

REGISTERED A.D.

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

Date: 29/11/2023

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

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

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

Dear Sir,

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

Thanking you,
Yours faithfully



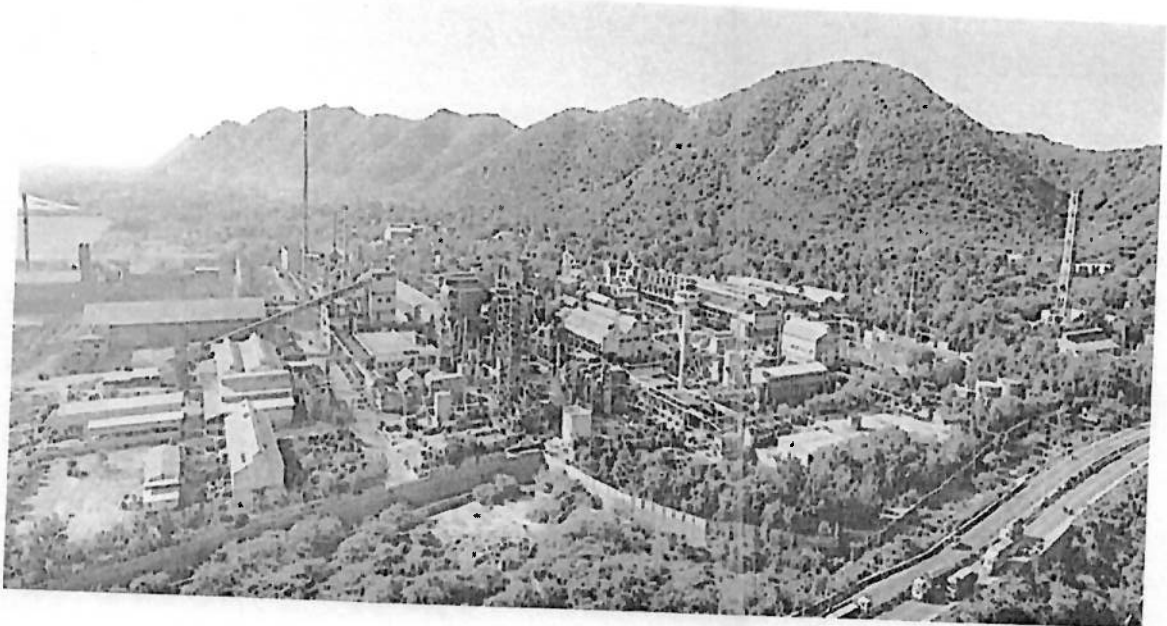
(Manas Tyagi)
Director- SBU, ZSD

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



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 2023 to 30th September 2023**

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

November, 2023

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

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

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

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

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

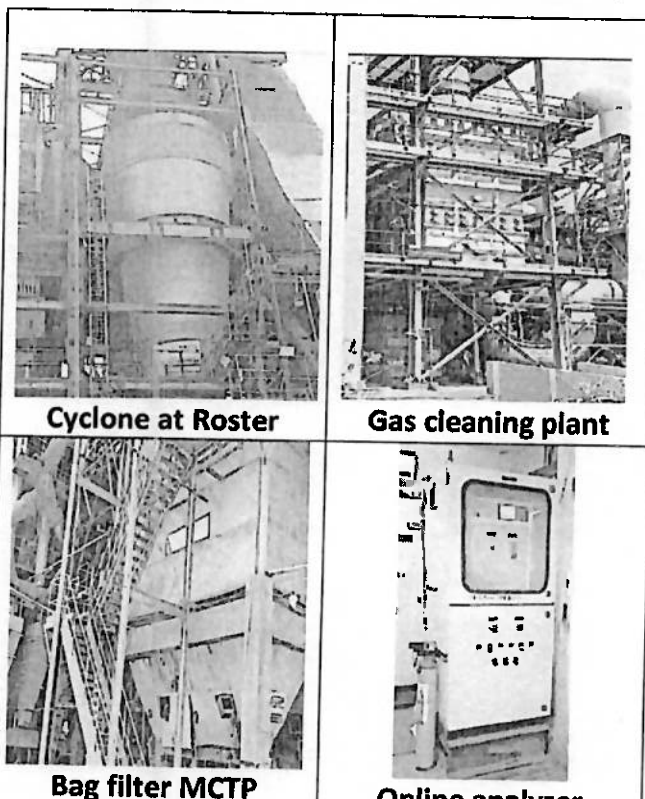
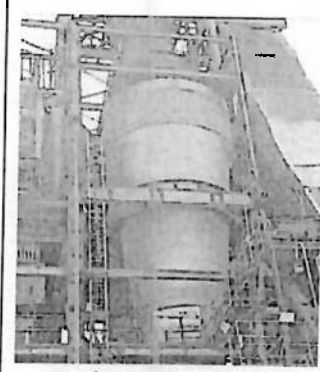
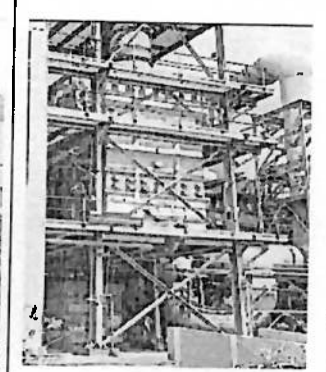
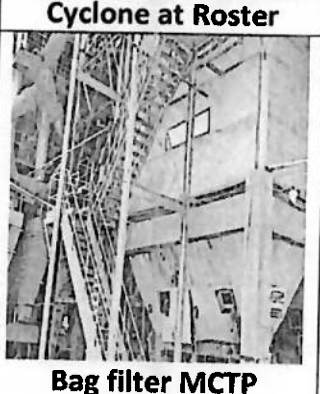
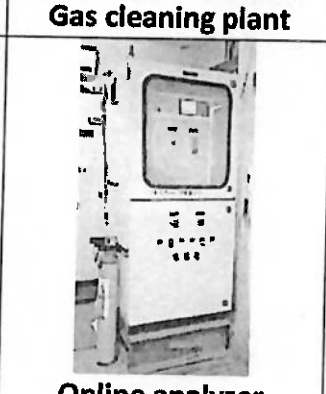
Name of the project: Expansion of Zinc Smelter (80,000 TPA to 1,00,000 TPA) at Debari, Udaipur Rajasthan by M/s Hindustan Zinc Ltd. – Environmental clearance regarding

Project Code:

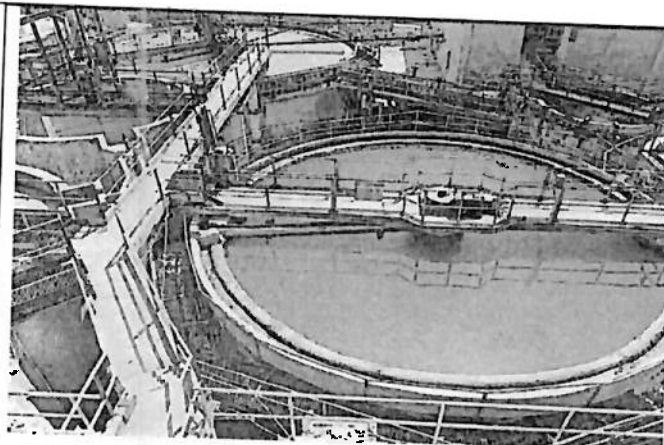
Clearance Letter No.: J-11011/479/2006-IA.II (I) dated 19th / 25th March, 2008

Period of Compliance Report: 01st April 2023 to 30th September 2023

Specific Conditions:

Sr.No	Condition	Compliance Status
1	<p>The company shall install on-line stack emission monitoring equipments for continuous monitoring of SO₂, NO_x, SPM and O₂ and all the pollution control measures shall be interlocked. The company shall install fume extractors and bag filters to control the emissions from all melting and casting units including Moore cake treatment plant. Cyclone, scrubber, wet ESP, Fluoride removal plant, absorption tower, demister etc. shall be installed in the Sulphuric acid plant I & II to control dust and SO₂ emissions within the stipulated limits of 50 mg/Nm³ and reports submitted to the Ministry including its Regional Office at Lucknow, CPCB and RSPCB.</p>	<p>All PCM's like Cyclone, scrubber, wet ESP, absorption tower, demister, etc. have been installed.</p> <p>Bag filters and fume extractors are provided and are operated efficiently in Zinc Melting, casting unit, Calcine handling system and Moore cake treatment plant.</p> <p>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 Apr.'23 to Sep.'23 are attached as Annexure – 1 and also reported to Pollution Control Board.</p> <div data-bbox="813 1108 1460 1904">  <div data-bbox="813 1142 1133 1512"></div> <div data-bbox="1133 1142 1460 1512"></div> <div data-bbox="813 1512 1133 1904"></div> <div data-bbox="1133 1512 1460 1904"></div> </div>

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 .	<p>SO₂ & Acid mist have been monitored on regular basis.</p> <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' 23</td><td>120.8</td><td>24.7</td><td>118.6</td><td>25.6</td></tr><tr><td>May'23</td><td>118</td><td>25.8</td><td>115</td><td>26.2</td></tr><tr><td>June' 23</td><td>121</td><td>28.6</td><td>119</td><td>27.3</td></tr><tr><td>July'23</td><td>119</td><td>25.3</td><td>PSD</td><td>PSD</td></tr><tr><td>Aug'23</td><td>122</td><td>26.2</td><td>119</td><td>25.6</td></tr><tr><td>Sep'23</td><td>119.7</td><td>21.6</td><td>116.9</td><td>22.7</td></tr></table> <p>All stack monitoring reports for the period Apr'23 to Sep'23 are attached as Annexure – 1A</p>	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' 23	120.8	24.7	118.6	25.6	May'23	118	25.8	115	26.2	June' 23	121	28.6	119	27.3	July'23	119	25.3	PSD	PSD	Aug'23	122	26.2	119	25.6	Sep'23	119.7	21.6	116.9	22.7
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' 23	120.8	24.7	118.6	25.6																																					
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Aug'23	122	26.2	119	25.6																																					
Sep'23	119.7	21.6	116.9	22.7																																					
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 Apr'23 to Sep'23 are attached as Annexure – 1 B .																																							
4	<p>Total water requirement from Udai Sagar Dam shall not exceed 8,000 m³/day as per the agreement signed with Govt. of Rajasthan. No ground water will be used.</p> <p>As reflected in the EIA/EMP, all the effluent generated from gas cleaning plant, Sulphuric acid plant, anode & cathode washing, demineralization plant and cooling tower shall be treated in the effluent treatment plant (ETP). The treated effluent shall conform to the prescribed standards and recycled to maintain the 'zero' discharge. Sewage shall be treated in sewage treatment plant (STP).</p>	<p>Total water consumption does not exceed 7,100 m³/day.</p> <p>Sources of fresh water is Mansiwakal and treated water from Common Sewage Treatment Plant. No ground water is abstracted for use.</p> <p>The effluents from these sources are treated in Effluent Treatment Plant followed by ETP(Capacity 5760 KLD) and further in RO-ZLD with MVR system (Capacity 3000 KLD) to ensure effective treatment and Zero Liquid Discharge (ZLD) and to improve quality and quantity of treated water and its recycling in process. All treated water is being used in process. Additional RO-ZLD with MVR system is also ensures effective and mechanized evaporation and treatment of Reject generated from treatment process.</p>																																							



Effluent treatment plant (ETP)

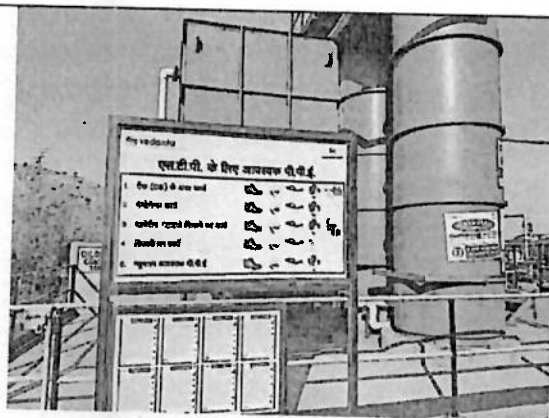
The sample of treated effluent are regularly collected and analyzed as per IS & CPCB approved procedures & treated effluent confirms the limits prescribed by the Board.

The treated water is recycled and zero discharge is maintained.

Reports of treated effluent for the period April'23 to Sep.'23 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 Apr'23 to Sep'23 are attached as **Annexure -3A & 3B**.

Results of Piezowells for period of Apr'23 to Sep'23 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 disposed off in common hazardous

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

	<p>waste management facility (CHWMF) at Gudli of M/s Ramky.</p> <p>The Jarosite sludge shall be neutralized with hydrated lime and disposed off in secured landfill (SLF) inside the plant premises. ETP sludge in the form of cake shall be recycled in the Moore cake treatment Plant. Waste/used oil shall be sold to registered recyclers. Valid membership to CHWMF shall be obtained.</p>	<p>recyclers.</p> <ul style="list-style-type: none"> 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. Now 100 % of Jarosite generated from process is being sent for co-processing in cement industries ETP sludge is disposed off in common hazardous waste management facility (CHWMF) at Gudli of M/s Ramky All the process residues & other Hazardous wastes are handled & disposed as per granted Authorization & HWR-2016. Membership no. 373 obtained for CHWMF through UCCI, Udaipur vide letter no. UCCI/HWM-373/2022-23-340.
6	<p>As proposed in EIA/EMP, canopy based green belt of adequate width and density in and around the periphery of plant in 67.5 ha. Out of total 190.05 ha. Shall be developed as per CPCB guidelines.</p>	<p>Around 76 hectare area is covered under green belt out of lease area of 190.05 hectare including lawns. Green belt developed in the factory is maintained .</p> <div data-bbox="869 1108 1444 1400" data-label="Image"> </div> <p>Plantation view around the plant area</p> <div data-bbox="821 1433 1476 1870" data-label="Image"> </div>
7	<p>Permission and recommendations of the State Forest Department</p>	<p>In consultation with forest department following actions are taken for conservation of wild fauna</p>

	<p>regarding impact of the proposed expansion on surrounding 18 reserve forests shall be obtained and all the recommendations shall be implemented. Further, Conversation Plan for the conservation of wild fauna in consultation with the State Forest Department shall be prepared and implemented.</p>	<p>around premises:</p> <ul style="list-style-type: none"> • Display board for awareness indicating conservation of wild fauna. • Total 10200 no. plantation done in FY 22-23. • 20000 no. plantation done in Q1 of FY 23-24. • 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. • Butterfly Park developed in ZSD colony. • Awareness program conducted for employees and their families on the occasion of National energy conservation day, Water day, Biodiversity day, Earth day & World Environment Day. 
8	<p>Regular medical examination and health monitoring of all the employees for Lead (Pb) and Cadmium (Cd) shall be carried out and if cases of presence of Lead (Pb) and Cadmium (Cd) are detected, necessary compensation shall be arranged under the existing laws. A competent occupational health physician shall be appointed to carry out medical surveillance. Occupational health of all the workers shall be monitored for relevant parameters and records maintained for at least 40 years from the beginning of the employment or 15 years after the retirement or</p>	<p>Regularly, all the employees are undergoing periodical medical check-ups for health impact due to industrial activity. Check up for lead and cadmium is carried out for all workmen working in that area and randomly for others. The blood samples are analyzed by expert team of HZL. We are having qualified & experienced medical officers with us.</p> <ol style="list-style-type: none"> 1. Dr. Sumit Siroya – MBBS, PGDD, FID, AFIH with 13 years experience. <p>Records are maintained as per requirement.</p>

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

		 <p>Vaccum cleaner- Road sweeper</p>  <p>Vaccum cleaner- Road sweeper</p> <ul style="list-style-type: none"> Green Belt: The details of developed greenbelt as per CPCB guidelines is as below: Total ZSD area: 190.05 Hectare Green-belt area: 76.0 Hectare
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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	<ul style="list-style-type: none"> The emission results are mentioned above against specific condition no. 1 & 2 and are well within prescribed standards. The emission is well within the prescribed limit. All the pollution control equipment are interlocked.

	<p>more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.</p> <p>At no time, the emissions level shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.</p>																														
4	<p>Adequate number of ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO₂ and NO_x are anticipated in consultation with the Rajasthan State Pollution Control Board.</p> <p>Data on ambient air quality and stack emission shall be regularly submitted to the Ministry including its Regional Office at Lucknow and the CPCB/ RSPCB once in six months.</p>	<ul style="list-style-type: none">Four ambient air quality monitoring stations are established in consultation with Rajasthan State Pollution Control Board. Reports are submitted to statutory authorities periodically.Third party monitoring of Ambient air quality carried out by NABL, RSPCB and MoEF&CC accredited laboratory is attached as Annexure 1. The result are submitted to concern authority on regular basis. The average values of reporting period are given as below: <table><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 Solar</th></tr><tr><td>PM₁₀</td><td>75.11</td><td>81.33</td><td>80.12</td><td>81.11</td></tr><tr><td>PM_{2.5}</td><td>35.19</td><td>40.93</td><td>36.46</td><td>33.76</td></tr><tr><td>SO₂</td><td>6.63</td><td>7.32</td><td>7.47</td><td>7.14</td></tr><tr><td>NO₂</td><td>15.54</td><td>15.68</td><td>13.75</td><td>15.66</td></tr></table>	Parameter	Average Value (in µg/ m ³)				Laboratory	Near Railway gate	Near ETP	Near Solar	PM ₁₀	75.11	81.33	80.12	81.11	PM _{2.5}	35.19	40.93	36.46	33.76	SO ₂	6.63	7.32	7.47	7.14	NO ₂	15.54	15.68	13.75	15.66
Parameter	Average Value (in µg/ m ³)																														
	Laboratory	Near Railway gate	Near ETP	Near Solar																											
PM ₁₀	75.11	81.33	80.12	81.11																											
PM _{2.5}	35.19	40.93	36.46	33.76																											
SO ₂	6.63	7.32	7.47	7.14																											
NO ₂	15.54	15.68	13.75	15.66																											
5	<p>Fugitive emissions, acid mist vapours, fumes and SO₂ shall be controlled and work environment monitored for prevailing contaminants regularly. Fugitive dust emissions in the handling area and at various transfer points shall be minimized by provision of dust suppression system.</p> <p>Bag filters shall be installed in Roaster, calcine handling & storage section, Zn atomizing unit, Dross</p>	<ul style="list-style-type: none">Monitoring of all said parameters is done regularly.For dust suppression regular water spraying is done. Also mechanized road sweeping machine has been deployed to clean roads.Bag filters are installed at said locations to control fugitive emissionsAll the roads are asphalted & cemented. To minimize the fugitive dust, mechanized vacuum dust cleaner is used for road sweeping/cleaning.																													

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

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-ZLD and STP.
- For Hazardous waste management, best available technology being used for waste minimization and disposal of Hazardous waste is done as per Authorization conditions.

11

The project authorities shall provide Rs. 76.00 crores towards environmental pollution control measures to implement the conditions stipulated by the Ministry of Environment and Forests as well as the Government and submit and implementation schedule for all the conditions stipulated herein to this

- Incurred Rs. 76 Crore towards environmental pollution control measures.
- Breakup expenditure for Rs. 76 Crore is as under:

Area/Equipments	Cost (Rs. in Crores)
Acid Plant	33.0
Gas Cleaning	16.0
ESP,Bag Filter,Stacks	13.0

	Ministry and its Regional Office at Lucknow. The funds so provided shall not be diverted for any other purposes.	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
		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 2022-2023 Rs. 1632 Lacs	
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 19.05.2023. 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 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 be forwarded to the Regional office.	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.	
14	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure	Date of commencement of land development work is 4 th January-2007.	

	and final approval of the project by the concerned authorities and the date of commencing the land development work	
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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

Office : E-65, Chitranjan Marg,
C-Scheme, Jaipur - 302001, Rajasthan
Phone : +91 6377210064, 9414077379,
Website : www.teamtesthouse.com
Email : team.bdhead@gmail.com

Laboratory : G1-584, RIICO Industrial Area,
Sitapura, Jaipur - 302022, Rajasthan
Phone : +91 9460222039, 9460222049,
Email : director@teamtesthouse.com,
Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523400001427	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:00 to 19-01-2023 06:00
Point of Collection :	Laboratory Top	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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]	510	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.22	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.44	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	APHA 1977, Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	30.27	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	5.15	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	76.87	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]	6.3	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Purani
Purani Mal Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523400001427)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001427	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:00 to 19-01-2023 06:00
Point of Collection :	Laboratory Top	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: 400001427)



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TEST REPORT

Report No./ULR No. :	TC502523400001428	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:02 to 19-05-2023 17:02
Point of Collection :	Near Railway Gate	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(<10.0)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	430	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.2	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.53	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	36.57	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	5.54	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	82.46	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	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Kumar Singh
Authorized Signatory
(Report No: TC502523400001428)



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TEST REPORT

Report No./ULR No. :	400001428	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:02 to 19-05-2023 17:02
Point of Collection :	Near Railway Gate	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

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

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Purni Mal Yogi
Senior Analyst

Neha Maheshwari
Authorized Signatory
(Report No: 400001428)



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TEST REPORT

Report No./ULR No. :	TC502523400001429	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-05-2023 17:04 to 18-05-2023 17:03
Point of Collection :	Near ETP	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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]	390	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.22	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.33	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	38.03	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	5.53	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	80.49	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]	5.8	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Puran **Yogi**

Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory

(Report No: TC502523400001429)



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TEST REPORT

Report No./ULR No. :	400001429	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-05-2023 17:04 to 18-05-2023 17:03
Point of Collection :	Near ETP	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

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

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Senior Analyst

Authorized Signatory
(Report No: 400001429)



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TEST REPORT

Report No./ULR No. :	TC502523400001430	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-05-2023 17:06 to 18-05-2023 17:06
Point of Collection :	Near Solar Plant	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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]	420	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.2	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	14.81	IS 5182 (Part 6) : 2006 Reaffirmed 2017	80.00
5	Ozone [microgram/m3]	BDL(< 20)	APHA 1977,Part 819	100.00
6	Particulate Matter (PM2.5) [microgram/m3]	34.88	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	6.58	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	79.11	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]	6.3	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Purni Mal Yogi
Senior Analyst

Authorized Signatory
(Report No: TC502523400001430)



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TEST REPORT

Report No./ULR No. :	400001430	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	17-05-2023 17:06 to 18-05-2023 17:06
Point of Collection :	Near Solar Plant	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Purnima Yogi
Senior Analyst

Authorized Signatory
(Report No: 400001430)



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TEST REPORT

Report No./ULR No. :	23400001939	Date :	24-08-2023
Issued To :	M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 15:51 to 19-08-2023 15:51
Point of Collection :	Laboratory Top	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 23-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	360	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.1	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	16.64	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]	40.11	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	8.11	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	73.37	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	7.3	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Sumit Kumar
Senior Analyst

Manoj Yogi
Authorized Signatory
(Report No: 23400001939)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001939	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 15:51 to 19-08-2023 15:51
Point of Collection :	Laboratory Top	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 23-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

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

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 400001939)



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

TEST REPORT

Report No./ULR No. :	23400001940	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 15:53 to 19-08-2023 15:53
Point of Collection :	Near Railway Gate	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 23-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	380	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.24	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	16.83	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]	45.29	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	9.11	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	80.21	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	7.4	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 23400001940)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	400001940	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 15:53 to 19-08-2023 15:53
Point of Collection :	Near Railway Gate	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 23-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

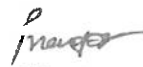
RESULTS

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

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TEST REPORT

Report No./ULR No. :	23400001941	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 15:54 to 19-08-2023 15:54
Point of Collection :	Near ETP	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 23-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	410	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.21	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	13.18	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]	34.89	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	9.42	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	79.76	IS 5182 (Part 23)-2006 RA 2017	100.00
9	Arsenic [ng/m3]	BDL(<2.0)	IS 5182 (Part 22) : 2004 Reaffirmed 2019	6.00
10	Nickel [ng/m3]	6.9	IS 5182 : Part 26 : 2020	20.00

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Senior Analyst

Authorized Signatory
(Report No. 23400001941)



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TEST REPORT

Report No./ULR No. :	400001941	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 15:54 to 19-08-2023 15:54
Point of Collection :	Near ETP	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 23-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

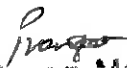
RESULTS

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

Notes :-

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TEST REPORT

Report No./ULR No. :	23400001942	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 16:00 to 19-08-2023 16:01
Point of Collection :	Near Solar Area	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 23-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per National Ambient Air Quality Standard, 2009
1	Ammonia [microgram/m3]	BDL(< 20)	IS 5182 (Part 25) : 2018	400.00
2	Carbon Monoxide [microgram/m3]	370	TTH/AAQM/08	4000
3	Lead [microgram/m3]	0.2	IS 5182 (Part 22) : 2004 Reaffirmed 2019	1.00
4	Nitrogen Dioxide as NO2 [microgram/m3]	16.51	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]	32.65	IS 5182 (Part 24) : 2019	60.00
7	Sulphur Dioxide [microgram/m3]	7.7	IS 5182 (Part 2) : 2001 RA 2017	80.00
8	Particulate Matter (PM 10) [microgram/m3]	83.11	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]	6.8	IS 5182 : Part 26 : 2020	20.00

Notes :-

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Senior Analyst
Soni Kumar


Authorized Signatory
Prakash Mal Yogi
(Report No: 23400001942)



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TEST REPORT

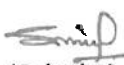
Report No./ULR No. :	400001942	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Air Quality Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 16:00 to 19-08-2023 16:01
Point of Collection :	Near Solar Area	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 23-08-2023	Sampling Plan :	IS 5182:2000(Part 14)RA 2014
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

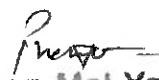
RESULTS

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

Notes :-

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Senior Analyst


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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000506	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	120.8	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Senior Analyst
Mal Yogi

Authorized Signatory
(Report No: TC502523500000506)



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

TEST REPORT


Report No./ULR No. :	500000506	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	24.7	USEPA Method 8A

Notes :-

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Senior Analyst : Yogi


Authorized Signatory
(Report No: 500000506)



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TEST REPORT

Report No./ULR No. :	TC502523500000507	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	11-04-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	118.6	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523500000507)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	500000507	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	11-04-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Rupa
Senior Analyst Yogi

Rupa
Authorized Signatory
(Report No: 500000507)



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

TEST REPORT

Report No./ULR No. :	TC502523500000606	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	19-05-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	118	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Purnima Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523500000606)



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

TEST REPORT

Report No./ULR No. :	500000606	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	19-05-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	25.8	USEPA Method 8A

Notes :-

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Puran
Puran Mal Yogi
Senior Analyst

Puran
Authorized Signatory
(Report No: 500000606)



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TEST REPORT

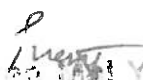
Report No./ULR No. :	TC502523500000607	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	19-05-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst


Authorized Signatory

(Report No: TC502523500000607)



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Report No./ULR No. :	500000607	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	19-05-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	26.2	USEPA Method 8A

Notes :-

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 500000607)



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TEST REPORT

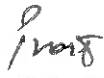
Report No./ULR No. :	TC502523500000725	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	20-06-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	121	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Senior Analyst
Puran Mal Yogi


Rajesh Maheshwari
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(Report No: TC502523500000725)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	500000725	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	20-06-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	28.6	USEPA Method 8A

Notes :-

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Purnima Yogi
Senior Analyst

Rajesh Maheshwari
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(Report No: 500000725)



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TEST REPORT


Report No./ULR No. :	TC502523500000726	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	20-06-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm3]	119	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Senior Analyst Yogi


Authorized Signatory
(Report No: TC502523500000726)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	500000726	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	20-06-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	27.3	USEPA Method 8A

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: 500000726)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000799	Date :	22-07-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	08-07-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 22-07-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Puran Mal Yogi
Senior Analyst

Neha Maheshwari
Authorized Signatory
(Report No: TC502523500000799)



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

TEST REPORT


Report No./ULR No. :	500000799	Date :	22-07-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	08-07-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 22-07-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	25.3	USEPA Method 8A

Notes :-

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P. Ranjan
Senior Analyst


Neha Maheshwari
Authorized Signatory
(Report No: 500000799)



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


Report No./ULR No. :	TTH/HZL/DZS/01	Date :	22-07-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring	08-07-2023
Point of Collection :	Stack Roaster-III	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 22-07-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value
1	Sulphur Dioxide [mg/Nm ³]	Shut Down
2	Acid Mist [mg/m ³]	

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: TTH/HZL/DZS/01)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

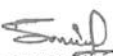
Report No./ULR No. :	23500000862	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-08-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 24-08-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	122	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Senior Analyst
Sunil Kumar


Authorised Signatory
Ramesh Mal Yogi
(Report No: 23500000862)



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Email : director@teamtesthouse.com,
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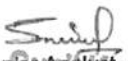
Report No./ULR No. :	500000862	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-08-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 24-08-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	26.2	USEPA Method 8A

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 500000862)



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

TEST REPORT

Report No./ULR No. :	23500000863	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-08-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 24-08-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

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

Notes :-

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Senior Analyst
Sunit Kumar


Authorized Signatory
Rajan Mal Yogi
(Report No: 23500000863)



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TEST REPORT

Report No./ULR No. :	500000863	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-08-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 24-08-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

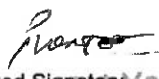
RESULTS

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

Notes :-

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Senior Analyst
Sumi Kumar


Authorized Signatory
(Report No: 500000863)
Purnanwar Yogi



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23500000987	Date :	04-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	22-09-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

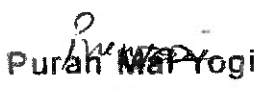
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	119.7	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Sunil Kumar
Senior Analyst


Purnan Mahayogi
Authorized Signatory
(Report No: 23500000987)



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TEST REPORT

Report No./ULR No. :	500000987	Date :	04-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	22-09-2023
Point of Collection :	Stack Roaster-II	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	21.6	USEPA Method 8A

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 500000987)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23500000988	Date :	04-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	21-09-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Sulphur Dioxide [mg/Nm ³]	116.9	IS 11255(Part 2) :1985 Reaffirmed 2014

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 23500000988)



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TEST REPORT

Report No./ULR No. :	500000988	Date :	04-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	21-09-2023
Point of Collection :	Stack Roaster III	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

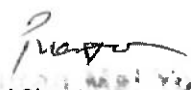
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Acid Mist [mg/m3]	22.7	USEPA Method 8A

Notes :-

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Sunil Kumar
Senior Analyst


Authorized Signatory
(Report No: 500000988)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000504	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Induction Furnace Stack	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	16.68	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Yogi
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523500000504)



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Email : marketinglab@teamtesthouse.com

TEST REPORT


Report No./ULR No. :	TC502523500000505	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Azex Furnace	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	18.74	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst Yogi


Authorized Signatory
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000502	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	MCTP Stack	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	26.06	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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P. Yogi

Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502523500000502)



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

TEST REPORT

Report No./ULR No. :	TC502523500000503	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Demag & Slag Furnace Stack	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	25.2	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Puran Mal Yogi
Senior Analyst

Neha Maheshwari
Authorized Signatory
(Report No: TC502523500000503)



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

TEST REPORT

Report No./ULR No. :	500000502	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	MCTP Stack	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Lead [mg/Nm ³]	0.31	USEPA method 29

Notes :-

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Purnan Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: 500000502)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000604	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-05-2023
Point of Collection :	Induction Furnace Stack	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	40.41	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: TC502523500000604)



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

TEST REPORT

Report No./ULR No. :	TC502523500000605	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-05-2023
Point of Collection :	Azex Furnace	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	40.03	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523500000605)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000603	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-05-2023
Point of Collection :	Zinc Melting & Stag Grinding Stack	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	33.65	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Purni Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory

(Report No: TC502523500000603)



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TEST REPORT

Report No./ULR No. :	TC502523500000602	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	09-05-2023
Point of Collection :	MCTP Stack	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	35.48	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst

Authorized Signatory

(Report No: TC502523500000602)



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Report No./ULR No. :	500000602	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	09-05-2023
Point of Collection :	MCTP Stack	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Lead [mg/Nm3]	0.32	USEPA method 29

Notes :-

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Purni Mat Yogi
Senior Analyst


Rajesh Maheshwari
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(Report No: 500000602)



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TEST REPORT

Report No./ULR No. :	TC502523500000721	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	19-06-2023
Point of Collection :	Induction Furnace Stack	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	38.46	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst
Purati Mal Yogi

Authorized Signatory
Rajesh Maheshwari
(Report No: TC502523500000721)



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TEST REPORT

Report No./ULR No. :	TC502523500000722	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	19-06-2023
Point of Collection :	Azex Furnace	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	17.7	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst
Puran Mal Yogi

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502523500000722)



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Report No./ULR No. :	TC502523500000723	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	19-06-2023
Point of Collection :	Slag Grinding	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	43.21	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst
Purnan Mai Yogi


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Report No./ULR No. :	TC502523500000720	Date :	30-06-2023
Issued To :	M/S Hindustan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	10-06-2023
Point of Collection :	MCTP Stack	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	33.59	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Purnima Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523500000720)



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TEST REPORT

Report No./ULR No. :	500000720	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	10-06-2023
Point of Collection :	MCTP Stack	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Lead [mg/Nm ³]	0.05	USEPA method 29

Notes :-

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Senior Analyst
Puran Mal Yogi


Authorized Signatory
(Report No: 500000720)



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TEST REPORT

Report No./ULR No. :	TC502523500000718	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-06-2023
Point of Collection :	DG Set /CPP-1	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	54.36	IS 11255 (Part 1):1985 Reaffirmed 2014	75
2	Oxide of Nitrogen [mg/Nm ³]	350	IS 11255 (Part 7) :1985 Redffirmed 2012	710 ppmv
3	Carbon monoxide [mg/Nm ³]	130	Instruction Manual Kane 900 Plus	150

Notes :-

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Senior Analyst
Yogi

Regional Manager
(Report No: TC502523500000718)



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TEST REPORT

Report No./ULR No. :	500000718	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-06-2023
Point of Collection :	DG Set /CPP-1	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
4	Non Methane Hydrocarbon as HC [mg/Nm ³]	46	IS 5182 (Part 21) : 2001 RA 2017	100

Notes :-

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Sanjay Mal Yogi

Rajesh Maheshwari
(Report No: 500000718)



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TEST REPORT

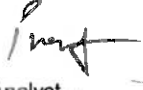
Report No./ULR No. :	TC502523500000719	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	10-06-2023
Point of Collection :	DG Set /CPP-II	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	50.43	IS 11255 (Part 1):1985 Reaffirmed 2014	75
2	Oxide of Nitrogen [mg/Nm ³]	346	IS 11255 (Part 7) :1985 Redfirmed 2012	710 ppmv
3	Carbon monoxide [mg/Nm ³]	127	Instruction Manual Kane 900 Plus	150

Notes :-

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Senior Analyst
Rajesh Maheshwari


Authorized Signatory
(Report No: TC502523500000719)



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Report No./ULR No. :	500000719	Date :	30-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	10-06-2023
Point of Collection :	DG Set /CPP-II	Date of Receipt :	23-06-2023
Date of Test/Analysis :	23-06-2023 to 29-06-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
4	Non Methane Hydrocarbon as HC [mg/Nm3]	42	IS 5182 (Part 21) : 2001 RA 2017	100

Notes :-

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Senior Analyst

Puran Mal Yogi

Rajendra Singh
(Report No: 500000719)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000797	Date :	22-07-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	08-07-2023
Point of Collection :	Induction Furnace Stack	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 22-07-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	36.11	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523500000797)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523500000796	Date :	22-07-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	08-07-2023
Point of Collection :	Azex Furnace	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 22-07-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	29.56	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst Yogi


Authorized Signatory
(Report No: TC502523500000796)



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TEST REPORT


Report No./ULR No. :	TC502523500000798	Date :	22-07-2023
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	08-07-2023
Point of Collection :	Slag Grinding & Zinc Melting Stack	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 22-07-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	24.32	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst **Mal Yogi**


Authorized Signatory
(Report No: TC502523500000798)



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TEST REPORT

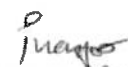
Report No./ULR No. :	TC502523500000801	Date :	22-07-2023
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	08-07-2023
Point of Collection :	MCTP Stack	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 22-07-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	25.25	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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P. Maheshwari
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523500000801)



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Email : marketinglab@teamtesthouse.com

TEST REPORT


Report No./ULR No. :	500000801	Date :	22-07-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	08-07-2023
Point of Collection :	MCTP Stack	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 22-07-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Lead [mg/Nm3]	0.05	USEPA method 29

Notes :-

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Senior Analyst **Mal Yogi**


Authorized Signatory
(Report No: 500000801)



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TEST REPORT

Report No./ULR No. :	23500000859	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-08-2023
Point of Collection :	Induction Furnace Stack	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 24-08-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	38.33	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst
Sant Kumar


Authorised Signatory
Raman Mal Yogi
(Report No: 23500000859)



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TEST REPORT

Report No./ULR No. :	23500000860	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	16-08-2023
Point of Collection :	Azex Furnace	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 01-09-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	25.63	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Sunil Kumar
Senior Analyst


Purnan Mal Yogi
Authorized Signatory
(Report No: 23500000860)



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TEST REPORT

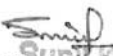
Report No./ULR No. :	23500000858	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-08-2023
Point of Collection :	Zinc Melting & Stag Grinding Stack	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 24-08-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	32.52	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst


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(Report No: 23500000858)



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Email : marketinglab@teamtesthouse.com

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Report No./ULR No. :	23500000857	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-08-2023
Point of Collection :	MCTP Stack	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 24-08-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	29.08	IS 11255 (Part 1):1985 Reaffirmed 2014

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Senior Analyst


Authorized Signatory
Purushottam Yogi
(Report No: 23500000857)



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

TEST REPORT

Report No./ULR No. :	500000857	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	18-08-2023
Point of Collection :	MCTP Stack	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 24-08-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
2	Lead [mg/Nm3]	0.11	USEPA method 29

Notes :-

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Senior Analyst

Authorized Signatory Yogi
(Report No: 500000857)



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TEST REPORT

Report No./ULR No. :	23500000855	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	14-08-2023
Point of Collection :	DG Set /CPP-1	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 01-09-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

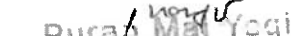
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm3]	49.53	IS 11255 (Part 1):1985 Reaffirmed 2014	75
2	Oxide of Nitrogen [mg/Nm3]	351	IS 11255 (Part 7):1985 Redfirmed 2012	710 ppmv
3	Carbon monoxide [mg/Nm3]	128	Instruction Manual Kane 900 Plus	150

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 23500000855)



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TEST REPORT

Report No./ULR No. :	500000855	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	14-08-2023
Point of Collection :	DG Set /CPP-1	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 01-09-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
4	Non Methane Hydrocarbon as HC [mg/Nm ³]	41	IS 5182 (Part 21) : 2001 RA 2017	100

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 500000855)



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Email : marketinglab@teamtesthouse.com

TEST REPORT


Report No./ULR No. :	23500000856	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	14-08-2023
Point of Collection :	DG Set /CPP-II	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 01-09-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Particulate matter [mg/Nm ³]	54.51	IS 11255 (Part 1):1985 Reaffirmed 2014	75
2	Oxide of Nitrogen [mg/Nm ³]	355	IS 11255 (Part 7):1985 Redfirmed 2012	710 ppmv
3	Carbon monoxide [mg/Nm ³]	135	Instruction Manual Kane 900 Plus	150

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 23500000856)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	500000856	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	14-08-2023
Point of Collection :	DG Set /CPP-II	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 01-09-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

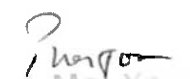
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
4	Non Methane Hydrocarbon as HC [mg/Nm ³]	44	IS 5182 (Part 21) : 2001 RA 2017	100

Notes :-

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Authorized Signatory
(Report No: 500000856)



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TEST REPORT

Report No./ULR No. :	23500000985	Date :	04-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	21-09-2023
Point of Collection :	Induction Furnace Stack	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

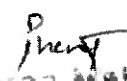
RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	18.74	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Senior Analyst


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TEST REPORT

Report No./ULR No. :	23500000986	Date :	04-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	21-09-2023
Point of Collection :	Azex Furnace	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	30.28	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Sunil Kumar

Senior Analyst

[Signature]

Authorized Signatory
(Report No: 23500000986)



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TEST REPORT

Report No./ULR No. :	23500000984	Date :	04-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	22-09-2023
Point of Collection :	Zinc Melting & Stag Grinding Stack	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	kishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	Particulate matter [mg/Nm ³]	16.26	IS 11255 (Part 1):1985 Reaffirmed 2014

Notes :-

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Sunil Kumar
Senior Analyst

Purni Mal Yogi
Authorized Signatory
(Report No: 23500000984)



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TEST REPORT

Report No.	500001052	Date :	05-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Stack Emission Level / Chemical	Date of Sample Collection/Monitoring :	22-09-2023
Point of Collection :	MCTP Stack	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023	Sampling Plan :	IS 11255:2008(Part 3)RA 2018
Quantity of Sample :	-	Sample Collected By :	Krishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

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

Notes :-

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Sunil Kumar
Senior Analyst


Purnan Mal Yogi
Authorized Signatory
(Report No: 500001052)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523200000854	Date :	28-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	ETP Outlet	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 28-04-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	8	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	9.67	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	728.5	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	66.74	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	7.46	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]	0.11	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.08	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]	0.07	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10

Notes :-

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Vimal Kumar
Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502523200000854)



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TEST REPORT

Report No./ULR No. :	TC502523200001118	Date :	06-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	20-05-2023
Point of Collection :	ETP Outlet	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 06-06-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	20	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	10	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	1165.6	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	75.26	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.22	APHA:2017 : 4500-F-C	2.0
7	pH	7.82	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]	0.13	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	0.06	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.05	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523200001118)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523200001747	Date :	08-07-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	20-06-2023
Point of Collection :	ETP Outlet	Date of Receipt :	22-06-2023
Date of Test/Analysis :	22-06-2023 to 08-07-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	6	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	4.75	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	909.29	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	18.3	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.03	APHA:2017 : 4500-F-C	2.0
7	pH	7.39	APHA:2017 : 4500 H+B	5.5 - 9.0
8	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
9	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B	2.0
10	Copper [mg/l]	0.04	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.06	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	0.11	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.02	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10

Notes :-

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Sanjit Kumar
Senior Analyst

Raj
Authorized Signatory
(Report No: TC502523200001747)



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TEST REPORT

Report No./ULR No. :	23200001884	Date :	01-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	08-07-2023
Point of Collection :	ETP Outlet	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 01-08-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	15	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	8.29	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	641.29	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	67.58	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.24	APHA:2017 : 4500-F-C	2.0
7	pH	7.56	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]	0.13	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	0.06	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.15	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10

Notes :-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: 23200001884)



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

TEST REPORT

Report No./ULR No. :	23200002443	Date :	01-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	ETP Outlet	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 01-09-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

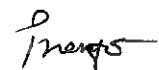
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	21	APHA.2017:2540-D	100
2	Biochemical Oxygen Demand (BOD) [mg/l]	9.5	APHA 2017:5210-B	30
3	Chloride as Cl [mg/l]	589.25	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	72.5	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.35	APHA:2017 : 4500-F-C	2.0
7	pH	7.42	APHA:2017 : 4500 H+B	5.5 - 9.0
8	Sulphide as S [mg/l]	BDL(<0.1)	APHA. 2017 : 4500-S2-F	2
9	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B	2.0
10	Copper [mg/l]	0.04	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.10	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	0.05	APHA :2017 :3111- B	3.0
14	Zinc [mg/l]	0.19	APHA :2017 :3111- B	5.0
15	Oil & Grease [mg/l]	3	APHA 2017 : 5520 B	10

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 23200002443)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23200002762	Date :	04-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	21-09-2023
Point of Collection :	ETP Outlet	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	kishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	30	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]	736.3	APHA 2017 : 4500- Cl- B	-
4	Chemical Oxygen Demand (COD) [mg/l]	59.28	APHA:2017 : 5220-C	250
5	Cyanide [mg/l]	Less than 0.05	APHA 2017 : 4500- CN D	0.2
6	Fluoride [mg/l]	1.44	APHA:2017 : 4500-F-C	2.0
7	pH	7.12	APHA:2017 : 4500 H+B	5.5 - 9.0
8	Sulphide as S [mg/l]	BDL (<0.1)	APHA. 2017 : 4500-S2-F	2
9	Cadmium [mg/l]	BDL(<0.001)	APHA :2017 :3111- B	2.0
10	Copper [mg/l]	0.04	APHA :2017 :3111- B	3.0
11	Iron [mg/l]	0.12	APHA :2017 :3111- B	3.0
12	Lead [mg/l]	BDL(<0.01)	APHA :2017 :3111- B	0.1
13	Nickel [mg/l]	0.06	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
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 23200002762)

Annex - 3A



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TEST REPORT

Report No./ULR No. :	TC502523200000853	Date :	28-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 28-04-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	42	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	9.03	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	6	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	21.28	APHA:2017 : 5220-C	250
5	pH	7.19	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10
7	Nitrate as NO3 [mg/l]	14.63	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sumit Kumar

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523200000853)



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TEST REPORT

Report No./ULR No. :	TC502523200001117	Date :	06-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	20-05-2023
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 06-06-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	47	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	11.57	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	6.25	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	25.84	APHA:2017 : 5220-C	250
5	pH	7.24	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10
7	Nitrate as NO3 [mg/l]	11.29	APHA 2017 : 4500-NO3- B	50

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523200001117)



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TEST REPORT

Report No./ULR No. :	TC502523200001746	Date :	08-07-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	20-06-2023
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	22-06-2023
Date of Test/Analysis :	22-06-2023 to 08-07-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	34	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	9.11	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	7.17	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	36.61	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	Nitrate as NO3 [mg/l]	9.88	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sunil Kumar
Senior Analyst

Rakesh Kumar
Authorized Signatory

(Report No: TC502523200001746)



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

TEST REPORT

Report No./ULR No. :	23200001883	Date :	01-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	08-07-2023
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 01-08-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	41	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	8.12	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	6.5	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	30.98	APHA:2017 : 5220-C	250
5	pH	7.03	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10
7	Nitrate as NO3 [mg/l]	11.17	APHA 2017 : 4500-NO3- B	50

Notes :-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 23200001883)



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TEST REPORT

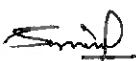
Report No./ULR No. :	23200002442	Date :	01-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 01-09-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

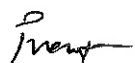
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	10	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	2.07	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	6.71	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	33.79	APHA:2017 : 5220-C	250
5	pH	7.56	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10
7	Nitrate as NO3 [mg/l]	12.42	APHA 2017 : 4500-NO3- B	50

Notes :-

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No: 23200002442)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23200002761	Date :	04-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	21-09-2023
Point of Collection :	STP Outlet (Plant)	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	kishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	6	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	6.11	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	5.5	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	19.76	APHA:2017 : 5220-C	250
5	pH	7.10	APHA:2017 : 4500 H+B	5.5 - 9.0
6	Oil & Grease [mg/l]	2	APHA 2017 : 5520 B	10
7	Nitrate as NO3 [mg/l]	13.21	APHA 2017 : 4500-NO3- B	50

Notes :-

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Sunil Kumar
Senior Analyst

Rajesh Maheshwari

Authorized Signatory
(Report No: 23200002761)



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

TEST REPORT

Report No./ULR No. :	TC502523200000856	Date :	28-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 28-04-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	8	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	12.63	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	9.25	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	63.84	APHA:2017 : 5220-C	250
5	pH	7.30	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]	5.48	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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Senior Analyst

Authorized Signatory

(Report No: TC502523200000856)



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TEST REPORT

Report No./ULR No. :	TC502523200001120	Date :	06-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	20-05-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 06-06-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	36	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	4.6	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	11.17	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	72.13	APHA:2017 : 5220-C	250
5	pH	7.08	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]	12.31	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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Senior Analyst

Authorized Signatory
(Report No: TC502523200001120)



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TEST REPORT

Report No./ULR No. :	TC502523200001749	Date :	08-07-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	21-06-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	22-06-2023
Date of Test/Analysis :	22-06-2023 to 08-07-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	13	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	8.03	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	7.5	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	48.26	APHA:2017 : 5220-C	250
5	pH	7.41	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]	7.65	APHA 2017 : 4500-NO3- B	50
9	Bioassay test	90 % Survival of Fish after 96 Hours 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

Authorised Signatory
(Report No: TC502523200001749)



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TEST REPORT

Report No./ULR No. :	23200001886	Date :	01-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical & Biological	Date of Sample Collection/Monitoring :	08-07-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	11-07-2023
Date of Test/Analysis :	11-07-2023 to 01-08-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	29	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	9.71	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	8	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	52.1	APHA:2017 : 5220-C	250
5	pH	7.41	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]	15.53	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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Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 23200001886)



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TEST REPORT

Report No./ULR No. :	23200002445	Date :	01-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 01-09-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	24	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	7.32	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	9.75	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	73.73	APHA:2017 : 5220-C	250
5	pH	7.76	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]	0.1	APHA 2017 : 4500- Cl- B	1.0
8	Nitrate as NO3 [mg/l]	13.18	APHA 2017 : 4500-NO3- B	50
9	Bioassay test	90 % Survival of Fish after 96 Hours in 100% Dilution	IS 6582 :1971	90 % Survival of Fish after 96 hours in 100 % Effluent

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 23200002445)



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TEST REPORT

Report No./ULR No. :	23200002764	Date :	04-10-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Liquid Effluents / Chemical	Date of Sample Collection/Monitoring :	20-09-2023
Point of Collection :	STP Outlet Colony	Date of Receipt :	25-09-2023
Date of Test/Analysis :	25-09-2023 to 04-10-2023	Sampling Plan :	APHA 2017 : 1060
Quantity of Sample :	2 ltr.	Sample Collected By :	kishan murari
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Total Suspended Solids [mg/l]	35	APHA.2017:2540-D	100
2	Ammonical Nitrogen as N [mg/l]	4.95	APHA 2017 : 4500-NH3 C	50
3	Biochemical Oxygen Demand (BOD) [mg/l]	8.57	APHA 2017:5210-B	30
4	Chemical Oxygen Demand (COD) [mg/l]	66.88	APHA:2017 : 5220-C	250
5	pH	7.34	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]	0.1	APHA 2017 : 4500- Cl- B	1.0
8	Nitrate as NO3 [mg/l]	17.85	APHA 2017 : 4500-NO3- B	50
9	Bioassay test	90 % Survival of Fish after 96 Hours in 100% Dilution	IS 6582 :1971	90 % Survival of Fish after 96 hours in 100 % Effluent

Notes :-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: 23200002764)

Annex-4



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TEST REPORT

Report No./ULR No. :	TC502523100000708	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Peizometer No.-1	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.35	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram
Balram Aggarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000708)



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TEST REPORT

Report No./ULR No. :	TC502523100000709	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Peizometer No.-2	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.24	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

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Senior Analyst

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(Report No: TC502523100000709)



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TEST REPORT

Report No./ULR No. :	TC502523100000710	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Peizometer No.-3	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.18	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]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram
Balram Agarwal
Senior Analyst

Rajesh
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000710)



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TEST REPORT

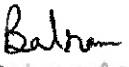
Report No./ULR No. :	TC502523100000711	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Peizometer No.-4	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.22	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	0.03	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100000712	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Peizometer No.-5	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.09	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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Senior Analyst

Authorized Signatory
(Report No: TC502523100000712)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100000713	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Peizometer No.-6	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.03	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.03	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balram Agarwal
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000713)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100000714	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Peizometer No.-7	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.19	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
Senior Analyst

Rajesh Maheshwari
Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000714)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523100000715	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Peizometer No.-8	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.21	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.08	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523100000715)



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TEST REPORT

Report No./ULR No. :	TC502523100000716	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Peizometer No.-9	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.16	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

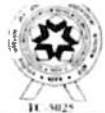
- # The results listed refer only to the tested sample (s) & parameters (s). Endorsement of products is neither inferred nor implied.
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Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523100000716)



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TEST REPORT

Report No./ULR No. :	TC502523100000717	Date :	21-04-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical	Date of Sample Collection/Monitoring :	12-04-2023
Point of Collection :	Peizometer No.-10	Date of Receipt :	14-04-2023
Date of Test/Analysis :	14-04-2023 to 21-04-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 ltr.	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	8.13	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	BDL(<0.001)	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	BDL(<0.01)	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	BDL(<0.01)	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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


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TEST REPORT

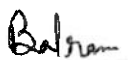
Report No./ULR No. :	23100001456	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical & Biological	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	Peizometer No.-1	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 06-09-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.04	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]	0.003	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]	2.46	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 23100001456)



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TEST REPORT

Report No./ULR No. :	23100001457	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical & Biological	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	Peizometer No.-2	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 06-09-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.01	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]	0.001	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.89	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balraj

Senior Analyst

Balraj

Authorized Signatory
(Report No: 23100001457)



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TEST REPORT

Report No./ULR No. :	23100001458	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical & Biological	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	Peizometer No.-3	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 06-09-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.45	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]	0.002	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.28	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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

Balra
Authorized Signatory
(Report No: 23100001458)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23100001459	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical & Biological	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	Peizometer No.-4	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 06-09-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	6.54	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]	0.003	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	4.87	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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

Senior Analyst

Belra

Authorized Signatory
(Report No: 23100001459)



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TEST REPORT

Report No./ULR No. :	23100001460	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited (Debari Zinc Smelter) PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical & Biological	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	Peizometer No.-5	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 06-09-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	6.87	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]	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]	2.50	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balra
Senior Analyst

Raj
Authorized Signatory
(Report No: 23100001460)



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TEST REPORT

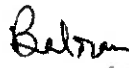
Report No./ULR No. :	23100001461	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical & Biological	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	Peizometer No.-6	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 06-09-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.67	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]	0.001	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.13	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 23100001461)



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

TEST REPORT

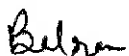
Report No./ULR No. :	23100001462	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical & Biological	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	Peizometer No.-7	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 06-09-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.61	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]	0.002	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.10	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: 23100001462)



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Report No./ULR No. :	23100001463	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical & Biological	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	Peizometer No.-8	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 06-09-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.53	IS 3025 (Part 11) : 1983 RA 2017
2	Iron [mg/l]	BDL(<0.01)	IS 3025 (Part 53) : 2003 RA 2019
3	Cadmium [mg/l]	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]	0.12	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balran
Senior Analyst

Bayi
Authorized Signatory
(Report No: 23100001463)



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TEST REPORT

Report No./ULR No. :	23100001464	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical & Biological	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	Peizometer No.-9	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 06-09-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.13	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]	0.23	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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

Balram
Authorized Signatory
(Report No: 23100001464)



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Report No./ULR No. :	23100001465	Date :	06-09-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ground Water / Chemical & Biological	Date of Sample Collection/Monitoring :	19-08-2023
Point of Collection :	Peizometer No.-10	Date of Receipt :	21-08-2023
Date of Test/Analysis :	21-08-2023 to 06-09-2023	Sampling Plan :	IS 3025:1987(Part 1)RA 2014
Quantity of Sample :	2 Ltr	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol
1	pH	7.36	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]	0.001	IS 3025 (Part 41) : 1992 RA 2019
4	Lead [mg/l]	0.01	IS 3025 (Part 47) : 1994 RA 2019
5	Zinc [mg/l]	0.67	IS 3025 (Part 49) : 1994 RA 2019

Notes :-

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Balra

Senior Analyst

Balra

Authorized Signatory
(Report No: 23100001465)

Annex-5



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001111	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:19 to 19-05-2023 17:19
Point of Collection :	Near Environmental lab	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.6	IS 9989	70

Notes :-

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P. V. Vogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600001111)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

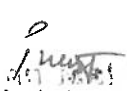
Report No./ULR No. :	TC502523600001112	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:20 to 19-05-2023 17:20
Point of Collection :	Near Railway Gate/ SRP	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	62.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.7	IS 9989	70

Notes :-

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Senior Analyst


Authorized Signatory

(Report No: TC502523600001112)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001113	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:21 to 19-05-2023 17:21
Point of Collection :	Near ETP	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	56.6	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	49.2	IS 9989	70

Notes :-

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Purni Mal Yogi
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600001113)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001114	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:22 to 19-05-2023 17:22
Point of Collection :	Near DG Set Room	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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)]	53.6	IS 9989	70

Notes :-

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Punita Mehta
Senior Analyst

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600001114)



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TEST REPORT

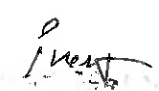
Report No./ULR No. :	TC502523600001115	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:22 to 19-05-2023 17:22
Point of Collection :	Near ZSD Main Gate	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	73.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	64.6	IS 9989	70

Notes :-

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Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600001115)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001116	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:23 to 19-05-2023 17:23
Point of Collection :	Near ZE	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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)]	56.2	IS 9989	70

Notes :-

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Puran Maheshwari
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600001116)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001117	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:24 to 19-05-2023 17:24
Point of Collection :	Near Weigh Bridge	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	67.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	58.1	IS 9989	70

Notes :-

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Senior Analyst

Rajesh Maheshwari
Authorized Signatory

(Report No: TC502523600001117)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001118	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-05-2023 17:25 to 19-05-2023 17:25
Point of Collection :	Near Leaching	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	70.3	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	62.5	IS 9989	70

Notes :-

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Senior Analyst

Authorized Signatory

(Report No: TC502523600001118)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001119	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	19-05-2023 17:26 to 20-05-2023 17:26
Point of Collection :	Near MCTP Entrance	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	68.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	60.2	IS 9989	70

Notes :-

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Senior Analyst

Authorized Signatory

(Report No: TC502523600001119)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001120	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	19-05-2023 17:26 to 20-05-2023 17:26
Point of Collection :	Near Roaster	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	68.7	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	58.2	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst

Rakesh Maheshwari
Authorized Signatory
(Report No: TC502523600001120)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001121	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	19-05-2023 17:27 to 20-05-2023 17:27
Point of Collection :	Near Work Shop	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	65.5	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	56.6	IS 9989	70

Notes :-

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Senior Analyst

Authorized Signatory
(Report No: TC502523600001121)



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TEST REPORT

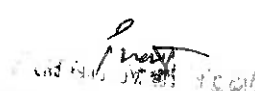
Report No./ULR No. :	TC502523600001122	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	19-05-2023 17:28 to 20-05-2023 17:28
Point of Collection :	Near Solar Area	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	54.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	46.2	IS 9989	70

Notes :-

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Senior Analyst


Authorized Signatory
(Report No: TC502523600001122)



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TEST REPORT

Report No./ULR No. :	TC502523600001123	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	19-05-2023 17:29 to 20-05-2023 17:29
Point of Collection :	Near Hospital	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	53.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	45.3	IS 9989	70

Notes :-

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Puran Mal Yogi
Senior Analyst


Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600001123)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	TC502523600001124	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	19-05-2023 17:30 to 20-05-2023 17:30
Point of Collection :	Near STP	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	58.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	49.6	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: Yogi

Rajesh Maheshwari
Authorized Signatory
(Report No: TC502523600001124)



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

TEST REPORT


Report No./ULR No. :	TC502523600001125	Date :	05-06-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	19-05-2023 17:31 to 20-05-2023 17:31
Point of Collection :	Near Store	Date of Receipt :	20-05-2023
Date of Test/Analysis :	20-05-2023 to 27-05-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	62.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	55.6	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


Authorized Signatory
(Report No: TC502523600001125)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001483	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / -	Date of Sample Collection/Monitoring :	18-08-2023 11:56 to 19-08-2023 11:56
Point of Collection :	Near Environment Lab	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	56.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	47.5	IS 9989	70

Notes :-

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Senior Analyst
Sunil Kumar


Authorized Signatory
(Report No: 23600001483)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001482	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 11:58 to 19-08-2023 11:58
Point of Collection :	Near Railway Gate/ SRP	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.8	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.6	IS 9989	70

Notes :-

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


Authorized Signatory
(Report No: 23600001482)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001484	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:02 to 19-08-2023 14:02
Point of Collection :	Near ETP	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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)]	58.7	IS 9989	70

Notes :-

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Senior Analyst
Sanku Kumar


Authorized Signatory
Purushottam Mal Yogi
(Report No: 23600001484)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001485	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:04 to 19-08-2023 14:04
Point of Collection :	Near DG Set Room	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	56.4	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	48.2	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
Sunil Kumar


Authorized Signatory
(Report No: 23600001485)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001486	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:08 to 19-08-2023 14:08
Point of Collection :	Near ZSD Main Gate	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

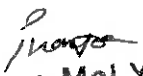
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	62.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	53.7	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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Senior Analyst


Authorized Signatory
(Report No: 23600001486)



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TEST REPORT

Report No./ULR No. :	23600001487	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:40 to 19-08-2023 14:40
Point of Collection :	Near ZE	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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)]	60.4	IS 9989	70

Notes :-

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


Authorized Signatory
Pawan Singh Yogi
(Report No: 23600001487)



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TEST REPORT

Report No./ULR No. :	23600001488	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:42 to 19-08-2023 14:42
Point of Collection :	Near Weigh Bridge	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	54.7	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	63.9	IS 9989	75

Notes :-

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


Authorized Signatory
Puranimal Yogi
(Report No: 23600001488)



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TEST REPORT

Report No./ULR No. :	23600001490	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:45 to 19-08-2023 14:45
Point of Collection :	Near MCTP Entrance	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

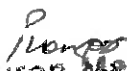
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	49.2	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	57.4	IS 9989	75

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: 23600001490)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001491	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:46 to 19-08-2023 14:46
Point of Collection :	Near Roaster	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

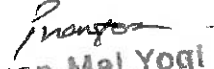
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	60.5	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	68.7	IS 9989	75

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
Guni Kumar


Authorized Signatory
(Report No: 23600001491)



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TEST REPORT

Report No./ULR No. :	23600001492	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:48 to 19-08-2023 14:48
Point of Collection :	Near Work Shop	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

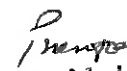
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	56.6	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	65.7	IS 9989	75

Notes :-

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Sunil Kumar
Senior Analyst


P. Prasad
Authorized Signatory
(Report No: 23600001492)



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TEST REPORT

Report No./ULR No. :	23600001493	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:49 to 19-08-2023 14:49
Point of Collection :	Near Solar Area	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	47.7	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	56.9	IS 9989	75

Notes :-

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Senior Analyst


Authorized Signatory Yogi
(Report No: 23600001493)



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TEST REPORT

Report No./ULR No. :	23600001494	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan).	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:50 to 19-08-2023 14:50
Point of Collection :	Near Hospital	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

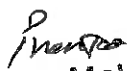
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	45.5	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	54.7	IS 9989	75

Notes :-

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Sunil Kumar
Senior Analyst


Pankaj Singh
Authorized Signatory
(Report No: 23600001494)



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TEST REPORT

Report No./JLR No. :	23600001495	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:52 to 19-08-2023 14:52
Point of Collection :	Near STP	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Night Time) : Leq [dB(A)]	53.5	IS 9989	70
2	Noise Level (Day Time) : Leq [dB(A)]	60.9	IS 9989	75

Notes :-

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Sunil Kumar
Senior Analyst


Puran Mal Yogi
Authorized Signatory
(Report No: 23600001495)



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Email : marketinglab@teamtesthouse.com

TEST REPORT

Report No./ULR No. :	23600001496	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Chemical	Date of Sample Collection/Monitoring :	18-08-2023 14:53 to 19-08-2023 14:53
Point of Collection :	Near Store	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing

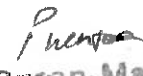
RESULTS

S.No	Parameters	Observed Value	Testing Protocol	Limits as per Environment protection rules, 1986
1	Noise Level (Day Time) : Leq [dB(A)]	61.9	IS 9989	75
2	Noise Level (Night Time) : Leq [dB(A)]	52.6	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


Authorized Signatory
(Report No: 23600001496)



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TEST REPORT

Report No./ULR No. :	23600001489	Date :	24-08-2023
Issued To :	M/S Hindusthan Zinc Limited [Debari Zinc Smelter] PO : Zinc Smelter, District Udaipur (Rajasthan),	Type of Unit :	Smelter
Type of sample / Discipline :	Ambient Noise Level Monitoring / Biological	Date of Sample Collection/Monitoring :	18-08-2023 15:45 to 19-08-2023 15:45
Point of Collection :	Near Leaching	Date of Receipt :	22-08-2023
Date of Test/Analysis :	22-08-2023 to 23-08-2023	Sampling Plan :	TTH/NOISE/01
Quantity of Sample :	-	Sample Collected By :	Vimal Kumar Yadav
Unit's representative :	Ms. Neha Maheshwari	Condition of Sample :	Fit for testing


RESULTS

S.No	Parameters	Observed Value	Testing Protocol	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)]	60.2	IS 9989	70

Notes :-

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


Senior Analyst
Vimal Kumar


Authorized Signatory
(Report No: 23600001489)