

REGISTERED A.D.

DZS/ENV/A-01/ENV/2022/

Date: 28/11/2022

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 April 2022 to September 2022 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

o/c

Hindustan Zinc Limited

Zinc Smelter, Debari, Udaipur 313 024

T +91-2942658028 F +91-2942658147 www.hzindia.com

Registered Office: Yashad Bhawan, Udaipur (Rajasthan)- 313 004

CIN : L27204RJ1966PLC001208



HINDUSTAN ZINC

Zinc & Silver of India

**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 April 2022 to 30th September 2022**

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

November, 2022

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 21-22)
1	Zinc Smelter	Zn: 1,00,000 TPA	1968	70145 MT

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
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)/6776(1)/2020-2021/5997-5999 Dtd 19/03/2021

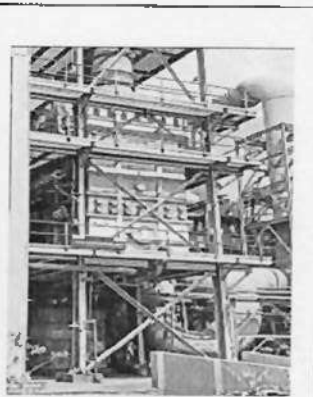
Name of the project: Expansion of Zinc Smelter (80,000 TPA to 1,00,000 TPA) at Debari, Udaipur Rajasthan by M/s Hindustan Zinc Ltd. – Environmental clearance regarding

Project Code:

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

Period of Compliance Report: 01st April 2022 to 30th September 2022

Specific Conditions:

Sr.No	Condition	Compliance Status
1	The company shall install on-line stack emission monitoring equipments for continuous monitoring of SO ₂ , NO _x , SPM and O ₂ and all the pollution control measures shall be inter-locked. 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 SO₂, NO_x, SPM and O₂ emission are installed and connected to PCB server. All PCEs are interlocked. AAQ monitoring reports for the period April 2022 to sept 2022 are attached as Annexure – 1 and also reported to Pollution Control Board.    

2	SO ₂ emissions shall be controlled less than 1.5 Kg/ton of Sulphuric acid (H ₂ SO ₄) produced and acid mist less than 50 mg/Nm ³ .	SO₂ & Acid mist have been monitored on regular basis. <table><tr><th rowspan="2">Parameter Month</th><th colspan="2">Roaster-2</th><th colspan="2">Roaster-3</th></tr><tr><th>SO2 (mg/N m3)</th><th>Acid Mist (mg/N m3)</th><th>SO2 (mg/N m3)</th><th>Acid Mist (mg/N m3)</th></tr><tr><td>Apr' 22</td><td>117</td><td>26.3</td><td>120</td><td>24.5</td></tr><tr><td>May'22</td><td>122</td><td>26.7</td><td>115</td><td>28.5</td></tr><tr><td>June' 22</td><td>123.6</td><td>25.3</td><td>119.6</td><td>23.8</td></tr><tr><td>July'22</td><td>125</td><td>28.2</td><td>122</td><td>27.2</td></tr><tr><td>Aug'22</td><td>123</td><td>25.7</td><td>121</td><td>26.3</td></tr><tr><td>Sep'22</td><td>85.64</td><td>32.9</td><td>124</td><td>29.6</td></tr></table> All stack monitoring reports for the period April'22 to September'22 are attached as Annexure – 1	Parameter Month	Roaster-2		Roaster-3		SO2 (mg/N m3)	Acid Mist (mg/N m3)	SO2 (mg/N m3)	Acid Mist (mg/N m3)	Apr' 22	117	26.3	120	24.5	May'22	122	26.7	115	28.5	June' 22	123.6	25.3	119.6	23.8	July'22	125	28.2	122	27.2	Aug'22	123	25.7	121	26.3	Sep'22	85.64	32.9	124	29.6
Parameter Month	Roaster-2			Roaster-3																																					
	SO2 (mg/N m3)	Acid Mist (mg/N m3)	SO2 (mg/N m3)	Acid Mist (mg/N m3)																																					
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Aug'22	123	25.7	121	26.3																																					
Sep'22	85.64	32.9	124	29.6																																					
3	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.	Fugitive emission have been monitored and results are regularly submitted to RSPCB. Reports for the period April 2022 to September 2022 are attached as Annexure -1 A .																																							
4	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. 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).	Total water consumption does not exceed 7,100 m ³ /day. Sources of fresh water is Mansiwakal and treated water from Common Sewage Treatment Plant. No ground water is abstracted for use. 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.03 nos of mist evaporators also provided for treatment of reject.																																							



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 April 2022 to September 2022 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 April 2022 to September 2022 are attached as **Annexure -3A & 3B**.

Results of Piezowells for period of April'22 to September' 22 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.

	disposed off in common hazardous waste management facility (CHWMF) at Gudli of M/s Ramky. 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.	• 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 supernatant/leachate water is retreated in ETP and recycled in plant. The yearly average analysis of piezometer well for the year 2021-22 is enclosed as Annexure VIII. Now 100 % of Jarosite generated from process in 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/UIWM&RC/2006-07/103 Dtd. 13.10.2006 & letter No. UCCI/HWM/373/ 2019-20-60 dtd 18.07.2019.
6	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.	About 68.0 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 . Plantation view around the plant area

		
7	Permission and recommendations of 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.	In consultation with forest department following actions are taken for conservation of wild fauna around premises: • 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 5240 no. plantation done in FY 21-22. • 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	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	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.

	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 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.	1. Dr. Sumit Siroya – MBBS, PGDD, FID, AFIH with 10. years experience. 2. Dr. Prajot sharma – MBBS with 6 year experience Records are maintained as per requirement.
9	All the recommendations made in Charter for Corporate Responsibility for Environment Protection (CREP) for Zinc Smelter shall be implemented.	• 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 ETP-RO 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.

		 Water spray tanker  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: 68.0 Hectare
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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 more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. 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.	• 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.																													
4	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. 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.	• 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><tr><th rowspan="2">Parameter</th><th colspan="4">Average Value (in µg/ m³)</th></tr><tr><th>Laboratory</th><th>Near Railway gate</th><th>Near ETP</th><th>Near DG Set</th></tr><tr><td>PM₁₀</td><td>60.6</td><td>62.59</td><td>62.43</td><td>64.39</td></tr><tr><td>PM_{2.5}</td><td>32.45</td><td>31.26</td><td>30.95</td><td>26.29</td></tr><tr><td>SO₂</td><td>8.27</td><td>8.46</td><td>7.75</td><td>8.12</td></tr><tr><td>NO₂</td><td>15.2</td><td>15.38</td><td>14.54</td><td>12.8</td></tr></table>	Parameter	Average Value (in µg/ m ³)				Laboratory	Near Railway gate	Near ETP	Near DG Set	PM ₁₀	60.6	62.59	62.43	64.39	PM _{2.5}	32.45	31.26	30.95	26.29	SO ₂	8.27	8.46	7.75	8.12	NO ₂	15.2	15.38	14.54	12.8
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NO ₂	15.2	15.38	14.54	12.8																											
5	Fugitive emissions, acid mist	• Monitoring of all said parameters is done																													

	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. Bag filters shall be installed in Roaster, calcine handling & storage section, Zn atomizing unit, Dross milling section to control fugitive emissions. The company shall improve overall housekeeping by asphaltting the internal roads and to reduce the generation of fugitive dust from vehicle movements.	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.
6	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. The treated wastewater shall be recycled in this plant as well as utilization for plantation purpose.	- The sample of treated effluent are regularly collected and analyzed 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	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. Authorization from the state pollution control board must be obtained for collection, storage, treatment and disposal of hazardous waste.	- Authorization issued by RSPCB under the HW Rules vide RPCB letter no. F(HSW)/Udaipur(Girwa)/6776(1)/2020-2021/5997-5999 dtd 19-03-2021, is valid up to date 31-07-2025. - Disposal / recycling / reuse of HWs is as per the revised Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
8	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,	- 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,

	enclosures, etc. on all sources of noise generation. The ambient noise level should conform the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) to 70 dBA (nighttime).	RSPCB & NABL approved laboratory. Report for the period April'22 to Sep'22 is attached as Annexure -5.
9	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	- Periodic Medical Examination for occupational health is done on regular basis and records are maintained. - A 16 bedded occupation health centre with qualified doctor is available.  Occupational Health Center  Ambulance facility
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.	- 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 and mist evaporators. - 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 Ministry and its Regional Office at Lucknow. The funds so provided shall not be diverted for any other purposes.	- Incurred Rs. 76 Crore towards environmental pollution control measures. - Breakup expenditure for Rs. 76 Crore is as under: <table><tr><th>Area/Equipments</th><th>Cost (Rs. in Crores)</th></tr><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><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> The Environmental expenditure for last five years are as under: 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	Area/Equipments	Cost (Rs. in Crores)	Acid Plant	33.0	Gas Cleaning	16.0	ESP,Bag Filter,Stacks	13.0	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
Area/Equipments	Cost (Rs. in Crores)																							
Acid Plant	33.0																							
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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	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.	Compliance status is submitted regularly to the Ministry. Previous compliance of EC was submitted on 26.05.2022. The same is also available on on following link at company website: https://www.hzlindia.com/wp-content/uploads/EC-Compliance_ZSD.pdf																						
13	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	Noted and informed. 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.																						

	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.	
14	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work	Date of commencement of land development work is 4 th January-2007.



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

RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

JDA/UDH

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

TEST REPORT

Report No./JLR No. :	TC502522500000583	Date :	04-05-2022
Issued To :	M/S Hindustan 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 :	20-04-2022
Point of Collection :	Zinc Melting Furnace	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 04-05-2022	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]	30.75	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
- # This report is not to be reproduced wholly or in part and can not be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Puran Mal
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500000583)



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

RSPCB

ISO 9001:2015,

ISO 14001:2015,

ISO 45001:2018 (OH&S)

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Sitapura, Jaipur - 302022, Rajasthan
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Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500000584	Date :	04-05-2022
Issued To :	M/S Hindustan 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 :	20-04-2022
Point of Collection :	Induction Furnace Stack	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 04-05-2022	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]	28.41	IS 11255 (Part 1):1986 Reaffirmed 2014

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500000584)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500000585	Date :	04-05-2022
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 :	20-04-2022
Point of Collection :	Azox Furnace	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 04-05-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vinod 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]	27.57	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TC502522500000585)



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TEST REPORT

Report No./JLR No. :	TC502522500000586	Date :	04-05-2022
Issued To :	M/S Hindustan 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 :	20-04-2022
Point of Collection :	Slag Grinding	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 04-05-2022	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)	38.29	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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11/05/22
Puraj Mal Yogi
Senior Analyst

Rajesh Maheshwar
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522500000586)



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TEST REPORT

Report No./ULR No. :	TC502522500000587	Date :	04-05-2022
Issued To :	M/S Hindustan 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 :	07-04-2022
Point of Collection :	Audunay Boiler Stack	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 04-05-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2016
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]	31.85	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Rupan Mal Yogi
Senior Analyst

Rajesh Maheshwar
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TEST REPORT

Report No./ULR No. :	500000588	Date :	04-05-2022
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 :	19-04-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 04-05-2022	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)	26.3	USEPA Method 8A

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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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 500000588)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No. :	500000588A	Date :	04-05-2022
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 :	19-04-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 04-05-2022	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]	117	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Signature
Santosh Kumar Yogi

Signature
K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: 500000588A)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500000589	Date :	04-05-2022
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 :	19-04-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 04-05-2022	Sampling Plan :	IS 11255:2006(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]	120	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Puran
Puran Mai Yogi
Senior Analyst

Rajesh
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522500000589)



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TEST REPORT

Report No./ULR No. :	500000589	Date :	04-05-2022
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 :	19-04-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 04-05-2022	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]	24.5	USEPA Method 8A

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 500000589)

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TEST REPORT

Report No. :

Date :

Issued To :

TTH/Debari/03

04-05-2022

M/S Hindustan Zinc Limited [Debari Zinc Smelter]

PO : Zinc Smelter

District Udaipur (Rajasthan)

Smelter

Stack Emission Level

20-04-2022

NA

NA

Vimal Kumar Yadav

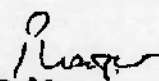
MCTP Stack

RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Lead [mg/Nm ³]	

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwan
Authorized Signatory
(Report No: TTH/Debari/03)

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TEST REPORT

Report No. :

Date :

Issued To :

TTH/Debari/02

04-05-2022

M/S Hindusthan Zinc Limited [Debari Zinc Smelter]

PO : Zinc Smelter

District Udaipur (Rajasthan)

Smelter

Stack Emission Level

20-04-2022

NA

NA

Vimal Kumar Yadav

DG Set /CPP-1

RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Oxides of Nitrogen [mg/Nm ³]	
3	Carbon monoxide [mg/Nm ³]	
4	Non Methane Hydrocarbon as HC [mg/Nm ³]	

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TTH/Debari/02)



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TEST REPORT

Report No./ULR No. :	TC502522500000680	Date :	03-06-2022
Issued To :	M/S Hindustan 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 :	23-05-2022
Point of Collection :	Zinc Melting Furnace-New	Date of Receipt :	26-05-2022
Date of Test/Analysis :	25-05-2022 to 03-06-2022	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]	22.17	IS 11255 (Part 1):1985 Reaffirmed 2014

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.

Purshottam Yogi
Senior Analyst

Rajesh Maneshwar
Authorized Signatory
(Report No: TC502522500000680)



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TEST REPORT

Report No./LR No. :	TC502522500000681	Date :	03-06-2022
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 :	23-05-2022
Point of Collection :	Induction Furnace Stack	Date of Receipt :	25-05-2022
Date of Test/Analysis :	25-05-2022 to 03-06-2022	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]	19.59	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Purushottam
Purushottam Yadav
Senior Analyst

Prakash Maheshwar
Prakash Maheshwar
(Report No: TC502522500000681)



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TEST REPORT

Report No./JLR No. :	TC502522500000682	Date :	03-08-2022
Issued To :	M/S Hindustan 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 :	23-05-2022
Point of Collection :	Azax Furnace	Date of Receipt :	25-05-2022
Date of Test/Analysis :	25-05-2022 to 03-06-2022	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]	27.01	IS 11255 (Part 1):1985 Reaffirmed 2014

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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Purushottam Yogi

Senior Analyst

Authorized Signatory

(Report No: TC502522500000682)

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TEST REPORT

Report No./ULR No. :	TC502522500000883	Date :	03-08-2022
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 :	23-05-2022
Point of Collection :	Slag Grinding	Date of Receipt :	25-05-2022
Date of Test/Analysis :	25-05-2022 to 03-08-2022	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)	16.21	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran K. Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522500000883)



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TEST REPORT

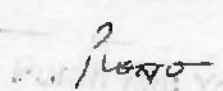
Report No./ULR No. :	500000685	Date :	03-06-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	24-05-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	25-05-2022
Date of Test/Analysis :	25-05-2022 to 03-06-2022	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

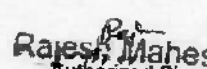
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Acid Mist [mg/m3]	28.5	USEPA Method 8A

Notes :-

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Senior Analyst


Rakesh Maheshwari
Authorized Signatory
(Report No: 500000685)



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TEST REPORT

Report No./ULR No. :	TC50252250000684	Date :	03-06-2022
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 :	24-05-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	25-05-2022
Date of Test/Analysis :	25-05-2022 to 03-06-2022	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]	122	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Puran Lal Yog,
Senior Analyst

Authorized Signatory
(Report No: TC50252250000684)



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TEST REPORT

Report No./ULR No. :	500000684	Date :	03-08-2022
Issued To :	M/S Hindustan 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 :	24-05-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	25-05-2022
Date of Test/Analysis :	28-05-2022 to 03-06-2022	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)	26.7	USEPA Method 8A

Notes :-

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Purnima Yogi
Senior Analyst


Kamesh Maheshwari
Authorized Signatory
(Report No: 500000684)



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TEST REPORT

Report No./ULR No. :	TC502522500000885	Date :	08-08-2022
Issued To :	M/S Hindustan 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 :	24-05-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	25-05-2022
Date of Test/Analysis :	25-05-2022 to 03-06-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Mr. Navodita Shaktawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	115	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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- * The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

P. V. Vengat
Puran Mai Yogi
Senior Analyst

K.N. Mukhopadhyay
K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: TC502522500000885)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No. : TTH/Debari/13
Date : 03-06-2022
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 Monitoring : 24-05-2022
Date of Sample Receipt : NA
Date of Test : NA
Sample Collected By : Vimal Kumar Yadav
Point of Collection : MCTP Stack

RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Lead [mg/Nm ³]	

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TTH/Debari/13)

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Email : marketinglab@teamtesthouse.com

Report No. :

Date :

Issued To :

Type of Unit :

Type of Sample :

Date of Sample Monitoring :

Date of Sample Receipt :

Date of Test :

Sample Collected By :

Point of Collection :

TEST REPORT

TTH/Debari/12

03-06-2022

M/S Hindusthan Zinc Limited [Debari Zinc Smelter]

PO : Zinc Smelter

District Udaipur (Rajasthan)

Smelter

Stack Emission Level

24-05-2022

NA

NA

Vimal Kumar Yadav

DG Set /CPP-1

RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Oxides of Nitrogen [mg/Nm ³]	
3	Carbon monoxide [mg/Nm ³]	
4	Non Methane Hydrocarbon as HC [mg/Nm ³]	

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: TTH/Debari/12)



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TEST REPORT

Report No./ULR No. :	TC502522500000830	Date :	01-07-2022
Issued To :	M/S Hindustan 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 :	21-06-2022
Point of Collection :	Induction Furnace Stack	Date of Receipt :	23-06-2022
Date of Test/Analysis :	23-06-2022 to 01-07-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vinod 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)	24.58	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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P. Singh
Senior Analyst

Rajesh Kumar
Authorized Signatory
(Report No: TC502522500000830)



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TEST REPORT

Report No./ULR No. :	TC502622500000831	Date :	01-07-2022
Issued To :	M/S Hindustan 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 :	21-06-2022
Point of Collection :	Azox Furnace	Date of Receipt :	23-06-2022
Date of Test/Analysis :	23-06-2022 to 01-07-2022	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]	20.73	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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P. Yogi
P. Yogi

P. S. Maheshwari
Authorized Signatory
(Report No: TC502622500000831)



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TEST REPORT

Report No./JLR No. :	TC502522500000832	Date :	01-07-2022
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 :	22-08-2022
Point of Collection :	Slag Grinding	Date of Receipt :	23-08-2022
Date of Test/Analysis :	23-08-2022 to 01-07-2022	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]	29.08	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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[Signature]
Sankar Nath Yog!

[Signature]
Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522500000832)



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TEST REPORT

Report No./JLR No. :	TC502522500000833	Date :	01-07-2022
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 :	22-06-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	23-06-2022
Date of Test/Analysis :	23-06-2022 to 01-07-2022	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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Senior Analyst: ..

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500000833)



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TEST REPORT

Report No./ULR No. :	500000834	Date :	01-07-2022
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 :	22-06-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	23-06-2022
Date of Test/Analysis :	23-06-2022 to 01-07-2022	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]	23.8	USEPA Method 8A

Notes :-

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1/06/22
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: 500000834)



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TEST REPORT

Report No./ULR No. :	500000833	Date :	01-07-2022
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 :	22-06-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	23-06-2022
Date of Test/Analysis :	23-06-2022 to 01-07-2022	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]	25.3	USEPA Method 8A

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwar
Authorized Signatory
(Report No: 500000833)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500000834	Date :	01-07-2022
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 :	22-06-2022
Point of Collection :	Stack Rooster III	Date of Receipt :	23-06-2022
Date of Test/Analysis :	23-06-2022 to 01-07-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vinod 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]	119.6	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Pooja
Senior Analyst
Pooja Mal Yogi

Rajesh Maheshwar
Authorized Signatory
(Report No: TC502522500000834)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No. :

Date :

Issued To :

TTH/Debari/20

01-07-2022

M/S Hindusthan Zinc Limited [Debari Zinc Smelter]

PO : Zinc Smelter

District Udaipur (Rajasthan)

Smelter

Stack Emission Level

22-06-2022

NA

NA

Vimal Kumar Yadav

MCTP Stack

RESULTS

Type of Unit :

Type of Sample :

Date of Sample Monitoring :

Date of Sample Receipt :

Date of Test :

Sample Collected By :

Point of Collection :

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Lead [mg/Nm ³]	

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwan
Authorized Signatory
(Report No: TTH/Debari/20)

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Email : marketinglab@teamtesthouse.com

Report No. :

Date :

Issued To :

Type of Unit :

Type of Sample :

Date of Sample Monitoring :

Date of Sample Receipt :

Date of Test :

Sample Collected By :

Point of Collection :

TEST REPORT

TTH/Debari/19

01-07-2022

M/S Hindusthan Zinc Limited [Debari Zinc Smelter]

PO : Zinc Smelter

District Udaipur (Rajasthan)

Smelter

Stack Emission Level

22-06-2022

NA

NA

Vimal Kumar Yadav

DG Set /CPP-1

RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Oxides of Nitrogen [mg/Nm ³]	
3	Carbon monoxide [mg/Nm ³]	
4	Non Methane Hydrocarbon as HC [mg/Nm ³]	

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwan
Authorized Signatory
(Report No: TTH/Debari/19)



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

TEST REPORT

Report No./ULR No. :	TC502522500001073	Date :	05-08-2022
Issued To :	M/S Hindustan 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 :	26-07-2022
Point of Collection :	Zinc Melting Furnace	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 05-08-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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]	29.25	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500001073)



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TEST REPORT

Report No./ULR No. :	TC502522500001074	Date :	05-08-2022
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 :	26-07-2022
Point of Collection :	Induction Furnace Stack	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 05-08-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fit for testing

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	23.8	IS 11255 (Part 1):1985 Reaffirmed 2014

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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Puran Mai Yod
Senior Analyst

Rajesh Marudhvari
Authorized Signatory
(Report No: TC502522500001074)



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TEST REPORT

Report No./ULR No. :	TC502522500001075	Date :	05-08-2022
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 :	26-07-2022
Point of Collection :	Azex Furnace	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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)	29.08	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes -

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500001075)

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TEST REPORT

Report No./ULR No. :	TC502522500001078	Date :	05-08-2022
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 :	27-07-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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]	125	IS 11255(Part 2):1985 Reaffirmed 2014

Notes :-

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[Signature]
Senior Analyst

[Signature]
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522500001078)



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TEST REPORT

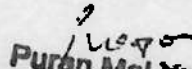
Report No./ULR No. :	500001078	Date :	05-08-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	27-07-2022
Point of Collection :	Stack Rooster-II	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Barwari Lal Kumawat
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]	28.2	USEPA Method 8A

Notes :-

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 500001078)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500001079	Date :	05-08-2022
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 :	27-07-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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]	122	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes -

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Puran Mal Yogi

Senior Analyst

Rajesh Maheshwari

Authorized Signatory
(Report No: TC502522500001079)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	500001079	Date :	05-08-2022
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 :	27-07-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Banwari Lal Kumawat
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]	27.2	USEPA Method 8A

Notes :-

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Puran Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 500001079)



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TEST REPORT

Report No. :	500001072
Date :	05.08.2022
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter)
	PO : Zinc Smelter
	District Udaipur (Rajasthan)
	Smelter
Type of Unit :	Stack Emission Level
Type of Sample :	26.07.2022
Date of Sample Monitoring :	NA
Date of Sample Receipt :	NA
Date of Test :	Banwari Lal Kumawat
Sample Collected By :	MCTP Stack
Point of Collection :	RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm3]	Plant Shut Down
2	Lead [mg/Nm3]	

Notes :-

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Puran/Mani Yogi
Senior Analyst

Rajesh Maheshwari
(Report No: 500001072)



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TEST REPORT

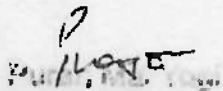
Report No. : 500001071
Date : 08.08.2022
Issued To : M/S Hindusthan Zinc Limited [Debari Zinc Smelter]
PO : Zinc Smelter
District Udaipur (Rajasthan)
Type of Unit : Smelter
Type of Sample : Stack Emission Level
Date of Sample Monitoring : 26.07.2022
Date of Sample Receipt : NA
Date of Test : NA
Sample Collected By : Banwari Lal Kumawat
Point of Collection : DG Set /CPP-1

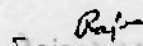
RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Oxides of Nitrogen [mg/Nm ³]	
3	Carbon monoxide [mg/Nm ³]	
4	Non Methane Hydrocarbon as HC [mg/Nm ³]	

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 500001071)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No. : 500001070
Date : 05.08.2022
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 Monitoring : 26.07.2022
Date of Sample Receipt : NA
Date of Test : NA
Sample Collected By : Banwari Lal Kumawar
Point of Collection : DG Set /CPP-2

RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Oxides of Nitrogen [mg/Nm ³]	
3	Carbon monoxide [mg/Nm ³]	
4	Non Methane Hydrocarbon as HC [mg/Nm ³]	

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 500001070)

TEAM TEST HOUSE

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



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./JLR No. :	TC502522500001184	Date :	05-09-2022
Issued To :	M/S Hindustan 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 :	24-08-2022
Point of Collection :	Zinc Melting Furnace	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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)	24.96	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst :

Authorized Signatory
(Report No: TC502522500001184)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500001195	Date :	09-09-2022
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 :	24-08-2022
Point of Collection :	Induction Furnace Stack	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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]	27.47	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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[Signature]
Senior Analyst

[Signature]
K. N. MUKHOPADHYAY
Authorized Signatory
(Report No: TC502522500001195)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500001196	Date :	05-08-2022
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 :	24-08-2022
Point of Collection :	Azex Furnace	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-08-2022	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]	23.76	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502522500001196)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500001187	Date :	05-09-2022
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 :	22-08-2022
Point of Collection :	Slag Grinding	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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)	21.91	IS 11255 (Part 1):1986 Reaffirmed 2014

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: TC502522500001187)

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Email : marketinglab@teamtesthouse.com

Report No. :

Date :

Issued To :

Type of Unit :

Type of Sample :

Date of Sample Monitoring :

Date of Sample Receipt :

Date of Test :

Sample Collected By :

Point of Collection :

TEST REPORT

500001198

05.09.2022

M/S Hindusthan Zinc Limited [Debari Zinc Smelter]

PO : Zinc Smelter

District Udaipur (Rajasthan)

Smelter

Stack Emission Level

24.08.2022

NA

NA

Vimal Kumar Yadav

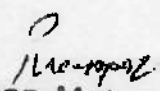
Auxiliary Boiler Stack

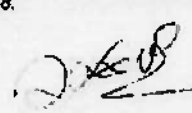
RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Sulphur Dioxide [mg/Nm ³]	
3	Oxide of Nitrogen [mg/Nm ³]	

Notes :-

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Purnan Mal Yogi
Senior Analyst


K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: 500001198)

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TEST REPORT

Report No./JLR No. :	TCS02522500001199	Date :	05-09-2022
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 :	25-08-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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[Signature]

Senior Analyst

[Signature]

Authorized Signatory
(Report No: TC502622500001199)



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TEST REPORT

Report No./ULR No. :	500001199	Date :	05-09-2022
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 :	26-08-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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)	25.7	USEPA Method 8A

Notes :-

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

Authorized Signatory
(Report No: 500001199)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522500001200	Date :	05-09-2022
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 :	25-08-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502522500001200)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	500001200	Date :	05-09-2022
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 :	25-08-2022
Point of Collection :	Stack Roaster III	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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]	26.3	USEPA Method 8A

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 500001200)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No. :

Date :

Issued To :

Type of Unit :

Type of Sample :

Date of Sample Monitoring :

Date of Sample Receipt :

Date of Test :

Sample Collected By :

Point of Collection :

500001193

05.09.2022

M/S Hindusthan Zinc Limited [Debari Zinc Smelter]

PO : Zinc Smelter

District Udaipur (Rajasthan)

Smelter

Stack Emission Level

24.08.2022

NA

NA

Vimal Kumar Yadav

MCTP Stack

RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Lead [mg/Nm ³]	

Notes :-

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Purandhar
Purandhar Mai Yogi
Senior Analyst

K.N. Mukhopadhyay
K.N. MUKHOPADHYAY

Authorized Signatory
(Report No: 500001193)

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TEST REPORT

Report No./ULR No. :	TC502522500001192	Date :	08-09-2022
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 :	23-08-2022
Point of Collection :	DG Set /CPP-II	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 07-09-2022	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	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	47.24	IS 11255 (Part 1):1985 Reaffirmed 2014	75
2	Oxide of Nitrogen [mg/Nm ³]	210	IS 11255 (Part 7):1985 Redfirmed 2012	710 ppmv
3	Carbon monoxide [mg/Nm ³]	80	Instruction Manual Kane 900 Plus	150

Notes :-

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P. N. Singh
Senior Analyst

K.N. MUKHOPADHYAY

Authorized Signatory

(Report No: TC502522500001192)

TEAM TEST HOUSE

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TEST REPORT

Report No./ULR No. :	500001192	Date :	08-09-2022
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 :	23-08-2022
Point of Collection :	DG Set /CPP-II	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 07-09-2022	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	Limits as per Environment protection rules, 1986
1	Non Methane Hydrocarbon as HC (mg/Nm ³)	22	IS 5182 (Part 21) : 2001 RA 2017	100

Notes :-

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Purushottam
Purushottam Vogi
Senior Analyst

K.N. Mukhopadhyay
K.N. MUKHOPADHYAY
Authorized Signatory
(Report No: 500001192)



TEAM TEST HOUSE

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

TEST REPORT

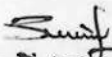
Report No.:	TH/Debari/SA/2022-23/15	Date :	11-10-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	22-09-2022
Point of Collection :	Zinc Melting Furnace	Date of Receipt :	26-09-2022
Date of Test/Analysis :	26-09-2022 to 11-10-2022	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

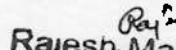
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	21.64	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Sunil Kumar
Senior Analyst


Rakesh Maheshwari
Authorized Signatory
(Report No: TH/Debari/SA/2022-23/15)



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Email : marketinglab@teamtesthouse.com

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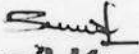
Report No.:	TH/Debari/SA/2022-23/16	Date :	11-10-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	22-09-2022
Point of Collection :	Azex Furnace	Date of Receipt :	26-09-2022
Date of Test/Analysis :	26-09-2022 to 11-10-2022	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

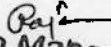
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	19.84	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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TEST REPORT

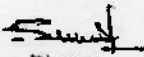
Report No.:	TH/Debari/SA/2022-23/17	Date :	11-10-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Mines
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	22-09-2022
Point of Collection :	Slag Grinding	Date of Receipt :	26-09-2022
Date of Test/Analysis :	26-09-2022 to 11-10-2022	Sampling Plan :	IS 11255:2006(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

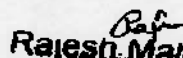
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	22.54	IS 11255 (Part 1):1985 Reaffirmed 2014

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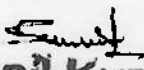
Report No.:	TH/Debari/SA/2022-23/18	Date :	11-10-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	23-09-2022
Point of Collection :	Stack Roaster-II	Date of Receipt :	26-09-2022
Date of Test/Analysis :	26-09-2022 to 11-10-2022	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]	85.64	IS 11255 (Part 2):1985 Reaffirmed 2014
2	Acid Mist [mg/m ³]	32.9	USEPA Method 8A

Notes :-

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Report No.:	TH/Debari/SA/2022-23/19	Date :	11-10-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	23-09-2022
Point of Collection :	Stack Roaster-III	Date of Receipt :	26-09-2022
Date of Test/Analysis :	26-09-2022 to 11-10-2022	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	IS 11255 (Part 2):1985 Reaffirmed 2014
2	Acid Mist [mg/m ³]	29.6	USEPA Method 8A

Notes :-

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Report No.:	TH/Debari/SA/2022-23/20	Date :	11-10-2022
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	23-09-2022
Point of Collection :	Auxiliary Boiler Stack	Date of Receipt :	26-09-2022
Date of Test/Analysis :	26-09-2022 to 11-10-2022	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]	25.43	IS 11255 (Part 1):1985 Reaffirmed 2014

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Rajesh Maheshwar
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Email : marketinglab@teamtesthouse.com

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Report No.:	TH/Debari/SA/2022-23/21	Date :	11-10-2022
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitori ng :	23-09-2022
Point of Collection :	Induction Furnace Stack	Date of Receipt :	26-09-2022
Date of Test/Analysis :	26-09-2022 to 11-10-2022	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]	28.15	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Rakesh Maheshwari
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Report No.:	TH/Debari/SA/2022-23/22	Date :	10-10-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Mines
Type of Sample :	Stack Emission Level	Date of Sample Collection/Monitoring :	28-09-2022
Point of Collection :	MCTP Stack	Date of Receipt :	29-09-2022
Date of Test/Analysis :	29-09-2022 to 10-10-2022	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]	34.29	IS 11255 (Part 1):1986
2	Lead as Pb [mg/Nm ³]	0.13	Reaffirmed 2014 USEPA method 29

Notes :-

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TEST REPORT

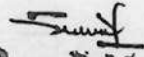
Report No. : TH/Debari/SA/2022-23/23
Date : 10-10-2022
Issued To : M/S Hindusthan Zinc Limited [Debari Zinc Smelter]
PO : Zinc Smelter
District Udaipur (Rajasthan)
Type of Unit : Smelter
Type of Sample : Stack Emission Level
Date of Sample Monitoring : 23-09-2022
Date of Sample Receipt : NA
Date of Test : NA
Sample Collected By : Vimal Kumar Yadav
Point of Collection : DG Set /CPP-1

RESULTS

S.No	Parameters	Observed Value
	Particulate matter [mg/Nm ³] Oxides of Nitrogen [mg/Nm ³] Carbon monoxide [mg/Nm ³] Non Methane Hydrocarbon as HC [mg/Nm ³]	Plant Shut Down

Notes :-

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TEST REPORT

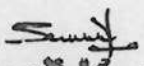
Report No. : TH/Debari/SA/2022-23/24
Date : 10-10-2022
Issued To : M/S Hindusthan Zinc Limited [Debari Zinc Smelter]
PO : Zinc Smelter
District Udaipur (Rajasthan)
Type of Unit : Smelter
Type of Sample : Stack Emission Level
Date of Sample Monitoring : 23-09-2022
Date of Sample Receipt : NA
Date of Test : NA
Sample Collected By : Vimal Kumar Yadav
Point of Collection : DG Set /CPP-2

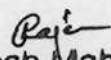
RESULTS

S.No	Parameters	Observed Value
1	Particulate matter [mg/Nm ³]	Plant Shut Down
2	Oxides of Nitrogen [mg/Nm ³]	
3	Carbon monoxide [mg/Nm ³]	
4	Non Methane Hydrocarbon as HC [mg/Nm ³]	

Notes :-

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TEST REPORT

Report No./ULR No.:	TC502622400001076	Date:	08-06-2022
Issued To:	M/S Hindustan 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:	20-04-2022
Point of Collection:	Laboratory Top	Date of Receipt:	22-04-2022
Date of Test/Analysis:	22-04-2022 to 08-05-2022	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]	320	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
	Nitrogen Dioxide as NO2 [microgram/m3]	14.54	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]	39.09	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	6.5	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	77.7	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]	6.7	IS 5182 : Part 26 : 2020	20.00

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Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwan



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TEST REPORT

Report No./ULR No. :	400001076	Date :	08-05-2022
Issued To :	M/S Hindustan 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 :	20-04-2022
Point of Collection :	Laboratory Top	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 08-05-2022	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 :	Ft 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-alfa- Pyrene [ng/m3]	BDL (<0.5)	CPCB Guidelines	1.00

Notes :-

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P. Uday
Senior Analyst
Puran Mai Yogi

Raj
Rajesh Maheshwari
(Report No: 400001076)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502522400001077	Date :	08-05-2022
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 :	19-04-2022
Point of Collection :	Near Railway Gate	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 06-05-2022	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/m ³]	BDL (<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m ³]	430	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.17	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
	Nitrogen Dioxide as NO ₂ [microgram/m ³]	14.52	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM _{2.5}) [microgram/m ³]	40.2	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m ³]	6.01	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM ₁₀) [microgram/m ³]	76.05	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m ³]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2018	6.00
10	Nickel [ng/m ³]	7	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran Mal Yogi

Rajesh Maheshwan



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001077	Date :	06-05-2022
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 :	18-04-2022
Point of Collection :	Near Railway Gate	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 06-05-2022	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-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst
Puran Mal Yogi

Authorized Signatory
Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502522400001079	Date :	06-05-2022
Issued To :	M/S Hindustan 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 :	19-04-2022
Point of Collection :	Near DG Set	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 06-05-2022	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 :	Fik 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]	0.18	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	13.6	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM _{2.5}) [microgram/m ³]	34.12	IS 5182 (Part 24) : 2019	80.00
7	Sulphur Dioxide [microgram/m ³]	6.46	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM ₁₀) [microgram/m ³]	74.26	IS 5182 (Part 23)-2006 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]	6.5	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran
Puran Mal Yogi

Rajesh
Rajesh Maheshwan



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TEST REPORT

Report No./ULR No. :	400001079	Date :	06-05-2022
Issued To :	M/S Hindustan 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 :	19-04-2022
Point of Collection :	Near DG Set	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 06-05-2022	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 :	Fil 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-alfa Pyrene [ng/m3]	BDL (<0.5)	CPCB Guidelines	1.00

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Senior Analyst
Rajesh Mal Yogi

Senior Analyst
Rajesh Mal Yogi
(Report No: 400001079)



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TEST REPORT

Report No./JLR No. :	TC502522400001078	Date :	08-05-2022
Issued To :	M/S Hindustan 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 :	19-04-2022
Point of Collection :	Near ETP	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 08-06-2022	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]	370	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.19	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.27	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]	48.83	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	6.26	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	78.5	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]	5.9	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Purabhai Yogi

Rajesh Maheshwari



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TEST REPORT

Report No./ULR No. :	400001078	Date :	06-05-2022
Issued To :	M/S Hindustan 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 :	19-04-2022
Point of Collection :	Near ETP	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 06-05-2022	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-alfa- Pyrene [ng/m ³]	BDL (<0.5)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst **Mal Yogi**

Rajesh Maheshwan
(Report No: 400001078)

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TEST REPORT

Report No./JLR No. :	TC502522400002502	Date :	05-09-2022
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 :	24-08-2022
Point of Collection :	Laboratory Top	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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]	410	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.2	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]	32.45	IS 5182 (Part 24) : 2019	80.00
7	Sulphur Dioxide [microgram/m3]	8.27	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	80.6	IS 5182 (Part 23)-2008 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	14	IS 5182 : Part 26 : 2020	20.00

Notes :-

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P. Singh
PUNJAB NEST, YOGI

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TEST REPORT

Report No./ULR No. :	400002502	Date :	05-09-2022
Issued To :	M/S Hindustan 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 :	24-08-2022
Point of Collection :	Laboratory Top	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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-alfa- Pyrene (ng/m3)	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 400002502)

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TEST REPORT

Report No./ULR No. :	TC502522400002503	Date :	05-09-2022
Issued To :	M/S Hindustan 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 :	24-08-2022
Point of Collection :	Near Railway Gate	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	Sampling Plan :	IS 5182:2000(Part 14)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	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
	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	15.38	IS 5182 (Part 6) : 2005 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	31.28	IS 5182 (Part 24) : 2019	80.00
7	Sulphur Dioxide [microgram/m3]	8.46	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	62.59	IS 5182 (Part 23)-2008 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	14.6	IS 5182 : Part 26 : 2020	20.00

Notes :

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[Signature]

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TEST REPORT

Report No./JLR No. :	400002503	Date :	05-09-2022
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 :	24-08-2022
Point of Collection :	Near Railway Gate	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	Sampling Plan :	IS 5182:2000(Part 14)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	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-alfa- Pyrene [ng/m ³]	BDL (<0.5)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 400002503)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC502522400002504	Date :	05-09-2022
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 :	24-08-2022
Point of Collection :	Near ETP	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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 :	Ft 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]	440	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.12	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.54	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL (<20.0)	APHA 1977, Part 619	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	30.95	IS 5182 (Part 24) : 2019	80.00
7	Sulphur Dioxide [microgram/m3]	7.75	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	62.43	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]	12.9	IS 5182 : Part 26 : 2020	20.00

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TEST REPORT

Report No./ULR No. :	400002504	Date :	05-09-2022
Issued To :	M/S Hindustan 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 :	24-08-2022
Point of Collection :	Near ETP	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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-a-pyrene [ng/m ³]	BDL (<0.5)	CPCB Guidelines	1.00

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Senior Analyst

Authorized Signatory
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TEST REPORT

Report No./ULR No. :	TC502522400002505	Date :	05-08-2022
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 :	24-08-2022
Point of Collection :	Near DG Set	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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 :	Ft 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]	380	TTH/AAQM/08	4000
3	Lead [microgram/m ³]	0.15	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO ₂ [microgram/m ³]	12.8	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m ³]	BDL (<20.0)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM _{2.5}) [microgram/m ³]	26.29	IS 5182 (Part 24) : 2019	50.00
7	Sulphur Dioxide [microgram/m ³]	8.12	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM ₁₀) [microgram/m ³]	64.36	IS 5182 (Part 23)-2006 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]	14.7	IS 5182 : Part 26 : 2020	20.00

Notes :-

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TEST REPORT

Report No./JLR No. :	400002505	Date :	05-09-2022
Issued To :	M/S Hindustan 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 :	24-08-2022
Point of Collection :	Near DG Set	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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-alfa- Pyrene [ng/m3]	BDL(<0.5)	CPCB Guidelines	1.00

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 400002505)



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TEST REPORT

Report No./ULR No. :	TC502522200000883	Date :	05-05-2022
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 :	21-04-2022
Point of Collection :	ETP Outlet	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 05-05-2022	Sampling Plan :	APHA 2017 : 1080
Quantity of Sample :	2ltr.	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	Biochemical Oxygen Demand (BOD) [mg/l]	8.17	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	440.29	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	82.58	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	7.51	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]	0.06	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.07	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL (<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	0.10	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.12	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10

Notes :-

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unil Kumar

Rajesh Maheshwan



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TEST REPORT

Report No./ULR No.:	TC502522200001144	Date:	16-06-2022
Issued To:	M/S Hindustan 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:	24-06-2022
Point of Collection:	ETP Outlet	Date of Receipt:	25-05-2022
Date of Test/Analysis:	25-05-2022 to 15-06-2022	Sampling Plan:	APHA 2017 : 1080
Quantity of Sample:	2ltr.	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]	12	APHA:2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	9.8	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	465.53	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	95.77	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.48	APHA:2017 : 4500-F-C	2.0
7	pH	7.19	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]	0.14	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]	0.18	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10

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Sunil Kumar

Rajesh Manchanda

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TEST REPORT

Report No./JLR No. :	TC602522200001403	Date :	01-07-2022
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 :	22-06-2022
Point of Collection :	ETP Outlet	Date of Receipt :	23-06-2022
Date of Test/Analysis :	23-06-2022 to 01-07-2022	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]	17	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	7.14	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	443.48	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	68.54	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.28	APHA:2017 : 4500-F-C	2.0
7	pH	7.81	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]	0.03	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.05	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	0.03	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.03	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10

Notes :-

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Sunil Kumar

Rajesh
Rajesh Maheshwar

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TEST REPORT

Report No./ULR No. :	TC502522200001689	Date :	04-08-2022
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 :	27-07-2022
Point of Collection :	ETP Outlet	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
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]	21	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	8.57	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	470.28	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	78.34	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.14	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]	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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Sunil Kumar

Rajesh Maheshwari

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TEST REPORT

Report No./ULR No. :	TC502522200001944	Date :	06-09-2022
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 :	25-08-2022
Point of Collection :	ETP Outlet	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodila 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]	26	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	6.88	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	491.76	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	38.02	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.01	APHA:2017 : 4500-F-C	2.0
7	pH	7.01	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]	0.06	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]	0.14	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./JLR No. :	TH/Debari/SA/2022-23/12	Date :	14-10-2022
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 :	24-09-2022
Point of Collection :	ETP Outlet	Date of Receipt :	26-09-2022
Date of Test/Analysis :	26-09-2022 to 14-10-2022	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]	31	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	5.8	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	489.98	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	36	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.12	APHA:2017 : 4500-F-C	2.0
7	pH	7.18	APHA:2017 : 4500 H+B	5.5 - 9.0
	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]	0.08	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.05	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]	0.12	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10

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Sunil

Sunil Kumar
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory

(Report No: TH/Debari/SA/2022-23/12)



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TEST REPORT

Report No./ULR No. :	TC502522200000865	Date :	05-05-2022
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 :	21-04-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 05-05-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr.	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]	3.16	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	9.8	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	97.28	APHA:2017 : 5220-C	250
5	pH	7.11	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
7	Total Residual Chlorine [mg/l]	BDL (<0.1)	APHA 2017 : 4500- Cl- B	1.0
8	Nitrate as NO3 [mg/l]	18.86	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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Sanjay Kumar

Rajesh Maheshwan
Authorized Signatory

(Report No: TC502522200000865)



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TEST REPORT

Report No./ULR No. :	200000865	Date :	05-05-2022
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 :	21-04-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 05-05-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr.	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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Senior Analyst

Sunil Kumar

Rajesh Maheshwari
Authorized Signatory
(Report No: 200000865)



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TEST REPORT

Report No./JLR No. :	TC502522200001146	Date :	16-06-2022
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 :	24-05-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	25-05-2022
Date of Test/Analysis :	25-05-2022 to 15-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr.	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)	22	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N (mg/l)	1.49	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) (mg/l)	9.4	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) (mg/l)	86.4	APHA:2017 : 5220-C	250
5	pH	7.12	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease (mg/l)	5	APHA 2017 : 5520 B	10
7	Total Residual Chlorine (mg/l)	BDL(<0.1)	APHA 2017 : 4500- Cl- B	1.0
8	Nitrate as NO3 (mg/l)	19.45	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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Sent by **Sunil Kumar**

By **Rajesh Mishra**
(Report No: TC502522200001146)



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TEST REPORT

Report No./ULR No. :	200001146	Date :	16-06-2022
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 :	24-05-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	25-05-2022
Date of Test/Analysis :	25-05-2022 to 15-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktiwal	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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Sunil Kumar

Rajesh
Authorized Signatory
Rajesh Maneshwar
(Report No: 200001146)



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TEST REPORT

Report No./ULR No. :	TC502522200001405	Date :	01-07-2022
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 :	22-06-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	23-06-2022
Date of Test/Analysis :	23-06-2022 to 01-07-2022	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 :	Ft for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	14	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	6.72	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	6.67	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	50.59	APHA:2017 : 5220-C	250
5	pH	7.09	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 NO3 [mg/l]	17.79	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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Vimal Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522200001405)



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TEST REPORT

Report No./ULR No. :	200001405	Date :	01-07-2022
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 :	22-06-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	23-06-2022
Date of Test/Analysis :	23-06-2022 to 01-07-2022	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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Sunil Kumar

Rajesh Maheshwari
Authorized Signatory
(Report No: 200001405)

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TEST REPORT

Report No./ULR No. :	TC502522200001691	Date :	04-08-2022
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 :	27-07-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
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]	19	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	7.86	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	8.52	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	68.54	APHA:2017 : 5220-C	250
5	pH	7.19	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 NO3 [mg/l]	28.01	APHA 2017 : 4500-NO3- 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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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522200001691)

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TEST REPORT

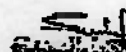
Report No./ULR No. :	200001691	Date :	04-08-2022
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	27-07-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
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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Senior Analyst


Authorized Signatory
(Report No: 200001691)

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Approved by Ministry of Environment and Forest, Government of India as Environmental Laboratory

RSPCB

ISO 9001:2015,

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ISO 45001:2018 (OH&S)

JDA/UDH

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Email : team.bhead@gmail.com

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

TEST REPORT

Report No./ULR No. :	200001691	Date :	04-08-2022
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 :	27-07-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Fil 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 :-

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

Banwari Lal Kumawat
Authorized Signatory
(Report No: 200001691)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./JLR No. :	TC502522200001946	Date :	08-09-2022
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 :	25-08-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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	Ammonical Nitrogen as N [mg/l]	6.62	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	6.28	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	44.35	APHA:2017 : 5220-C	250
5	pH	7.04	APHA:2017 : 4500 H+B	5.5 - 9.0
7	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
8	Total Residual Chlorine [mg/l]	BDL(<0.1)	APHA 2017 : 4500- Cl- B	1.0
9	Nitrate as NO3 [mg/l]	22.5	APHA 2017 : 4500-NO3- B	50
	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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[Signature]
Senior Analyst

[Signature]
Authorized Signatory
(Report No: TC502522200001946)

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Email : marketinglab@teamtesthouse.com

TEST REPORT

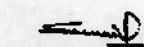
Report No./ULR No. :	200001946	Date :	06-09-2022
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Liquid Effluents	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	STP Outlet Colony	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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

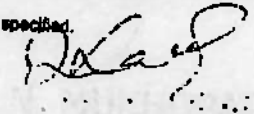
RESULTS

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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Senior Analyst
Sudh Kumar


Authorized Signatory
(Report No: 200001946)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TH/Debari/SA/2022-23/14	Date :	14-10-2022
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 :	24-09-2022
Point of Collection :	STP outlet (Colony)	Date of Receipt :	26-09-2022
Date of Test/Analysis :	26-09-2022 to 14-10-2022	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]	16	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	5.48	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	7	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	54.6	APHA:2017 : 5220-C	250
5	pH	7.13	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 NO3 [mg/l]	18.8	APHA 2017 : 4500-NO3- B	50
9	Faecal coliform [MPN/100ml]	Not Detected	IS 1622 : 1981	-
10	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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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TH/Debari/SA/2022-23/14)



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TEST REPORT

Report No./ULR No. :	TC502522200000862	Date :	05-05-2022
Issued To :	M/S Hindustan 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 :	21-04-2022
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 05-05-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr.	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]	25	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	4.12	APHA 2017 : 4500-NH3 G	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	7.33	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	56.16	APHA:2017 : 5220-C	250
5	pH	7.58	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
7	Nitrate as NO3 [mg/l]	23.76	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sunil Kumar

Rajesh Maheshwari

(Report No: TC502522200000862)



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TEST REPORT

Report No./ULR No. :	TC502522200001143	Date :	16-06-2022
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 :	24-05-2022
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	25-05-2022
Date of Test/Analysis :	25-05-2022 to 15-06-2022	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2ltr.	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]	19	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	6.41	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]	63.84	APHA:2017 : 5220-C	250
5	pH	7.24	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10
	Nitrate as NO3 [mg/l]	18.67	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sunil Kumar

Rajesh Kumar
(Report No: TC502522200001143)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522200001402	Date :	01-07-2022
Issued To :	M/S Hindustan 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 :	22-06-2022
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	23-06-2022
Date of Test/Analysis :	23-06-2022 to 01-07-2022	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]	22	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	5.72	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]	77.38	APHA:2017 : 5220-C	250
5	pH	7.38	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
7	Nitrate as NO3 [mg/l]	21.33	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sunil Kumar

Rajesh Maneswar
Authorized Signatory
(Report No: TC502522200001402)

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

TEST REPORT

Report No./ULR No. :	TC502522200001688	Date :	04-08-2022
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 :	27-07-2022
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	30-07-2022
Date of Test/Analysis :	30-07-2022 to 04-08-2022	Sampling Plan :	APHA 2017 : 1080
Quantity of Sample :	2ltr.	Sample Collected By :	Banwari Lal Kumawat
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)	25	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N (mg/l)	6.89	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) (mg/l)	8.39	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) (mg/l)	84.86	APHA:2017 : 5220-C	250
5	pH	7.24	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease (mg/l)	4	APHA 2017 : 5520 B	10
7	Nitrate as NO3 (mg/l)	26.87	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522200001688)

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

TEST REPORT

Report No./ULR No. :	TC502522200001943	Date :	06-09-2022
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 :	25-08-2022
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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]	7.82	APHA 2017 : 4500-NH ₃ C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	7.14	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	41.6	APHA:2017 : 5220-C	250
5	pH	7.01	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]	25.85	APHA 2017 : 4500-NO ₃ -B	50

Notes :-

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Senior Analyst

Sunil Kumar

Authorized Signatory
(Report No: TC502522200001943)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TH/Debari/SA/2022-23/11	Date :	14-10-2022
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 :	24-09-2022
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	26-09-2022
Date of Test/Analysis :	26-09-2022 to 14-10-2022	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]	30	APHA:2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	8.14	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	8.05	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	48	APHA:2017 : 5220-C	250
5	pH	7.05	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	4	APHA 2017 : 5520 B	10
7	Nitrate as NO3 [mg/l]	28	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TH/Debari/SA/2022-23/11)

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TEST REPORT

Report No./ULR No. :	TC502522100000653	Date :	02-05-2022
Issued To :	M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	21-04-2022
Point of Collection :	Piezometer No.-1	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 02-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	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	7.60	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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Balram
Balram Agarwal

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100000653)



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TEST REPORT

Report No./ULR No.:	TC502522100000654	Date :	02-06-2022
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	21-04-2022
Point of Collection :	Peizometer No.-2	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 02-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	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	7.54	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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Balraj
Rajesh Maheshwari

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502522100000654)



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TEST REPORT

Report No./ULR No. :	TC502522100000655	Date :	02-05-2022
Issued To :	M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	21-04-2022
Point of Collection :	Peizometer No.-3	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 02-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shektawai	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]	0.07	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1982 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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Belra
Rajesh Agarwal

Rajesh
Rajesh Maheshwari
(Report No: TC502522100000655)



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TEST REPORT

Report No./JLR No. :	TC502522100000856	Date :	02-05-2022
Issued To :	M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	21-04-2022
Point of Collection :	Peizometer No.-4	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 02-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	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	7.57	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	0.06	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]	0.41	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balran
Sankar Arora

Rajesh
Rajesh Mohan
(Report No: TC502522100000856)



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TEST REPORT

Report No./ULR No. :	TC602522100000657	Date :	02-05-2022
Issued To :	M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	21-04-2022
Point of Collection :	Peizometer No.-5	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 02-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	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	7.68	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

Rajesh Maheshwari
Authorized Signatory
(Report No: TC602522100000657)



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TEST REPORT

Report No./ULR No. :	TC502522100000858	Date :	02-05-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	21-04-2022
Point of Collection :	Peizometer No.-6	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 02-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	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	7.40	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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Signature
Santosh Kumar

Signature
Rajesh Maheshwari
(Report No: TC502522100000858)

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TEST REPORT

Report No./ULR No. :	TC502522100000659	Date :	02-05-2022
Issued To :	M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	21-04-2022
Point of Collection :	Peizometer No.-7	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 02-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	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	7.40	IS 3025 (Part 11) : 1993 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]	0.72	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram Agarwal

Rajesh
Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502522100000660	Date :	02-05-2022
Issued To :	M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	21-04-2022
Point of Collection :	Piezometer No.-8	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 02-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktiwal	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]	0.81	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Rajesh
Rajesh Maheshwari
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TEST REPORT

Report No./ULR No. :	TC502522100000661	Date :	02-05-2022
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	21-04-2022
Point of Collection :	Piezometer No.-9	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 02-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	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	7.68	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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Balran
Balran Agarwal
Senior Analyst

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TEST REPORT

Report No./JLR No. :	TC502522100000662	Date :	02-05-2022
Issued To :	M/S Hindustan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	21-04-2022
Point of Collection :	Peizometer No.-10	Date of Receipt :	22-04-2022
Date of Test/Analysis :	22-04-2022 to 02-05-2022	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shektawat	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.42	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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Rajesh
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TEST REPORT

Report No./ULR No. :	TC502522100001594	Date :	08-09-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	Peizometer No.-1	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 06-09-2022	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]	0.04	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst

K.N. Mukhopadhyay
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TEST REPORT

Report No./ULR No. :	TC502522100001595	Date :	08-09-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	Peizometer No.-2	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 06-09-2022	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	7.18	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 Anandwal
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TEST REPORT

Report No./ULR No. :	TC502522100001596	Date :	08-09-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	Peizometer No.-3	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 08-09-2022	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	7.74	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]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram
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TEST REPORT

Report No./ULR No. :	TC502522100001597	Date :	08-09-2022
Issued To :	M/S Hindusthan Zinc Limited [Debarl Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	Peizometer No.-4	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 06-09-2022	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	7.58	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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TEST REPORT

Report No./JLR No. :	TC502522100001598	Date :	08-09-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	Peizometer No.-5	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 06-09-2022	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	7.32	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	0.02	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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Balram Agarwal
Senior Analyst

K.N. Mukhopadhyay
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TEST REPORT

Report No./ULR No. :	TC502522100001599	Date :	08-09-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	Peizometer No.-6	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 06-09-2022	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	7.50	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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TEST REPORT

Report No./ULR No. :	TC502522100001600	Date :	08-09-2022
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	Peizometer No.-7	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 06-09-2022	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	7.47	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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TEST REPORT

Report No./ULR No. :	TC502522100001601	Date :	08-09-2022
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	Peizometer No.-8	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 08-09-2022	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	7.50	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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TEST REPORT

Report No./ULR No. :	TC502522100001602	Date :	08-09-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	Peizometer No.-9	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 06-09-2022	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 Shaktawar	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]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram Agarwal
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TEST REPORT

Report No./ULR No. :	TC502522100001603	Date :	08-09-2022
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of Sample :	Borewell Water	Date of Sample Collection/Monitoring :	25-08-2022
Point of Collection :	Peizometer No.-10	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 06-09-2022	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	7.58	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]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Beltran
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TEST REPORT

Report No./ULR No. :	TC502522600000753	Date :	08-05-2022
Issued To :	M/S Hindustan 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 :	20-04-2022
Point of Collection :	Near Solar Area	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	65.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	58.2	IS 9989	70

Notes :-

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TEST REPORT

Report No./ULR No. :	TC50252260000752	Date :	06-05-2022
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 :	20-04-2022
Point of Collection :	Near Work Shop	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	63.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.7	IS 9989	70

Notes -

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Senior Analyst

Puran Mal Yogi

Rajesh Maheshwari

(Report No: TC50252260000752)



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ISO 45001

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TEST REPORT

Report No./ULR No. :	TC502522600000751	Date :	06-05-2022
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 :	20-04-2022
Point of Collection :	Near Roaster	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	68.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	60.3	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
Rajesh Kumar Yogi

Signature
Rajesh Kumar Yogi
(Report No: TC502522600000751)



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TEST REPORT

Report No./ULR No. :	TC502522600000750	Date :	06-05-2022
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 :	20-04-2022
Point of Collection :	Near MCTP Entrance	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	67.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	59.6	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 *Rajan*
Rajan Mal Yogi

Rajan
Authorized Signatory
Rajesh Maheshwari
(Report No: TC502522600000750)



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TEST REPORT

Report No./ULR No. :	TC502522600000749	Date :	06-05-2022
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 :	20-04-2022
Point of Collection :	Near Leaching	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	65.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.2	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 **Puran Mal Yogi**

Rajesh Maheshwari
(Report No: TC502522600000749)



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TEST REPORT

Report No./ULR No. :	TC502522600000748	Date :	08-05-2022
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 :	20-04-2022
Point of Collection :	Near Weigh Bridge	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	65.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	68.4	IS 9989	70

Notes :-

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

Authorized Signatory
Rajesh Choudhary

(Report No: TC502522600000748)



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TEST REPORT

Report No./JLR No. :	TC50252260000747	Date :	06-05-2022
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 :	20-04-2022
Point of Collection :	Near ZE	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	69.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	59.5	IS 9989	70

Notes :-

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Senior Analyst
Anil Mal Yogi

Signature
Rajesh Kumar
(Report No: TC50252260000747)



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TEST REPORT

Report No./ULR No. :	TC502522600000746	Date :	06-05-2022
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 :	20-04-2022
Point of Collection :	Near ZSD Main Gate	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	63.5	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 Pooja Yogi

Author: Rajesh Maheshwari
(Report No: TC502522600000746)



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TEST REPORT

Report No./JLR No. :	TC502522600000745	Date :	06-05-2022
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 :	20-04-2022
Point of Collection :	Near DG Set Room	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vinai 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)]	54.8	IS 9989	70

Notes :-

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Senior Analyst

Purani Mal Yogi

Rajesh Kumar

(Report No: TC502522600000745)



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E-mail : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No.:	TC50252260000744	Date:	06-05-2022
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:	20-04-2022
Point of Collection:	Near ETP	Date of Receipt:	23-04-2022
Date of Test/Analysis:	23-04-2022 to 06-05-2022	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)]	67.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.3	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
Ran Mal Yogi

Report
Ran Mal Yogi
(Report No: TC50252260000744)



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TEST REPORT

Report No./ULR No. :	TC502522600000743	Date :	06-05-2022
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 :	20-04-2022
Point of Collection :	Near Railway Gate/ SRP	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	60.0	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.9	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 Person **Mal Yogi**

Reported Signature
(Report No: TC502522600000743)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502522600000742	Date :	06-05-2022
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 :	20-04-2022
Point of Collection :	Near Environmental lab	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	65.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	67.5	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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Senior Analyst
Puran Mai Yogi

Rajesh Malhotra
(Report No: TC502522600000742)



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E-mail : marketing@teamtesthouse.com

TEST REPORT

Report No./JLR No. :	TC502522600000756	Date :	06-05-2022
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 :	20-04-2022
Point of Collection :	Near Store	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	63.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	57.2	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 Mr. Yogi

Authorized Signatory
Rajesh Maneshtyan
(Report No: TC502522600000756)



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TEST REPORT

Report No./ULR No. :	TC50252260000755	Date :	06-05-2022
Issued To :	M/S Hindustan 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 :	20-04-2022
Point of Collection :	Near STP	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	63.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.8	IS 9989	70

Notes :-

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Signature of **Pran Mal Yogi**

Signature of **Rajen Maheshwari**
(Report No: TC50252260000755)



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ISO 45001:2018 (OH&S)

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TEST REPORT

Report No./ULR No. :	TC502522600000754	Date :	06-05-2022
Issued To :	M/S Hindustan 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 :	20-04-2022
Point of Collection :	Near Hospital	Date of Receipt :	23-04-2022
Date of Test/Analysis :	23-04-2022 to 06-05-2022	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)]	54.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	47.1	IS 9989	70

Notes :-

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Senior Analyst **Purushottam Yogi**

Authorized Signatory
Rajesh Marudhwar
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TEST REPORT

Report No./JLR No. :	TC502522600001641	Date :	06-09-2022
Issued To :	M/S Hindustan 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 :	25-08-2022
Point of Collection :	Near Environmental lab	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-08-2022	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

S.No	Parameters	RESULTS		
		Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.4	IS 9989	70

Notes :-

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Senior Analyst

Authorized Signatory
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TEST REPORT

Report No./ULR No. :	TC502522600001642		
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Date :	05-09-2022
Type of Sample :	Ambient Noise Level Monitoring	Type of Unit :	Smelter
Point of Collection :	Near Railway Gate/ SRP	Date of Sample Collection/Monitoring :	25-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	Date of Receipt :	30-08-2022
Quantity of Sample :	-	Sampling Plan :	TTH/NOISE/01
Unit's representative :	Ms. Navodita Shaktawat	Sample Collected By :	Vimal Kumar Yadav
		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)]	63.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.5	IS 9989	70

Notes :-

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Senior Analyst

Authorized Signatory
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TEST REPORT

Report No./ULR No. :	TC502522800001643	Date :	05-09-2022
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 :	24-08-2022
Point of Collection :	Near ETP	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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 9089	75
2	Noise Level (Night Time) : Leq [dB(A)]	51.7	IS 9089	70

Notes :-

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[Signature]
Senior Analyst

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TEST REPORT

Report No./JLR No. :	TC502522600001645	Date :	05-09-2022
Issued To :	M/S Hindustan 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 :	24-08-2022
Point of Collection :	Near ZSD Main Gate	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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)]	63.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.6	IS 9989	70

Notes :-

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TEST REPORT

Report No./ULR No.:	TC502522800001644	Date:	05-09-2022
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:	24-08-2022
Point of Collection:	Near DG Set Room	Date of Receipt:	30-08-2022
Date of Test/Analysis:	30-08-2022 to 05-09-2022	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)]	64.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	58.7	IS 9989	70

Note :-

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Senior Analyst

Authorized Signatory
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TEST REPORT

Report No./ULR No. :	TC502522600001646	Date :	05-09-2022
Issued To :	M/S Hinduethan 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 :	24-08-2022
Point of Collection :	Near ZE	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktawat	Condition of Sample :	Ft 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)]	67.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.9	IS 9989	70

Notes :-

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Senior Analyst

Authorized Signatory

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TEST REPORT

Report No./JLR No. :	TC502522600001847	Date :	05-09-2022
Issued To :	M/S Hindustan 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 :	24-08-2022
Point of Collection :	Near Weigh Bridge	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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)]	65.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	54.8	IS 9989	70

Notes :-

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Senior Analyst

Authorized Signatory
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TEST REPORT

Report No./ULR No. :	TC502522600001848	Date :	05-09-2022
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter)	Type of Unit :	Smelter
Type of Sample :	Ambient Noise Level Monitoring	Date of Sample Collection/Monitoring :	24-08-2022
Point of Collection :	Near Leaching	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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)]	52.7	IS 9989	70

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502522600001848)

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TEST REPORT

Report No./ULR No. :	TC502522600001649	Date :	05-08-2022
Issued To :	M/S Hindustan 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 :	24-08-2022
Point of Collection :	Near MCTP Entrance	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-08-2022	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)]	65.4	IS 9969	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.8	IS 9989	70

Notes :-

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 Senior Analyst

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TEST REPORT

Report No./ULR No. :	TC502522600001650	Date :	05-09-2022
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 :	24-08-2022
Point of Collection :	Near Roaster	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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)]	67.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.7	IS 9989	70

Notes :-

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Senior Analyst -

Authorized Signatory

(Report No: TC502522600001650)

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TEST REPORT

Report No./ULR No. :	TC502522600001651	Date :	05-09-2022
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 :	24-08-2022
Point of Collection :	Near Work Shop	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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)]	62.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.5	IS 9989	70

Notes :

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Senior Analyst

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

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TEST REPORT

Report No./JLR No. :	TC502522600001652	Date :	05-08-2022
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 :	24-08-2022
Point of Collection :	Near Solar Area	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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

S.No	Parameters	RESULTS		
		Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	64.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.2	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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- # The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

Senior Analyst

Authorized Signatory
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TEST REPORT

Report No./ULR No. :	TC502522600001653	Date :	05-09-2022
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 :	24-08-2022
Point of Collection :	Near Hospital	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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)]	57.2	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.3	IS 9989	70

Notes :-

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TEST REPORT

Report No./ULR No.:	TC502522600001654	Date :	05-09-2022
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 :	25-08-2022
Point of Collection :	Near STP	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Navodita Shaktiawati	Condition of Sample :	Fit for testing

S.No	Parameters	RESULTS		
		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)]	51.8	IS 9989	70

Notes :

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 Senior Analyst

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TEST REPORT

Report No./JLR No. :	TC502522600001655	Date :	05-09-2022
Issued To :	M/S Hindustan 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 :	25-08-2022
Point of Collection :	Near Store	Date of Receipt :	30-08-2022
Date of Test/Analysis :	30-08-2022 to 05-09-2022	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)]	63.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	63.7	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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