



Date: 25/11/2023

Vide Letter No.: HZLP/M&C/23-24/H-I

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 **April-2023 to Sept-2023**.

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, IIĒ, SIDCUL, Pantnagar, Dist. U.S. Nagar for the period of April-2023 to September-2023.

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

Thanking you.
Yours faithfully,

(Deepkumar Agarway 110 SBU Director Plot No. 283, 263153, Uta

Pantnagar Zinc-Lead melting & casting Plant

Hindustan Zinc Limited

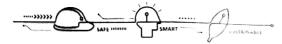
CC:

1. Regional Officer, CPCB, Lucknow

2. MS office, UEPPCB, Dehradun

3. Regional Officer, UEPPCB, Kashipur

4. Office copy, HZL



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

Compliance Report of Environment Clearance (April-2023 to September-2023)

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: April-2023 to September-2023

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 level is 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.	,				
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 Lead M&C process and silver process is limited to				

Page 1 of 6

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

5	Regular monitoring of influent and effluent surface, subsurface 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	process. However, Effluent treatment plant of 87 KLD 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 waste water 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. Being Complied. No effluent being generated from the process. Ground water being used for plant process and regular bore well monitoring being ensured. Zero Discharge is being maintained and no effluent discharged to surface water body.
	Regional Office at Lucknow, SPCB and CPCB.	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 rain water 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 rain water harvesting pond for rain water collection having capacity approx. 2542, 1500, 841 and 750 cu.m and collected rainwater is being utilized into the process. In FY 2023-24, H1 we have reused around 11,799 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.
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 plantation being carried out for maintaining the survival rate of Plantation.

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

9	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 being carried out for upliftment of nearby communities. CSR projects details is attached herewith as Annexure 4.
10	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 in the plant premises. No housing facility provided in plant premises.
В	General Conditions	
1	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.
2	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.
3	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 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 level is 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.
4	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st December, 1993 or	Being Complied. The domestic effluent is being treated in the STP to ensure stipulated quality and used for plantation. Photograph of STP is attached

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

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	as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	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 rain water harvesting pond for rain water collection having capacity approx. 2542, 1500, 841 and 750 cu.m and collected rainwater is being utilized into the process. In FY 2023-24, H1 we have reused around 11,799 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 ENA/EMP report being implemented, Socio-Economic development activities are being implemented as per action plan. Many CSR development activities 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, from whom suggestions / representations, if any, were received while processing the proposal. The clearance	Complied. The copy of the clearance letter submitted to the Panchayat/ Zila Panchayat, Municipal Corporation and Urban Local Body (SIDCUL).



	letter shall also be put on the web site of the company	EC letter is also available on company website.
	by the proponent.	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 company website. Link of website uploading EC compliance of October'22 to March'23 is https://www.hzlindia.com/wp-content/uploads/EC-Compliance-Report-Zinc-Lead-MC-Plant-H2-2022-23.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'22 to March'23 is https://www.hzlindia.com/wp-content/uploads/EC-Compliance-Report-Zinc-Lead-MC-Plant-H2-2022-23.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/2020-21/01 dated

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

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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 Dainik Jagaran and Amar Ujala. Copies have been submitted to Regional office at Lucknow along with reply of letter No. IV/ENV/Utr/Ind-34/110/2011/156 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.



Contact: +91 - 9810243870

Issue Date: 07/10/2023



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TEST REPORT

Ambient Air Quality Monitoring

Test Report No.: EKO/E-542/031023

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description

: Ambient Air

Sample Drawn on Sample Drawn by

: 28/09/2023 To 29/09/2023 : EPEPL (Mr. Chandan Sharma)

Sample Received on

: 03/10/2023

Sampling Location

: Near Main Gate/Security

Sampling Time

: 24.0 Hrs.

Sampling Plan & Procedure

: SOP-AAQ/15

Analysis Duration

: 03/10/2023 To 07/10/2023

Ambient Temperature (°C) Average Flow Rate of SPM (m³/min.) : 36.0 : 1.1

Average Flow Rate of Gases (lpm)

: 1.0 : Clear

Weather Conditions Remark (if any)

NA

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RESULTS						
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009	
1	Particulate Matter (PM10)	IS: 5182 (P-23)	89.3	μg/m³	100.0	
2	Particulate Matter (PM2.5)	∜S: 5182 (P-24)	56.4	µg/m³	60.0	
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	14.7	µg/m³	80.0	
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	30.2	µg/m³	80.0	
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.18	mg/m³	4.0	
6	Lead (as Pb)	IS 5182 (P-22)	<0.1	µg/m³	1.0	
7	Nickel (as Ni)	IS: 5182 (P-26)	<15.0	ng/m³	20.0	
8	Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m³	6.0	
9	Ozone (as O ₃)	IS: 5182 (P-9)	<10.0	μg/m³	180.0	
10	Ammonia (as NH ₃)	IS: 5182 (P-25)	<20.0	μg/m³	400.0	
11	Benzene (as C ₆ H ₆)	IS: 5182 (P-11)	<1.0	µg/m³	5.0	
12	Benzo(alpha) Pyrine-Particulate Phase Only	IS 5182 (P-12)	<1.0	ng/m³	1.0	

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.

The test report will not be used for any publicity

4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of Issue of test report.

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

** End of Report **

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TEST REPORT

Ambient Air Quality Monitoring

Test Report No.: EKO/E-540/031023

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on

Sampling Location

Sampling Time

Sampling Plan & Procedure

Analysis Duration

Ambient Temperature (°C)

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

Weather Conditions Remark (if any)

Ambient Air

27/09/2023 To 28/09/2023

: EPEPL (Mr. Chandan Sharma) : 03/10/2023

: Back Side of DG Area

: 24.0 Hrs. : SOP-AAQ/15

03/10/2023 To 07/10/2023

: 32.0 1.1

1.0 Clear

NA

RESULTS

RESULIS					
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009
1	Particulate Matter (PM10)	IS: 5182 (P-23)	78.3	μg/m³	100.0
2	Particulate Matter (PM2.5)	IS: 5182 (P-24)	50.3	µg/m³	60.0
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	12.9	µg/m³	80.0
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	28.5	μg/m³	80.0
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.22	mg/m³	4.0
6	Lead (as Pb)	IS 5182 (P-22)	<0.1	μg/m³	1.0
7	Nickel (as Ni)	IS: 5182 (P-26)	<15.0	ng/m³	20.0
8	Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m³	6.0
9	Ozone (as O ₃)	IS: 5182 (P-9)	<10.0	µg/m³	180.0
10	Ammonia (as NH₃)	IS: 5182 (P-25)	<20.0	µg/m³	400.0
11	Benzene (as C ₆ H ₆)	IS: 5182 (P-11)	<1.0	µg/m³	5.0
72	Benzo(alpha) Pyrine-Particulate Phase Only	IS 5182 (P-12)	<1.0	ng/m³	1.0

Notes :

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.

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

4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.

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

** End of Report **

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TEST REPORT

Ambient Air Quality Monitoring

Test Report No. : EKO/E-541/031023

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description

Sample Drawn on Sample Drawn by Sample Received on : Ambient Air

: 27/09/2023 To 28/09/2023: EPEPL (Mr. Chandan Sharma)

: 03/10/2023

Sampling Location : SE Corner of Lead Plant

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

Analysis Duration : 03/10/2023 To 07/10/2023

Ambient Temperature (°C) : 32.0

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

Average Flow Rate of Gases (Ipm) : 1.0

Weather Conditions : Clear

Remark (if any) : NA

RESULTS

REGETO						
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009	
1	Particulate Matter (PM10)	IS: 5182 (P-23)	78.3	, μg/m³	100.0	
2	Particulate Matter (PM2.5)	IS: 5182 (P-24)	54.6	µg/m³	60.0	
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	13.6	µg/m³	80.0	
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	28.9	µg/m³	80.0	
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.14	mg/m³	4.0	
6	Lead (as Pb)	IS 5182 (P-22)	<0.1	µg/m³	1.0	
7	Nickel (as Ni)	IS: 5182 (P-26)	<15.0	ng/m³	20.0	
8 .	Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m³	6.0	
9	Ozone (as O ₃)	IS: 5182 (P-9)	<10.0	μg/m³	180.0	
10	Ammonia (as NH ₃)	IS: 5182 (P-25)	<20.0	μg/m³	400.0	
11	Benzene (as C ₆ H ₆)	IS: 5182 (P-11)	<1.0	μg/m³	5.0	
	Benzo(alpha) Pyrine-Particulate Phase Only	IS 5182 (P-12)	<1.0	ng/m³	1.0	

Notes

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
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** End of Report **

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TEST REPORT

Ambient Air Quality Monitoring

Test Report No.: EKO/E-543/031023

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description

Ambient Air

Sample Drawn on Sample Drawn by

: 28/09/2023 To 29/09/2023: EPEPL (Mr. Chandan Sharma)

Sample Received on

: 03/10/2023

Sampling Location

: Canteen East Side In New Plant

Sampling Time Sampling Plan & Procedure

24.0 Hrs.

Analysis Duration

: SOP-AAQ/15 : 03/10/2023 To 07/10/2023

Ambient Temperature (°C)

32.0

Average Flow Rate of SPM (m³/min.) Average Flow Rate of Gases (lpm) : 1.1 : 1.0

Weather Conditions Remark (if any)

: Clear

NA

RESULTS

RESULIS						
S. No.	Parameters	Test Methods	Results	Units	Limits as per CPCB Notification, 18th Nov 2009	
1	Particulate Matter (PM10)	IS: 5182 (P-23)	79.6	µg/m³	100.0	
2	Particulate Matter (PM2.5)	IS: 5182 (P-24)	50.4	µg/m³	60.0	
3	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	12.9	μg/m³	80.0	
4	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P-6)	33.6	μg/m ³	80.0	
5	Carbon Monoxide (as CO)	IS: 5182 (P-10)	1.21	mg/m³	4.0	
6	Lead (as Pb)	IS 5182 (P-22)	<0.1	μg/m³	1.0	
7	Nickel (as Ni)	IS: 5182 (P-26)	<15.0	ng/m³	20.0	
8	Arsenic (as As)	EK0/CHEM/SOP/AAQ-02	<5.0	ng/m³	6.0	
9	Ozone (as O ₃)	IS: 5182 (P-9)	<10.0	µg/m³	180.0	
10	Ammonia (as NH ₃)	IS: 5182 (P-25)	<20.0	µg/m³	400.0	
11	Benzene (as C ₆ H ₆)	IS: 5182 (P-11)	<1.0	μg/m ³	5.0	
12	Benzo(alpha) Pyrine-Particulate Phase Only	IS 5182 (P-12)	<1.0 -	ng/m³	1.0	

Notes:

- The results given above are related to the tested sample, for various parameters, as observed at the time of at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.

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

4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.

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

** End of Report **

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* PURMIMA: GHANIMA:

* TECHNICAL MANAGER (

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Contact r91

Issue Date: 07/10/2023



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TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-547/031023-A

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on Time of Sampling (minutes)

Sampling Location

Sampling Plan & Procedure

Analysis Duration Source of Emission

Capacity Operating Load

Normal Operation Schedule Type of Stack

Diameter of Stack (meter)

Height of Stack from Ground Level (meter) Height of Stack from Roof Level (meter)

Height of Sampling Location (meter)

Type of Fuel Used Fuel Consumed per hour

Ambient Temperature (°C) Stack Temperature (°C) Average Velocity of Flue Emission (m/sec)

Average Flow Rate (Ipm) Control Measures (if any)

Rudrapur - Uttrakhand

Stack Emission

28/09/2023

EPEPL (Mr. Chandan Sharma)

03/10/2023 30.0

NA

SOP-SE/09 03/10/2023 To 07/10/2023

Stack Attached To Furnace No. 1

30.0 TPH : Normal

As per requirement Metal/Circular

1.2 at top : 30.0

: NA

: 19.8 From Ground Level

Electricity

: 32.0 : 126.0

: 7.3 : 19.6 Nil

Remark (if any) Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per EPA-1986 Schedule -VI Part-D
1	Particulate Matter (as PM)	IS: 11255 (P-1)	30.2	mg/Nm ³	150.0
2	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	10.50	mg/Nm ³	Not Specified
3	Oxide of Nitrogen (as NOx)	IS: 11255 (P-7)	43.6	mg/Nm ³	Not Specified
4	Carbon Monoxide (as CO)	IS: 13270	<0.2	% V/V	1.0
5 Notes:	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm ³	10.0

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.

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

4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer.

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

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TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-547/031023-B

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on

Time of Sampling (minutes)

Sampling Location

Sampling Plan & Procedure

Analysis Duration Source of Emission

Capacity

Operating Load

Normal Operation Schedule

Type of Stack

Diameter of Stack (meter)

Height of Stack from Ground Level (meter) Height of Stack from Roof Level (meter)

Height of Sampling Location (meter)

Type of Fuel Used

Fuel Consumed per hour Ambient Temperature (°C)

Stack Temperature (°C) Average Velocity of Flue Emission (m/sec)

Average Flow Rate (Ipm)

Control Measures (if any)

: Stack Emission

28/09/2023

EPEPL (Mr. Chandan Sharma)

03/10/2023

: 30.0 : NA

SOP-SE/09

: 03/10/2023 To 07/10/2023

: Stack Attached To Furnace No. 1

: 30.0 TPH

: Normat

: As per requirement

Metal/Circular 1.2 at top

30.0

: NA 19.8 From Ground Level

Electricity

32.0 126.0

7.3 19.6

Nil :

Remark (if any) Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per EPA-1986 Schedule -VI Part-D
1	Total Hydrocarbon (as HC)	IS: 5182 (P-17)	ND	mg/Nm ³	Not Specified
2	Total VOC	IS: 5182 (P-11)	ND	mg/Nm ³	Not Specified

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.

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

4. The test samples will be disposed off after 15 days from the date of Issue of test report, unless until specified by the customer.

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

** End of Report **

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TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-548/031023-A

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description Sample Drawn on

Stack Emission 28/09/2023

Sample Drawn by

EPEPL (Mr. Chandan Sharma)

Sample Received on Time of Sampling (minutes) 03/10/2023

Sampling Location

30.0 NA

Sampling Plan & Procedure

SOP-SE/09

Analysis Duration

03/10/2023 To 07/10/2023

Source of Emission

Stack Attached To Furnace No. 2

Capacity

30.0 TPH

Operating Load Normal Operation Schedule Normal As per requirement

Type of Stack

Metal/Circular

Diameter of Stack (meter)

1.2 at top

30.0

Height of Stack from Ground Level (meter)

NA

Height of Stack from Roof Level (meter) Height of Sampling Location (meter)

Type of Fuel Used

19.8 From Ground Level

Electricity

Fuel Consumed per hour

32.0

Ambient Temperature (°C) Stack Temperature (°C)

122.0

Average Velocity of Flue Emission (m/sec)

7.5

Average Flow Rate (lpm)

18.9

Control Measures (if any)

Nil

Remark (if any)

Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per EPA-1986 Schedule -VI Part-D
1	Particulate Matter (as PM)	IS: 11255 (P-1)	29.8	mg/Nm³	150.0
2	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	10.22	mg/Nm ³	Not Specified
3	Oxide of Nitrogen (as NOx)	IS: 11255 (P-7)	45.6	mg/Nm ³	Not Specified
4	Carbon Monoxide (as CO)	IS: 13270	<0.2	% V/V	1.0
5	Lead (as Pb)	USEPA (P-12)	<1.0	mg/Nm ³	10.0

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.

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

4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer

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

** End of Report **

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TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-548/031023-B

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2, Sec - 14 I/E, Sidcul Pantnagar, Rudrapur - Uttrakhand

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on

Time of Sampling (minutes) Sampling Location

Sampling Plan & Procedure

Analysis Duration Source of Emission

Capacity

Operating Load Normal Operation Schedule

Type of Stack

Diameter of Stack (meter)

Height of Stack from Ground Level (meter) Height of Stack from Roof Level (meter)

Height of Sampling Location (meter)

Type of Fuel Used

Fuel Consumed per hour Ambient Temperature (°C)

Stack Temperature (°C)

Average Velocity of Flue Emission (m/sec) Average Flow Rate (lpm) Control Measures (if any)

Remark (if any)

Stack Emission

28/09/2023

EPEPL (Mr. Chandan Sharma)

03/10/2023

30.0

NA

SOP-SE/09

03/10/2023 To 07/10/2023 Stack Attached To Furnace No. 2

30.0 TPH

Normal

As per requirement

Metal/Circular

1.2 at top

30.0

: NA

19.8 From Ground Level

Electricity

32.0 122.0

7.5

18.9

Nil

Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S. No.	Parameters	Test Methods Results U		Units	Limits as per EPA-1986 Schedule -VI Part-D
1	Total Hydrocarbon (as HC)	IS: 5182 (P-17)	ND	mg/Nm³	Not Specified
2	Total VOC	IS: 5182 (P-11)	ND	mg/Nm ³	Not Specified

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.

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TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-551/031023-A

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description

Sample Drawn on

Sample Drawn by

Sample Received on

Time of Sampling (minutes)

Sampling Location

Sampling Plan & Procedure

Analysis Duration

Source of Emission Capacity

Operating Load

Normal Operation Schedule

Type of Stack

Diameter of Stack (meter)

Height of Stack from Ground Level (meter) Height of Stack from Roof Level (meter)

Height of Sampling Location (meter)

Type of Fuel Used Fuel Consumed per hour

Ambient Temperature (°C) Stack Temperature (°C)

Average Velocity of Flue Emission (m/sec)

Average Flow Rate (Ipm) Control Measures (if any)

Remark (if any)

Stack Emission

28/09/2023

: EPEPL (Mr. Chandan Sharma)

: 03/10/2023 : 30.0

: NA

: SOP-SE/09

· 03/10/2023 To 07/10/2023 : Stack Attached To DG Set No. 1

: 7.5 MW

: Normal

: As per requirement

: Metal/Circular

: 1.1 : 50.0

: NA 24.0 From Ground Level

: HSD 1600.0 lph

32.0

258.0 13.4

17.9 Nil

Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S.No.	Parameters	Test Methods	Results	Units	Limits as per EPA-1986, (SL-96 Schedule-I)
	Particulate Matter (as PM)	IS: 11255 (P-1)	33.9	mg/Nm ³	75.0
	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	17.8	mg/Nm ³	Not Specified
_	Oxide of Nitrogen (as NOx)	IS: 11255 (P-7)	234.5	rng/Nm³	710.0
	Carbon Monoxide (as CO)	USEPA (P-10)	63.9	mg/Nm ³	150.0

Remark- PM, NOx, & CO at 15% O2 Correction.

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.

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

4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the dustomer.

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

** End of Report **

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TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-551/031023-B

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description Stack Emission Sample Drawn on 28/09/2023

EPEPL (Mr. Chandan Sharma) Sample Drawn by

Sample Received on 03/10/2023 Time of Sampling (minutes) 30.0 Sampling Location : NA SOP-SE/09 Sampling Plan & Procedure

03/10/2023 To 07/10/2023 **Analysis Duration** : Stack Attached To DG Set No. 1 Source of Emission

: 7.5 MW Capacity : Normal Operating Load

: As per requirement Normal Operation Schedule Metal/Circular Type of Stack

: 1.1 Diameter of Stack (meter) Height of Stack from Ground Level (meter) 50.0 Height of Stack from Roof Level (meter) NA

Height of Sampling Location (meter) 24.0 From Ground Level

HSD Type of Fuel Used 1600.0 lph Fuel Consumed per hour Ambient Temperature (°C) 32.0 258.0 Stack Temperature (°C) Average Velocity of Flue Emission (m/sec) 13.4 17.9 Average Flow Rate (Ipm) Nil Control Measures (if any)

Sampling Instrument Used-Stack Monitoring kit APM-610 Remark (if any)

RESULTS

S.No.	Parameters	Test Methods	Results	Units	Limits as per EPA-1986, (SL-96 Schedule-I)
1	NMHC	IS: 5182 (P-21)	21.7	mg/Nm³	100.0
2	Total VOC	IS: 5182 (P-11)	ND	mg/Nm³	Not Specified

Remark- PM, NOx, & CO at 15% O₂ Correction.

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
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** End of Report **

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



& Laboratory : 32:41, South Side of G. T. Road. UPSIDC Industrial Area, Ghaziabad. 201 009 (Delhi-NCR) INDIA Contact No. 9711159210, 9810240837, 9810240676 E-mail: email@ekopro.in. ekoproengirieers@gmail.com, website: www.ekopro.in

TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-553/031023-A

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description Stack Emission

Sample Drawn on 28/09/2023

Sample Drawn by EPEPL (Mr. Chandan Sharma)

Sample Received on 03/10/2023 Time of Sampling (minutes) : 30.0 Sampling Location : NA

Sampling Plan & Procedure SOP-SE/09

03/10/2023 To 07/10/2023 **Analysis Duration** Source of Emission Stack Attached To DG Set

: 1250 KVA Capacity Operating Load Normal

Normal Operation Schedule As per requirement Metal/Circular

Type of Stack

Diameter of Stack (meter) 0.5 : 30.0 Height of Stack from Ground Level (meter) : NA Height of Stack from Roof Level (meter)

16.0 From Ground Level Height of Sampling Location (meter)

HSD Type of Fuel Used Fuel Consumed per hour Ambient Temperature (°C) 32.0 240.0 Stack Temperature (°C) Average Velocity of Flue Emission (m/sec) 13.3 17.5 Average Flow Rate (lpm) Nil Control Measures (if any)

Sampling instrument Used-Stack Monitoring kit APM-610 Remark (if any)

RESULTS

S.No.	Parameters	Test Methods	Resu≬ts	Units	Limits as per EPA-1986, (SL-96 Schedule-I)
1	Particulate Matter (as PM)	IS: 11255 (P-1)	35.2	mg/Nm³	75.0
2	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	19.6	mg/Nm ³	Not Specified
3	Oxide of Nitrogen (as NOx)	IS: 11255 (P-7)	148.9	mg/Nm ³	710.0
4	Carbon Monoxide (as CO)	USEPA (P-10)	56.4	mg/Nm ³	150.0

Remark- PM, NOx, & CO at 15% O2 Correction.

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
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** End of Report **

RO ENGINEERS P PRO ENGINEERS R PURNIMA ZHABULTON) JECHNICAL MANAGER Different Storrech

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thice S. Laborators 1994 (1, South Side of G. T. Road, UPSIDC Industrial Area, Ghaziabad 1, 201, 069 (Delhi-NCR) (NDJA Contact No. 9711159, 110. 9810240837, 9810240678. E-mail: email@ekopro.in, ekoproengineers@gricaliccim, website: www.ekopro.in

TEST REPORT

Stack Emission Analysis

Test Report No.: EKO/E-553/031023-B

Issued To

: HINDUSTAN ZINC LIMITED

Plot No. 2, Sec - 14 Rudrapur - Uttrakhand

Sample Description Stack Emission Sample Drawn on 28/09/2023

Sample Drawn by EPEPL (Mr. Chandan Sharma)

Sample Received on 03/10/2023 Time of Sampling (minutes) : 30.0 Sampling Location : NA Sampling Plan & Procedure : SOP-SE/09

Analysis Duration 03/10/2023 To 07/10/2023 Source of Emission Stack Attached To DG Set

Capacity : 1250 KVA Operating Load : Normal

Normal Operation Schedule As per requirement Type of Stack Metal/Circular

Diameter of Stack (meter) 0.5 Height of Stack from Ground Level (meter) 30.0 Height of Stack from Roof Level (meter) : NA

Height of Sampling Location (meter) 16.0 From Ground Level

Type of Fuel Used HSD Fuel Consumed per hour Ambient Temperature (°C) 32.0 Stack Temperature (°C) 240.0 Average Velocity of Flue Emission (m/sec) 13.3 Average Flow Rate (Ipm) 17.5 Control Measures (if any) : Nil

Remark (if any) Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S.No.	Parameters	Test Methods	Results	Units	Limits as per EPA-1986, (SL-96 Schedule-I)
1	имнс	IS: 5182 (P-21)	16.9	mg/Nm ³	100.0
2	Total VOC	IS: 5182 (P-11)	ND	mg/Nm ³	Not Specified

Remark- PM, NOX, & CO at 15% O₂ Correction.

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.

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

4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer.

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

** End of Report **

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TEST REPORT

Stack Emission Analysis

Test Report No. : EKO/E-552/031023-A

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description Sample Drawn on

Sample Drawn by

Sample Received on Time of Sampling (minutes)

Sampling Location

Sampling Plan & Procedure Analysis Duration

Source of Emission

Capacity Operating Load

Normal Operation Schedule Type of Stack

Diameter of Stack (meter)

Height of Stack from Ground Level (meter) Height of Stack from Roof Level (meter)

Height of Sampling Location (meter)

Type of Fuel Used Fuel Consumed per hour Ambient Temperature (°C) Stack Temperature (°C)

Average Velocity of Flue Emission (m/sec) Average Flow Rate (Ipm) Control Measures (if any)

Remark (if any)

Stack Emission 28/09/2023

EPEPL (Mr. Chandan Sharma)

03/10/2023 30.0

NA SOP-SE/09

03/10/2023 To 07/10/2023

Stack Attached To DG Set No. 2 7.5 MW

Normal

: As per requirement Metal/Circular

1.1 50.0 : NA

: 24.0 From Ground Level

HSD 1600.0 lph 32.0 250.0 : 13.2

> : 17.1 Nil

Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S.No. Parameters		Test Methods		Units	Limits as per EPA-1986, (SL-96 Schedule-I)	
1	Particulate Matter (as PM)	IS: 11255 (P-1)	33.2	mg/Nm³	75.0	
2	Sulphur Dioxide (as SO ₂)	IS: 11255 (P-2)	20.5	mg/Nm ³	Not Specified	
	Oxide of Nitrogen (as NOx)	IS: 11255 (P-7)	226.5	mg/Nm ³	710.0	
4	Carbon Monoxide (as CO)	USEPA (P-10)	60.5	mg/Nm ³	150.0	

Remark- PM, NOx, & CO at 15% O2 Correction.

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
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TEST REPORT

Stack Emission Analysis

Test Report No. : EKO/E-552/031023-B

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description Stack Emission Sample Drawn on 28/09/2023

Sample Drawn by EPEPL (Mr. Chandan Sharma)

Sample Received on 03/10/2023 Time of Sampling (minutes) : 30.0 Sampling Location : NA Sampling Plan & Procedure SOP-SE/09

Analysis Duration

03/10/2023 To 07/10/2023 Source of Emission : Stack Attached To DG Set No. 2 Capacity

: 7.5 MW Operating Load Normal

Normal Operation Schedule As per requirement Type of Stack Metal/Circular Diameter of Stack (meter)

1.1 Height of Stack from Ground Level (meter) 50.0 Height of Stack from Roof Level (meter) NA :

Height of Sampling Location (meter) 24.0 From Ground Level

Type of Fuel Used HSD Fuel Consumed per hour 1600.0 lph Ambient Temperature (°C) 32.0 Stack Temperature (°C) 250.0 Average Velocity of Flue Emission (m/sec) 13.2 Average Flow Rate (lpm) 17.1 Control Measures (if any) Nil •

Remark (if any) Sampling Instrument Used-Stack Monitoring kit APM-610

RESULTS

S.No.	Parameters	Test Methods	Results	Units	Limits as per EPA-1986, (SL-96 Schedule-I)
1	NMHC	IS: 5182 (P-21)	20.3	mg/Nm³	100.0
2	Total VOC	IS: 5182 (P-11)	ND	mg/Nm³	Not Specified

Remark- PM, NOx, & CO at 15% O2 Correction.

Notes:

- 1. The results given above are related to the tested sample, for various parameters, as observed at the time of Sampling. The customer asked for the above tests only.
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** End of Report **

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TEST REPORT

Workzone Air Quality Monitoring

Test Report No.: EKO/E-555/031023

Issued To : HINDUSTAN ZINC LIMITED

Issue Date: 07/10/2023

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

Sample Description : Workzone Air Sample Drawn on : 28/09/2023

Sample Drawn by : EPEPL (Mr. Chandan Sharma)

Sample Received on : 03/10/2023

Sampling Location : Zinc Casting Machine Floor

Sampling Plan & Procedure : SOP-AAQ/15

Analysis Duration : 03/10/2023 To 07/10/2023

Sampling Time : 08 Hrs.

Ambient Temperature (°C) : 30.0

Average Flow Rate of SPM (m³/min) : 1.60

Average Flow Rate of Gases (lpm) : 1.60

Weather Condition : Clear

Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Permissible Limits
1	SPM	IS: 5182 (P-4)	0.674	mg/m³	15.0 as per OSHA
2	Sulphur Dioxide (as SO₂)	IS: 5182 (P-2)	0.009	mg/m³	5.0 as per Factories Act, 1948
3	Nitrogen Dioxide (as NO₂)	IS: 5182 (P-6)	0.019	mg/m³	6.0 as per Factories Act, 1948
4	Lead (as Pb)	IS: 5182 (P-22)	< 0.1	mg/m³	0.15 as per Factories Act, 1948
5	Zinc (as Zn)	EKO/CHEM/SOP/AAQ-02	< 0.1	mg/m³	-

Notes:

- The results given above are related to the tested sample, as received & mentioned parameters.
 The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test report will not be used for any publicity/legal purpose.
- 4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
- 5. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

PRO ENGINEERS DATED.

* PURMMA CHALIHAN

STECHNICAL MANAGER

AUTHORISED STRENNINE N



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TEST REPORT

Workzone Air Quality Monitoring

Test Report No.: EKO/E-554/031023

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description : Workzone Air Sample Drawn on : 28/09/2023

Sample Drawn by : EPEPL (Mr. Chandan Sharma)

Sample Received on : 03/10/2023

Sampling Location : Zinc Furnace Top Floor

Sampling Plan & Procedure : SOP-AAQ/15

Analysis Duration : 03/10/2023 To 07/10/2023

Sampling Time : 08 Hrs.
Ambient Temperature (°C) : 30.0
Average Flow Rate of SPM (m³/min) : 1.75
Average Flow Rate of Gases (lpm) : 1.75
Weather Condition : Clear
Remark (if any) : NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Permissible Limits
1	SPM	IS: 5182 (P-4)	0.712	mg/m³	15.0 as per OSHA
2	Sulphur Dioxide (as SO ₂)	IS: 5182 (P-2)	0.010	mg/m³	5.0 as per Factories Act, 1948
3	Nitrogen Dioxide (as NO ₂)	IS: 5182 (P=6)	0.017	mg/m³	6.0 as per Factories Act, 1948
4	Lead (as Pb)	IS: 5182 (P-22)	< 0.1	mg/m³	0.15 as per Factories Act, 1948
5	Zinc (as Zn)	EKO/CHEM/SOP/AAQ-02	< 0.1	mg/m³	•

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
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- 5. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

PRO ENGINEERS PYPRO ENGINEERS PYPRO ENGINEERS PYPURNIMA GABATIAN

ECHNICAL MANAGER

COUNTES EST FUITE TRANSPORT

Contact : +91 - 9810243870

Issue Date: 07/10/2023



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TEST REPORT

Water Sample Analysis

Test Report No.: EKO/E-675/031023

Issued To

: HINDUSTAN ZINC LIMITED

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

Sample Description

: Ground Water

Sample Drawn on

: 29/09/2023

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on Sampling Location

: 03/10/2023

Sampling Plan & Procedure

: From Borewell

Sample Quantity

: SOP-W/66

Environmental Conditions

: 3.0 Litre : Normal

Analysis Duration

: 03/10/2023 To 07/10/2023

Remark (if any)

NA

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		RESULTS				
S. No.	Parameters	Test Methods	Results	Units	Limits as per (Amd.No.3	
					Acceptable	Permissible
1	Colour	IS: 3025 (P-4)	< 1.0	Hazen	5.0	15.0
2	Odour	IS: 3025 (P-5)	Agreeable	_	Agreeable	Agreeable
3	Taste	IS: 3025 (P-7)	Agreeable	-	Agreeable	Agreeable
4	Turbidity	IS: 3025 (P-10)	< 1.0	NTU	1.0	5.0
5	рН	IS: 3025 (P-11)	7.39	-	6.5-8.5	No relaxation
6	Total Hardness (as CaCO ₃)	IS: 3025 (P-21)	145.0	mg/L	200.0	600.0
7	Calcium (as Ca)	IS: 3025 (P-40)	34.2	mg/L	75.0	200.0
8	Iron (as Fe)	APHA 3125 B	<0.1	mg/L	1.0	No relaxation
9	Chloride (as Cl)	IS: 3025 (P-32)	24.5	mg/L	250.0	1000.0
10	Sodium (as Na)	0S 3025 (Part-45)	12.2	mg/L	-	
11	Potassium (as K)	IS 3025 (Part-45)	<1.0	mg/L	_	(-)
12	Chloramines (as Cl ₂)	IS: 3025 (P-26)	<1.0	mg/L	4.0	No relaxation
13	Fluoride (as F)	IS: 3025 (P-60)	< 1.0	mg/L	1.0	1.5
14	Total Dissolved Solids	IS: 3025 (P-16)	315.0	mg/L	500.0	2000.0
15	Magnesium (as Mg)	IS: 3025 (P-46)	13.9	mg/L	30.0	100.0
16	Copper (as Cu)	APHA 3125 B	< 0.005	mg/L	0.05	1.5
17	Manganese (as Mn)	APHA 3125 B	< 0.005	mg/L	0.1	0.3
18	Sulphate (as SO ₄)	IS: 3025 (P-24)	26.5	mg/L	200.0	400.0
19	Nitrate (as NO ₃)	IS: 3025 (P-34)	1.21	mg/L	45.0	No relaxation
20	Phenolic Compounds (as C6H5OH)	IS: 3025 (P-43)	< 0.001	mg/L₌	0.001	0.002
21	Mercury (as Hg)	APHA 3125 B	< 0.001	mg/L	0.001	No relaxation
22	Selenium (as Se)	APHA 3125 B	< 0.005	mg/L	0.01	No relaxation
23	Arsenic (as As)	APHA 3125 B	< 0.005	mg/L	0.01	No relaxation
24	Cyanide (as CN)	APHA 4500 CN-K	Absent	mg/L	0.05	No relaxation
25	Lead (as Pb)	APHA 3125 B	< 0.005-	mg/L	0.01	No/relaxation

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Test Report No.: EKO/E-675/031023

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26	Zinc (as Zn)	APHA 3125 B	< 0.01	mg/L	5.0	15.0
27	Barium (as Ba)	APHA 3125 B	< 0.01	mg/L	0.7	No relaxation
28	Mineral Oil	IS: 3025 (P-39)	ND (LOQ-0.1)	mg/L	1.0	No relaxation
29	Ammonia (as Total Ammonia-N)	IS: 3025 (P-34)	< 0.1	mg/L	0.5	No relaxation
30	Silver (as Ag)	APHA 3125 B	< 0.005	mg/L	0.1	No relaxation
31	Total Chromium (as Cr)	APHA 3125 B	< 0.005	mg/L	0.05	No relaxation
32	Total Alkalinity (as CaCO ₃)	IS: 3025 (P-23)	112.0	mg/L	200.0	600.0
33	Aluminium (as Al)	APHA 3125 B	< 0.005	mg/L	0.03	0.2
34	Boron (as B)	IS: 3025 (P-57)	< 0.25	mg/L	0.5	2.4
35	Cadmium (as Cd)	APHA 3125 B	< 0.001	mg/L	0.003	No relaxation
36	Anionic Detergents (as MBAS)	APHA 5540	<0.1	mg/L	0.2	1.0
37	Sulphide (as H ₂ S)	IS: 3025 (P-29)	< 0.05	mg/L	0.05	No relaxation
38	Molybdenum (as Mo)	APHA 3125 B	< 0.005	mg/L	0.07	No relaxation
39	Nickel (as Ni)	APHA 3125 B	< 0.005	mg/L	0.02	No relaxation
40	Polychlorinated biphenyls (PCB)	EKO/CHEM/SOP-GCMSMS/W-02	ND (LOQ-0.00001)	mg/L	0.0005	No relaxation
41	Polycyclic aromatic hydrocarbons (PAH)	EKO/CHEM/SOP-GCMSMS/W-03	ND (LOQ-0.00001)	mg/L	0.0001	No relaxation
42	Atrazine		ND (LOQ-0.01)	µg/l	2.0	No relaxation
43	Alachlor		ND (LOQ-0.01)	μg/l	20.0	No relaxation
44	Aldrin/Dieldrin		ND (LOQ-0.01)	µg/l	0.03	No relaxation
45	Alpha HCH		ND (LOQ-0.01)	µg/l	0.01	No relaxation
46	Beta HCH		ND (LOQ-0.01)	µg/l	0.04	No relaxation
47	Butachlor		ND (LOQ-0.01)	µg/l	125.0	No relaxation
48	Chlorpyriphos		ND (LOQ-0.01)	μg/l	30.0	No relaxation
49	Delta HCH		ND (LOQ-0.01)	μg/l	0.04	No relaxation
50	DDT(o,p and p,p-Isomers of DDT,DDE and DDD	EKO/CHEM/ŞOP-GCMSMS/W-01	ND (LOQ-0.01)	µg/ ŀ	1.0	No relaxation
51	Endosulfan (Alpha,Beta & Sulphate)		ND (LOQ-0.01)	µg/l	0.4	No relaxation
52	Ethion		ND (LOQ-0.01)	µg/l	3.0	No relaxation
53	Gamma-HCH (Lindane)		ND (LOQ-0.01)	μg/l	2.0	No relaxation
54	Malathion		ND (LOQ-0.01)	μg/l	190.0	No relaxation
55	Methyl parathion		ND (LOQ-0.01)	μg/l	0.3	No relaxation
56	Monocrotophos		ND (LOQ-0.01)	μg/l	1.0	No relaxation
57	Phorate		ND (LOQ-0.01)	μg/l	2.0	No relaxation
58	2,4 Dichlorophenoxyacetic acid	EKO/OLKEN/OCE LONGOAN OA	ND (LOQ-0.01)	µg/l	30.0	No relaxation
59	Isoproturon	EKO/CH/EM/SOP-LCMS/W-01	ND (LOQ-0.01)	µg/l	9.0	No relaxation
60	Bromoform	APHA 6232	< 0.04	mg/L	0.1	No relaxation
61	Dibromochloromethane	APHA 6232	< 0.04	mg/L	0.1	No relaxation
62	Bromodichloromethane	APHA 6232	< 0.04	mg/L	0.06	No relaxation
63	Chloroform	APHA 6232	< 0.04	mg/L	0.2	No relaxation
64	Total Coliform	IS: 15185	Absent	Per 100mL	Absent	No relaxation
65	E.coli	IS: 15185	Absent	Per 100mL	Absent	No relaxation
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Test Report No.: EKO/E-675/031023

Remark: - Standard Applicable only for Drinking Water.

Notes:

- The results given above are related to the tested sample, as received & mentioned parameters.
 The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test report will not be used for any publicity/legal purpose.
- 4. The test samples will be disposed off after 15 days from the date of issue of test report, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
- 5. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

FOR ENGINEERS PVI LIDO SHIVANGI SINGH RAIZADA *
SECTIONINCHARGE MICROBIOLOGY
SAI(Authorised Signatory) ME
THE ENVIRONMENT

FOR ENGINEERS PLY LPS

* PÜHNIMA AHAMAGER

* TECHNICAL MANAGER

*

(A) DERRA HERRANA

Page 3 of 3



EKO TESTING LABS Eko Pro Engineers Pvt. Ltd.

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



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

TEST REPORT

Effluent Sample Analysis

Test Report No.: EKO/E-569/031023

: HINDUSTAN ZINC LIMITED

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

Sample Description

: STP Outlet (Final Exit Point)

Sample Drawn on

Issued To

: 29/09/2023

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on Sampling Location : 03/10/2023

Sampling Plan & Procedure

: From STP Plant : SOP-W/66

Sample Quantity

: 2.0 Litre

Environmental Condition

2.0 Litre

Analysis Duration

Normal 03/10/2023 To 07/10/2023

Remark (if any)

NA

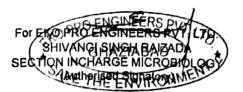
RESULTS

S. N o.	Parameters	Test Method	Results	Units	Limits as per CPCB (EPR-1986 Schedule- VI Part-A)
1	pH	IS: 3025 (P-11)	6.78		_ 5.5-9.0
2	Total Suspended Solids	IS: 3025 (P-17)	26.0	mg/l	100.0
3	COD (as O2)	IS: 3025 (P-58)	52.5	mg/l	250.0
4	BOD (@27°C for 3 days)	IS: 3025 (P-44)	12.0	mg/l	30.0
5	Total Nitrogen (as N)	APHA 4500 N	3.45 ·	mg/i	100.0
6	Phosphate (as P)	IS: 3025 (P-31)	0.38	mg/l	5.0
7	Ammonical Nitrogen (as N)	APHA 4500 NH3	1.29	mg/l	50.0
8	Faecal Coliform	APHA 9221 Ē	60	MPN/100ml	1000.0
9	Total Dissloved Solids	IS: 3025 (P-16)	705.0	mg/l	-
10	Oil & Grease	IS: 3025 (P-39)	< 4.0	mg/l	10.0

Notes:

- The results given above are related to the tested sample, as received & mentioned parameters.
 The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test report will not be used for any publicity
- 4. The test samples will be disposed off after 15 days from the date of reporting of result, unless until specified by the customer. Sample received for biological tests will be destroyed after 7 days from the date of issue of test report.
- 5. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report



FOR ENCORENGIAL TO PURNIMA CHAUMAN O TECHNICAL MANAGER *

ANNEXURI-Z(e)

Contact +91 98 1024 8870

Issue Date: 07/10/2023



EKO TESTING LABS Eko Pro Engineers Pvt. Ud.

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

IC-5063

Office & Liberatory 1 32/41, South Side of G. 1. Road - UPSIDC Industrial Area, Ghaziabad - 201 009 (Delhi-NCR) INDIX Contact No. 97 11159210, 9810240837, 9810240678 E-mail.cemail@ekcpro.in, ekoproengineers@gmail.com, website - www.ekopro.in

TEST REPORT

Noise Monitoring

Test Report No.: EKO/E-561/031023

Issued To

HINDUSTAN ZINC LIMITED

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

Sample Description

: Ambient Noise

Sample Drawn on

: 28/09/2023

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

: 03/10/2023

Sampling Location

: Near Main Gate

Sampling Plan & Procedure

: SOP-N/01

Weather Condition

: Normal

Analysis Duration Remark (if any) : 03/10/2023 To 04/10/2023

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	IS: 9989	68.5	dB (A)	75.0
2	Leq (Night Time)	10 . 9903	62.4	dB (A)	70.0

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test report will not be used for any publicity
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report



EKO TESTING LABS Eko Pro Engineers Pvt. Ltd.

Environmental Consultants and Analytical Laboratory

(An ISO 9001:2015 Certified Company)

& Extractory = 32/41, South Side of G. T. Road, UPSIDC Industrial Area. Ghaziabad - 201 009 (Delhi-NCR) INDIA No. 9711159210, 9810240837, 9810240678 E-mail email@ekopro.in, ekoproengineers@gmail.com, website : www.ekopro.in

TEST REPORT

Noise Monitoring

Test Report No.: EKO/E-560/031023

: HINDUSTAN ZINC LIMITED

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

Sample Description

: Ambient Noise

Sample Drawn on

Issued To

: 28/09/2023

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

: 03/10/2023

Sampling Location

: Back Side of DG Area

Sampling Plan & Procedure

: SOP-N/01

Weather Condition

Normal

Analysis Duration

03/10/2023 To 04/10/2023

Remark (if any)

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	IS : 9989	71.2	dB (A)	75.0
2	Leq (Night Time)	13 . 9909	63.9	dB (A)	70.0

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test report will not be used for any publicity
- Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report



EKO TESTING LABS Eko Pro Engineers Pvt. Utd.

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



Office & Laboratory 32/41, South Side of G. T. Road, UPSIDC Industrial Area, Graziabad - 201,009 (Delbi-NCR) INDIA Contact No. 9711159210, 9810240837, 9810240678, E-mail, email@ekoproun_ekopro

TEST REPORT

Noise Monitoring

Test Report No.: EKO/E-559/031023

HINDUSTAN ZINC LIMITED

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

Sample Description

: Ambient Noise

Sample Drawn on

Issued To

: 28/09/2023

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

: 03/10/2023

Sampling Location

: Near Compressor Area

Sampling Plan & Procedure

: SOP-N/01

Weather Condition

: Normal

Analysis Duration Remark (if any) : 03/10/2023 To 04/10/2023

- NIA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	IS : 9989	73.2	dB (A)	75.0
2	Leq (Night Time)	10.9909	64.5	dB (A)	70.0

Notes :

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test report will not be used for any publicity
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report





EKO TESTING LABS Eko Pro Engineers Pvt. Utd.

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

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

TEST REPORT

Noise Monitoring

Test Report No.: EKO/E-562/031023

: HINDUSTAN ZINC LIMITED

Issued To

Plot No. 2, Sec - 14

IIE, Sidcul Pantnagar, Rudrapur - Uttrakhand

Sample Description

: Ambient Noise

Sample Drawn on

29/09/2023

Sample Drawn by

Sample Received on

: EPEPL (Mr. Chandan Sharma)

Sampling Location

03/10/2023

Sampling Plan & Procedure

: East Side of Canteen In New Plant

: SOP-N/01

Weather Condition Analysis Duration

: Normal : 03/10/2023 To 04/10/2023

Remark (if any)

NA

RESULTS

S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	IS: 9989	66.3	dB (A)	75.0
2	Leq (Night Time)	10.0000	55.2	dB (A)	70.0

Notes:

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test report will not be used for any publicity
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report

Page 1 of 1

PRO ENGINE PURNIMA BANHAN ECHNICAL MANAC authbriedanaign



EKO TESTING LABS Eko Pro Engineers Pvt. Utd.

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



Contact No. 9711159210, 9810240837, 9810240678 E-mail. email.@ckopro.in, ekoproengineers@gmail.com, website, www.ekopro.in

TEST REPORT

Noise Monitoring

Test Report No.: EKO/E-568/031023

: HINDUSTAN ZINC LIMITED

Issued To

Plot No. 2, Sec - 14

IIE, Sidcul Pantnagar, Rudrapur - Uttrakhand

Sample Description

: Workzone Noise

Sample Drawn on

: 29/09/2023

Sample Drawn by

: EPEPL (Mr. Chandan Sharma)

Sample Received on

: 03/10/2023

Sampling Location

: Zinc M&C Area

Sampling Plan & Procedure

: SOP-N/01

Weather Condition

: Normal

Analysis Duration

: 03/10/2023 To 04/10/2023

Remark (if any)

: NA

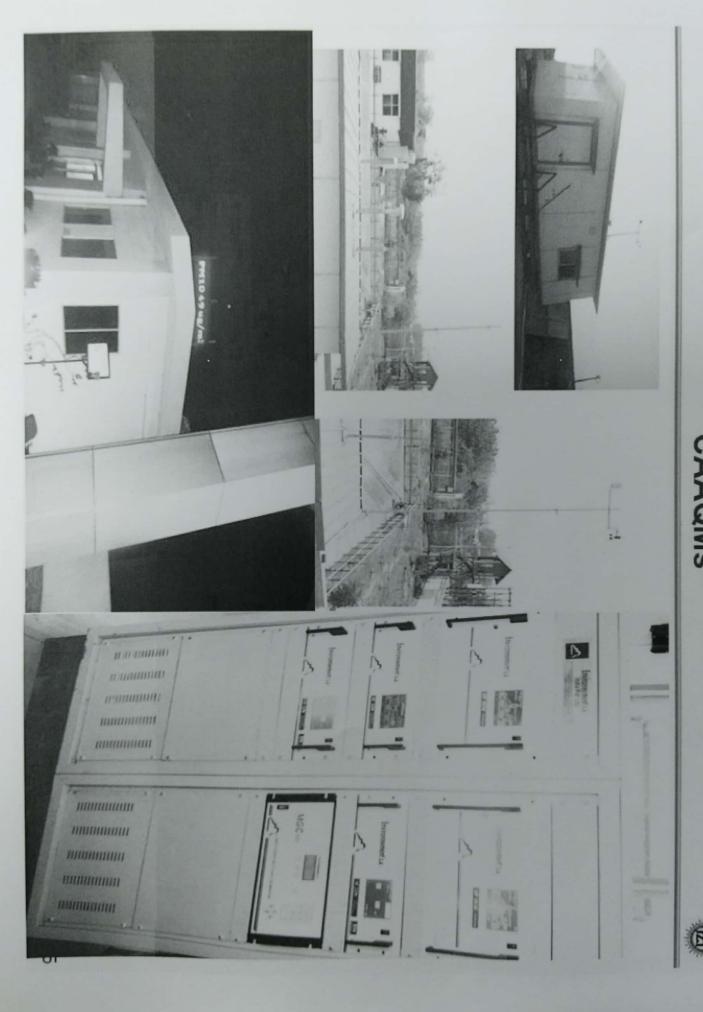
RESULTS

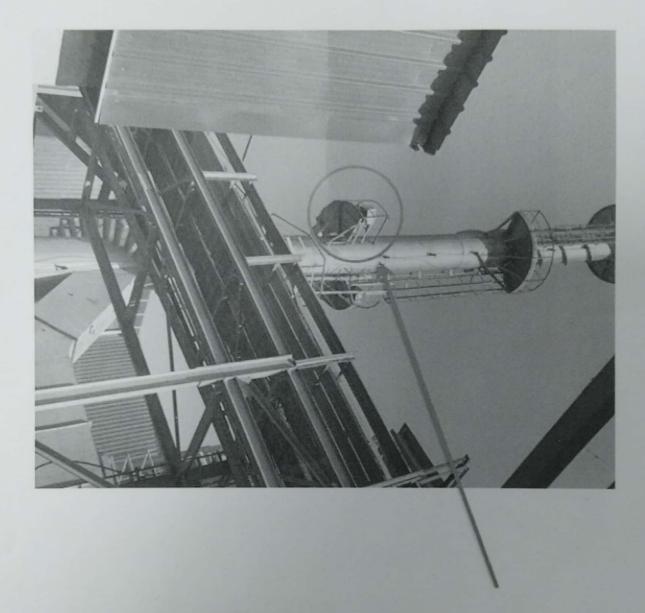
S. No.	Parameters	Test Methods	Results	Units	Limits as per "The Noise Pollution (Regulation & Control) Rules, 2000"
1	Leq (Day Time)	IS : 9989	72.1	dB (A)	75.0
2	Leq (Night Time)		64.8	dB (A)	70.0

Notes :

- 1. The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- 2. This test report will not be generated again, either wholly or in part, without prior written permission of the Laboratory.
- 3. The test report will not be used for any publicity
- 4. Responsibility of the Laboratory is limited to the invoiced amount only.

End of Report





PM analyzer

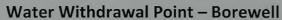


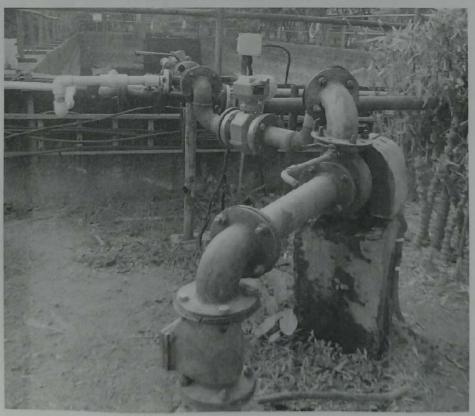
Bag filter
arrangement for
hygiene ventilation

ANNEXURE-3

	Ground Water Withdrawal FY 2023-24					
Month	Ground Water Withdrawal	UOM	Rain water utilization			
Apr-23	2,584	Cu.m	1,945			
May-23	2,377	Cu.m	2,907			
Jun-23	4,449	Cu.m	312			
Jul-23	2,098	Cu.m	781			
Aug-23	1,089	Cu.m	2,886			
Sep-23	873	Cu.m	2,968			
Total	13,470	Cu.m	11,799			

• All reading recorded in cubic meter.





Sensitivity: Internal (C3)









Pond No- 4

Pond No- 3

ANNEXURE-H

On-Going CSR Activities at PMP FY2023-24

Flag Ship Projects: Continuing in FY 23-24

- Sakhi Project Strengthening Women Empowerment
- ME Providing Micro Enterprises support to SHG women for their sustainability
- 3. Zinc Kaushal Providing skilling training to rural youth through Tata Motors Tata Strive Project

Other Activities:

- Exco member visited to our production centre.
- HZL CHRO visited Production centre and interacted with SHG women.
- One Girl studying in Unchi Udaan project from PMP got selection in IIT Guwahati, Assam.
- Participated in Birthday celebrations of one SHG at jagatpura rural
- Micro Enterprises Thematic champion visited PMP production centre and pickle unit.
- Blood Donation camp conducted by HR department. 100 donors donated Blood on this
- Engineers' day celebration done at PMP by HR Department.
- Viswa Karma Pooja celebrated at PMP in both plants
- Ganesh Pooja conducted by HR department in Admin. Block
- E booklet made of Jeevan Tarang students was launched by UH

On-Going CSR Activities at PMP FY2023-24



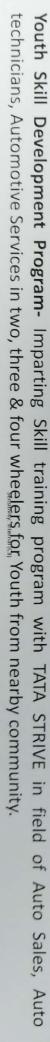
Women Empowerment- Strengthening of Self-Help Group by 33 villages and covered around 3000+ families. This project (Sakhi) was implementing through Manjari Foundation. Started in the year 2017 and continuing.

On-Going CSR Activities at PMP FY2023-24









On-Going CSR Activities at PMP FY2023-24

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HINDUSTAN ZING

PANTNAGAR METAL PLANT

DONATING BLOOD, SAVING LIVES



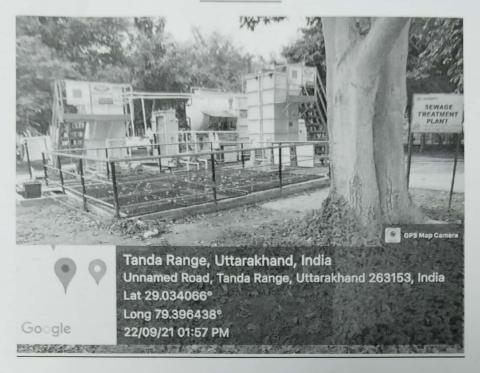




Misc. activities- Blood Donation camp organized at location in consultation with CMO, US Nagar, Organized Run for Zero Hunger Campaign for meals to unprivileged children's

ANNEXURE-5

STP PLANT



ETP PLANT



