

REGISTERED A.D.

DZS/ENV/A-01/ENV/2023/ 80

Date: 19/05/2023

To,
Member Secretary
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri,
Jaipur-302004

Sub: Compliance report for Zinc Smelter (80,000 ton to 1,00,000 ton) at Debari, Udaipur, Rajasthan by Hindustan Zinc Limited.

Ref.: J-11011/479/2006-IA.II(I) dated 19th /25th March, 2008

Dear Sir,

With reference to the above mentioned subject, please find enclosed herewith the compliance report of stipulated condition of Environment clearance for the period from October 2022 to March 2023 for Zinc Smelter, Debari.

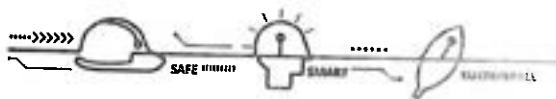
Thanking you,
Yours faithfully



(Manas Tyagi)
Director- SBU, ZSD

- C.C. : 1. Regional Officer,
Rajasthan State Pollution Control Board
F-470, Mewar Industrial Area, UCCI-UDAIPUR (RAJ)-313001
2. Scientist 'D' & In charge
Zonal Office (Central),
Central Pollution Control Board, 3rd Floor, Sahkar Bhawan,
North T.T. Nagar, Bhopal- 462003
3. The Deputy Director (S)/ Scientist- C,
Ministry of Environment, Forest & Climate Change
Integrated Regional Office, A- 209 & 218, Aranya Bhawan,
Jhalana Institutional Area, Jaipur (Rajasthan) - 302004

80/C





HINDUSTAN ZINC

Zinc & Silver Refinery

Six Monthly Compliance Report

of

Environmental Clearance Conditions

for



Zinc Smelter Debari

M/s Hindustan Zinc Limited

Debari – 313024, Udaipur, Rajasthan

For the period

1st October 2022 to 31st March 2023

(EC Letter No. J-11011/479/2006-IA .II (I) dated 19th March, 2008)

May, 2023

S. No.	Particulars	Details
1	Name of Project	M/s Hindustan Zinc Limited, Zinc Smelter Debari
2	Address of Project	M/s Hindustan Zinc Limited, Zinc Smelter Debari, Village Debari, District- Udaipur, Rajasthan
3	Environment Clearance Letter no & Date	Letter No. J-11011/479/2006-IA .II (I) dated 19 th March, 2008
4	Status of Project	Operational

Zinc Smelter Debari of Hindustan Zinc Limited, located at Udaipur District of Rajasthan, over a lease area of 190.05 Ha. The smelter is based on hydrometallurgical zinc smelting technology through Roast-Leach-Electrowinning process.

S. No.	Unit	Capacity	Year of Commissioning	Production (FY 22-23)
1	Zinc Smelter	Zn: 1,00,000 TPA	1968	82517MT

Details of Consents to Operate & Hazardous Waste Authorization (HWA) granted to unit are given below:

Unit Name	CTO / HWA References File Nos.
CTO Details	
Zinc Smelter, Debari	F(Plan)/Udaipur(Girwa)/5(1)/2017-2018/4223-4226 Dtd: 17/09/2018 F(HDF)/Udaipur(Girwa)/1328(1)/2022-2023/7460-7462 Dtd:17/03/2023
Captive Power Plant (D.G. Set 2x7.4 MW)	F(CPM)/Udaipur(Girwa)/16()/2017-2018/2043-2045 Dtd: 30/08/2019
MCTP	F(CPM)/Udaipur(Girwa)/16()/2017-2018/3562-3564 Dtd: 27/08/2018
Zinc Smelter Township	F(CPM)/Udaipur(Girwa)/17(1)/2018-2019/2817-2819 Dtd: 11/11/2019
Zinc Smelter Hospital	F(BMW)/Udaipur(Girwa)/7008(1)/2021-2022/1340-1341, dtd: 21/01/2022.
HWA Details	
Zinc Smelter, Debari	F(HSW)/Udaipur(Girwa)/7034(1)/2022-2023/7463-7465 Dtd: 17/03/2023

Name of the project: Expansion of Zinc Smelter (80,000 TPA to 1,00,000 TPA) at Debari, Udaipur Rajasthan by M/s Hindustan Zinc Ltd. – Environmental clearance regarding

Project Code:

Clearance Letter No.: J-11011/479/2006-IA.II (I) dated 19th / 25th March, 2008

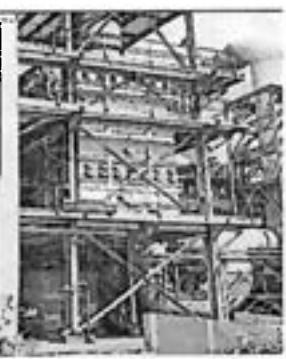
Period of Compliance Report: 01st October 2023 to 31th March 2023

Specific Conditions:

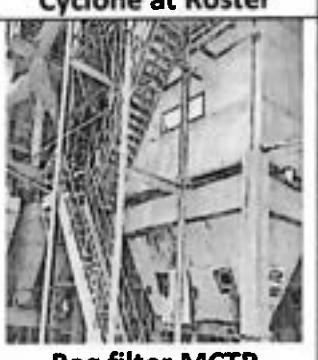
Sr.No	Condition	Compliance Status
1	The company shall install on-line stack emission monitoring equipments for continuous monitoring of SO ₂ , NOx, SPM and O ₂ and all the pollution control measures shall be interlocked. The company shall install fume extractors and bag filters to control the emissions from all melting and casting units including Moore cake treatment plant. Cyclone, scrubber, wet ESP, Fluoride removal plant, absorption tower, demister etc. shall be installed in the Sulphuric acid plant I & II to control dust and SO ₂ emissions within the stipulated limits of 50 mg/Nm ³ and reports submitted to the Ministry including its Regional Office at Lucknow, CPCB and RSPCB.	All PCM's like Cyclone, scrubber, wet ESP, absorption tower, demister,etc. have been installed. Bag filters and fume extractors are provided and are operated efficiently in Zinc Melting, casting unit, Calcine handling system and Moore cake treatment plant. Online analysers for SO ₂ , NOx, SPM and O ₂ emission are installed and connected to PCB server. All PCEs are interlocked. AAQ monitoring reports for the period Oct. 2022 to Mar. 2023 are attached as Annexure – 1 and also reported to Pollution Control Board.



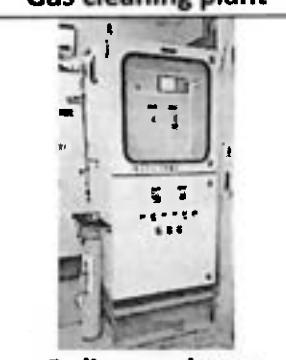
Cyclone at Roster



Gas cleaning plant

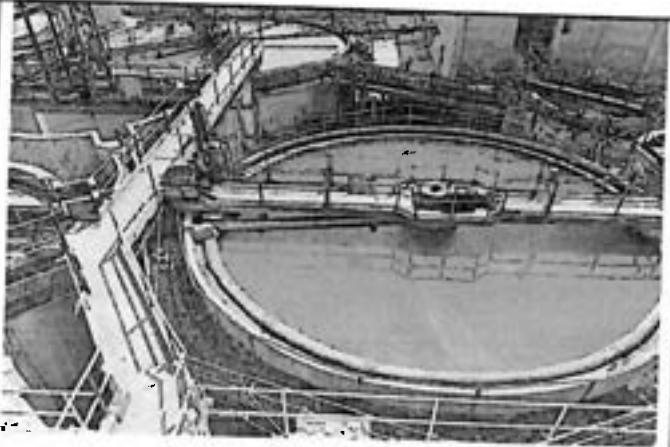


Bag filter MCTP



Online analyzer

2	<p>SO₂ emissions shall be controlled less than 1.5 Kg/ton of Sulphuric acid (H₂SO₄) produced and acid mist less than 50 mg/Nm³.</p>	<p>SO₂ & Acid mist have been monitored on regular basis.</p> <table border="1" data-bbox="798 361 1503 810"> <thead> <tr> <th data-bbox="798 361 933 810">Parameter Month</th><th colspan="2" data-bbox="933 361 1092 810">Roaster-2</th><th colspan="2" data-bbox="1092 361 1251 810">Roaster-3</th></tr> <tr> <th data-bbox="798 361 933 810"></th><th data-bbox="933 361 1092 810">SO₂ (mg/N m3)</th><th data-bbox="1092 361 1251 810">Acid Mist (mg/N m3)</th><th data-bbox="1251 361 1410 810">SO₂ (mg/N m3)</th><th data-bbox="1410 361 1503 810">Acid Mist (mg/N m3)</th></tr> </thead> <tbody> <tr> <td data-bbox="798 361 933 810">Oct' 22</td><td data-bbox="933 361 1092 810">123.6</td><td data-bbox="1092 361 1251 810">25.6</td><td data-bbox="1251 361 1410 810">124.3</td><td data-bbox="1410 361 1503 810">26.4</td></tr> <tr> <td data-bbox="798 361 933 810">Nov'22</td><td data-bbox="933 361 1092 810">121.21</td><td data-bbox="1092 361 1251 810">21.82</td><td data-bbox="1251 361 1410 810">118.86</td><td data-bbox="1410 361 1503 810">20.57</td></tr> <tr> <td data-bbox="798 361 933 810">Dec' 22</td><td data-bbox="933 361 1092 810">123</td><td data-bbox="1092 361 1251 810">24.6</td><td data-bbox="1251 361 1410 810">119</td><td data-bbox="1410 361 1503 810">25.7</td></tr> <tr> <td data-bbox="798 361 933 810">Jan'23</td><td data-bbox="933 361 1092 810">120</td><td data-bbox="1092 361 1251 810">23.7</td><td data-bbox="1251 361 1410 810">119</td><td data-bbox="1410 361 1503 810">23.5</td></tr> <tr> <td data-bbox="798 361 933 810">Feb'23</td><td data-bbox="933 361 1092 810">120.4</td><td data-bbox="1092 361 1251 810">27.5</td><td data-bbox="1251 361 1410 810">117.2</td><td data-bbox="1410 361 1503 810">25.6</td></tr> <tr> <td data-bbox="798 361 933 810">Mar'23</td><td data-bbox="933 361 1092 810">118.5</td><td data-bbox="1092 361 1251 810">23.6</td><td data-bbox="1251 361 1410 810">120.4</td><td data-bbox="1410 361 1503 810">29.5</td></tr> </tbody> </table> <p>All stack monitoring reports for the period Oct'22 to Mar'23 are attached as Annexure – 1A</p>	Parameter Month	Roaster-2		Roaster-3			SO ₂ (mg/N m3)	Acid Mist (mg/N m3)	SO ₂ (mg/N m3)	Acid Mist (mg/N m3)	Oct' 22	123.6	25.6	124.3	26.4	Nov'22	121.21	21.82	118.86	20.57	Dec' 22	123	24.6	119	25.7	Jan'23	120	23.7	119	23.5	Feb'23	120.4	27.5	117.2	25.6	Mar'23	118.5	23.6	120.4	29.5
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3	<p>Secondary fugitive emissions from all the sources including Roaster plant shall be controlled, regularly monitored and data submitted to the Regional Office at Lucknow, CPCB and RSPCB.</p>	<p>Fugitive emission have been monitored and results are regularly submitted to RSPCB. Reports for the period Oct'22 to Mar'23 are attached as Annexure - 1 A.</p>																																								
4	<p>Total water requirement from Udai Sagar Dam shall not exceed 8,000 m³/day as per the agreement signed with Govt. of Rajasthan. No ground water will be used.</p> <p>As reflected in the EIA/EMP, all the effluent generated from gas cleaning plant, Sulphuric acid plant, anode & cathode washing, demineralization plant and cooling tower shall be treated in the effluent treatment plant (ETP). The treated effluent shall conform to the prescribed standards and recycled to maintain the 'zero' discharge. Sewage shall be treated in sewage treatment plant (STP).</p>	<p>Total water consumption does not exceed 7,100 m³/day.</p> <p>Sources of fresh water is Mansiwakal and treated water from Common Sewage Treatment Plant. No ground water is abstracted for use.</p> <p>The effluents from these sources are treated in Effluent Treatment Plant followed by ETP(Capacity 5760 KLD) and further in RO-ZLD with MVR system (Capacity 3000 KLD) to ensure effective treatment and Zero Liquid Discharge (ZLD) and to improve quality and quantity of treated water and its recycling in process. All treated water is being used in process. Additional RO-ZLD with MVR system is also ensures effective and mechanized evaporation and treatment of Reject generated from treatment process.</p>																																								



Effluent treatment plant (ETP)

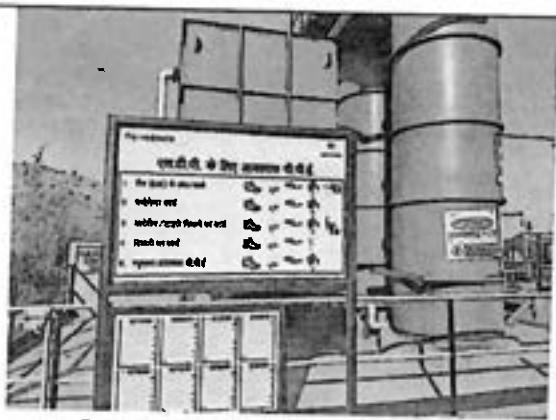
The sample of treated effluent are regularly collected and analyzed as per IS & CPCB approved procedures & treated effluent confirms the limits prescribed by the Board.

The treated water is recycled and zero discharge is maintained.

Reports of treated effluent for the period October 2022 to March 2023 are attached as **Annexure -2**.

Domestic effluent from plant and colony is treated in sewage treatment plant (STP). Reports of treated effluent of plant & colony for the period October 2022 to March 2023 are attached as **Annexure -3A & 3B**.

Results of Piezowells for period of October 2022 to March 2023 are attached as **Annexure -4**.



Sewage treatment plant (STP)

- 5 All the process residues, spent catalyst, Cobalt cake, anode mud, cooler cake, Copper cake etc. shall be

- Anode mud are recycled & Cooler cake, Spent catalyst are disposed at CHWMF Gudli. Copies of manifest are submitted to RSPCB every month.

	<p>disposed off in common hazardous waste management facility (CHWMF) at Gudli of M/s Ramky.</p> <p>The Jarosite sludge shall be neutralized with hydrated lime and disposed off in secured landfill (SLF) inside the plant premises. ETP sludge in the form of cake shall be recycled in the Moore cake treatment Plant. Waste/used oil shall be sold to registered recyclers. Valid membership to CHWMF shall be obtained.</p>	<ul style="list-style-type: none"> • Waste oil/used oil are sold to registered recyclers. • Previously Jarosite Residue is stored in 3rd Jarosite secured landfill, after treatment with lime in ETP, slurry is pumped to ponds and supernated/leachate water is retreated in ETP and recycled in plant. Now 100 % of Jarosite generated from process i • n being sent for co-processing in cement industries • ETP sludge is disposed off in common hazardous waste management facility (CHWMF) at Gudli of M/s Ramky • All the process residues & other Hazardous wastes are handled & disposed as per granted Authorization & HWR-2016. • Membership no. 373 obtained for CHWMF through UCCI, Udaipur vide letter no. UCCI/HWM-373/2022-23-340.
6	<p>As proposed in EIA/EMP, canopy based green belt of adequate width and density in and around the around the periphery of plant in 67.5 ha. Out of total 190.05 ha. Shall be developed as per CPCB guidelines.</p>	<p>Around 76 hectare area is covered under green belt out of lease area of 190.05 hectare including lawns. Green belt developed in the factory is maintained .</p> <div style="display: flex; justify-content: space-around;">  <div style="text-align: center;"> <p>Plantation view around the plant area</p>    </div> </div>
7	Permission and recommendations of	In consultation with forest department following

	<p>the State Forest Department regarding impact of the proposed expansion on surrounding 18 reserve forests shall be obtained and all the recommendations shall be implemented. Further, Conversation Plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.</p>	<p>actions are taken for conservation of wild fauna around premises:</p> <ul style="list-style-type: none"> • First Miyawaki forest with 8000 plants created in HZL at Debari in 1 Acre. The Miyawaki method is an afforestation technique that uses native species to create dense, multilayered forests • Display board for awareness indicating conservation of wild fauna. • Total 10200 no. plantation done in FY 22-23. • Preservation of trees and shrubs for providing better niche for the animals. • Regular maintenance with dedicated team and other resources is being done for existing plant, parks and green belt cover in factory area is carried out. • Awareness program conducted for employees and their families on the occasion of National energy conservation day, Water day, Biodiversity day, Earth day & World Environment Day. 
8	<p>Regular medical examination and health monitoring of all the employees for Lead (Pb) and Cadmium (Cd) shall be carried out and if cases of presence of Lead (Pb) and Cadmium (Cd) are detected, necessary compensation shall be arranged under the existing laws. A competent occupational health physician shall be appointed to carry out medical surveillance. Occupational health of all the workers shall be monitored for relevant</p>	<p>Regularly, all the employees are undergoing periodical medical check-ups for health impact due to industrial activity. Check up for lead and cadmium is carried out for all workmen working in that area and randomly for others. The blood samples are analyzed by expert team of HZL. We are having qualified & experienced medical officers with us.</p> <ol style="list-style-type: none"> 1. Dr. Sumit Siroya – MBBS, PGDD, FID, AFIH with 13 years experience. <p>Records are maintained as per requirement.</p>

	parameters and records maintained for at least 40 years from the beginning of the employment or 15 years after the retirement or cessation of employment whichever is later.	
9	All the recommendations made in Charter for Corporate Responsibility for Environment Protection (CREP) for Zinc Smelter shall be implemented.	<ul style="list-style-type: none"> Meeting SO₂ emission 950 mg/NM³ 1.5 Kg/tonne of 100% H₂SO₄ produced, 50 mg/Nm³ of acid mist. Online SO₂ monitoring system has been installed at Acid Plant-2 & Acid Plant-3 and real time data is transmitted to PCB server. It is working satisfactorily. Solid and Hazardous Waste disposal: Captive secured landfill for disposal of waste Jarosite cake after neutralization, and other wastes are recycled / disposed as per authorization under HW (M, H & T) Rules 2016. Wastewater treatment and disposal: Dedicated ETP plant and RO-ZLD Plants are in operation and zero discharge is maintained by reuse/recycle. Domestic effluent is treated in STP and treated water is used in plantation. Housekeeping: Reduction of the generation of fugitive dust by Water spray, Regular water spray on roads and drain cleaning in entire plant area, routine cleaning activities, using Mechanical and hand- driven road vacuum cleaners and by installing Bag filters in Zinc melting, Calcine handling system and Moore cake section to minimize the dust emission.  <p>Water spray tanker</p>



Vaccum cleaner- Road sweeper



Vaccum cleaner- Road sweeper

- Green Belt: The details of developed greenbelt as per CPCB guidelines is as below:
Total ZSD area: 190.05 Hectare
Green-belt area: 76.0 Hectare

General Conditions:

Sr. No	Condition	Compliance Status
1	The project authorities must strictly adhere to the stipulations made by the Rajasthan State Pollution Control Board (RSPCB) and the State Government.	Noted
2	No expansion or modification in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Noted
3	The gaseous emissions from various process units shall conform to the standards prescribed by the concerned authorities from time to time. The Rajasthan State Pollution Control Board (RSPCB) may specify	<ul style="list-style-type: none">• The emission results are mentioned above against specific condition no. 1 & 2 and are well within prescribed standards.• The emission is well within the prescribed limit.• All the pollution control equipment are interlocked.

	<p>more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.</p> <p>At no time, the emissions level shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.</p>																														
4	<p>Adequate number of ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the Rajasthan State Pollution Control Board.</p> <p>Data on ambient air quality and stack emission shall be regularly submitted to the Ministry including its Regional Office at Lucknow and the CPCB/RSPCB once in six months.</p>	<ul style="list-style-type: none"> Four ambient air quality monitoring stations are established in consultation with Rajasthan State Pollution Control Board. Reports are submitted to statutory authorities periodically. Third party monitoring of Ambient air quality carried out by NABL, RSPCB and MoEF&CC accredited laboratory is attached as Annexure 1. The result are submitted to concern authority on regular basis. The average values of reporting period are given as below: <table border="1"> <thead> <tr> <th rowspan="2">Parameter</th> <th colspan="4">Average Value (in $\mu\text{g}/\text{m}^3$)</th> </tr> <tr> <th>Laboratory</th> <th>Near Railway gate</th> <th>Near ETP</th> <th>Near Solar</th> </tr> </thead> <tbody> <tr> <td>PM₁₀</td> <td>73.14</td> <td>73.30</td> <td>71.17</td> <td>76.73</td> </tr> <tr> <td>PM_{2.5}</td> <td>33.96</td> <td>36.32</td> <td>30</td> <td>36.10</td> </tr> <tr> <td>SO₂</td> <td>5.36</td> <td>5.45</td> <td>6.03</td> <td>5.6</td> </tr> <tr> <td>NO₂</td> <td>13.68</td> <td>12.27</td> <td>12.75</td> <td>14.59</td> </tr> </tbody> </table>	Parameter	Average Value (in $\mu\text{g}/\text{m}^3$)				Laboratory	Near Railway gate	Near ETP	Near Solar	PM ₁₀	73.14	73.30	71.17	76.73	PM _{2.5}	33.96	36.32	30	36.10	SO ₂	5.36	5.45	6.03	5.6	NO ₂	13.68	12.27	12.75	14.59
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5	<p>Fugitive emissions, acid mist vapours, fumes and SO₂ shall be controlled and work environment monitored for prevailing contaminants regularly. Fugitive dust emissions in the handling area and at various transfer points shall be minimized by provision of dust suppression system.</p> <p>Bag filters shall be installed in Roaster, calcine handling & storage section, Zn atomizing unit, Dross</p>	<ul style="list-style-type: none"> Monitoring of all said parameters is done regularly. For dust suppression regular water spraying is done. Also mechanized road sweeping machine has been deployed to clean roads. Bag filters are installed at said locations to control fugitive emissions All the roads are asphalted & cemented. To minimize the fugitive dust, mechanized vacuum dust cleaner is used for road sweeping/cleaning. 																													

	<p>milling section to control fugitive emissions.</p> <p>The company shall improve overall housekeeping by asphalting the internal roads and to reduce the generation of fugitive dust from vehicle movements.</p>	
6	<p>Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time.</p> <p>The treated wastewater shall be recycled in this plant as well as utilization for plantation purpose.</p>	<ul style="list-style-type: none"> • The sample of treated effluent are regularly collected and analyzed by NABL, RSPCB and MoEF&CC accredited laboratory as per IS & CPCB approved procedures & treated effluent conforms the limits prescribed by the Board. • The treated water is recycled and zero discharge is maintained.
7	<p>The project authorities must strictly comply with the rules and regulations with regards to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rule, 2003.</p> <p>Authorization from the state pollution control board must be obtained for collection, storage, treatment and disposal of hazardous waste.</p>	<ul style="list-style-type: none"> • Authorization issued by RSPCB under the HW Rules vide RPCB letter no. F(HSW)/Udaipur(Girwa)/7034(1)/2022-2023/7463-7465 Dtd: 17/03/2023, is valid up to date 31-12-2027. • Disposal / recycling / reuse of HWs is as per the revised Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
8	<p>The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures, etc. on all sources of noise generation.</p> <p>The ambient noise level should conform the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) to 70 dBA (nighttime).</p>	<ul style="list-style-type: none"> • Noise control measures including acoustic hoods, silencers, enclosures etc. have been provided on all sources of noise generation. • Ambient noise level is monitored by MoEF&CC, RSPCB & NABL approved laboratory. Report for the period October'22 to March'23 is attached as Annexure -5.
9	<p>Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.</p>	<ul style="list-style-type: none"> • Periodic Medical Examination for occupational health is done on regular basis and records are maintained. • A 16 bedded occupation health centre with

		<p>qualified doctor is available.</p>  <p>Occupational Health Center</p>  <p>Ambulance facility</p>								
10	The project proponent shall also comply with all the environmental protection measures and safeguards maintained as per the EIA/EMP/ risk analysis and DMP report.	<ul style="list-style-type: none"> Environmental protection measures and safeguards recommended in the EIA/EMP/risk analysis and DMP report have been implemented. For emission control, ESP, Bag houses, cyclone and gas cleaning tower have been installed with adequate stacks height for proper dispersion of emission. For Effluent Control, zero discharge is maintained through ETP, RO-ZLD and STP. For Hazardous waste management, best available technology being used for waste minimization and disposal of Hazardous waste is done as per Authorization conditions. 								
11	The project authorities shall provide Rs. 76.00 crores towards environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the Government and submit and implementation schedule for all the conditions stipulated herein to this	<ul style="list-style-type: none"> Incurred Rs. 76 Crore towards environmental pollution control measures. Breakup expenditure for Rs. 76 Crore is as under: <table border="1"> <thead> <tr> <th>Area/Equipments</th> <th>Cost (Rs. in Crores)</th> </tr> </thead> <tbody> <tr> <td>Acid Plant</td> <td>33.0</td> </tr> <tr> <td>Gas Cleaning</td> <td>16.0</td> </tr> <tr> <td>ESP,Bag Filter,Stacks</td> <td>13.0</td> </tr> </tbody> </table>	Area/Equipments	Cost (Rs. in Crores)	Acid Plant	33.0	Gas Cleaning	16.0	ESP,Bag Filter,Stacks	13.0
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Acid Plant	33.0									
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	<p>Ministry and its Regional Office at Lucknow. The funds so provided shall not be diverted for any other purposes.</p>	<table border="1"> <tr><td>Stack Analyser</td><td>0.5</td></tr> <tr><td>Covered conveyers</td><td>2.0</td></tr> <tr><td>Modification/addition in water/Effluent Treatment Facilities/RO Plant</td><td>5.0</td></tr> <tr><td>Solid waste disposal facilities (Jarosite SLF etc)</td><td>5.0</td></tr> <tr><td>Monitoring Facilities (Additional)</td><td>0.5</td></tr> <tr><td>Green belt</td><td>1.0</td></tr> <tr><td>Total</td><td>76.0</td></tr> </table>	Stack Analyser	0.5	Covered conveyers	2.0	Modification/addition in water/Effluent Treatment Facilities/RO Plant	5.0	Solid waste disposal facilities (Jarosite SLF etc)	5.0	Monitoring Facilities (Additional)	0.5	Green belt	1.0	Total	76.0	<p>The Environmental expenditure for last five years are as under:</p> <p>2017-2018 Rs. 92.31 Lacs 2018-2019 Rs. 171.94 Lacs 2019-2020 Rs. 522.98 Lacs 2020-2021 Rs. 1078 Lacs 2021-2022 Rs. 1193 Lacs 2022-2023 Rs. 1704.53 Lacs</p>
Stack Analyser	0.5																
Covered conveyers	2.0																
Modification/addition in water/Effluent Treatment Facilities/RO Plant	5.0																
Solid waste disposal facilities (Jarosite SLF etc)	5.0																
Monitoring Facilities (Additional)	0.5																
Green belt	1.0																
Total	76.0																
12	<p>The Regional Office of this Ministry at Lucknow, CPCB/RSPCB shall monitor the stipulated conditions. A six monthly compliance report and the monitored data along with statistical interpretation should be submitted to them regularly.</p>	<p>Compliance status is submitted regularly to the Ministry. Previous compliance of EC was submitted on 28.11.2022.</p> <p>The same is also available on following link at company website:</p> <p>https://www.hzlindia.com/wp-content/uploads/EC-Compliance_ZSD.pdf</p>															
13	<p>The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies if the clearance letter are available with the Rajasthan Pollution Control Board 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 newspaper 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.</p>	<p>Noted and informed.</p> <p>The information published in two local newspapers (Dainik Bhasker & Prthakal) on 25.03.2008). It was forwarded to regional office on date. 25.03.2008.</p>															
14	<p>The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure</p>	<p>Date of commencement of land development work is 4th January-2007.</p>															

	<p>and final approval of the project by the concerned authorities and the date of commencing the land development work</p>	
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TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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 ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S)

JDA/UDH

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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003475	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Deberi Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-11-2022
Point of Collection :	Laboratory Top	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	350	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.25	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
	Nitrogen Dioxide as NO2 [microgram/m3]	12.58	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	35.33	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	5.2	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	76.1	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	7.5	IS 5182 : Part 26 : 2020	20.00

Notes :-

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- # This report is not to be reproduced wholly or in part and can not be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
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Sunil Kumar

Rajesh Maheshwari

TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)

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TEST REPORT

Report No./ULR No. :	400003475	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-11-2022
Point of Collection :	Laboratory Top	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alpha-Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Sunil Kumar
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: 400003475)

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Email : director@teamtesthouse.com,

Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502522400003476	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-11-2022
Point of Collection :	Near Railway Gate	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	280	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	9.33	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	35.33	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	4.92	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	68.72	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	4.6	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Sunit Kumar

Rajesh Maheshwari

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TEST REPORT

Report No./ULR No. :	400003476	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-11-2022
Point of Collection :	Near Railway Gate	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

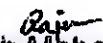
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Benzene [microgram/m ³]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alpha-Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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 Senior Analyst
Sunil Kumar


Rakesh Maheshwari
 Authorized Signatory
 (Report No: 400003476)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003477	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-11-2022
Point of Collection :	Near ETP	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	330	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.11	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
	Nitrogen Dioxide as NO2 [microgram/m3]	10.85	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	28.97	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	6.17	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	58.84	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	7.5	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Sunil Kumar


Rajesh Maheshwari

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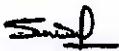
TEST REPORT

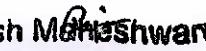
Report No./ULR No. :	400003477	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-11-2022
Point of Collection :	Near ETP	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

S.No	Parameters	RESULTS		
		Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Benzene [microgram/m ³]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alpha-Pyrene [ng/m ³]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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 Senior Analyst
Sunil Kumar


 Rajesh Manishwar
 Authorized Signatory
 (Report No: 400003477)

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Email : director@teamtesthouse.com,

Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522400003478	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-11-2022
Point of Collection :	Near DG Set	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

S.No	Parameters	RESULTS		
		Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	320	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.37	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	36.95	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	5	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	70.84	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	3.8	IS 5182 : Part 26 : 2020	20.00

Notes :-

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 Unil Kumar

Rajesh Maheshwari

TEAM TEST HOUSE
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TEST REPORT

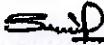
Report No./ULR No. :	400003478	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Air Quality Monitoring	Date of Sample Collection/Monitoring :	21-11-2022
Point of Collection :	Near DG Set	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Benzene [microgram/m3]	BDL (<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
2	Benzo-alpha-Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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 Senior Analyst
 Sunil Kumar


 Rajesh Maheshwari
 Authorized Signatory
 (Report No: 400003478)

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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400000659	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 14:42 to 18-03-2023 14:42
Point of Collection :	Laboratory Top	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwar Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	380	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
	Nitrogen Dioxide as NO2 [microgram/m3]	14.79	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	32.6	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	5.52	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	70.19	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	7.1	IS 5182 : Part 26 : 2020	20.00

Notes :-

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[Signature]
 Purushottam Yogi
 Senior Analyst

[Signature]
 Rajesh Mangeshwar
 Authorized Signatory
 (Report No: TC502523400000659)

TEAM TEST HOUSE
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400000659	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 14:42 to 18-03-2023 14:42
Point of Collection :	Laboratory Top	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kurnawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
11	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
12	Benzo-aifa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Pra. S
 Pra. S. Mal Yogi

Raj
 Authorized Signatory
 (Report No: 400000659)

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Phone : +91 9468222039, 9468222049.
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TEST REPORT

Report No./ULR No. :	TC502523400000660	Date :	01-04-2023.
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 14:43 to 18-03-2023 14:43
Point of Collection :	Near Railway Gate	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	410	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.22	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	37.32	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	5.99	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	77.89	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	6.9	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523400000660)

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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./JLR No. :	400000660	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 14:43 to 18-03-2023 14:43
Point of Collection :	Near Railway Gate	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
11	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
12	Benzo-alpha-Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Suraj Mital Yogi
Senior Analyst

Raj
Authorized Signatory
(Report No: 400000660)

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TEST REPORT

Report No./ULR No. :	TC502523400000661	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-03-2023 14:44 to 17-03-2023 14:44
Point of Collection :	Near ETP	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m ³]	BDL(<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m ³]	390	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.88	IS 5182 (Part 6) : 2008 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL(< 20)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m ³]	31.03	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m ³]	5.89	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m ³]	83.5	IS 5182 (Part 23)-2008 RA 2017	100.00
9	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m ³]	6.9	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Purnima Malhotra Yogi
 Senior Analyst

Rej
 Authorized Signatory
 (Report No: TC502523400000661)

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TEST REPORT

Report No./ULR No. :	400000661	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-03-2023 14:44 to 17-03-2023 14:44
Point of Collection :	Near ETP	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
11	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
12	Benzo-a-Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

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Prajw
 Senior Analyst.

Rajesh Maheshwari
 Rajesh Maheshwari
 Authorized Signatory
 (Report No: 400000661)

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TEST REPORT

Report No./ULR No. :	TC502523400000662	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-03-2023 14:49 to 17-03-2023 14:49
Point of Collection :	Near Solar	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	430	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.14	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
	Nitrogen Dioxide as NO2 [microgram/m3]	14.82	IS 5182 (Part 6) : 2008 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	35.26	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	6.2	IS 5182 (Part 2) : 2001 RA 2017	60.00
8	Particulate Matter (PM 10) [microgram/m3]	82.62	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	7	IS 5182 : Part 26 : 2020	20.00

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Preet
Senior Analyst

Rajeev
Authorized Signatory
(Report No: TC502523400000662)

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TEST REPORT

Report No./ULR No. :	400000662	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	16-03-2023 14:49 to 17-03-2023 14:49
Point of Collection :	Near Solar	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS				
S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
11	Benzene [microgram/m3]	BDL(<1.0)	IS 5182 (Part 11) : 2012 RA 2017	5.00
12	Benzo-a-Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

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Sur
 Senior Analyst/AI Yogi

Rajesh
 Authorized Signatory
 (Report No: 400000662)

Annex -②

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TEST REPORT

Report No./ULR No.:	TC502522500001595	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	Zinc Melting Furnace	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	31.69	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
 Senior Analyst

Rajesh Mahesnwan
Rajesh Mahesnwan
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 (Report No: TC502522500001595)

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TEST REPORT

Report No./ULR No.:	TC502522500001596	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	Induction Furnace Stack	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	28.32	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
 Senior Analyst

Rakesh Maheshwari
Rakesh Maheshwari
 Authorized Signatory
 (Report No: TC502522500001596)

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TEST REPORT

Report No./ULR No. :	TC502522500001597	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	Azex Furnace	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	21.8	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
 Senior Analyst

Rajesh Mehta
 Rajesh Mehta
 Authorized Signatory
 (Report No: TC502522500001597)

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TEST REPORT

Report No./ULR No. :	TC50252250001598	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	Slag Grinding	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navedita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	22.19	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: TC50252250001598)

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TEST REPORT

Report No./ULR No. :	TC502522500001599	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	Auxiluray Boiler Stack	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	35.67	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522500001599)

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RSPCB

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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500001600	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	123.6	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Puran *[Signature]*
Senior Analyst

[Signature]
Rakesh Maheshwari
Authorized Signatory
(Report No: TC502522500001600)



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RSPCB	ISO 9001:2015,	ISO 14001:2015,	ISO 45001:2018 (OH&S)
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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	500001600	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Acid Mist [mg/m3]	25.6	USEPA Method 8A

Notes :-

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Puran *Praveen*
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 500001600)

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TEST REPORT

Report No./JLR No. :	TC502522500001601	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection	Stack Roaster III	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	124.3	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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P. S. S. A. M. Yogi
P. S. S. A. M. Yogi

Rakesh Maheshwari
Rakesh Maheshwari
Authorized Signatory
(Report No: TC502522500001601)

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TEST REPORT

Report No./ULR No.:	500001601	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Acid Mist [mg/m ³]	26.4	USEPA Method 8A

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 500001601)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500001689	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Zinc Melting Furnace	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	28.49	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Suraj
Senior Analyst
Chiril Kumar

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500001689)

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TEST REPORT

Report No./ULR No. :	TC502522500001691	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Azex Fumace	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	25.99	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst
Suhil Kumar

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522500001691)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500001693	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	121.21	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Suraj Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500001693)

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TEST REPORT

Report No./ULR No. :	TC502522500001694	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	118.86	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Sunil Kumar
Senior Analyst
Sunil Kumar

Rakesh Maheshwar
Authorized Signatory
(Report No: TC502522500001694)

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TEST REPORT

Report No./ULR No. :	TC502522500001764	Date :	26-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Zinc Melting Furnace	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 26-12-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	25.85	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Rajesh Yogi
 Senior Analyst

Rajesh Maheswaran
 Authorized Signatory
 (Report No: TC502522500001764)

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TEST REPORT

Report No./ULR No. :	TC502522500001766	Date :	26-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Azex Furnace	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 26-12-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	26.15	IS 11255 (Part 1);1985 Reaffirmed 2014

Notes :-

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✓ Senior Analyst : *V. K. Y.*

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522500001766)

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TEST REPORT

Report No./ULR No. :	TC502522500001768	Date :	26-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	04-12-2022
Point of Collection :	Auxiluray Boiler Stack	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 26-12-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	19.01	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Rajesh
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522500001768)

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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	500001769	Date :	26-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	12-12-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 26-12-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Acid Mist [mg/m3]	24.6	USEPA Method 8A

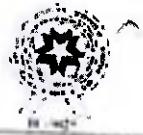
Notes :-

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Senior Analyst
 Purushottam YOGI

(Signature)
 Rajesh Maheshwari
 Authorized Signatory
 (Report No: 500001769)

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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000098	Date :	06-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	Zinc Melting Furnace	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 06-02-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	26.8	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

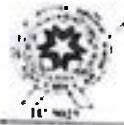
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Purnawati Yogi
 Senior Analyst

Purnawati Yogi
 Authorized Signatory
 (Report No: TC502523500000098)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./JLR No. :	TC502523500000099	Date :	06-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	Azex Furnace	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 06-02-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	26.95	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Puran Mal Yogi

Senior Analyst

Rajeshwar Singh
Rajeshwar Singh
Authorized Signatory

(Report No: TC502523500000099)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000097	Date :	06-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	Induction Furnace Stack	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 06-02-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	23.1	IS 11255 (Part 1):1985 Reaffirmed 2014

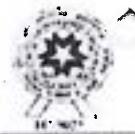
Notes :-

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Purnima Yogi .
Senior Analyst

Rajiv Singh
Authorized Signatory
(Report No: TC502523500000097)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000101	Date :	06-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Mines
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	Auxiluray Boiler Stack	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 06-02-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	19.69	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Purnima Yogi
Senior Analyst

Rajeev
'Authorized Signatory
(Report No: TC502523500000101)

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TEST REPORT

Report No./ULR No. :	TC502523500000201	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Zinc Melting Furnace	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	29.37	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Neha
 Senior Analyst

Rakesh Maheshwari
 Authorized Signatory
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Report No./JLR No. :	TC502523500000203	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Azex Furnace	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	30.47	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst

R.B. Saini, B.Tech.

Authorized Signatory

(Report No: TC502523500000203)

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TEST REPORT

Report No./ULR No. :	TC502523500000202	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Induction Furnace Stack	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	26.77	IS 11255 (Part 1):1985 Reaffirmed 2014

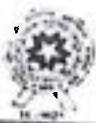
Notes :-

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Mr. Yogi
 Senior Analyst/Mal Yogi

Rajesh
 Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502523500000202)

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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000310	Date :	04-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	17-03-2023
Point of Collection :	Zinc melting Stack	Date of Receipt :	20-03-2023
Date of Test/Analysis :	20-03-2023 to 01-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kunawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	29.14	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mai Yogi
 Senior Analyst

Rajesh Mehta
 Authorized Signatory
 (Report No: TC502523500000310)

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Email : marketinglab@teamtesthouse.com



TEST REPORT

Report No./ULR No.:	TC502523500000309	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	17-03-2023
Point of Collection :	Azex Furnace	Date of Receipt :	20-03-2023
Date of Test/Analysis :	20-03-2023 to 01-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	39.19	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Neeta
Senior Analyst

Rey
Authorized Signatory
(Report No: TC502523500000309)

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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502523500000308	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	17-03-2023
Point of Collection :	Induction Furnace Stack	Date of Receipt :	20-03-2023
Date of Test/Analysis :	20-03-2023 to 01-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	36.6	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Prayag
Prayag Vimal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523500000308)

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TEST REPORT

Report No./ULR No. :	TC502523500000102	Date :	06-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 06-02-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vinal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	120	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Purnima Mal Yogi

Senior Analyst

Signature

Authorized Signatory

(Report No: TC502523500000102)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

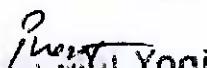
Report No./ULR No. :	500000102	Date :	06-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 06-02-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	23.7	USEPA Method 8A

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 500000102)

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TEST REPORT

Report No./ULR No. :	TC502523500000103	Date :	06-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 06-02-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	119	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Purna Mai Yogi
Purna Mai Yogi
Senior Analyst

Brijendra Singh
Brijendra Singh
Authorized Signatory
(Report No: TC502523500000103)



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TEST REPORT

Report No./JLR No. :	500000103	Date :	06-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 06-02-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m ³]	23.5	USEPA Method 8A

Notes :-

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Praj
Senior Analyst
Mal Yogi

Raj
...WARI
Authorized Signatory
(Report No: 500000103)

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TEST REPORT

Report No./ULR No. :	TC502523500000205	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	120.4	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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R. Maheshwari
Senior Analyst

R. Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523500000205)

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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	500000205	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	27.5	USEPA Method 8A

Notes :-

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P. Yogi
 Senior Analyst | Yogi

Rajesh Maheshwari
 Authorized Signatory
 (Report No: 500000205)

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TEST REPORT

Report No./ULR No. :	TC502523500000206	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	117.2	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Puran Mat Yogi
Senior Analyst

Ref:
Rakesh Maheshwari
Authorized Signatory

(Report No: TC502523500000206)



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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./JLR No. :	500000206	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m ³]	25.6	USEPA Method 8A

Notes :-

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Neha Maheshwari
 Senior Analyst

Rej
 Authorized Signature
 (Report No: 500000206)

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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000312	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	20-03-2023
Date of Test/Analysis :	20-03-2023 to 01-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	118.5	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Please
Senior Analyst/Sci. Asst. Yogi

Rej
Authorized Signatory
(Report No: TC502523500000312)

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TEST REPORT

Report No./JLR No. :	500000312	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	20-03-2023
Date of Test/Analysis :	20-03-2023 to 01-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	23.6	USEPA Method 8A

Notes :-

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Pls
Senior Analyst

Raj
Neha Maheshwari
Authorized Signatory
(Report No: 500000312)

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TEST REPORT

Report No./ULR No. :	TC502523500000313	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	120.4	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Suraj Mai Yogi
 Senior Analyst

Raj
 Authorized Signatory
 (Report No: TC502523500000313)



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TEST REPORT

Report No./JLR No. :	500000313	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	29.5	USEPA Method 8A

Notes :-

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Prayag
 Senior Analyst / Yogi

Raj
 Authorized Signatory
 (Report No: 500000313)

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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200002514	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	ETP Outlet	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	27	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	9	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	456.03	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	67.87	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.26	APHA:2017 : 4500-F-C	2.0
7	pH	7.15	APHA:2017 : 4500 H+B	5.5 - 9.0
8	Sulphide as S [mg/l]	BDL(<0.1)	APHA. 2017 : 4500-S2-F	2
9	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B	2.0
10	Copper [mg/l]	0.04	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.04	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	0.02	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.21	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10

Notes :-

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Sunil Kumar

(Signature)

Rajesh Maheshwar



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TEST REPORT

Report No./ULR No. :	TC502522200002753	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	ETP Outlet	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	6	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	9.33	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	202.49	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	67.57	APHA:2017 : 5220-C	250
	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	0.57	APHA:2017 : 4500-F-C	2.0
7	pH	7.09	APHA:2017 : 4500 H+B	5.5 - 9.0
8	Sulphide as S [mg/l]	BDL (< 0.1)	APHA. 2017 : 4500-S2-F	2
9	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B	2.0
10	Copper [mg/l]	0.02	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.08	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10

Notes :-

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Sunit Kumar

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Rajesh Maheshwari
 Rajesh Maheshwari

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200002896	Date :	23-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	ETP Outlet	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 23-12-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	11	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	9.75	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	206.96	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	79.87	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	0.72	APHA:2017 : 4500-F-C	2.0
7	pH	7.21	APHA:2017 : 4500 H+B	5.5 - 9.0
8	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
9	Cadmium [mg/l]	BDL (< 0.001)	APHA :2017 :3111- B	2.0
10	Copper [mg/l]	BDL (< 0.01)	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	BDL (< 0.01)	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL (< 0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	BDL (< 0.01)	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	BDL (< 0.01)	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10

Notes :-

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TEST REPORT

Report No./ULR No. :	TC502523200000229	Date :	07-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	ETP Outlet	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 07-02-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	4	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	5	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	674.97	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	19.97	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.02	APHA:2017 : 4500-F-C	2.0
7	pH	7.89	APHA:2017 : 4500 H+B	5.5 - 9.0
8	Sulphide as S [mg/l]	BDL(<0.1)	APHA. 2017 : 4500-S2-F	2
9	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B	2.0
10	Copper [mg/l]	0.05	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.13	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.04	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523200000229)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./JLR No.:	TC502523200000412	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	ETP Outlet	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	29	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	6.33	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	688.79	APHA 2017 : 4500-Cl-B	-
4	Chemical Oxygen Demand (COD) [mg/l]	19.04	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500-CN D	0.2
6	Fluoride [mg/l]	1.24	APHA:2017 : 4500-F-C	2.0
7	pH	7.94	APHA:2017 : 4500 H+B	5.5 - 9.0
8	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
9	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B	2.0
10	Copper [mg/l]	0.40	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.09	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	0.07	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.29	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523200000412)

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 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523200000620	Date :	30-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection	ETP Outlet	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 30-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	13	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	8	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	601.16	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	31.14	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.19	APHA:2017 : 4500-F-C	2.0
7	pH	7.65	APHA:2017 : 4500 H+B	5.5 - 9.0
8	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
9	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B	2.0
10	Copper [mg/l]	0.05	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.04	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	0.08	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.03	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10

Notes :-

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S. Kumar
 Senior Analyst

Rajesn Maheshwari
 Authorized Signatory
 (Report No: TC502523200000620)

Annex - ④

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TEST REPORT

Report No./ULR No. :	TC502522200002513	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	20	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	7.77	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	8.14	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	58.18	APHA:2017 : 5220-C	250
5	pH	7.11	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
7	Nitrate as NO ₃ [mg/l]	18.10	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sunit Kumar

Rajesh Maheshwari
 Rajesh Maheshwari
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 (Report No: TC502522200002513)

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TEST REPORT

Report No./ULR No. :	TC502522200002752	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	35	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	10.32	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	9.5	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	52.08	APHA:2017 : 5220-C	250
5	pH	7.18	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
7	Nitrate as NO ₃ [mg/l]	25	APHA 2017 : 4500-NO3- B	50

Notes :-

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TEST REPORT

Report No./ULR No. :	TC502522200002895	Date :	23-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 23-12-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

S.No	Parameters	RESULTS		
		Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	28	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	7.35	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	8.57	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	65.92	APHA:2017 : 5220-C	250
5	pH	7.22	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
7	Nitrate as NO ₃ [mg/l]	27.45	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sunil kumar
 Sunil kumar
 Senior Analyst

Rajesh
 Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522200002895)

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Email : marketing@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523200000228	Date :	07-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 07-02-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	38	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	16.56	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	21.82	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	152.06	APHA:2017 : 5220-C	250
5	pH	7.39	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	6	APHA 2017 : 5520 B	10
7	Nitrate as NO ₃ [mg/l]	24.85	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sunil Kumar
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523200000228)

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(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC50252320000411	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	34	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	9.91	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	8.14	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	35.36	APHA:2017 : 5220-C	250
5	pH	7.43	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10
7	Nitrate as NO ₃ [mg/l]	14.93	APHA 2017 : 4500-NO3- B	50

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Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC50252320000619	Date :	30-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 30-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Banwarlal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	39	APHA 2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	7.48	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	7.71	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	45.7	APHA:2017 : 5220-C	250
5	pH	7.09	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10
7	Nitrate as NO ₃ [mg/l]	12.47	APHA 2017 : 4500-NO3- B	50

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[Signature]
Senior Analyst, TTS

[Signature]
Rajesh Maheshwari
Authorized Signatory
(Report No: TC50252320000619)

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TEST REPORT

Report No./ULR No. :	TC502522200002516	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	APHA 2017 : 1080
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

S.No	Parameters	RESULTS Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	6	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	2.88	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	7.57	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	48.48	APHA:2017 : 5220-C	250
5	pH	7.28	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
7	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	1.0
8	Nitrate as NO ₃ [mg/l]	18.26	APHA 2017 : 4500-NO ₃ - B	50
9	Bioassay test	100 % Survival of Fish after 96 hrs in 100 % Dilution	IS 6582 :1971	90 % Survival of Fish after 96 hours in 100 % Effluent

Notes :-

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Rajesh Maheshwari
 Authorised Signatory

(Report No: TC502522200002516)

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TEST REPORT

Report No./ULR No. :	200002516	Date :	03-11-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	21-10-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	22-10-2022
Date of Test/Analysis :	22-10-2022 to 03-11-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Faecal coliform (MPN/100ml)	Not Detected	IS 1622 : 1981	-

Notes :-

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S.K
Sunil Kumar

Raf
Authorized Signatory
Rajesh Mehta
Report No: 200002516

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TEST REPORT

Report No./ULR No. :	TC502522200002755	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

S.No	Parameters	RESULTS Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	22	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	2.71	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	13.33	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	92.29	APHA:2017 : 5220-C	250
5	pH	7.22	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
7	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	1.0
8	Nitrate as NO ₃ [mg/l]	11.54	APHA 2017 : 4500-NO ₃ - B	50
9	Bioassay test	100 % Survival of Fish after 96 hrs in 100 % Dilution	IS 6582 :1971	90 % Survival of Fish after 96 hours in 100 % Effluent

Notes :-

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Suraj
 Senior Analyst
 Sunil Kumar

Rakesh Maheshwari
 Authorized Signatory
 (Report No: TC502522200002755)

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TEST REPORT

Report No/ULR No. :	200002755	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	-

Notes :-

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Surf
 Senior Analyst
Vimal Kumar

By
 Authorized Signatory
 (Report No: 200002755)

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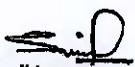
TEST REPORT

Report No./ULR No. :	TC502522200002898	Date :	23-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 23-12-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

S.No	Parameters	RESULTS	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	23		APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	4.02		APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	9.6		APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	73.22		APHA:2017 : 5220-C	250
5	pH	7.15		APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	3		APHA 2017 : 5520 B	10
7	Total Residual Chlorine [mg/l]	BDL (<0.1)		APHA 2017 : 4500- Cl- B	1.0
8	Nitrate as NO ₃ [mg/l]	14.85		APHA 2017 : 4500-NO3- B	50
9	Bioassay test	90 % Survival of Fish after 96 hrs in 100 % Dilution		IS 6582 :1971	-

Notes :-

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 Sunil Kumar
 Senior Analyst


 Rajesh Maheshwari
 Authorized Signatory
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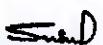
TEST REPORT

Report No./ULR No. :	200002898	Date :	23-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 23-12-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

S.No	Parameters	RESULTS		
		Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	-

Notes :-

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 Senior Analyst


 Rajesh Maheshwari
 Authorized Signatory
 (Report No: 200002898)

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TEST REPORT

Report No./ULR No. :	TC50252320000231	Date :	07-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 07-02-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	27	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	10.45	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	11.2	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	84.48	APHA:2017 : 5220-C	250
5	pH	7.35	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
7	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	1.0
8	Nitrate as NO ₃ [mg/l]	11.83	APHA 2017 : 4500-NO3- B	50
9	Bioassay test	90 % Survival of Fish after 96 hrs in 100 % Dilution	IS 6582 :1971	90 % Survival of Fish after 96 hours in 100 % Effluent

Notes :-

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Sunil Kumar
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC50252320000231)



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TEST REPORT

Report No./ULR No. :	200000231	Date :	07-02-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	31-01-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	02-02-2023
Date of Test/Analysis :	02-02-2023 to 07-02-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
10	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	1000

Notes :-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 200000231)

TEAM TEST HOUSE
(Unit of Team Institute of Science & Technology Pvt. Ltd.)



Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory
 ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OHSAS) JDAUDH
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 Email : director@teamtesthouse.com,
 Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523200000414	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

S.No	Parameters	RESULTS		
		Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	20	APHA 2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	16.56	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	9.67	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	68.54	APHA:2017 : 5220-C	250
5	pH	7.17	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
7	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl-B	1.0
8	Nitrate as NO ₃ [mg/l]	4.89	APHA 2017 : 4500-NO3- B	50
9	Bioassay test	90 % Survival of Fish after 96 hrs In 100 % Dilution	IS 6582 : 1971	90 % Survival of Fish after 96 hours in 100 % Effluent

Notes :-

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Sunil Kumar
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502523200000414)

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RSPCB ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 (OH&S) JDA/UDH

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TEST REPORT

Report No./ULR No. :	200000414	Date :	08-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	25-02-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	27-02-2023
Date of Test/Analysis :	27-02-2023 to 08-03-2023	Sampling Plan :	APHA 2017 : 1080
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS				
S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
10	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	1000

Notes :-

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Sunil Kumar
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 200000414)

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TEST REPORT

Report No./LRL No. :	TC502523200000622	Date :	30-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 30-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	9	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	9.57	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	8.8	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	58.75	APHA:2017 : 5220-C	250
5	pH	7.29	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
7	Total Residual Chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- CI- B	1.0
8	Nitrate as NO3 [mg/l]	5.72	APHA 2017 : 4500-NO3- B	50
9	Bioassay test	90% survival of fish after 96 hrs in 100% dilution	IS 6582 :1971	90 % Survival of Fish after 96 hours in 100 % Effluent

Notes :-

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S. J.
 Senior Analyst
 Sunit Kumar

Day:
 Authorized Signatory
 (Report No: TC502523200000622)

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TEST REPORT

Report No./ULR No. :	200000622	Date :	30-03-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 30-03-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
10	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	1000

Notes :-

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[Signature]
Senior Analyst

[Signature]
Authorized Signatory . . .
(Report No: 200000622)



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TEST REPORT

Report No./ULR No. :	TC502522100002441	Date :	31-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / -	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Perizometer No.-1	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 31-12-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.56	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram Agarwal
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522100002441)



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TEST REPORT

Report No./ULR No. :	TC502522100002443	Date :	31-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / -	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Perimeter No.-3	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 31-12-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.38	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
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(Report No: TC502522100002443)



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TEST REPORT

Report No./ULR No. :	TC502522100002444	Date :	31-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / -	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Perizometer No.-4	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 31-12-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.59	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502522100002445	Date :	31-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / -	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Peizometer No.-5	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 31-12-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.64	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.07	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502522100002446	Date :	31-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / -	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Peizometer No.-6	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 31-12-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.71	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram
Balram Agarwal
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Rajesh
Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502522100002447	Date :	31-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / -	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Pelzometer No.-7	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 31-12-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.49	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100002447)



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TEST REPORT

Report No./ULR No. :	TC502522100002448	Date :	31-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / -	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Perizometer No.-8	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 31-12-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.65	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100002448)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100002449	Date :	31-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / -	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Perizometer No.-9	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 31-12-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.41	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100002449)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522100002450	Date :	31-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / -	Date of Sample Collection/Monitoring :	13-12-2022
Point of Collection :	Perizometer No.-10	Date of Receipt :	16-12-2022
Date of Test/Analysis :	16-12-2022 to 31-12-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.44	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Balram Agarwal
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100002450)



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TEST REPORT

Report No./ULR No. :	TTH/SA/HZL/D/2022-23/01	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan)	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection	Peizometer No.-1	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.80	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2019

Notes -

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Senior Analyst
Purushottam Togi

Authorized Signatory
Rajeshwaran
(Report No: TTH/SA/HZL/D/2022-23/01)



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TEST REPORT

Report No./LRL No.	TTH/SA/HZL/D/2022-23/02	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Peizometer No.-2	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.53	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.04	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Senior Analyst

Rutumini Yogi

Authorized Signatory
(Report No: TTH/SA/HZL/D/2022-23/02)



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TEST REPORT

Report No./ULR No. :	TTH/SA/HZL/D/2022-23/03	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Perizometer No.-3	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.56	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.08	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Senior Analyst
PUNEET KUMAR MODI

Authorized Signatory
(Report No: TTH/SA/HZL/D/2022-23/03)



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Report No./ULR No :	TTH/SA/HZL/D/2022-23/04	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Perimeter No.-4	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.63	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.06	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Senior Analyst
Neha Maheshwari

Authorized Signatory
Banwari Lal Kumawat
(Report No: TTH/SA/HZL/D/2022-23/04)



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Report No./ULR No. :	TTH/SA/HZL/D/2022-23/05	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Perizometer No.-5	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 3025.1987(Part 1)RA 2014
Quantity of Sample :	1 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.89	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Senior Analyst : *[Signature]*
Vikas Yogi

Authorized Signatory
(Report No: TTH/SA/HZL/D/2022-23/05)



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Report No./ULR No. :	TTH/SA/HZL/D/2022-23/06	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari ZincSmelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Peizometer No.-6	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.58	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.02	IS 3025 (Part 49) : 1994 RA 2019

Notes :

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Priya
Senior Analyst

Raj
Authorized Signatory
(Report No: TTH/SA/HZL/D/2022-23/06)



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Report No./ULR No. :	TTH/SA/HZL/D/2022-23/07	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Perizometer No.-7	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.65	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.01	IS 3025 (Part 49) : 1994 RA 2019

Notes -

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Senior Analyst
Neha Maheshwari

Authorized Signatory
(Report No: TTH/SA/HZL/D/2022-23/07)



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Report No./ULR No.:	TTH/SA/HZL/D/2022-23/08	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari ZincSmelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Perizometer No.-8	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.79	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.06	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TTH/SA/HZL/D/2022-23/08)



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Report No./ULR No. :	TTH/SA/HZL/D/2022-23/09	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection	Peizometer No.-9	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.74	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994 RA 2019

Notes -

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Senior Analyst : *[Signature]*
Purnima Yogi

Authorized Signatory : *[Signature]*
Rajendra Singh
(Report No: TTH/SA/HZL/D/2022-23/09)



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TEST REPORT

Laboratory : G1-584, RIICO Industrial Area,
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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

Report No./ULR No. :	TTH/SA/HZL/D/2022-23/10	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Peizometer No.-10	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	1 Ltr	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.74	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.05	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Senior Analyst
Furnish test result

Authorized Signatory
(Report No: TTH/SA/HZL/D/2022-23/10)



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TEST REPORT

Report No./ULR No. :	TC502522600002327	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near Environmental lab	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.7	IS 9989	70

Notes :-

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Sunil Kumar
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522600002327)



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TC-5025

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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002328	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near Railway Gate/ SRP	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.8	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Senior Analyst
Sunil Kumar

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002328)



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(Unit of Team Institute of Science & Technology Pvt. Ltd.)



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Phone : +91 6377210064, 9414077379,
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TEST REPORT

Report No./ULR No. :	TC502522600002329	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near ETP	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	58.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	50.2	IS 9989	70

Notes :-

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Senior Analyst
Sunil Kumar

Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502522600002330	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near DG Set Room	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.5	IS 9989	70

Notes :-

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Sunil Kumar
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522600002330)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002331	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near ZSD Main Gate	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTI/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.6	IS 9989	70

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002331)

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TEST REPORT

Report No./ULR No. :	TC502522600002332	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near ZE	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTT/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	66.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.4	IS 9989	70

Notes :-

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Sunil Kumar
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522600002332)



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TEST REPORT

Report No./ULR No. :	TC502522600002333	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near Weigh Bridge	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	63.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.3	IS 9989	70

Notes :-

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Sunil Kumar
 Senior Analyst

Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522600002333)



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TEST REPORT

Report No./ULR No. :	TC502522600002334	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near Leaching	Date of Receipt :	26-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.0	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.6	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Senior Analyst
Sunil Kumar

Rakesh Maheshwari
 Authorized Signatory
 (Report No: TC502522600002334)



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TEST REPORT

Report No./ULR No. :	TC502522600002335	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near MCTP Entrance	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	59.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	47.4	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Sunit Kumar
Sunit Kumar
Senior Analyst

Rajesh Mehta
Rajesh Mehta
Authorized Signatory
(Report No: TC502522600002335)



TEAM TEST HOUSE
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TEST REPORT

Report No./ULR No.:	TC502522600002336	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near Roaster	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	+	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	62.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.3	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Sunit Kumar
 Sunit Kumar
 Senior Analyst

Rajesh Maheshwari
 Rajesh Maheshwari
 Authorized Signatory
 (Report No: TC502522600002336)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002337	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near Work Shop	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	62.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.0	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Senior Analyst
Sunil Kumar

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522600002337)



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TEST REPORT

Report No./ULR No. :	TC502522600002338	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near Solar Area	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.5	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Sunil Kumar
 Senior Analyst

Rakesh Maheshwari
 Authorized Signatory
 (Report No: TC502522600002338)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002339	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near Hospital	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	52.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	44.2	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Senior Analyst
Sunil Kumar

Rakesh Maheshwari
Authorized Signatory
(Report No: TC502522600002339)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002340	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near STP	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	60.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.7	IS 9989	70

Notes :-

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Sunit Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522600002340)



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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600002341	Date :	02-12-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	22-11-2022
Point of Collection :	Near Store	Date of Receipt :	25-11-2022
Date of Test/Analysis :	25-11-2022 to 02-12-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	58.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	43.8	IS 9989	70

Notes :-

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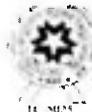
Sunil
Sunil Kumar
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522600002341)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000520	Date :	07-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:08 to 18-03-2023 16:08
Point of Collection :	Near Environmental lab	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	58.6	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Senior Analyst : Yogi

Prof. Ms. Neha Maheshwari
Authorized Signatory
(Report No: TC502523600000520)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000521	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-03-2023
Point of Collection :	Near Railway Gate/ SRP	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	63.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.6	IS 9989	70

Notes :-

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Prashant
Senior Analyst

Par
Raresh Maheshwari
Authorized Signatory
(Report No: TC502523600000521)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600000522	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:10 to 18-03-2023 16:10
Point of Collection :	Near ETP	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1996
1	Noise Level (Day Time) : Leq [dB(A)]	69.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	60.4	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Senior Analyst : *[Signature]* Yogi

[Signature]
Authorized Signatory
(Report No: TC502523600000522)

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Email : marketinglab@teamtesthouse.com

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Report No./ULR No. :	TC502523600000523	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:10 to 18-03-2023 16:11
Point of Collection	Near DG Set Room	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	67.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	60.7	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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[Signature]
Senior Analyst

[Signature]
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000523)

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Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502523600000524	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:11 to 18-03-2023 16:11
Point of Collection :	Near ZSD Main Gate	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	71.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	62.8	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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P. Yogi
Pawan Mal Yogi
Senior Analyst

R. Maheshwari
Rakesh Maheshwari
Authorized Signatory
(Report No: TC502523600000524)



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TEST REPORT

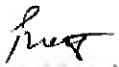
Report No./ULR No. :	TC502523600000525	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:12 to 18-03-2023 16:12
Point of Collection :	Near ZE	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	69.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	61.3	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Senior Analyst


Authorized Signatory
(Report No: TC502523600000525)



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TEST REPORT

Report No./ULR No.:	TC502523600000526	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:13 to 18-03-2023 16:13
Point of Collection :	Near Weigh Bridge	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.8	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Priya
Priya Mal Yogi
Senior Analyst

Raj
Raj
Authorized Signatory www.teamtesthouse.com
(Report No: TC502523600000526)



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Email : marketinglab@teamtesthouse.com

JDA/UDH

TEST REPORT

Report No./ULR No. :	TC502523600000527	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:14 to 18-03-2023 16:15
Point of Collection :	Near Leaching	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	67.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	59.5	IS 9989	70

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Rajesh Yogi
Senior Analyst

Rajesh Yogi
Authorized Signatory

(Report No: TC502523600000527)



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TEST REPORT

Report No./ULR No. :	TC502523600000528	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:15 to 18-03-2023 16:15
Point of Collection :	Near MCTP Entrance	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	73.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	65.2	IS 9989	70

Notes :-

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[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No: TC502523600000528)



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TEST REPORT

Report No./ULR No. :	TC502523600000529	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:16 to 18-03-2023 16:16
Point of Collection :	Near Roaster	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kurnawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	71.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	61.8	IS 9989	70

Notes :-

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P. S. Jogi
P. S. Jogi
Senior Analyst

Neeta Maheshwari
Neeta Maheshwari
Authorized Signatory
(Report No: TC502523600000529)



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TEST REPORT

Report No./ULR No. :	TC502523600000530	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:17 to 18-03-2023 16:17
Point of Collection	Near Work Shop	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	66.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.5	IS 9989	70

Notes :-

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Preeti
Senior Analyst

Rajeev
Authorized Signatory
(Report No: TC502523600000530)



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TEST REPORT

Report No./ULR No. :	TC502523600000531	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:18 to 18-03-2023 16:18
Point of Collection :	Near Solar Area	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.7	IS 9989	70

Notes :-

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Senior Analyst Nisha Yogi

Authorized Signatory
(Report No: TC502523600000531)

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TEST REPORT

Report No./ULR No. :	TC502523600000532	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:18 to 18-03-2023 16:19
Point of Collection :	Near STP	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.9	IS 9989	70

Notes :-

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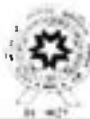
Senior Analyst : *[Signature]*

Authorized Signatory
(Report No: TC502523600000532)



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TEST REPORT

Report No./JLR No. :	TC502523600000533	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:20 to 18-03-2023 16:20
Point of Collection :	Near Hospital	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	44.3	IS 9989	70

Notes :-

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Priya
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600000533)

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TEST REPORT

Report No./ULR No. :	TC502523600000534	Date :	01-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-03-2023 16:20 to 18-03-2023 16:20
Point of Collection :	Near Store	Date of Receipt :	21-03-2023
Date of Test/Analysis :	21-03-2023 to 01-04-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	60.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.2	IS 9989	70

Notes :-

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P. Patel

Senior Analyst

Mal Yogi

Raj

Authorized Signatory
(Report No: TC502523600000534)