



Vide Letter No.: HZLP/M&C/24-25/H-I

Date: 24/10/2024

To,

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

Subject: Submission of Environment Clearance compliance report for Pantnagar Zinc-Lead melting & casting Plant (Zinc Metal- 4,65,000 TPA & Lead Metal- 1,50,000 TPA) of M/s Hindustan Zinc Limited, Plot No 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar, Dist. U.S. Nagar for the period <u>April-2024 to September-2024.</u>

Ref; Letter No:- J-11011/327/2010/IA-II (I) dated 26.04.2011 from MoEF&CC.

Dear Sir,

With reference to the aforesaid subject, we have obtained Environment Clearance from Ministry of Environment, Forest and Climate Change, New Delhi for Pantnagar Zinc-Lead melting & casting Plant (Zinc Metal- 4, 65,000 TPA & Lead metal- 1, 50,000 TPA) on dated 26.04.2011.

Please find enclosed herewith the Compliance report of Environment Clearance for Pantnagar Zinc-Lead melting & casting Plant of M/s Hindustan Zinc Limited, Plot No 2 & 3, Sector 14, IIE, SIDCUL, Pantnagar, Dist. U.S. Nagar for the period of April-2024 to September-2024.

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

Thanking you.

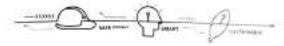
(Anamika Jha)

SBU Director

Pantnagar Zinc-Lead melting & casting Plant Hindustan Zinc Limited

CC:

- Regional Officer, CPCB, Lucknow
- 2. MS office, UEPPCB, Dehradun
- 3. Regional Officer, UEPPCB, Kashipur
- Office copy, HZL



Hindustan Zinc Limited, Registered Office: Yashad Bhawan, Udaipur-313 004, Rajasthan, INDIA. T. +91 294-6504000-02 www.hzlindia.com CIN: L27204RJ1966PLC001208

Compliance Report of Environment Clearance (April-2024 to September-2024)

Name of the Project:

M/s Hindustan Zinc Limited

Pantnagar Zinc-Lead melting & casting Plant

Location of the Project:

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

Pantnagar, District - Udham Singh Nagar,

Uttarakhand - 263153

Clearance Letter No: J-11011/327/2010/IA-II (I) Dt.26th April 2011 from MoEF&CC

Period of Compliance Report: October-2023 to March-2024

S.No	Condition	Compliance Status
Α	Specific conditions.	
1	On-line ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz. bag filters shall be provided to keep the emission levels below 50 mg/Nm³ by installing energy efficient technology.	Being Complied. Efficient bag filters and continuous stack monitoring PM analyzers have been provided in all process stacks. Continuous on-line Ambient air quality monitoring station (CAAQMS) is also installed in the plant premises to monitor the ambient air continuously. Emission levels are being maintained well within the stipulated limit. Copy of Ambient air & Stack emission quality monitoring reports attached herewith as Annexure-1(a) & 1 (b) respectively. Photograph of CEMS & CAAQMS are attached herewith as Annexure-2.
2	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 th November, 2009 should be followed.	Noted and being Complied. Ambient air quality monitoring results are well within the NAAQs limits.
3	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30 th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.	Being Complied. All Gaseous emission are being controlled through efficient bag filters connected to adequate stacks height provided for proper dispersion. In addition, monthly work zone monitoring is also being carried out. Reports of stack emission and work zone are attached herewith as Annexure-1(b) & 1(c) respectively.
4	The total water requirement shall not exceed 500 KLD. Permission to draw water from the Competent Authority shall be obtained. No effluent shall be discharged and 'zero' discharge should be adopted.	Being Complied. Water requirement of Zinc and

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

Page 1 of 6

		renewal). No effluent is being generated from the process. However, Effluent treatment plant of 87 KLD is already provided for treating the combined trade effluents of Zinc & Lead melting casting and Silver refining plant so ETP is not in operation. Combined STP of 30 KLD already installed to treat the wastewater of Zinc and Lead Melting & Casting unit as well as silver plant. Treated water of the same is being used for horticulture/plantation. Zero discharge is being maintained.
5	Regular monitoring of influent and effluent surface, sub- surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis should also be regularly carried out and report submitted to the Ministry's Regional Office at Lucknow, SPCB and CPCB.	Being Complied. No effluent is being generated from the process. Ground water being used for plant operation and regular bore well monitoring being ensured. Zero Discharge is being maintained and no effluent discharged to surface water body. Provision for online monitoring of STP outlet for BOD, COD, pH, TSS & Flow has been made. Copy of ground water monitoring is attached herewith as Annexure 1(d).
6	Efforts shall be made to make use of rainwater harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement should be met from other sources	Complied. Presently We have four rainwater harvesting pond for rainwater collection having capacity approx. 2542, 1500, 841 and 750 cu.m and collected rainwater is being utilized into the process. In FY 2024-25, H1, we have reused around 6,603 cu.m rainwater in the process for conserving the fresh water. Photograph of the same is attached herewith as Annexure-3.
7	Risk and Disaster Management Plan along with the mitigation measures should be prepared and a copy submitted to the Ministry's Regional Office at Lucknow, SPCB and CPCB within 3 months of issue of environment clearance letter.	Complied. Risk and Disaster Management Plan has been submitted to Ministry's Regional Office at Lucknow, SPCB and CPCB on 20.07.2011. Also, we have prepared and submitted On Site Emergency plan to the competent authority. Receiving copy was submitted along with compliance report vide letter no- HZLP/M&C/18-19/H-II dated 23.04.2019 & 29.05.2023 and its amendment on 16.02.2024.
8	As proposed, green belt shall be developed in 33 % of the plant area. Selection of plant species should be as per the CPCB guidelines in consultation with the DFO.	Complied. More than 33% Green Belt of total plant area has already been provided with three rows along with boundary wall in plant premises in consultation with DFO (Divisional Forest Officer) and CPCB guidelines. Gap filling

Hindustan Zinc Limited
Pantnagar Metal Plant
Plot No.283, Sector 14, IIE, SIDCUL,
Rudrapur – 263153, Uttarakhand

Page 2 of 6

	plantation being carried out for maintaining the survival rate of Plantation.
At least 5 % of the total cost of the project shall be earmarked towards the enterprise social commitment (ESC) and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program should be ensured accordingly in a time bound manner.	Being Complied. CSR plan prepared and submitted to MOEF-Regional Office Lucknow, CPCB regional office Lucknow and UEPPCB Dehradun along with E.C compliance report as dated 20.07.2012, This is being implemented in phased manner with the help of local administration. Many CSR development activities are being carried out for upliftment of nearby communities. CSR projects details is attached herewith as Annexure 4.
Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied. Safe drinking water, sanitation facilities. Medical health care etc. provided at the plant premises. No housing facility provided in plant premises.
General Conditions	
The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) and the State Government.	Noted and being Complied.
No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted and being Complied.
At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , SO ₂ and NO _x are anticipated in consultation with the SPCB including one ambient air quality monitoring station in the downwind direction. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Lucknow and the SPCB / CPCB once in six months.	Being Complied. In consultation with RO, UEPPCB, 4 Ambient air quality monitoring location finalized including downwind direction as well as maximum ground level concentration anticipated areas. CAAQMS also installed at plant premises. Monthly monitoring is being carried out in plant area. Data on ambient air quality and stack emission is being submitted regularly as stipulated. Continuous on-line Ambient air quality monitoring station (CAAQMS) is also installed in the plant premises to monitor the ambient air continuously. Emission levels are being maintained well within the stipulated limit. Copy of Ambient air & Stack emission quality monitoring reports attached herewith as Annexure-1(a) & 1 (b) respectively. Photograph of CEMS & CAAQMS are attached herewith as Annexure-2.
	earmarked towards the enterprise social commitment (ESC) and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program should be ensured accordingly in a time bound manner. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project. General Conditions The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board (SPCB) and the State Government. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , SO ₂ and NO _x are anticipated in consultation with the SPCB including one ambient air quality monitoring station in the downwind direction. Data on ambient air quality and stack emission should be regularly submitted to this Ministry including its Regional Office at Lucknow

Hindustan Zinc Limited Pantnegar Metal Plant Plot No.283, Sector 14, IIE, SIDCUL, Rudrapur - 263153, Utterskhand

	so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	treated in the STP to ensure stipulated quality and used for plantation. Photograph of STP is attached herewith as Annexure-5.
5	The overall noise levels in and around the plant area shall be kept well within the standards (85 dB) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB (daytime) and 70 dB (nighttime)	Being Complied. Acoustic enclosures/silencers are provided for DG, compressors, blowers and exhaust fans to ensure the noise levels within the factory premises is within the stipulated levels for industrial area. Green Belt along with boundary provided to limit the noise from the plant to surrounding areas. Noise monitoring reports are attached herewith as Annexure 1(e).
6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Being complied. Pre-employment & periodic medical examinations are being carried out for the relevant occupational hazards at a regular frequency, as per statutory requirements.
7	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Complied. Presently We have four rainwater harvesting pond for rainwater collection having capacity approx. 2542, 1500, 841 and 750 cu.m and collected rainwater is being utilized into the process. In FY 2024-25, H1, we have reused around 6,603 cu.m rainwater in the process for conserving the fresh water. Photograph of the same is attached herewith as Annexure-3.
8	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Being Complied. Environment protection measures and safeguards recommended in the EIA/EMP report being implemented, Socio-Economic development activities are being implemented as per action plan. Many CSR development activities are being carried out for upliftment of nearby communities. CSR projects photographs is attached herewith as Annexure 4.
9	The requisite funds shall be earmarked towards the capital cost and recurring cost/annum for environmental protection measures and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	Being Complied. Sufficient funds available for operation and maintenance of the facility during operation phase. The said funds not been diverted for any other purpose.
10	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the local NGO, if any,	Complied. The copy of the clearance letter submitted to the Panchayat/ Zila Panchayat, Municipal Corporation and Urban Local Body

Page 4 of 6

	from whom suggestions / representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	(SIDCUL). EC letter is also available on company website. Link of website https://www.hzlindia.com/wp-content/uploads/Environment-Clearance-Letter-for-Pantnagar-Metal-Plant-Melting-and-Castingmpm.pdf
11	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO ₂ , NOx and Lead (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	Being Complied. Submission of Six-monthly compliance report of environmental condition with monitoring results (in hard copies as well as by e-mail) to RO, MOEF&CC, Dehradun, Zonal Office CPPCB, Lucknow, MS UEPPCB, Dehradun and RO UEPPCB, Kashipur being ensured. Six monthly compliance reports are being uploaded on the company website. Link of website uploading EC compliance of October'23 to March'24 is https://www.hzlindia.com/wp-content/uploads/PMP-Zn-Lead-EC-Compliance-H2-2023-24.pdf Display board on all criteria pollutants provided at main gate which is being updated regularly. Photograph of board is attached herewith as Annexure 6.
12	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF at Lucknow, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Lucknow / CPCB / SPCB shall monitor the stipulated conditions.	Being Complied. Submission of Six-monthly compliance report of environmental condition with monitoring results (in hard copies as well as by e-mail) to RO, MOEF&CC, Dehradun, Zonal Office CPPCB, Lucknow, MS UEPPCB, Dehradun and RO UEPPCB, Kashipur being ensured. Link of website uploading EC compliance of October'23 to March'24 is https://www.hzlindia.com/wp-content/uploads/PMP-Zn-Lead-EC-Compliance-H2-2023-24.pdf
13	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	Environmental statement of every year is being submitted to Regional Office MoEF, CPCB and UEPPCB. Last Environment statement was submitted to RO, MoEF&CC vide letter no. HZL/PMP/ENV/M&C/2022-23/01 dated 05.09.2023. Environment statement of every year has been uploaded on company website. Link of last Environment Statement is https://www.hzlindia.com/wp-

Page 5 of 6

		content/uploads/Environment-statement-2023- 24MC.pdf
14	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Lucknow.	Complied. Published in newspapers of Dalnik Jagaran and Amar Ujala. Copies have been submitted to Regional office at Lucknow along with reply of letter No. IV/ENV/Utr/Ind-34/210/2012/156 dated 08.06.2011 & on 20.07.2011 to CPCB Regional office Lucknow and UEPPCB Dehradun.
15	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Noted & complied. Plant was commissioned in March 2012.

Hindustan Zinc Limited
Pentnagar Metal Plant
Plot No.283, Sector 14, IIE, SIDCUL.
Rudrapur – 263153, Uttarakhand

Page 6 of 6





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TEST REPORT

Page No.: 1 of 2

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

DATE OF REPORT: 03/10/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

: AMBIENT AIR

Analysis Start Date

: 28/09/2024

: 27/09/2024

Analysis End Date

: 03/10/2024

Date of Sampling

Sampling Done By

: NCL

Time of Sampling

11:00 AM (27/09) TO 11:00 AM (28/09)

Sampling Location

: NEAR MAIN GATE/SECURITY

Sampling Protocol

: IS: 5182 (P-5) AS PER CPCB GUIDELINES

Sample ID No.

: NCL/EP-028/28/09/24

Sampling Flow Rate for : 0.5 LPM

Sampling Flow Rate of SPM : 1.24 mtr³/min

Gases

(Average)

Sampling Duration

: 24 Hrs

Sampling Machine Placed at : 3.0 Mtr Height (from ground)

Equipments Used

PHYSICAL OBSERVATIONS

Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

Ambient Temperature

: 30°C

Wind Direction

: East to West

Weather Conditions : Clear

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	µg/m3	IS:5182 (Part 23)	64	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m3	IS:5182 (Part 24)	36	For 24 Hrs=60
3	Sulphur Dioxide (SO2)	µg/m3	IS:5182 (Part 2)	19.1	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m3	IS:5182 (Part 10)	0.055	For 05 Hrs=02 For 1 Hrs =04
5	Nitrogen Dioxide (NO2)	µg/m3	IS:5182 (Part 6)	30.8	For 24 Hrs=80
6	Lead (Pb)	µg/m3	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O3)	µg/m3	IS:5182 (Part-9)	BDL(DL-20.0)	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH3)	µg/m3	IS 5182 (Part 25)	BDL(DL-20.0)	For 24 Hrs=400
9	Benzens (C6 H5)	µg/m3	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05

EP-026/28/09/24-1



Checked by **litendra**

Sr. Analyst

Arvind Choudhary Sr. Analyst (Instrument) FOR NEWCON CONSULTANTS & LABORATORIES

Authorized \$

Shashi Solanki Lab Head

1. The test report refers only to the particular sample/s submitted for testing and listed parameters.

2. Endorsement of the same is neither inferred nor implied.

Laboratory shall maintain the confidentiality of all information related to the samples & test reports.
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Page No.: 2 of 2

TEST REPORT No. NCL/EP-028/28/09/24

DATE OF REPORT :03/10/2024

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
10	Benzo (a) Pyrene (BaP)	ng/m3	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual=01
11	Arsenic (As)	ng/m3	NAAQMS/36	BDL(DL-1 0)	For Annual=06
12	Nickel (NI)	ng/m3	IS: 5182 (P-26)	BDL(DL-5.0)	For Annual=20

End of Report

Remarks: BOL=Below Detection Limit.



Jitendra

Sr. Analyst

Arvind Choudhary

Sr. Analyst (instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Si

Shashi Solanki

Lab Head

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TEST REPORT

Page No.: 1 of 2

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

DATE OF REPORT: 03/10/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

: AMBIENT AIR

Analysis Start Date

28/09/2024

Analysis End Date

: 03/10/2024

: NCL

Date of Sampling

: 27/09/2024

Sampling Done By

: BACK SIDE OF DG AREA

Time of Sampling

: IS: 5182 (P-5) AS PER CPCB

: 11:00 AM (27/09) TO 11:00 AM (28/09) Sampling Location

Sampling Protocol

GUIDELINES

Sample ID No.

: NCL/EP-025/28/09/24

Sampling Flow Rate for: 0.5 LPM Gases

(Average)

Sampling Flow Rate of SPM : 1.21 mtr /min

Sampling Duration

Equipments Used

. 24 Hrs

Sampling Machine Placed at : 3.0 Mtr Height (from ground)

: Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

PHYSICAL OBSERVATIONS

Ambient Temperature

: 30°C

Wind Direction

: East to West

Weather Conditions

: Clear

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
1	Particulate Matters (Size Less Than 10µm) (PM10)	ug/m3	IS:5182 (Part 23)	- 68	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5μm) (PM2.5)	µg/m3	IS:5182 (Part 24)	40	For 24 Hrs=60
3	Sulphur Dioxide (SO2)	µg/m3	IS:5182 (Part 2)	18.3	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m3	JS:5182 (Part 10)	0.059	For 08 Hrs=02 For 1 Hrs =04
5	Nitrogen Diaxide (NO2)	µg/m3	IS:5182 (Part 6)	31.2	For 24 Hrs=80
6	Lead (Pb)	µg/m3	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O3)	µg/m3	IS:5182 (Part-9)	BDL(DL-20.0)	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH3)	µg/m3	IS:5182 (Part 25)	BDL(DL-20.0)	For 24 Hrs=400
9	Benzene (C6 H6)	µg/m3	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05

EP-025/28/09/24-1



litendra Sr. Analyst zed Signatory

Arvind Choudhary Sr. Analyst (instrument) FOR NEWCON CONSULTANTS & LABORATORIES

Authorized S

Shashi Solanki Lab Head

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Page No.: 2 of 2

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

DATE OF REPORT: 03/10/2024

S.No.	Test Parameters	Units	Test Method	Results	Specification As per CPCB
10	Benzo (a) Pyrene (BaP)	ng/m3	IS:5182 (Part-12)	BDL(DL-0.1)	For Annual=01
11	Arsenic (As)	ng/m3	NAAQMS/36	BDL(DL-1.0)	For Annual=06
12	Nickel (Ni)	nglm3	IS: 5182 (P-26)	BDL(DL-5.0)	For Annual=20

End of Report

Remarks: BDL=Below Detection Limit.

EP-026/28/09/24-2



Checked by Jitendra Sr. Analyst

d Signatory

Arvind Choudhary Sr. Analyst (Instrument) FOR NEWCON EDISULTANTS & LABORATORIES

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TEST REPORT

Page No.: 1 of 2

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

DATE OF REPORT :03/10/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

AMBIENT AIR

Analysis Start Date

: 28/09/2024

Analysis End Date

: 03/10/2024

Date of Sampling

: 26/09/2024

Sampling Done By

- NCL

Time of Sampling

: 11:10 AM (26/09) TO 11:10 AM (27/09)

Sampling Location

: SE Corner of Lead Plant

Sampling Protocol

: IS: 5182 (P-5) AS PER CPCB GUIDELINES

Sample ID No.

: NCL/EP-023/28/09/24

Sampling Flow Rate for : 0.5 LPM

(Average)

Sampling Flow Rate of SPM : 1.22 mtr³/min

Gases

Sampling Machine Placed at : 3.0 Mtr

: East to West

Sampling Duration

: 24 Hrs

Height (from ground)

Equipments Used

: Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

PHYSICAL OBSERVATIONS Wind Direction

Ambient Temperature 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/m3	IS:5182 (Part 23)	72	For 24 Hrs=100		
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m3	IS:5182 (Part 24)	43	For 24 Hrs=60		
3	Sulphur Dioxide (SO2)	µg/m3	IS:5182 (Part 2)	19.8	For 24 Hrs=80		
4	Carbon Monoxide (GO)	mg/m3	IS:5182 (Part 10)	0.065	For 08 Hrs=02 For 1 Hrs =04		
5	Nitrogen Diaxide (NO2)	µg/m3	IS:5182 (Part 6)	31.2	For 24 Hrs=80		
6	Lead (Pb)	µg/m3	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0		
7	Ozone (O3)	µg/m3	IS:6182 (Part-9)	BDL(DL-20.0)	For 8 Hrs=100 For 1 Hr=180		
8	Ammonia (NH3)	µg/m3	IS:5182 (Part 25)	BDL(DL-20.0)	For 24 Hrs=400		
9	Benzene (C6 H6)	µg/m3	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05		

EP-023/28/09/24-1



Jitendra

Sr. Analyst

d Signatory

Arvind Choudhary Sr. Analyst (Instrument) FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Senatory

Shashi Solanki Lab Head

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Page No.: 2 of 2

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

DATE OF REPORT: 03/10/2024

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

End of Report

Remarks: BDC:Below Detection Limit.

EP-023/28/09/24-2



Jitendra Sr. Analyst

Signatory Arvind Choudhary Sr. Analyst (instrument) FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory Shashi Solanki Lab Head

SHAR

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TEST REPORT

Page No.: 1 of 2

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

DATE OF REPORT: 03/10/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

: AMBIENT AIR

Analysis Start Date

28/09/2024

Analysis End Date

: 03/10/2024

Date of Sampling

: 26/09/2024

Sampling Done By

: NCL

Time of Sampling

: 11:10 AM (26/09) TO 11:10 AM (27/09) : IS: 5182 (P-5) AS PER CPCB

Sampling Location

: Canteen East Side

Sampling Protocol

GUIDELINES

Sample ID No.

; NCL/EP-024/28/09/24

Sampling Flow Rate for: 0.5 LPM

(Average)

Sampling Flow Rate of SPM : 1.21 mtr3/min

Gases

Sampling Duration

· 24 Hrs

Sampling Machine Placed at : 3.0 Mtr Height (from ground)

Equipments Used

: Respirable Dust Sampler (PM10)+Fine Particulate Sampler (PM2.5) With Gaseous Attachment

PHYSICAL OBSERVATIONS

Ambient Temperature

: 30°C

Wind Direction

: East to West

Weather Conditions

TEST RESULT

S.No.	Test Parameters Units		Test Method	Results	Specification As per CPCB
1	Particulate Metters (Size Loss Than 10µm) (PM10)	µg/m3	IS:5152 (Part 23)	61	For 24 Hrs=100
2	Particulate Matters (Size Less Than 2.5µm) (PM2.5)	µg/m3	IS:5182 (Part 24)	34	For 24 Hrs=60
3	Sulphur Dioxide (SO2)	µg/m3	IS:5182 (Part 2)	16.9	For 24 Hrs=80
4	Carbon Monoxide (CO)	mg/m3	IS:5182 (Part 10)	0.053	For 08 Hrs=02 For 1 Hrs =04
5	Ntrogen Dioxide (NO2)	µg/m3	IS:5182 (Part 6)	29.7	For 24 Hrs=80
6	Lead (Pb)	µg/m3	IS:5182 (Part 22)	BDL(DL-0.05)	For 24 Hrs=1.0
7	Ozone (O3)	µg/m3	IS:5182 (Part-9)	BDL(DL-20.0)	For 8 Hrs=100 For 1 Hr=180
8	Ammonia (NH3)	µg/m3	IS:5182 (Part 25)	BDL(DL-20.0)	For 24 Hrs×400
9	Benzene (C6 H6)	µg/m3	IS:5182 (Part-11)	BDL(DL-1.0)	For Annual=05

EP-024/28/09/24-1



Jitendra

Sr. Analyst

Arvind Choudhary

Sr. Analyst (Instrument)

FOR NEWCON-CONSULTANTS & LABORATORIES

Shashi Solanki Lab Head

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Page No.: 2 of 2

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

DATE OF REPORT :03/10/2024

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

*** End of Report ***

Remarks: BDL=Below Detection Limit.

EP-024/28/09/24-2



Jitendra

Sr. Analyst

Arvind Choudhary

Sr. Analyst (instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Sig

Shashi Solanki Lab Head

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ANNEXURE -1(5)



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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-032/28/09/24

M/S HINDUSTAN ZINC LIMITED

Name and Address of Customer

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

: STACK EMISSION

Analysis Start Date

: 28/09/2024

Analysis End Date

: 03/10/2024

DATE OF REPORT :03/10/2024

Date of Sampling

: 27/09/2024

Sampling Done By

: NCL

Sampling Protocol

: AS PER CPCB GUIDELINES

Duration of Sampling

: 30 Minutes

Sample ID No.

NCL/EP-032/28/09/24

Sampling Location

: Zinc F-1 Stack

Equipments Used

: Vayubodhan Stack Sampler No-1

Area Category

VSS-1 (S.No-321 DTC 01)

DETAILS OF STACK

Stack Attached to Type of fuel used

: Furnace No.1

Capacity.

: 30 TPH

Stack height above the ground: 30.0 Mtr.

: Electricity

: NA

Quantity of fuel used

level Stack dia at the top

: 1200 mm

Stack height above the roof top : NA

Attached APCS

: Bag Filter

Material of Construction Normal Oprating Schedule

: AS PER REQUIREMENT

Comminssioning date

: March 2012

PHYSICAL OBSERVATIONS

Ambient Temperature

: 30°C

Flue gas temperature

: 112°C

Velocity of the flue gases

: 8.1 mtr/sec

Sampling Flow Rate of SPM

: 26.5 LPM

FOR NEWCON CONSULTANTS & LABORATORIES

Sampling Flow Rate for Gases : 2.0 LPM

Quantity of Emission discharged: 24842.39 NmVhr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB	
† Particulate Matters (PM)		mg/Nm²	IS:11255 (Parl-1)	14	150	
2	Sulphur Dioxide (SO2)	mg/Nm²	IS:11255 (Part-2)	BDL(DL-3.4)	Not Specified	
3	Oxides of Nitrogen (NOx)	mg/Nm²	IS:11255 (Part-7)	BDL(DL-5.0)	Not Specified	
4	Carbon Monoxide (CO)	% By Vol	IS:13270	BDL(DL-0.02)	1.0	
5	Lead	mg/Nm²	NCL/STP/AAS/01	BDL(DL-0.1)	10.0	
5	Hydro Carbon (HC)	mg/Nm²	GC Method	BOL(DL-1.0)	Not Specified	

EP-032/28/09/24-1



Jitendra Sr. Analyst Signatory

Arvind Choudhary Sr. Analyst (Instrument) Authorized

Shashi Solanki

Lab Hend

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TEST REPORT

Page No.: 1 of 2

TEST REPORT No. NCL/EP-031/28/09/24

DATE OF REPORT : 03/10/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

STACK EMISSION

Analysis Start Date

: 28/08/2024

Analysis End Date

: 03/10/2024

Date of Sampling

: 27/09/2024

Sampling Done By

: NCL

Sampling Protocol

: AS PER CPCB GUIDELINES

Duration of Sampling

: 30 Minutes

Sampling Location

: Zinc F-2 Stack

Equipments Used

: Vayubodhan Stack Sampler No-1

Sample ID No.

: NCL/EP-031/28/09/24

Area Category

VSS-1 (S.No-321 DTC 01)

DETAILS OF STACK

Stack Attached to Type of fuel used

; Furnace No.2

: Electricity

Capacity

: 30 TPH

Stack height above the ground: 30.0 Mtr

Quantity of fuel used

: NA

level Stack dia at the top

Stack height above the roof top

: NA

Attached APCS

: 1200 mm : Bag Filter

Material of Construction Normal Oprating Schedule

: AS PER REQUIREMENT

Comminssioning date

: March 2012

PHYSICAL OBSERVATIONS

Ambient Temperature

: 30°C

Flue gas temperature

: 114°C

Velocity of the flue gases

8.4 mtr/sec

Sampling Flow Rate of SPM

: 27.0 LPM

Sampling Flow Rate for Gases : 2.4 LPM

Quantity of Emission discharged: 25629.34 Nm²/hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification As Per CPCB					
1	Particulate Matters (PM)	mg/Nm*	IS:11265 (Part-1)	15	150					
2	Sulphur Dioxide (SO2)	mg/Nm³	IS:11255 (Part-2)	BDL(DL-3.4)	Not Specified					
3	Oxides of Nitrogen (NOx)	mg/Nm³	IS:11255 (Part-7)	BDL(DL-5.0)	Not Specified					
4	Carbon Monoxide (CO)	% By Vol	IS:13270	BDL(DL-0.02)	1.0					
5	Lead	mg/Nm²	NCL/STP/AAS/1	BDL(DL-0.1)	10.0					
6	Hydro Carbon (HC)	mg/Nm³	GC Method	BDL(DL-1.0)	Not Specified					

EP-031/28/09/24-1



litendra Sr. Analyst

Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signator Shashi Solanki Arvind Choudhary

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

Lab Head





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TEST REPORT

TEST REPORT No. NCL/EP-029/28/09/24

Page No.: 1 of 1 DATE OF REPORT : 03/10/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

DETAILS OF STACK

Sample Name

: STACK EMISSION

Analysis Start Date Date of Sampling

28/09/2024

27/09/2024

Analysis End Date

: 03/10/2024

Sampling Protocol

Sampling Done By

: NCL

AS PER CPCB GUIDELINES

Duration of Sampling

: 30 Minutes

Sampling Location

: DG Set No.1 (7.5 MW)

Area Category

Sample ID No.

: NCL/EP-029/28/09/24

Equipments Used

: Vayubodhan Stack Sampler No-1 VSS-1 (S.No-321 DTC 01)

Stack Attached to

: DG Set No.1

Type of fuel used

: HSD

Capacity of D.G.

: 7.5 MW

Stack height above the ground : 50.0 Mtr

Quantity of fuel used

level Stack dis at the top

Stack height above the roof top

: 1600.0 lph

Attached APCS

: 1100 mm

Material of Construction

: NA : MS

D.G.set comminssioning date : March 2012

Normal Oprating Schedule

: AS PER REQUIREMENT

PHYSICAL OBSERVATIONS

Ambient Temperature

: 30°C

Flue gas temperature

: 312°C

Velocity of the flue gases

: 17.0 mtr/sec

Sampling Flow Rate of SPM

: 14.0 LPM

Sampling Flow Rate for Gases : 2.2 LPM

Quantity of Emission discharged: 28832.68 Nm³/hr

TEST RESULT

S.No.		Units	Test Method	Results	Specification (Max) As Per CPCB
1	Particulate Matters (PM) (at 15% Q2 Correction)	Mg/Nm*	IS:11255 (P-1)	47	75
2	Sulphur Dioxide (SO2)	Mg/Nm ^a	IS:11256 (P-2)	26	Not Specified
3	Oxides of Nitrogen (at 15% O2 Correction)	ppmv	IS:11255 (P-7)	203	710
4	Carbon Monoxide (CO) (at 15% O2 Correction)	Mg/Nm³	IS:13270	58	150
5	NMHC (at 15% 02 Correction)	Mg/Nm³	GC Method	27	100

End of Report

EP-029/28/09/24-1



Sr. Analyst

Utendra

ed Signatory

Arvind Choudhary Sr. Analyst (Instrument) FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signator

Shashi Solanki Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-030/28/09/24

Name and Address of Customer M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

: STACK EMISSION

Analysis Start Date Date of Sampling

Sampling Protocol

: 28/09/2024

: 27/09/2024

: AS PER CPCB GUIDELINES

Sampling Done By Duration of Sampling

Analysis End Date

: 30 Minutes Sample ID No. : NCL/EP-030/28/09/24

Sampling Location

; DG Set No.2 (7.5 MW)

Equipments Used

: Vayubodhan Stack Sampler No-1

Area Category

1.-

: NCL

VSS-1 (S.No-321 DTC 01)

DETAILS OF STACK

Stack Attached to

: DG Set No.2

Type of fuel used

: HSD

Stack height above the ground : 50.0 Mtr

Capacity of D.G. Quantity of fuel used : 7.5 MW

: 1600.0 lph

level Stack dia at the top

: 1100 mm

Stack height above the roof top

: NA

Attached APCS

Material of Construction Normal Oprating Schedule

DATE OF REPORT: 03/10/2024

: 03/10/2024

: AS PER REQUIREMENT

D.G.set comminssioning date ; March 2012

PHYSICAL OBSERVATIONS

Ambient Temperature : 30°C

Flue gas temperature

: 305°C

Velocity of the flue gases

: 16.9 mtr/sec

Sampling Flow Rate of SPM

: 14.0 LPM

Sampling Flow Rate for Gases : 2.3 LPM

Quantity of Emission discharged: 29010.20 Nm3/hr

TEST RESULT

S.No.	Test Parameters	Units	Test Method	Results	Specification (Max) As Per CPCB
1	Particulate Matters (PM) (at 15% O2 Correction)	Mg/Nm³	IS:11256 (P-1)	45	75
2	Sulphur Dioxide (SO2)	Mg/Nm*	IS:11255 (P-2)	23	Not Specified
3	Oxides of Nitrogen (at 15% O2 Correction)	ррти	IS:11255 (P-7)	195	710
4	Carbon Monoxide (CO) (at 15% O2 Correction)	Mg/Nm²	IS:13270	55	150
5	NMHC (at 15% O2 Correction)	Mg/Nm²	GC Method	26	100

End of Report

EP-030/28/09/24-1



Jitendra Sr. Analyst

zed Signatory Arvind Choudhary Sr. Analyst (Instrument) FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Stanatory Shashi Solagki

tab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-028/28/09/24

DATE OF REPORT :03/10/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

: STACK EMISSION

Analysis Start Date

28/09/2024

Analysis End Date

: 03/10/2024

Date of Sampling

: 27/09/2024

Sampling Done By

: NCL

Sampling Protocol

: AS PER CPCB GUIDELINES

Duration of Sampling

: 30 Minutes

Sampling Location

: DG Set No.3 (1250 KVA)

Sample ID No.

: NCL/EP-028/28/09/24

Equipments Used

Vayubodhan Stack Sampler No-1

VSS-1 (S.No-321 DTC 01)

Area Category

Stack Attached to Type of fuel used

: DG Set No.3

: HSD

Capacity of D.G.

DETAILS OF STACK

: 1250 KVA = 1000 KW

Stack height above the ground: 30.0 Mtr

Quantity of fuel used

: 250 Ltr/Hr

level Stack dia at the top

Stack height above the roof top : NA

: 500 mm

Attached APCS

Material of Construction Normal Oprating Schedule

: AS PER REQUIREMENT

D.G.set comminssioning date : Merch 2012

PHYSICAL OBSERVATIONS

Ambient Temperature

: 30°C

Flue gas temperature

: 284°C

Velocity of the flue gases

: 16.2 mtr/sec

Sampling Flow Rate of SPM

: 14.0 LPM

Sampling Flow Rate for Gases : 2.2 LPM

Quantity of Emission discharged: 5962.20 Nm³/hr

TEST RESULT

Test Parameters	Units	Test Method	Results	Specification (Max As Per CPCB
Particulate Matters (PM) (at 15% O2 Correction)	Mg/Nm²	IS:11255 (P-1)	42	75
Sulphur Dioxide (SO2)	Mg/Nm*	IS:11255 (P-2)	19	Not Specified
Oxides of Nitrogen (at 15% O2 Correction)	ppmv	IS:11255 (P-7)	148	710
Carbon Monoxide (CO) (at 15% O2 Correction)	Mg/Nm*	IS:13270	52	150
NMHC (at 15% O2 Correction)	Mg/Nm²	GC Method	22	100
	Particulate Matters (PM) (at 15% O2 Correction) Sulphur Dioxide (SO2) Oxides of Nitrogen (at 15% O2 Correction) Carbon Monoxide (CO) (at 15% O2 Correction)	Particulate Matters (PM) (at 15% O2 Mg/Nm³ Correction) Sulphur Dioxide (SO2) Mg/Nm³ Oxides of Nitrogen (at 15% O2 Correction) ppmv Carbon Monoxide (CO) (at 15% O2 Correction) Mg/Nm³	Particulate Matters (PM) (at 15% O2 Mg/Nm² IS:11255 (P-1) Correction) Sulphur Dioxide (SO2) Mg/Nm² IS:11255 (P-2) Oxides of Nitrogen (at 15% O2 Correction) ppmv IS:11256 (P-7) Carbon Monoxide (CO) (at 15% O2 Correction) Mg/Nm² IS:13270	Particulate Matters (PM) (at 15% O2 Mg/Nm² IS:11255 (P-1) 42 Correction) Sulphur Dioxide (SO2) Mg/Nm² IS:11255 (P-2) 19 Oxides of Nitrogen (at 15% O2 Correction) ppmv IS:11255 (P-7) 148 Carbon Monoxide (CO) (at 15% O2 Correction) Mg/Nm² IS:13270 52

End of Report

EP-028/28/09/24-1



litendra Sr. Analyst ized Signatory

Arvind Choudhary

Sr. Analyst (Instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signator

Shashi Solariki .. Lab Head

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ANNEXURE-IC)



Newcon Consultants & Laboratories



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

TEST REPORT

Page No.: 1 of 1

DATE OF REPORT :03/10/2024

TEST REPORT No. NCL/EP-010/27/09/24/A

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

: Workzone Air

Analysis Start Date

: 27/09/2024

Date of Sampling Time of Sampling : 26/09/2024

: 09:00 AM TO 05:00 PM

Sampling Location

Sampling Protocol

Ambient Temperature : 28°C

: Zinc Furnace Top Floor

: IS:5182 (P-5)

Analysis End Date

Sampling Done By

: Handy Sampler Equipments Used

- NCL/EP-010/27/09/24 Sample ID No. Sample Duration

: 8 Hrs

: NCL

Sampling Flow Rate

: 1.0 LPM

: 03/10/2024

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)		The Control of the Co		0.054	5.0
2	Sulphur Dioxide (as SO2)	mg/m²	IS:5182 (Part 2)	0.0128	5.0
3	Carbon Monoxide (as CO)	mg/m³ IS 15206 0.4	0.49	55.0	
4	Nitrogen Dioxide (as NO2)	mg/m³	IS 5182 (Part 6)	0.0205	6.0
5	Lead	mg/m*	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	0.15
6	Arsenic (as As)	mg/m*	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	0.2
17.00	PO-07/03/40/10 (1000)		- 4 4-	4	

End of Report

Remarks: BDL-Below Detection Limit.

EP-010/27/09/24-1



ditendra Sr. Analyst

Arvind Choudhary

Sr. Analyst (instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory

Shashi Solanki Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-010/27/09/24/B

DATE OF REPORT: 03/10/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263163

SAMPLING DETAIL

Sample Name

Workzone Air

Analysis Start Date

27/09/2024

Analysis End Date

: 03/10/2024

Date of Sampling

26/09/2024

Sampling Done By

: NCL : Handy Sampler

Time of Sampling

09:00 AM TO 05:00 PM

Equipments Used

Sampling Location

: Zinc Furnace Top Floor

Sample ID No.

: NCL/EP-010/27/09/24

Sampling Protocol

: IS:5182 (P-5)

Sample Duration

: 8 Hrs

Ambient Temperature

Sampling Flow Rate : 1.0 LPM

TEST RESULT

S.No.	Test Parameter	Unite	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Zinc	mg/m*	NCL/LAB/STP/A/R-9	BDL(DL-0.001)	Not Specified
2	Sb	µg/m²	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
3	Bi	µg/m²	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
4	Iron (as Fe)	µg/m²	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified

End of Report

Remarks: BDL=Below Detection Limit.

EP-010/27/09/24-1



Sr. Analyst

Arvind Choudhary

Sr. Analyst (instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory

Shashi Solanki Lab Head

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TEST REPORT

Page No.: 1 of 1

DATE OF REPORT :03/10/2024

TEST REPORT No. NCL/EP-011/27/09/24/A

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

: Workzone Air

Analysis Start Date

27/09/2024

Date of Sampling

: 26/09/2024

Time of Sampling

: 09:00 AM TO 05:00 PM

: Zinc Casting Machine Floor

Sample ID No.

Sample Duration

: NCL/EP-011/27/09/24 : 8 Hrs

: Handy Sampler

Sampling Protocol Ambient Temperature

Sampling Location

: 28°C

: IS:5182 (P-5)

Sampling Flow Rate : 1.0 LPM

Analysis End Date

Sampling Done By

Equipments Used

: 03/10/2024

: NCL

TEST RESULT

S.No.	š.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Particulate Matters (Size Less Than 10µm) (Pm10)	e Loss Then 10µm) mg/m*		0.056	5.0	
2	Sulphur Dioxide (as SO2)	mg/m³ (S:5182 (Part 2) 0.0124 mg/m³ (S:15206 0.50	0.0124	5.0		
3	Carbon Monoxide (as CO)		IS:15206	0.50	55.0	
4	Nitrogen Dioxide (as NO2)	mg/m*	15:5182 (Part 6)	0.0208	6.0	
5	Lead	mg/m³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	0.15	
6	Arsenic (as As)	mg/m³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	0.2	

End of Report

Remarks: BDL=Below Detection Limit.

EP-011/27/09/24-1



Jitendra

Sr. Analyst

ed Signatory **Arvind Choudhary**

Sr. Analyst (instrument)

FOR NEWCON CONSULTANTS & LABORATORIES

Shashi Solanki

Lab Head

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TEST REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-011/27/09/24/B

DATE OF REPORT :03/10/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Sample Name

: Workzone Air

Analysis Start Date Date of Sampling

27/09/2024

: 26/09/2024

: 09:00 AM TO 05:00 PM

Analysis End Date

: 03/10/2024

Sampling Done By

: NCL

Equipments Used

: Handy Sampler

Sampling Location

Time of Sampling

: Zinc Casting Machine Floor

Sample ID No.

: NCL/EP-011/27/09/24

Sampling Protocol

: IS:5182 (P-5)

Sample Duration

: 8 Hrs

Sampling Flow Rate : 1.0 LPM

Ambient Temperature : 28°C

TEST RESULT

S.No.	Test Parameter	Units	Test Method	Results	Specification As Per Factory Act 1948 Sch. II/OSHA
1	Zinc	mg/m²	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
2	Sb	µg/m²	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
3	Ві	µg/m³	NCULAB/STP/AIR-9	BDL(DL-0.001)	Not Specified
4	Iron (as Fe)	ug/m³	NCL/LAB/STP/AIR-9	BDL(DL-0.001)	Not Specified

End of Report

Remarks: BDL=Below Detection Limit.

EP-011/27/09/24-1



Sr. Analyst

d Signatory

Arvind Choudhary Sr. Analyst (Instrument) FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory

Shashi Solanki Lab Head

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ANNEXURE-I(d)



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TEST REPORT

Page No.: 1 of 2

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

ULR No.:TC1262124000000975F

DATE OF REPORT : 04/09/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAILS

Sample Name

: Ground Water

Analysis Start Date

: 30/08/2024

Date of Sampling

: 29/08/2024

Time of Sampling

: 03:30 PM

Sampling Done By

: NCL

Sample Description Sampling Location

: Ground Water : Borewell

Sampling Protocol

: IS:17614 (P-1)

Packing Condition

: Sealed

Analysis End Date

: 04/09/2024

Sample ID No.

NCL/EP-027/30/08/24

Sample Receipt Date

: 30/08/2024

Environmental Condition: 25±2°C

Sample Quantity

: 2+1 Ltr

Packing

: PVC CANE

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018	
					Desirable Limit	Permissible Limit
1	Colour	Hazen	IS: 3025 (P-4) Clause-4	BOL(DL-1.0)	5.0	15
2	Odour	-	AS: 3025 (P-5)	Agreeable	Agreeable	Agreeable
3	Taste	-	IS: 3025 (P-8)	Agreeable	Agreeable	Agreeable
4	Turbidity	NTU	IS: 3025 (P-10)	BDL(DL-1.0)	1.0	5
5	pH Value	-	IS: 3025 (P-11)	7,15	6.5-8.5	No Relaxation
6	Total Dissolved Solids	mg/L	IS: 3025 (P-16)	318	500	2000
7	Total Hardness (as CaCO3)	mg/L	IS: 3025 (P-21)	180	200	600
8	Calcium (as Ca)	mg/L	IS: 3025 (P-40)	48	75	200
9	Magneslum (as Mg)	mg/L	IS : 3025 (P-46) Clause-6	14.6	30	100
10	Total Alkalinity (as CaCO3)	mg/L	IS: 3025 (P-23)	172	200	600
11	Sodium	mg/L	APHA 3500Na (B)	BDL(DL-10.0)	Not Specified	Not Specified
12	Potassium	mg/L	APHA 3500 K (B)	BDL(DL-1.0)	Not Specified	Not Specified
13	Chloride (as Cl)	mg/L.	IS: 3025 (P-32) Clause-2	14	250	1000
14	Nitrate (as NO3)	mg/L	IS: 3025 (P-34) Clause 3.3	BDL(DL-0.2)	45	No Relaxation
15	Nitrite (es NO2)	mg/L	IS: 3025 (P-34) Clause 4	BDL(DL-0.5)	Not Specified	Not Specified

EP-027/30/08/24-1



Drue Checked by

Sonu Gupta Sr. Analyst

orized Signatory Bhavna Sharma

HOD (Microbiologist)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Sig Shakla Solanki

Lab Agarl

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Page No.: 2 of 2

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

ULR No.:TC1262124000000975F

DATE OF REPORT: 04/09/2024

S.No.	Parameters	Unit	Test Method	Result	Specification /Limit As Per IS:10500, Amd. 2018		
					Desirable Limit	Permissible Limit	
16	Sulphate (as SO4)	mg/L	IS: 3025 (P-24) Sec-1 Clause-5	BDL(DL-2.0)	200	400	
17	Fluoride (as F)	mg/L	APHA 4500-F-D	BDL(DL-0.1)	1.0	1.5	
18	Chloramines (as Cl2)	mg/L	IS: 3025 (P-26) Clause-7	BDL(DL-0.1)	4.0	No Relaxation	
19	Phenolic Compound (as C6H5OH)	mg/L	IS: 3025 (P-43) Sec-1 Clause-4	BDL(DL-0.0005)	0.001	0.002	
20	Anionic Surfactant (as MBAS)	mg/L	IS: 3025 (P-65)	BDL(DL-0.1)	0.2	1.0	
21	Iron (as Fe)	mg/L	IS: 3025 (P-65)	BDL(DL-0.01)	1.0	No Relaxation	
22	Zinc (as Zn)	mg/L	IS: 3025 (P-65)	BDL(DL-0.001)	6.0	15.0	
23	Manganese (as Mn)	mg/L	IS: 3025 (P-65)	BDL(DL-0.01)	0.1	0.3	
24	Lead (as Pb)	mg/L	IS: 3025 (P-85)	BDL(DL-0.005)	0.01	No Relaxation	
25	Copper (as Cu)	mg/L	IS: 3025 (P-85)	BDL(DL-0.01)	0.05	1.5	
26	E.Coll	cfu/100ml	IS: 1622	Absent	Not Specified	Not Specified	
27	Total Coliform	cfu/100ml	IS: 1622	Absent	Not Specified	Not Specified	

End of Report

Remarks: BDL=Below Detection Limit.

EP-027/30/08/24-2



Checked by Sonu Gupta Sr. Analyst

Bhavna Sharma HOD (Microbiologist) FOR NEWCON CONFULTANTS & LABORATORIES

Authorized SI Shashi Solunki Lab Head

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TEST REPORT

Page No.: 1 of 1

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

M/S HINDUSTAN ZINC LIMITED

DATE OF REPORT : 04/09/2024

Name and Address of Customer

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAILS

Sample Name

: Ground Water

Analysis Start Date Date of Sampling

: 30/08/2024

: 29/08/2024

Time of Sampling

: 03:30 PM

Sampling Done By

: NCL

Sample Description Sampling Location

: Ground Water : Borewell

Sampling Protocol

: IS:17614 (P-1)

: Sealed

Packing Condition

Sample Quantity

Analysis End Date

Sample Receipt Date : 30/08/2024

Environmental Condition: 25±2°C

Sample ID No.

: 2+1 Ltr

: 04/09/2024

. NCL/EP-027/30/08/24

Packing

: PVC CANE

TEST RESULT

S.No.	Parameters	Unit	Test Method	Result	- 7 50 D/ 500 E700 C	/Limit As Per Amd. 2018
					Desirable Limit	Permissible Limit
1	Cyanide (as CN)	mg/L	IS: 3025 (P-27) Sec-1 Clause-4	BDL(DL-0.02)	0.05	No Relaxation
2	Ammonia (as total Ammonia)	mg/L	15 : 3025 (P-34) Clause 2.4	BDL(DL-0.2)	0.5	No Relaxation
3	Selenium (as Se)	mg/L	IS: 3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
4	Arsenic (as As)	mg/L	IS: 3025 (P-65)	BDL(DL-0.001)	0.01	No Relaxation
5	Cadmium (as Cd)	mg/L	IS: 3025 (P-65)	BDL(DL-0.001)	0.003	No Relaxation

End of Report

Remarks: BDL=Below Detection Limit.

EP-027/30/08/24-1



Checked by Sonu Gupta

Sr. Analyst

HOD (Microbiologist)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signal

Shashi Solanki

Lab Head

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TEST REPORT

Page No.: 1 of 1

DATE OF REPORT :05/10/2024

TEST REPORT No. NCL/EP-003/30/09/24

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAILS

Sample Name

: WASTE WATER

Analysis Start Date Date of Sampling

30/09/2024

: 28/09/2024

Time of Sampling Sampling Done By

: 02:30 PM

: NCL

Sample Description

: SEWAGE WATER AFTER TREATMENT : STP OUTLET (FINAL EXIT POINT)

Sampling Protocol

Sampling Location

: IS:17614 (P-1)

Sample Quantity

Analysis End Date

Sample Receipt Date

Environmental Condition: 25±2°C

Sample ID No.

: 21 fr

Packing Condition

: Sealed

Packing

: PVC CANE

: 05/10/2024

: 30/09/2024

NCL/EP-003/30/09/24

TEST RESULT

S.No.	Parameter	Units	Test Method	Results	Specification/limits
200),	011110	Toda Medica	Nosuits	as per CPCB
1	pH		IS: 3025 (P-11)	7.35	6,5-9.0
2	Total Suspended Solids (TSS)	mg/L	IS: 3025 (P-17)	BDL(DL-5.0)	100
3	Bio Chemical Oxygen Demand (3 days at 27°C)	mg/L	IS:3025 (P-44)	5	30.0
4	Chemical Oxygen Demand (COD)	mg/L	APHA-5220 (B)	20	Not Specified
5	Oli & Grease	mg/L	IS: 3025 (P-39)	BDL(DL-1.0)	Not Specified
6	Feacal Coliform	MPN/100ml	APHA 23rd -9221	170	1000
7	Total Nitrogen	mg/L:	APHA 4500-Norg (B)	BDL(DL-0.1)	Not Specified
8	Total Phosphorous(P)	mg/L	4500-D, P-APHA, 23rd ED.	BDL(DL-0.05)	Not Specified
9	Ammonical Nitrogen (as N)	mg/L	APHA 4500 (B,C)	BDL(DL-1.0)	Not Specified

End of Report

Remarks: BDL=Below Detection Umit.

003/30/09/24-1



Sonu Gupta

Sr. Analyst

HOD (Microbiologist)

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signato

Shashi Solanki Lab Head

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AMBIENT NOISE REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-034/28/09/24

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

na contract Ento Emilies

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Analysis Start Date

28/09/2024

Analysis End Date

: 28/09/2024

Date of Monitoring

27/09/2024

Monitoring Done By

: NCL

Monitoring Duration

24 hrs.

Place of Monitoring

: NEAR MAIN GATE

DATE OF REPORT :03/10/2024

Time of Monitoring

; 12:30 PM (27/09) TO 12:30 PM (28/09)

Protocol

: CPCB method -

Category of Area

: Industrial Area

-1010001

PCLS/06/2000-01

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A)	65.2	69.8	68.6	69.1	67.4	65.7	66.5	67.2	68.7	69.4
Night Time Reading (dB(A)	52.2	52.6	55.7	55.3	54.2	53.8	54.9	55.3	57.1	56.8

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
Day 1	Time Noise Level		
1	Average Noise Level	67.8	
2	L Max	69.8	
3	L Min	65.2	
4	Day Leq	68.0	75.0 Max
Nigh	t Time Noise Level		•
5	Average Noise Level	54.8	
6	L Max	57.1	
7	L Min	52.2	
8	Night Leq	56.0	70.0 Max

End of Report

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

>Night time reckaned between 10:00PM To 06:00AM.

EP-034/28/09/24-1

Tilu Chicked by

Jitendra Sr. Analyst FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory

Shaski Solanki Lab Head

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AMBIENT NOISE REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-035/28/09/24 DATE OF REPORT: 03/10/2024 Name and Address of Customer M/S HINDUSTAN ZINC LIMITED Pantnagar Metal Plant, Pantnagar-263163

SAMPLING DETAIL

Analysis Start Date

28/09/2024

Analysis End Date

: 28/09/2024

Date of Monitoring

27/09/2024

Monitoring Done By

: NCL

Monitoring Duration

24 hrs.

Place of Monitoring

: East Side Of Canteen in New

: 12:50 PM (27/09) TO 12:50 PM (28/09)

Plot CPCB method -

Time of Monitoring Category of Area

: Industrial Area

Protocol

PCLS/06/2000-01

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A)	63.2	63.7	64.5	65.8	65.3	66.1	66,7	67.2	85.3	64.2
Night Time Reading (dB(A)	47.7	49.8	48.5	47.3	46.2	49.5	51.2	50.8	52.3	51.7

TEST RESULT

Test Parameter	Results	Specification As Per CPCB
Time Noise Level		
Average Noise Level	65.2	4
L Max	67.2	114
L Min	63.2	34
Day Leq	65.4	75.0 Max
t Time Noise Level		
Average Noise Level	49.5	Y State
L Max	52.3	
L Min	46.2	
Night Leq	49.7	70.0 Max
	Time Noise Level Average Noise Level L Max L Min Day Leq t Time Noise Level Average Noise Level L Max L Min	Average Noise Level

End of Report

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

>Night time reckoned between 10:00PM To 05:00AM.

EP-035/28/09/24-1



Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Signatory

Shashi Solanki Lab Head

1. The test report refers only to the particular sample/s submitted for testing and listed parameters

2. Endorsement of the same is neither inferred nor implied

Laboratory shall maintain the confidentiality of all information related to the samples & test reports.
 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 Ghazlabad 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





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

AMBIENT NOISE REPORT

Page No.: 1 of 1

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

SAMPLING DETAIL

Analysis Start Date

27/09/2024

Analysis End Date

: 27/09/2024

Date of Monitoring

26/09/2024

Monitoring Done By

: NCL

Monitoring Duration

24 hrs.

Place of Monitoring

: Near Compressor Area

Time of Monitoring

: 02:00 PM (26/09) TO 02:00 PM (27/09)

Protocol

· CPCB method -PCLS/06/2000-01

Category of Area

: Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A)	63.8	64.2	65.6	66.3	67.8	69.2	68.7	68.2	66.9	65.2
Night Time Reading (dB(A)	51.2	53.5	54.2	59.1	56.5	55.4	58.1	54.7	55.8	56.7

TEST RESULT

Test Parameter	Results	Specification As Per CPCB
lime Noise Level	W	
Average Noise Lével	66.6	
L Max	69.2	*
L Min	53.8	
Day Leq	66.8	75.0 Max
Time Noise Level		
Average Noise Level	55.8	50
L Max	59.1	*
L Min.	51.2	
Night Lea	55.7	70.0 Max
	Fime Noise Level Average Noise Level L Max L Min Day Leq Time Noise Level Average Noise Level L Max L Min	Fime Noise Level 68.6 L Max 69.2 L Min 53.8 Day Leq 96.8 t Time Noise Level 55.8 Average Noise Level 55.8 L Max 59.1 L Min 51.2

End of Report

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

>Night time recknned between 10:00PM To 06:00AM.

EP-012/27/09/24-1

litendra

Sr. Analyst

FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Sigi Shashi Solanki

Lab Head

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AMBIENT NOISE REPORT

Page No.: 1 of 1

TEST REPORT No. NCL/EP-013/27/09/24

DATE OF REPORT :03/10/2024

Name and Address of Customer

M/S HINDUSTAN ZINC LIMITED

Pantnagar Metal Plant, Pantnagar-263153

SAMPLING DETAIL

Analysis Start Date

27/09/2024

Analysis End Date

: 27/09/2024

Date of Monitoring

: 26/09/2024

Monitoring Done By

: NCL

Monitoring Duration

24 hrs.

Place of Monitoring

: BACK SIDE OF DG AREA

Time of Monitoring

: 02:30 PM (26/09) TO 02:30 PM (27/09)

Protocol

: CPCB method -PCLS/06/2000-01

Category of Area

: Industrial Area

OBSERVATIONS

Observation No.	1	2	3	4	5	6	7	8	9	10
Day Time Reading (dB(A)	64.6	66.8	67.2	65.5	66.3	58.8	67.7	69.5	70.2	68.4
Night Time Reading (dB(A)	50.1	51.8	51.4	50.6	52.3	53.9	53.5	52.8	54.6	55.8

TEST RESULT

S.No.	Test Parameter	Results	Specification As Per CPCB
Day '	Time Noise Level		
1	Average Noise Level	67.5	
2	L Max	70.2	18
3	L Min	84.6	
4	Day Leq	67.7	75.0 Max
Nigh	t Time Noise Level		
5	Average Noise Lével	52.7	
6	L Max	55.8	
7	L Min	50.1	
8	Night Leq	52.9	70.0 Max

End of Report

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

>Night time reckaned between 10:00PM To 05:00AM.

EP-013/27/09/24-1



litendra

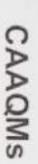
Sr. Analyst The test report refers only to the particular sample/s submitted for testing and listed parameters.

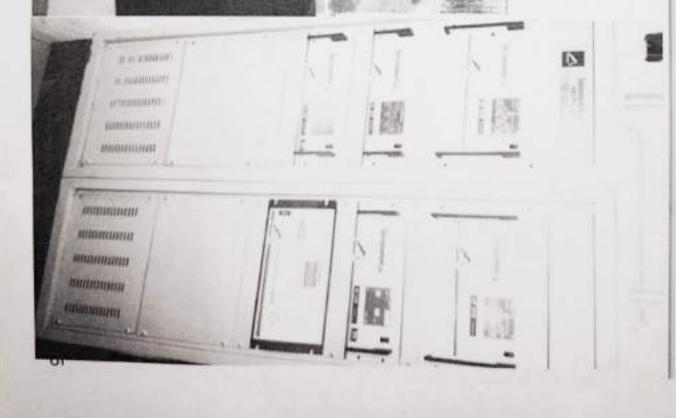
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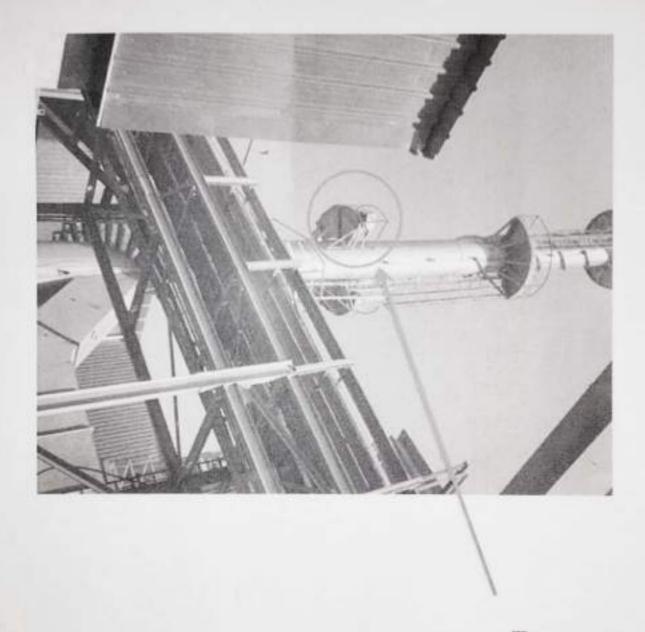
FOR NEWCON CONSULTANTS & LABORATORIES

Authorized Sign Shashi Solanki Lab Head









PM analyzer

Hygiene ventilation system

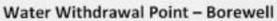


Bag filter arrangement for hygiene ventilation

ANNEXURE -3

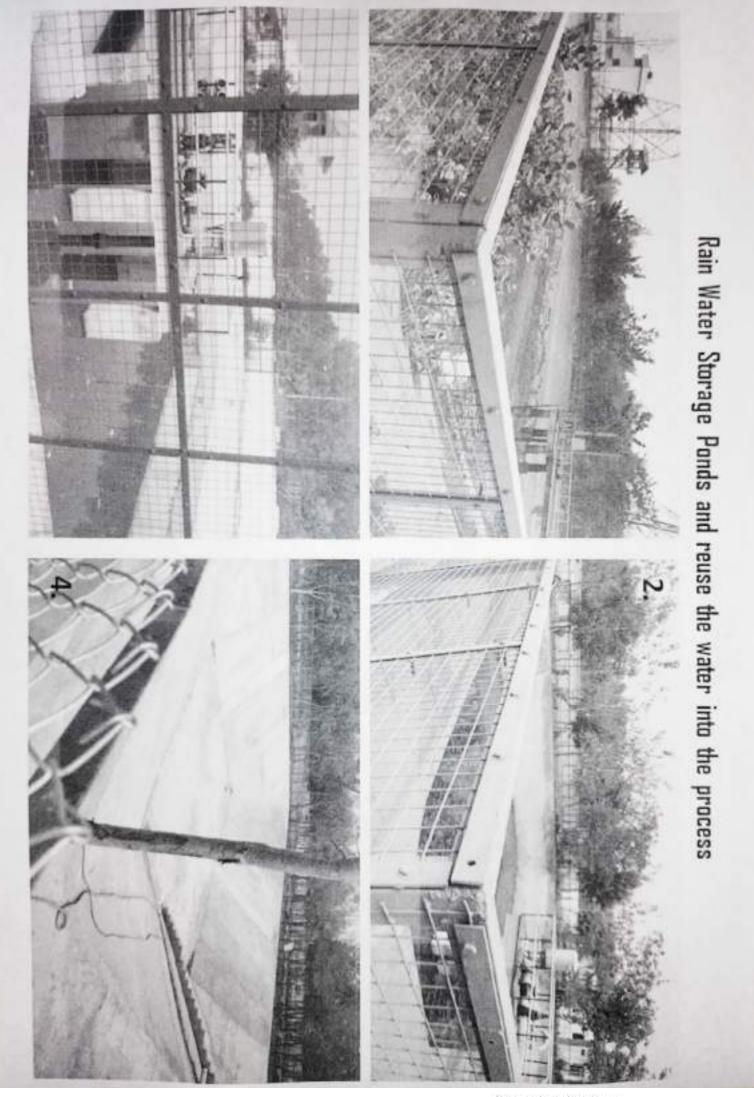
Gr	ound Water Withdraw	ral FY 2024-2	5, H1
Month	Ground Water Withdrawal	иом	Rain water utilization
Apr-24	4,794	Cu.m	538
May-24	5,887	Cu.m	280
Jun-24	5,304	Cu.m	0
Jul-24	4,480	Cu.m	1,647
Aug-24	4,052	Cu.m	2,273
Sep-24	3,814	Cu.m	1,865
		Cu.m	
Total	28,331	Cu.m	6,603

· All reading recorded in cubic meter.





Security Oriental City



Scanned with CamScanner

Flag Ship Projects: Continuing in FY 24-25 H1

- Sakhi Project Strengthening Women Empowerment.
- ME Providing Micro Enterprises support to SHG women for their sustainability

Scanned with CamScanner

- Zinc Kaushal Providing skilling training to rural youth through Tata Motors Tata Strive Project.
- Health Project Mobile Health project started by covering 100 patients per day from 25 villages per month.

Other Activities:

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

Other Activities:

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



Special Camp;

Topic – Mensuration Hygiene Conducted on – 24/05/2024 No of attendees -550 (Govt. Inter College- Jainagar, Pantnagar, Fajalpur)



Special Camp;

Topic – Breast Feeding Awareness Session Conducted on – 05/08/2024

Charles Appeal

No of attendees -20



Special Camp;

Topic – Eye Vision camp for nearby community
Conducted On – 27/07/2024
No of attendees – 115



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













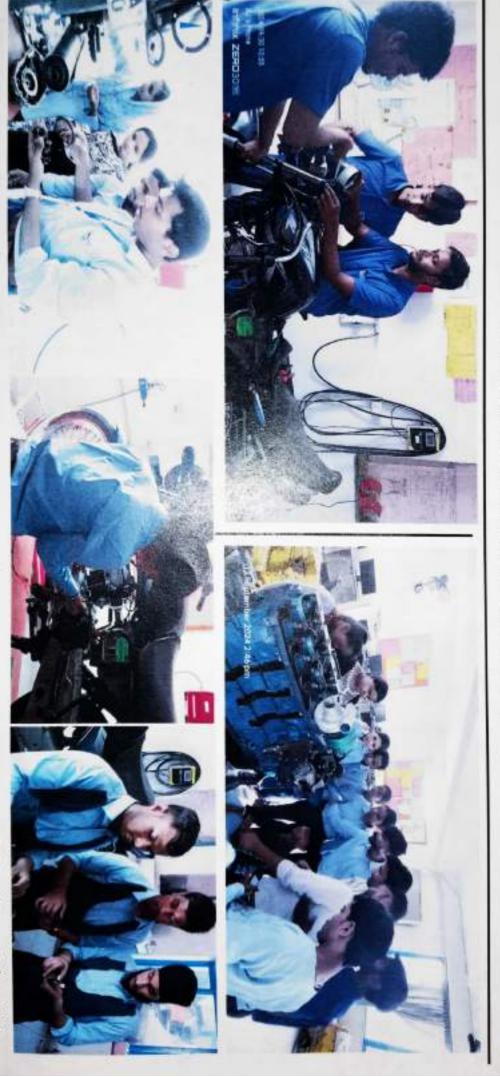
Yoga Day Celebration World Y

Environment Day Celebration

World Youth Skills Day Celebration



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



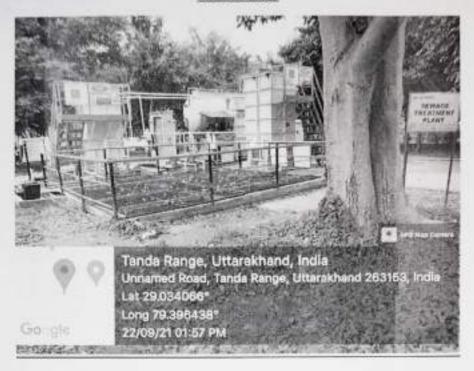
technicians, Automotive Services in two, three & four wheelers for Youth from nearby community. Youth Skill Development Program- Imparting Skill training practical program with TATA STRIVE in field of Auto Sales, Auto





village this camp will be held. daily basis. Providing free doctor consultation, free medicine distribution etc. being done through this project. Daily in one Health Camp for nearby Community- Under Health, Water & Sanitation, Running mobile health clinic van in 25 villages on ANNEXURE-5

STP PLANT



ETP PLANT



Page 1 of 2

S. No.	Name of the waste	Photographs
1.	Zinc Dross Storage Yard	CLANDON WOTH CANADAN CONTRACT OF THE CONTRACT
2.	Lead Dross Storage Yard	LEAR BOOTSTONE TON GOVERNMENT VALUE AND THE
3.	Used Oil Storage Yard	MASTE WESTEN STON AGE FOR MASTE WESTEN MALOUS WASTE WARREN I STONIC MARKE WITH CAKE WITH ON WITH CAKE

