Area Category	:
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 07)		

DETAILS OF STACK

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

PHYSICAL OBSERVATIONS

Ambient Temperature	: 38°C	Flue gas temperature	: 98°C
Velocity of the flue gases	: 7.81 mtr/sec	Sampling Flow Rate of SPM	: 26.0 LPM
Sampling Flow Rate for Gases	: 2.5 LPM	Quantity of Emission discharged	: 44190 Nm³/hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB
1	Particulate Matters (PM)	mg/Nm³	IS:11255 (Part-1)	18	150
2	Sulphur Dioxide (SO₂)	mg/Nm³	IS:11255 (Part-2)	BDL(DL-3.4)	Not Specified
3	Oxide of Nitrogen (NOx)	mg/Nm³	IS:11255 (Part-7)	31	Not Specified
4	Carbon Monoxide (CO)	% By Vol	IS:13270	BDL(DL-0.02)	1.0
5	Lead	mg/Nm³	NCL/STP/AAS/01	BDL(DL-0.1)	10.0
6	Hydro Carbon (HC)	mg/Nm³	IS:11255 (Part-15)	BDL(DL-1.0)	Not Specified

End of Report

Remarks : BDL=Below Detection Limit.

EP-036/22/05/25-1



Section Incharge
Checked by

Arvind K. Bhardwaj
Sr. Analyst

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TEST REPORT

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TEST REPORT No. NCL/EP-037/22/05/25		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: STACK EMISSION	Analysis End Date	: 27/05/2025
Analysis Start Date	: 22/05/2025	Sampling Done By	: NCL
Date of Sampling	: 21/05/2025	Duration of Sampling	: 30 Minutes
Sampling Protocol	: IS : 11255	Sample ID No.	: NCL/EP-037/22/05/25
Sampling Location	: NOx Scrubber Stack	Area Category	:
Equipments Used	: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 07)		

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	: 38°C	Flue gas temperature	: 84°C
Velocity of the flue gases	: 7.41 mtr/sec	Sampling Flow Rate of SPM	: 26.0 LPM
Sampling Flow Rate for Gases	: 2.1 LPM	Quantity of Emission discharged	: 20594 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)	33	150
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	IS:11255 (Part-2)	12	Not Specified
3	Oxides of Nitrogen (NO _x)	mg/Nm ³	IS:11255 (Part-7)	39	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-037/22/05/25-1



MANAGER
Section Incharge
Checked by

Arvind Choudhary
Analyst

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TEST REPORT No. NCL/EP-027/21/05/25		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Ambient Noise
 Analysis Start Date : 21/05/2025 Analysis End Date : 21/05/2025
 Date of Monitoring : 20/05/2025 Monitoring Done By : NCL
 Monitoring Duration : 10 Minutes Place of Monitoring : Near Main Gate
 Time of Monitoring : 11:20 AM TO 11:30 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))	65.3	65.9	66.2	66.7	67.1	67.8	68.5	69.2	69.8	70.2

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	67.7	-
2	L Max	70.2	-
3	L Min	65.3	-
4	Day Leq	67.9	75.0 Max

End of Report

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TEST REPORT

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TEST REPORT No. NCL/EP-030/21/05/25		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Ambient Noise	Analysis End Date	: 21/05/2025
Analysis Start Date	: 21/05/2025	Monitoring Done By	: NCL
Date of Monitoring	: 20/05/2025	Place of Monitoring	: Near Main Gate
Monitoring Duration	: 10 Minutes	Protocol	: NCL/AIR/STP/20
Time of Monitoring	: 12:00 AM TO 12:10 AM		
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	53.4	53.8	54.1	51.8	52.3	50.7	51.5	55.6	56.2

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	53.2	-
2	L Max	56.2	-
3	L Min	50.7	-
4	Night Leq	53.4	70.0 Max

End of Report

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Section Incharge
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TEST REPORT No. NCL/EP-029/21/05/25		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Ambient Noise
Analysis Start Date : 21/05/2025
Date of Monitoring : 20/05/2025
Monitoring Duration : 10 Minutes
Analysis End Date : 21/05/2025
Monitoring Done By : NCL
Place of Monitoring : Back Side of DG Area
Time of Monitoring : 12:00 PM TO 12:10 PM
Protocol : NCL/AIR/STP/20
Category of Area : Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A))	66.6	66.9	67.1	67.5	68.2	68.8	69.3	69.6	70.1	70.5

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	68.5	-
2	L Max	70.5	-
3	L Min	66.6	-
4	Day Leq	68.7	75.0 Max

End of Report

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TEST REPORT

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TEST REPORT No. NCL/EP-033/21/05/25		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Ambient Noise	Analysis End Date	: 21/05/2025
Analysis Start Date	: 21/05/2025	Monitoring Done By	: NCL
Date of Monitoring	: 20/05/2025	Place of Monitoring	: Back Side of DG Area
Monitoring Duration	: 10 Minutes	Protocol	: NCL/AIR/STP/20
Time of Monitoring	: 01:00 AM TO 01:10 AM		
Category of Area	: Industrial Area		

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Night Time Reading (dB(A))	53.2	53.8	54.4	54.9	55.3	55.8	56.4	56.7	57.1	57.5

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	55.5	-
2	L Max	57.5	-
3	L Min	53.2	-
4	Night Leq	55.7	70.0 Max

End of Report

EP-033/21/05/25-1



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TEST REPORT No. NCL/EP-026/21/05/25		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Ambient Noise
Analysis Start Date : 21/05/2025 Analysis End Date : 21/05/2025
Date of Monitoring : 20/05/2025 Monitoring Done By : NCL
Monitoring Duration : 10 Minutes Place of Monitoring : Near Compressor Area
Time of Monitoring : 11:00 AM TO 11:10 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))	65.8	66.2	66.7	67.4	67.8	69.1	69.5	68.2	68.8	70.5

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	68.0	-
2	L Max	70.5	-
3	L Min	65.8	-
4	Day Leq	68.2	75.0 Max

End of Report

EP-026/21/05/25-1



Signature
Checked by

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory



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

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

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

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



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-032/21/05/25		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Ambient Noise	Analysis End Date	: 21/05/2025
Analysis Start Date	: 21/05/2025	Monitoring Done By	: NCL
Date of Monitoring	: 20/05/2025	Place of Monitoring	: Near Compressor Area
Monitoring Duration	: 10 Minutes	Protocol	: NCL/AIR/STP/20
Time of Monitoring	: 12:40 AM TO 12:50 AM		
Category of Area	: Industrial Area		

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Night Time Reading (dB(A))	56.6	56.9	57.4	57.8	58.5	58.8	59.6	60.2	60.8	61.7

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	58.8	-
2	L Max	61.7	-
3	L Min	56.6	-
4	Night Leq	59.0	70.0 Max

End of Report

EP-032/21/05/25-1



JITENDER
Sachin Bhargava
Checked by

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory



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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-028/21/05/25		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name : Ambient Noise
Analysis Start Date : 21/05/2025 Analysis End Date : 21/05/2025
Date of Monitoring : 20/05/2025 Monitoring Done By : NCL
Monitoring Duration : 10 Minutes Place of Monitoring : East Side of Canteen in New Plot
Time of Monitoring : 11:40 AM TO 11:50 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))	64.1	64.5	65.5	65.9	66.6	67.4	67.8	68.5	69.2	66.2

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	66.6	-
2	L Max	69.2	-
3	L Min	64.1	-
4	Day Leq	66.8	75.0 Max

End of Report

EP-028/21/05/25-1



JIVENDER
Subcharge
Checked by

FOR NEWCON CONSULTANTS & LABORATORIES



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2. Endorsement of the same is neither inferred nor implied.
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5. The report is not to be produced wholly or in part without prior permission of the Managing Partner. All disputes subject to Ghaziabad Jurisdiction.

Laboratory : A-1/158, Sector-17, (Swadeshi Compound) Kavi Nagar Industrial Area, GHAZIABAD - 201 002 (U.P.)
Mobile : 9810430345, 9205501788 | Website : www.newconlab.in
E-mail : newconlab@gmail.com, newconlabfinance@gmail.com



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TC-12621

TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-031/21/05/25		DATE OF REPORT : 27/05/2025
Name and Address of Customer	M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263153	

SAMPLING DETAIL

Sample Name	: Ambient Noise	Analysis End Date	: 21/05/2025
Analysis Start Date	: 21/05/2025	Monitoring Done By	: NCL
Date of Monitoring	: 20/05/2025	Place of Monitoring	: East Side of Canteen in New Plot
Monitoring Duration	: 10 Minutes	Protocol	: NCL/AIR/STP/20
Time of Monitoring	: 12:20 AM TO 12:30 AM		
Category of Area	: Industrial Area		

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Night Time Reading (dB(A))	53.1	53.5	53.9	54.3	54.8	55.4	55.7	56.2	56.8	52.7

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
1	Average Noise Level	54.6	-
2	L Max	56.8	-
3	L Min	52.7	-
4	Night Leq	54.8	70.0 Max

End of Report

EP-031/21/05/26-1



Signature
Sd/-
Checked by

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory



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2. Endorsement of the same is neither inferred nor implied.
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Laboratory : A-1/156, Sector-17, (Swadeshi Compound) Kavi Nagar Industrial Area, GHAZIABAD - 201 002 (U.P.)

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

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



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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, lie, 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, lie, 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 falling 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.)

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

Phone: (011) 23383561 Fax: 23382051, 23386743

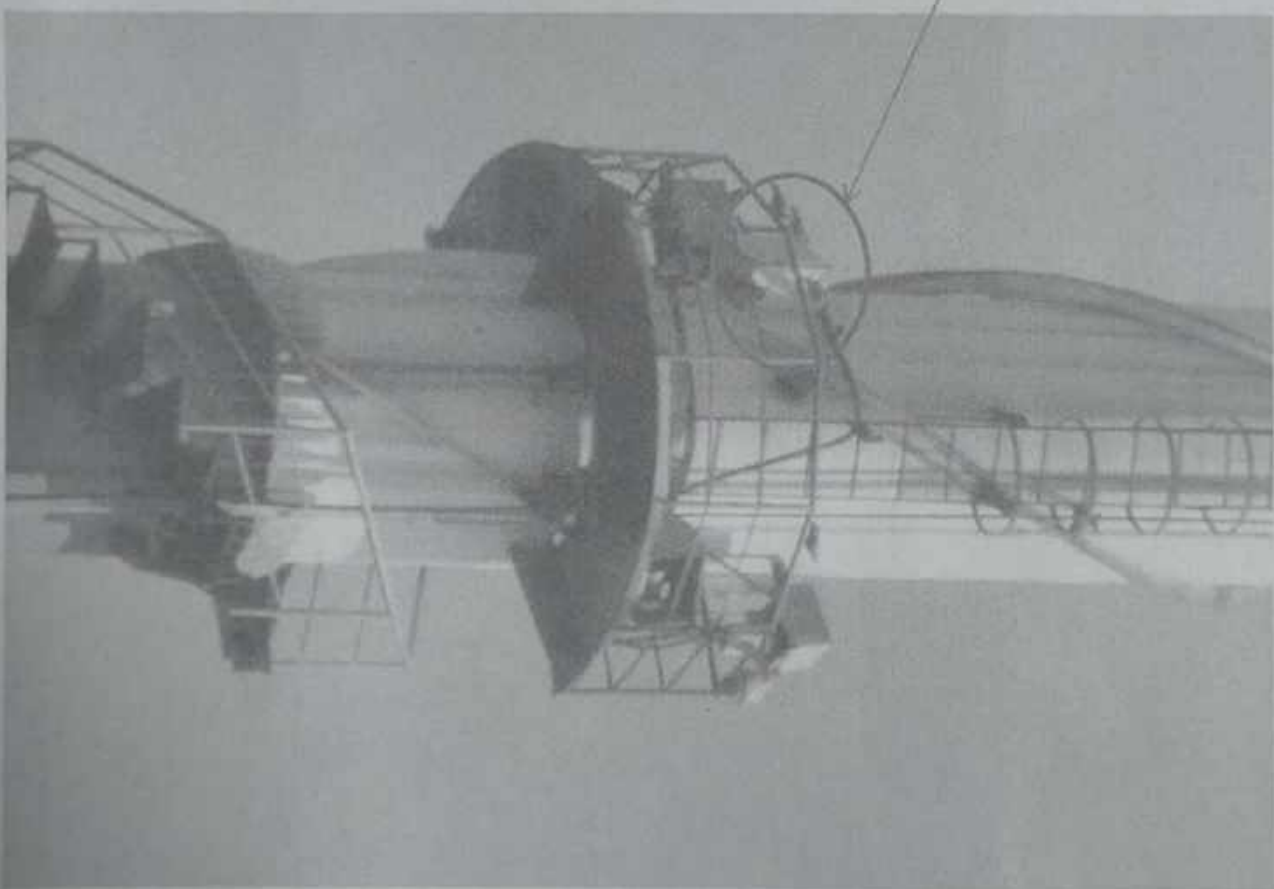
Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये
SAVE WATER - SAVE LIFE



PM analyzer Installed at Stack




PM analyzer



Silver NOx Stack



ANNEXURE-7

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, SIDCOL Pantnagar
Uttarakhand [India] PIN-263153
☎ 05944 257300

www.vedantaresources.com

Regd. Office: Yashad Bhawan, Udaipur (Rajasthan) - 313 004
CIN: L27204RJ1966PLC001268

Handwritten notes:
YH 6 4 16
Ae

Sr. No	Common Name	Botanical Name	Total QTY.	Type
1	Naal	Calotropis procera	5	Herb
2	Araucaria	Araucaria araucana	15	Herb
3	Areca Palm	Dysoxylum lutescens	10	Herb
4	Bottle palm	Hyophorbe lagenicaulis	7	Herb
5	Chandro	Tabernaemontana	12	Herb
6	Cycas palm	Cycas revoluta	15	Herb
7	Fishtail palm	Caryota obtusa	10	Herb
8	Footan Palm	Wodyetia bifurcata	10	Herb
9	Ginger Lily	Hedychium	25	Herb
10	Mar Singsai	Farrapa	22	Herb
11	Jun pine	Juniperus chinensis	8	Herb
12	Kamal	Nelumbo lutea	10	Herb
13	Phoenix palm	Phoenix dactylifera	10	Herb
14	Fulsi	Cuminum cyminum	21	Herb
15	Washingtonia Palm	Washingtonia robusta	60	Herb
16	Alamanda	Alamanda cathartica	51	Shrub
17	Ajuni	Terminalia arjuna	1118	Shrub
18	Athoka	Polyalthia longifolia	330	Shrub
19	Bamboo	Bambusa vulgaris	15	Shrub
20	Ber	Aegle marmelos	28	Shrub
21	Ber	Ziziphus mauritiana	27	Shrub
22	Bottle brush	Callistemon citrinus	1430	Shrub
23	Callandora	Callandora haematocephala	28	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	317	Shrub
29	Fuchsia	Fuchsia rosea	91	Shrub
30	Jalandra	Jalandra rhomboidalis	187	Shrub
31	Kaner	Nevetia peruviana	83	Shrub
32	Lafed Chandani	Tabernaemontana Divaricata	30	Shrub
33	Amaltas	Cassia fistula	52	Tree
34	Banjar Vad	Ficus benghalensis	48	Tree
35	Chakrapala	Chakrapala tabularis	199	Tree
36	Chivari	Azadirachta indica	863	Tree
37	Curry patta	Curry patta	18	Tree
38	Dombeya	Dombeya rotundifolia	35	Tree
39	Dombeya	Dombeya rotundifolia	5	Tree
40	Dombeya	Dombeya rotundifolia	6	Tree
41	Dombeya	Dombeya rotundifolia	486	Tree
42	Gula	Delonix regia	223	Tree
43	Jamun	Eugenia jambolana	208	Tree
44	Kachha	Bauhinia variegata	212	Tree
45	Kachha	Bauhinia variegata	604	Tree
46	Kachha	Bauhinia variegata	75	Tree
47	Kachha	Bauhinia variegata	95	Tree
48	Kachha	Bauhinia variegata	120	Tree
49	Kachha	Bauhinia variegata	6	Tree
50	Kachha	Bauhinia variegata	5	Tree
51	Kachha	Bauhinia variegata	32	Tree
52	Kachha	Bauhinia variegata	411	Tree
53	Kachha	Bauhinia variegata	1114	Tree
54	Kachha	Bauhinia variegata	82	Tree
55	Kachha	Bauhinia variegata	7	Tree
56	Kachha	Bauhinia variegata	108	Tree
57	Kachha	Bauhinia variegata	61	Tree
58	Kachha	Bauhinia variegata	873	Tree
59	Kachha	Bauhinia variegata	55	Tree
60	Kachha	Bauhinia variegata	128	Tree
61	Kachha	Bauhinia variegata	61	Tree
Total			10393	

कार्यालय- प्रभागीय वनाधिकारी, तराई केन्द्रीय वन प्रभाग, हल्द्वानी

पत्राक 4384 / 32 / दिनांक हल्द्वानी 28/04 / 2016

फोन / फैक्स 05944 220188 ईमेल office_forest-ur@nic.in

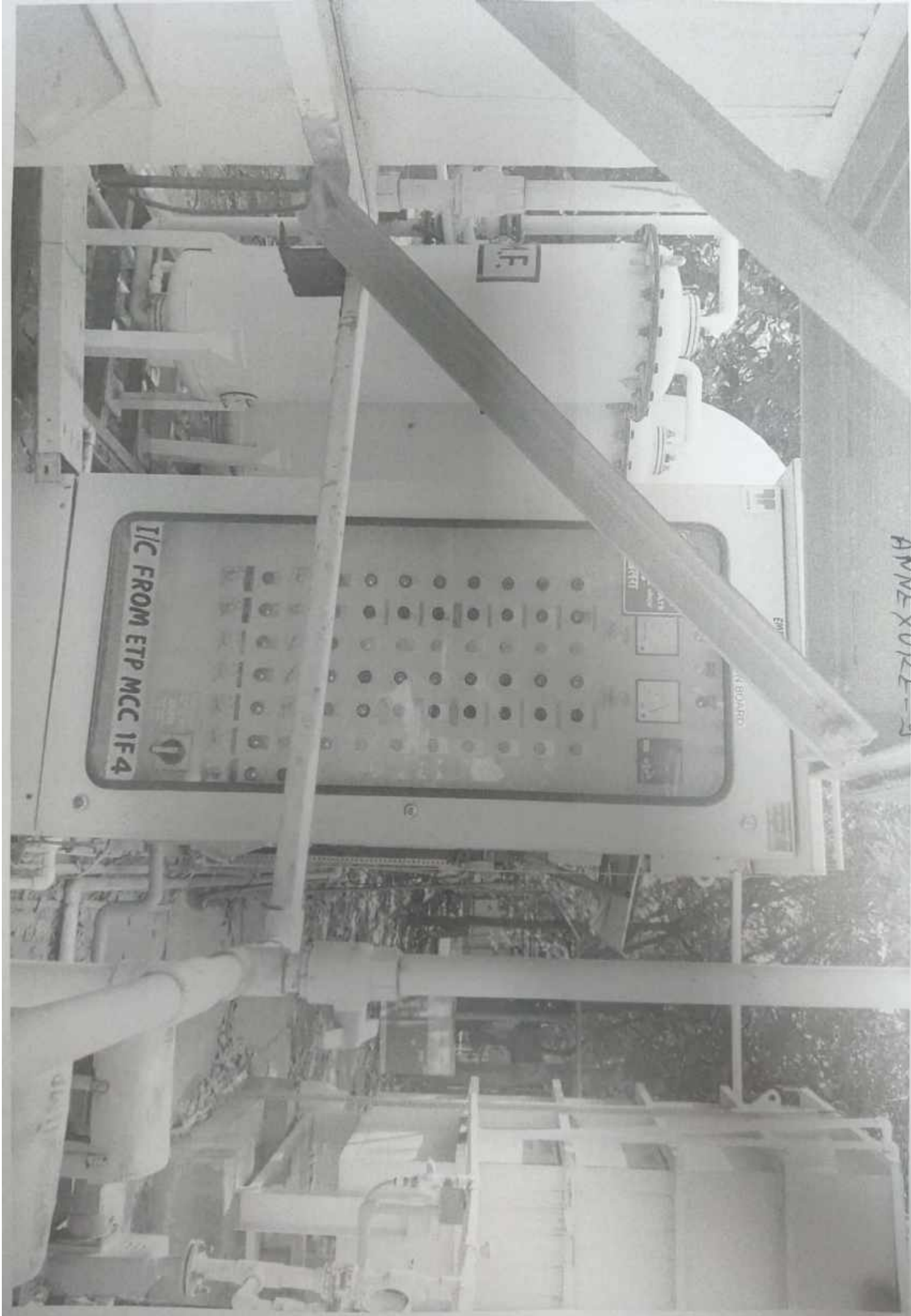
TO WHOMSOEVER IT MAY CONCERN

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



Divisional Forest Officer,
Lam Central Division,
Haldwari

ANNEXURE-3





सत्यमेव जयते

INDIA NON JUDICIAL
Government of Uttarakhand

e-Stamp

Certificate No.	: IN-UK050414783638S
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

29th
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. 283, Sector-14, IIE, SIDCUL, Pantnagar, Rudrapur, Uttarakhand- 263153, India (hereinafter called as FIRST PART) which expressions 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 283, 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.showstamp.com or using e-Stamp Mobile App.
2. The price of checking the legitimacy is available on the website / Mobile App.
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 UP PCB, 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. 283, 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 283, Sector 14, IIE, SIDCUL,
Rudrapur, Uttarakhand

For Bharat Oil & Waste Management Ltd.

Director

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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

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

CC: All members



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

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HEAD OFFICE

Uttarakhand Pollution Control Board

"Gaura Devi Paryavaran Bhawan"

46B, IT Park, Sabastradhara Road, Dehra Dun

E-mail : msukpcb@yahoo.com, Phone No.-0135-2607092

File no.-UKPCB/HO/Con/H-71/2025/

Consent no. 1038

To,

M/s Hindustan Zinc Ltd.,
(Pantnagar Silver Plant),
Plot no. 2 & 3, Sector-14, IIE,
SIDCUL, Pantnagar,
Distt- Udham Singh Nagar.

Consolidated Consent to Operate and Authorisation hereinafter referred to as the CCA (Consolidated Consent & authorization) (Expansion) under Section-25 of the "Water (Prevention & Control of Pollution) Act, 1974" and under Section-21 of the "Air (Prevention & Control of Pollution) Act, 1981" and Authorization under "Rule-6(2)" of the "Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016" notified under "Environment (Protection) Act, 1986" as applicable (to be referred hereinafter as Water Act, Air Act and HW Rules respectively).

CAF ID - 14132
CCA (Expansion)
Date :- 31.01.2025

Application no. - 6524839

CCA is hereby granted to M/s Hindustan Zinc Ltd., located at Plot no. 2, Sector-14, IIE, SIDCUL, Pantnagar, Rudarpur, Tehsil-Kichha, Distt- Udham Singh Nagar subject to the provisions of the Water Act, Air Act and Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the orders that may be made further and subject to following terms and conditions :-

1. This CCA is granted for the period upto 31.03.2026 and valid for manufacturing of following products with Capital Investment/Net Assets Values Rs. 7902.0 Lakh :-

S. No.	Last CCA		Present CCA (Expansion)	
	Product	Quantity	Product	Quantity
1	Refined Silver (Powder/ingots etc)	85MT/Month (not to be exceeded by 800MT/Year)	Refined Silver (Powder/ingots etc)	960 MT/Year
	By product	Quantity	By product	Quantity
1	Antimony Concentrate (Precipitate/Salt Mix)	150MT/Month (not to be exceeded by 800MT/Year)	Antimony Concentrate (Precipitate Salt Mix)	2187 MT/Annum
2	Bismuth Concentrate (Precipitate Salt Mix)	30MT/Month (not to be exceeded by 360MT/Year)	Bismuth Concentrate (Precipitate Salt Mix)	437MT/Annum
3	Copper Matter	15MT/Month (not to be exceeded by 140MT/Year)	Copper Matte	170MT/Annum
4	Lead Slag	46MT/Month (not to be exceeded by 450MT/Year)	Lead Slag	547MT/Annum
5	Oxidation slag	105MT/Month (not to be exceeded by 1250MT/Year)	Oxidation slag	1519MT/Annum

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6	Silver Anode Slime/Silver Sand	1MT/Month, (not to be exceeded by 10MT/Year).	(not)	Silver Anode Slime/Silver Sand	12MT/Annum
7	Silver Nitrate	3MT/Month, (not to be exceeded by 25MT/Year).	(not)	Silver Nitrate	30MT/Annum
8	VRF Zinc	55MT/Month, (not to be exceeded by 650MT/Year).	(not)	VRF Zinc	790 MT/Annum
9	VRF Zinc Dross	10MT/Month, (not to be exceeded by 100MT/Year).	(not)	VRF Zinc Dross	122MT/Annum

2. Specific Conditions under Water Act :-

(i) The daily quantity of effluent discharge (KLD) :-

	Last CCA	Present CCA (Expansion)
Trade Effluent	Nil	Nil
Sewage	12	15

(ii) Trade Effluent Treatment and Disposal:- ...Nil...

(iii) Sewage Treatment and Disposal:- The applicant shall provide comprehensive STP (30 KLD) as is required with reference to influent quantity and quality.

In case of stoppage of functioning of STP, production has to be stopped immediately and this Board has to be intimated by fax/phone/email with a report in this regard to be dispatched immediately.

(iv) The treated sewage shall be reuse in gardening etc. Quality of the treated effluent shall meet to the following standards within five years from the date of notification dated 13.10.2017.

S.No.	Parameters	Standards
1	pH	6.5 to 9.0
2	BOD (mg/L)	Not more than 30
3	TSS (mg/L)	Not more than 100
4	Fecal Coliform (MPN/100ml)	Less than 1000

3. Conditions under Air Act :-

(i) The applicant shall use following fuel and install a comprehensive control system consisting of control equipment as is required with reference to generation of emissions and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards :-

S. No	Stack attached with	Stack height (Mt)	Type of Fuel	Fuel Quantity	Emission Control Equipment	Emission standards not to exceed
1	Noble Furnace (14MT)	40	HSD/PNG	200Ltr/Hr	fumes collection hood & Bag filters	PM - 10 150mg/Nm ³
2	Cupola Furnace (2.5MT) x 2 Nos.	40	HSD/PNG	100Ltr/Hr	fumes collection hood and Bag filters	PM - 10 150mg/Nm ³
3	Furnace 3Nos. (2x1TPD + 1x1.5TPD)	40	Electricity	150KW/Hr	fumes collection hood & Bag filters	PM - 10 150mg/Nm ³
4	Junker Furnace (4TPD) x 1Nos	40	Electricity	600KW/Hr	fumes collection hood & Bag filters	PM - 10 150mg/Nm ³
5	BBOC Furnace	40	HSD/PNG	100Ltr/Hr	fumes	PM - 10

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(4TPD x INos)				collection hood and Bag filters.	150mg/Nm ³
---------------	--	--	--	----------------------------------	-----------------------

In case of stoppage of functioning of air pollution control equipment, production has to be stopped immediately and this Board has to be intimated by telephone/email with a report in this regard to be dispatched immediately.

Unit has to provide stack of 30 mt height gas exist NOx scrubber.

- (ii) Noise from the D.G. Set and other source(s) should be controlled by providing an acoustic enclosure as is required for meeting the ambient noise standards for night and day time as prescribed for respective areas/zones (Industrial, Commercial, Residential, Silence) which are as follows :-

Standards for Noise level in db(A) L _{eq}	Industrial Area		Commercial Area		Residential Area		Silence Zone	
	Day time	Night time	Day time	Night time	Day time	Night time	Day time	Night time
	75	70	65	55	55	45	50	40

Day time : from 6.00 a.m. to 10.00 p.m. Night time : from 10.00 p.m. to 6.00 a.m.

4. Conditions under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 :-

- (i) The Factory Manager of M/s Hindustan Zinc Ltd., (Silver Plant), Pantnagar, Distt- Udham Singh Nagar is hereby granted an authorization to operate a facility for collection and storage of Hazardous wastes.
- (ii) The authorization is granted to operate a facility for generation, collection and storage of hazardous wastes within factory premises for following category of wastes :

S.No.	Category (Schedule-I & Schedule-II)	Quantity of Waste for which authorization is being issued (MTA)	Mode of Disposal
1	Schedule I - 5.1	5.0	Recyclable
2	Schedule I - 5.2	5.0	Recyclable
3	Schedule I - 7.2	5.0	Recyclable
4	Schedule I - 7.4	2.0	Recyclable

(iii) The authorization shall be in force for the period upto 31.03.2026.

(iv) The authorization is subject to the conditions stated below and such conditions as may be specified in the rules for the time being in force under Environment (Protection) Act, 1986

Terms and conditions of authorization :-

- (i) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
- (ii) The authorization and its renewal shall be produced for inspection at the request of an officer authorized by the SPCB/PCC.
- (iii) The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes without obtaining prior permission of the SPCB/PCC.
- (iv) Any unauthorized changes in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
- (v) It is the duty of the authorized person to take prior permission of the SPCB/PCC to close down the facility.
- (vi) An application for the renewal of an authorization shall be made as laid down under these rules.
- (vii) The unit shall comply with any other conditions specified in the guidelines issued by the MoEF&CC or CPCB/SPCB from time to time.

5. This CCA is valid for refining, melting and casting processes only.

6. Compulsory documents to be submitted by the Industry/Unit :-

- (i) Annual return in Form-4 and Waste Disposal Manifest in Form-10 under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and Third Party Audit Report.

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(ii) Environment Statement in Form-V of Environment (Protection) Rules, 1986

(iii) Quarterly compliance report of the CCA, photograph of ETP/APCs/Waste Storage Area.

7. Unit has to apply for renewal of CCA well in advance of 60 days of expiry of this CCA.
8. Competent Authority reserves the right to change/modify/add any time any condition of this CCA.
9. Unit has to comply with the other specific & general conditions which are as follows -

Specific Conditions:

1. **This Consent to Operate will attract execution of Board's Order dated 02.12.2022 subject to directions of Hon'ble High Court in this regard in the PIL 93/2022 as issued from time to time.**
2. The applicant shall submit audited balance sheet of the unit at the end of each financial year so that fee submitted by the applicant could be assessed.
3. The applicant shall provide ports in the chimney stack and facilities such as ladder, platform etc. as per requirement for monitoring the air emissions and the same shall be open for inspection and use at all times by the Board's staff. The chimney/stack attached to various sources of emission shall be designated by numbers such as S-1, S-2 etc. and these shall be painted/displayed to facilitate identification.
4. The industry shall ensure interlocking of air pollution control devices and production processes.
5. Solid wastes generated from the industry have to be disposed in manner so that contamination of surface water bodies/ground water/soil etc. does not take place.
6. The industry shall take adequate measures to control of noise from its own source so as to comply with the standards as may be applicable.
7. The applicant shall develop three rows of green belt on the premises with plant species as suggested by the Central Pollution Control Board.
8. The industry shall strictly adhere with the specific and general conditions issued with CCA order. Any violation of stipulated conditions may attract legal action under the provisions of Water Act, Air Act and Environment (Protection) Act and Rules made thereunder.
9. The industry shall ensure all safety measures and shall undertake periodical assessment by the competent authority.
10. Unit shall ensure manifest system in Form-10 of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 while disposing hazardous waste.
11. Hazardous waste should not be stored beyond a period of 90 days.
12. The industry situated nearby the River Ganga and its tributaries shall ensure the treatment facilities and disposal arrangement in such a way so that no waste water is discharged in water stream or water bodies.
13. The unit shall strictly comply with the provisions of Water, Air & E (P) Acts and Rules/Notifications made there under.
14. The unit shall strictly avoid the usage of Single use Plastics in the premises as per the list of banned Single Use Plastics mentioned in the Notification of MoEF&CC, Government of India dated 12-08-2021 and Notification of Uttarakhand Government issued vide letter no. 84/XXVIII-1-20-13(H)/2001, dated 16.02.2021.
15. Unit has to submit Action Plan of collecting back and scientific disposal of plastic waste generated due to their used product within one month of receipt of this CCA of this Board.

2. General Conditions

1. The applicant shall get analyse the samples of effluent/emission/hazardous wastes at least once in a three month from the laboratory recognized by the MoEF&CC and shall report to the UKPCB.
2. The applicant shall however, not without the prior consent of the Board bring into use any new or altered outlet for the discharge of effluent or gases emission or sewage waste from the unit.
3. Treated waste water and domestic waste water shall be disposed away at one disposal point. The applicant shall provide discharge measurement equipment at final disposal point.
4. The applicant shall strictly comply with conditions of this CCA and submit compliance report of stipulated conditions within 30 days of receipt of this CCA. If, at any point of time, it is found that the industry is not complying with stipulated conditions or any further direction/instruction issued by the Board, legal action shall be initiated against the applicant.
5. The applicant shall maintain good house keeping. All valves, pipes, etc. drains etc. must be leak-proof.

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6. The industry shall provide uninterrupted entry to the STP's/ETP's inlet and outlet points, Air Pollution Control equipment and stack for smooth sampling monitoring of efficiency of pollution control measures.
7. The industry shall provide "Inspection Book" at the time of inspection to the Board's officials.
8. Whenever due to any accident or other unforeseen act or event, such emission occurs or is apprehended to occur in excess of standards laid down, such information shall be reported to the Board's offices and all other concerned offices. In case of failure of pollution control equipment, the production process connected to it shall be stopped with immediate effect.
9. The industry shall operate in a manner so that all emissions be emitted through designated chimney stack only.
10. In case of any damage to the agriculture productivity, human habitation etc. by the operation of industry, it shall be imperative to stop production in the industry with immediate effect and such information shall be reported to Board's offices. The industry shall be liable to pay compensation also in such cases as decided by the Competent Authority.
11. The applicant shall apply before the 60 days of expiry of CCA or any change in production types, production capacity, manufacturing process, capacity enhancement etc. or any change in effluent discharge point or emission point.
12. The Board reserves the right to revoke, add, modify any stipulated condition issued along with CCA, as may be necessary.
13. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous waste without obtaining prior permission of the Board.
14. Any unauthorized change in personnel, equipment or working condition as mentioned in the application by the person authorized shall constitute a breach of his authorization.
15. It is the duty of the authorized person to take prior permission of the Board to close down the facility.
16. The authorization is valid for temporary storage of Hazardous Waste within premises only.
17. The authorized agency shall ensure that on-line data with regard to quantity and nature of hazardous chemicals being used in the plant as well as air emission and waste generated within premises is displayed on Display Board of size 6x4 feet outside the main factory gate within premises.
18. It is duty of the authorized person to take prior permission of this Board to close and cleanup the facility for treatment, storage and disposal of hazardous waste.
19. The applicant shall maintain record of hazardous waste in Form-3 and shall submit annual return in Form-4 on or before the 30th day of June following to the financial year to which that return relates.
20. In no case any hazardous waste shall be disposed off on land, in any drain, or into any water stream. All spillage must also be safely collected and stored.
21. Before the hazardous waste is stored or dumped in the facility, applicant must conduct a detailed physical and chemical analysis of hazardous waste sample and report to the Board.
22. Dried hazardous sludge from the process in the plant shall be stored in double lined HDPE pit constructed with R.C.C. or such material which does not react with the waste contained in it.
23. The storage area should be fenced properly and Sign Notice Board indicating 'Danger' and 'Hazardous' shall be displayed at appropriate position both in Hindi and English.
24. The industry shall store non-ferrous metal waste, used oil/spent oil waste in sealed drums placed on impervious floor under covered shed. Hazardous waste if required shall be sold only to Registered Recyclers/Re-processors.
25. In case of any transportation of hazardous waste, the details in Form-10 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 shall be submitted to the Board.

Digitally signed by
PARAG MADHUKAR DHAKATE
Date: 18-09-2025 12:56:02

(Dr. Parag Madhukar Dhakate)
Member Secretary

Copy to: Regional Officer, Uttarakhand Pollution Control Board, Kashipur, Distt- Udham Singh Nagar for information and compliance of the same.

Member Secretary

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